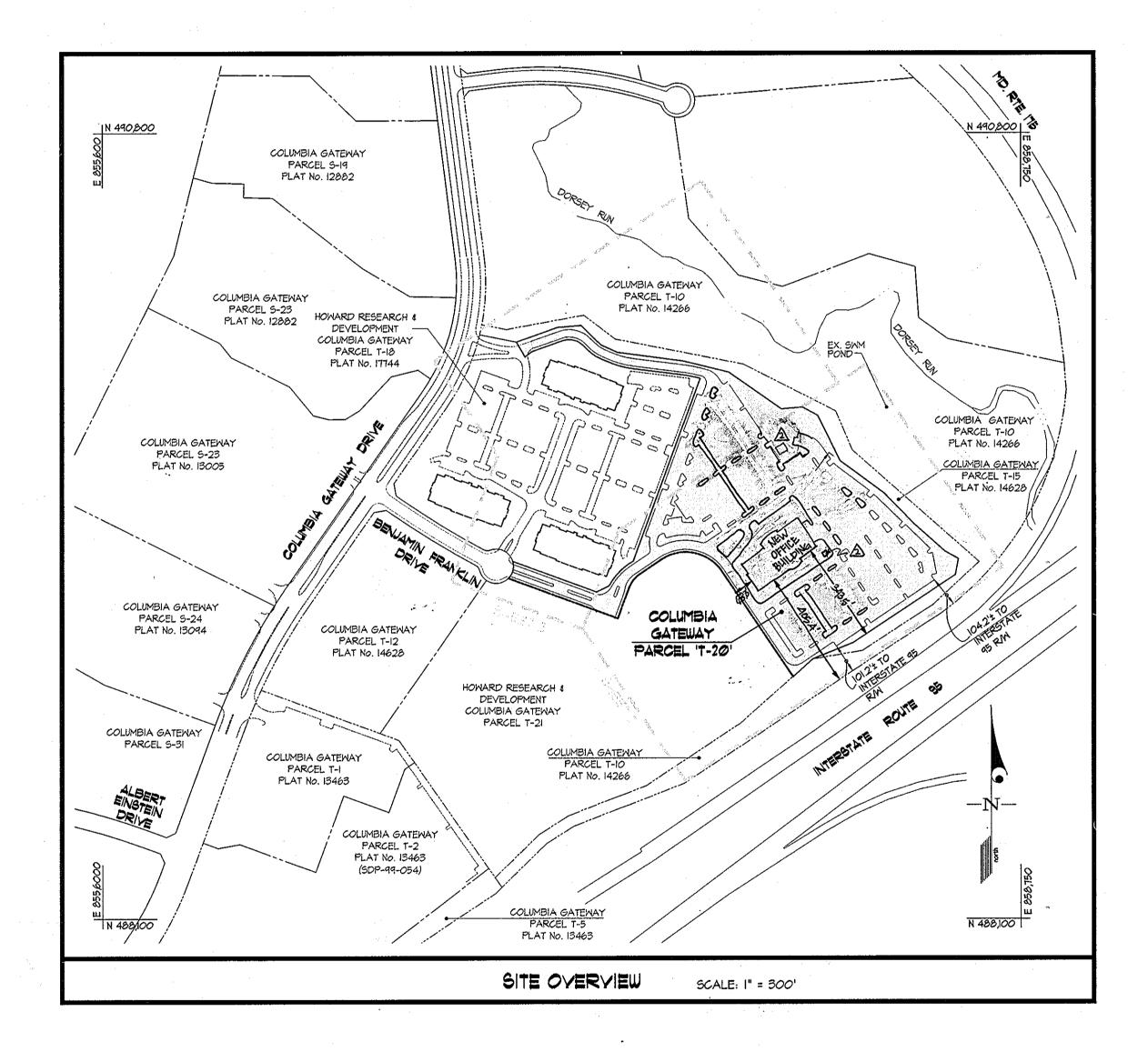
- I. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE.
- 2. THE CONTRACTOR SHALL NOTIFY THE BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO START OF WORK.
- 3. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-TTT1 AT LEAST 48-HOURS PRIOR TO ANY EXCAVATION WORK.
- 4. PROJECT BACKGROUND:
- LOCATION: TAX MAP 37, GRID 2
- ELECTION DISTRICT: 6TH DISTRICT
- SECTION/AREA: SITE AREA: 14.9640 AC. (PARCEL T-20)
- DEPT. OF PLANNING & ZONING APPROVED FILE NUMBERS FOR REFERENCES. P-86-22, S-84-44, S-85-28, WP-88-47, VP-84-150, VP-85-34, VP-85-35, VP-86-61, VP-86-73, VP-86-119, F-86-127, F-86-182, F-87-63, F-87-125, F-99-81, F-99-91, F-00-132,
- LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTC). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
- 6. ALL PLAN DIMENSIONS ARE TO THE FACE OF CURB OR FACE OF BUILDING UNLESS OTHERWISE NOTED. DIMENSIONS ARE MEASURED PERPENDICULAR OF RADIALLY BETWEEN ITEMS UNLESS
- 1. EXISTING TOPOGRAPHY AND FEATURES WERE DERIVED FROM AVAILABLE PUBLIC RECORDS (F-00-132). THIS SITE WAS MASS GRADED UNDER F-00-132.
- 8. COORDINATES ARE BASED ON HOWARD COUNTY GEODETIC CONTROL STA. NOs. 42CB AND 42CC. THE VERTICAL DATUM IS IN NVD'29.
- 9. THIS SITE WILL BE SERVED BY PUBLIC WATER & SEWER UNDER THE EXISTING CONTRACT #24-38/4-D AND #24-4362-D AND THE ON-SITE PUBLIC WATER & SEWER EXTENSION UNDER CONTRACT #24-4367-D TO BE CONSTRUCTED UNDER A DEVELOPER'S AGREEMENT PER THIS SDP.
- 10. STORMWATER MANAGEMENT (FOR 2 \$ 10 YR QUANTITY & QUALITY) IS PROVIDED BY THE SWM FACILITY CONSTRUCTED UNDER F-00-132, ON PARCELS T-10 AND T-15. TEMPORARY SWM FOR NEWLY GRADED LAND IS PROVIDED IN THE SAME POND (F-00-132)
- II. ALL ON-SITE STORM DRAINS PROPOSED UNDER THIS SDP ARE PRIVATE
- 12. THE EXISTING UTILITIES SHOWN HEREIN WERE DERIVED FROM AVAILABLE PUBLIC RECORDS. THE CONTRACTOR MUST HAND DIG TEST PITS AT ALL UTILITY CROSSINGS AND CONNECTION POINTS TO VERIFY
- 13. ALL PROPOSED RAMPS SHALL BE IN ACCORDANCE WITH CURRENT A.D.A. STANDARDS. MAXIMUM SIDEWALK CROSS SLOPE SHALL BE (2%) TWO PERCENT. PROVIDE A MINIMUM OF (5x5) FIVE BY FIVE FOOT LEVEL LANDING (2% MAX) AT THE TOP AND BOTTOM OF ALL RAMPS AND BUILDING INGRESS/EGRESS POINTS.
- 14. ALL ON-SITE PAVING AND ROADWAYS ARE PRIVATELY OWNED AND MAINTAINED.
- 15. ANY DAMAGE TO COUNTY OWNED RIGHT-OF-WAY TO BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
- 16. TRENCH BEDDING FOR STORM DRAINAGE STRUCTURES SHALL BE IN ACCORDANCE WITH HOWARD COUNTY STANDARD G2.01. CLASS "C" BEDDING, UNLESS OTHERWISE NOTED.
- IT. GUTTER PAN OF CURBS SHALL BE PITCHED TO CONFORM TO THE ADJACENT DRAINAGE PATTERN OF THE ADJOINING PAVING FOR VEHICULAR USE. FOR PAVING AND CURB DESIGNATION, SEE SHEET 4.
- 18. ALL CURB FILLETS ARE 5' RADIUS UNLESS NOTED OTHERWISE. SPOT ELEVATIONS ALONG CURB LINE ARE FOR THE FLOW LINE (BOTTOM OF CURB), UNLESS NOTED OTHERWISE.
- 19. THERE ARE NO KNOWN GRAVE SITES OR CEMETERIES ON THIS SITE.
- 20. OTHER TOPICS RELATED TO THIS SITE:
- TRAFFIC ANALYSIS PREPARED BY WELLS & ASSOCIATES, LLC. (DATED 12/05/05 AND 3/16/06)
- 21. ALL OUTSIDE LIGHTING SHALL COMPLY WITH ZONING REGULATION SECTION 134 WHICH REQUIRES ALL ADJOINING PUBLIC STREETS AND RESIDENTIAL AREAS. SEE ELECTRICAL DRAWINGS WHICH IS PART OF THE ARCHITECTURAL PLAN SET SUBMITTED FOR BUILDING PERMIT REVIEW
- 22. THE BUILDING SHALL HAVE AN INSIDE WATER METER SETTING AND IT SHALL BE EQUIPPED WITH AN AUTOMATIC FIRE PREVENTION SPRINKLER SYSTEM.
- 23. SEE ARCHITECTURAL DRAWINGS FOR DETAILS OF MASONRY DUMPSTER ENCLOSURES & LOADING DOCK/SERVICE AREA.
- 24. THIS SDP IS EXEMPT FROM THE FOREST CONSERVATION ORDINANCE IN ACCORDANCE WITH SECTION 16.1202(B)(I)(V),
- 25. NO CLEARING, GRADING OR CONSTRUCTION IS PERMITTED WITHIN A WETLAND, WETLAND BUFFER, STREAM BUFFER OR FLOODPLAIN.
- 26. LANDSCAPE SURETY IN THE AMOUNT OF \$15,000.00 IS POSTED AS PART OF THE DEVELOPER'S AGREEMENT FOR THIS SDP. FOR INFORMATION ON THE REQUIRED LANDSCAPE PLANTING AND ASSOCIATED SURETY, SEE SHEETS II & 12.

# COLUMBIA GATEWAY PARCEL 'T-20' SITE DEVELOPMENT PLAN

SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND



### HOWARD COUNTY CONTROL

NAD27 HORIZONTAL DATA | NAD83 HORIZONTAL DATA **# NGVD29 VERTICAL DATA** 

42CB N 488571.4

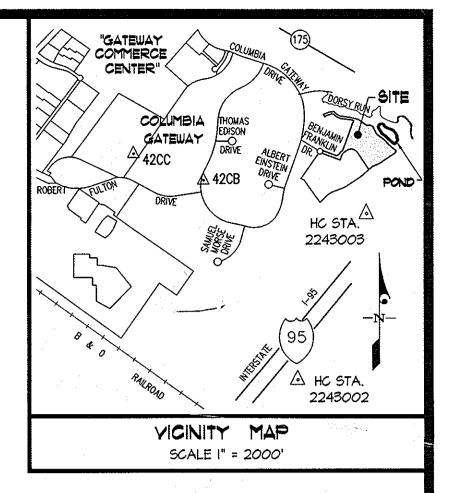
E 852454.6

ELV.=346.707

42CC N 489127.3

N 549320.8174 E 853908.9 E 1366327.2652 ELV.=336.196 ELV.=335.484

N 549876.1555 E 1364873.0106 ELV.=345.999



### SITE ANALYSIS DATA CHART

### I. GENERAL SITE DATA

- A. PRESENT ZONING: M-I
- B. PROPOSED USE OF SITE OR STRUCTURES: GENERAL OFFICE.
- C. SEE GENERAL NOTE #4 FOR APPLICABLE DPZ FILE NUMBERS.

### 2. AREA TABULATION

- A. TOTAL PROJECT AREA:
- 14.9640 ACRES (AREA OF PARCEL T-20)
- B. AREA OF THIS PLAN SUBMISSION: 16.1± ACRES (L.O.D.)
- C. LIMIT OF DISTURBED AREA BY THIS SDP: 16.1± ACRES
- D. BUILDING AREA (GFA): 210,600 S.F. TOTAL FOR A 7 STORY OFFICE BUILDING ACTIVITY SHELTER 600 SF 50,200.50 S.F. (1-3) + 29,781 S.F. (EACH FLOOR 4-7) = 209,725 S.F. SMOKING SHELTER 275 S.F.
- E. BUILDING COVERAGE OF SITE: A 0.71 ACRES OR 4.76% OF PARCEL T-20 SITE AREA
- F. TOTAL PAVED SURFACES (PARKING, DRIVEWAYS, SIDEWALKS, SERVICE AREA, ETC.): 9.66± AC. (64.3%± OF SITE)

# 3. OPEN SPACE DATA

- A. OPEN SPACE REQUIRED ON SITE: N/A
- B. OPEN SPACE PROPOSED: N/A

### 4. PARKING SPACE DATA

- A. REQUIRED PARKING PER ZONING REGULATIONS SEC. 133D.3.A.
- ("GENERAL OFFICE USES" AT 3.3 SPACES PER 1000 S.F.):

### 209.725 x 3.3 = 693 SPACES MINIMUM

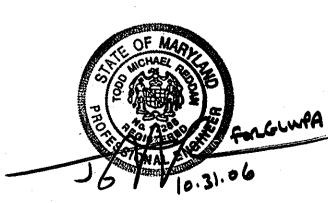
- B. THE TOTAL NUMBER OF PARKING SPACES PROVIDED IS 188 OF WHICH 20 ARE ACCESSIBLE SPACES (OR >2% OF THE TOTAL). THE PARKING SPACES PROVIDED ARE:
  - 9'x18' STANDARD PARKING SPACES
- REGULAR ACCESSIBLE SPACES
- DESIGNATED VAN ACCESSIBLE SPACES TOTAL PARKING SPACES

### SHEET INDEX

### COVER SHEET

- SITE DEVELOPMENT PLAN
- SITE DEVELOPMENT PLAN
- CURB AND PAVING DELINEATION PLAN
- SITE DETAILS STORM DRAIN PROFILES
- STORM DRAIN & SEWER PROFILES
- SEDIMENT CONTROL PLAN SEDIMENT CONTROL NOTES AND DETAILS
- DRAINAGE AREA MAP
- LANDSCAPE PLAN
- PLANTING NOTES, SCHEDULES & DETAILS A 13 SITE PLAN AND LANDSCAPE PLAN MODIFICATIONS
- A 14 SITE AND LANDSCAPEDETAILS & NOTES
- A 15 A.D.A. ACCESSIBLE ROUTE
- SEDIMENT CONTROLPLAN NOTES AND DETAILS FOR MODIFICATIONS





ADDRESS CHART STREET ADDRESS 6821 BENJAMIN FRANKLIN DRIVE

WATER CODE: SEWER CODE: SECTION/AREA | PARCEL(S COLUMBIA GATEWAY T-20 TAX MAP BLOCK ELEC. DIST. CENSUS TRACT

SCALE ZONING G. L. W. FILE No. 05-105 AS SHOWN SHEET

OCTOBER, 2006

**COVER SHEET** TAX MAP - GRID

HOWARD COUNTY, MARYLAND

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING XIDM Lengineering Design

GLWGUTSCHICK LITTLE & WEBER, P.A.

CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS

3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK

BURTONSVILLE, MARYLAND 20866

TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186

:\CADD\DRAWINGS\05105\SDP\05105-CS.dwg | DES. mbt | DRN. KLP | CHK. mbt

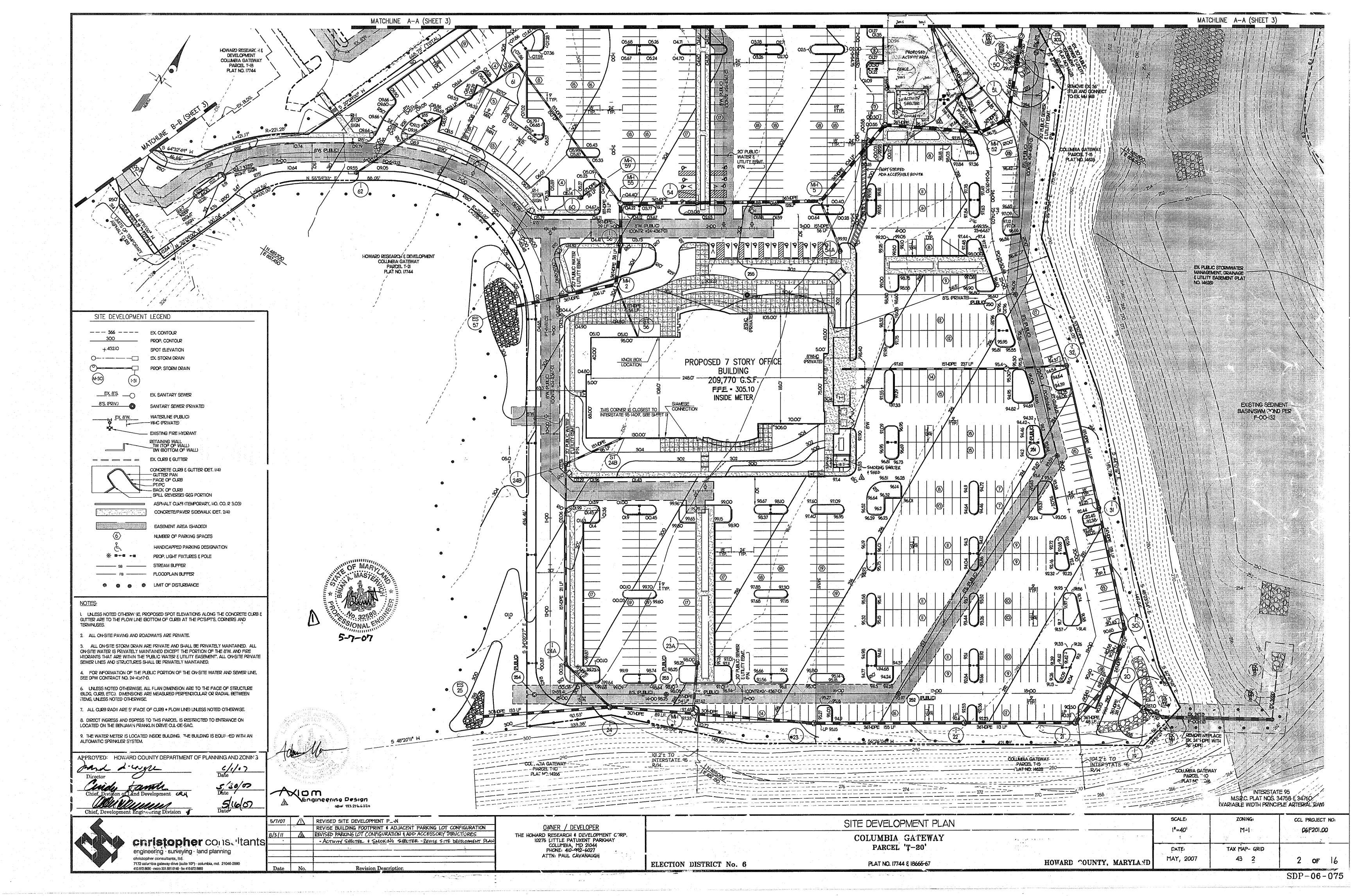
5/7/07. A REVISED BUILDING FOOTPRINT AND ADJACENT PARKING LOT CONFIGURATION 1/3/11 A REVISED PARKING LOT CONFIGURATION ! ADD ACCESSORY STRUCTURES AXIOM = ACTIVITY SHELTER & SMOKING SHELTER - REVISED SITE DEVELOPMENT PLAN APP'R. REVISION BY

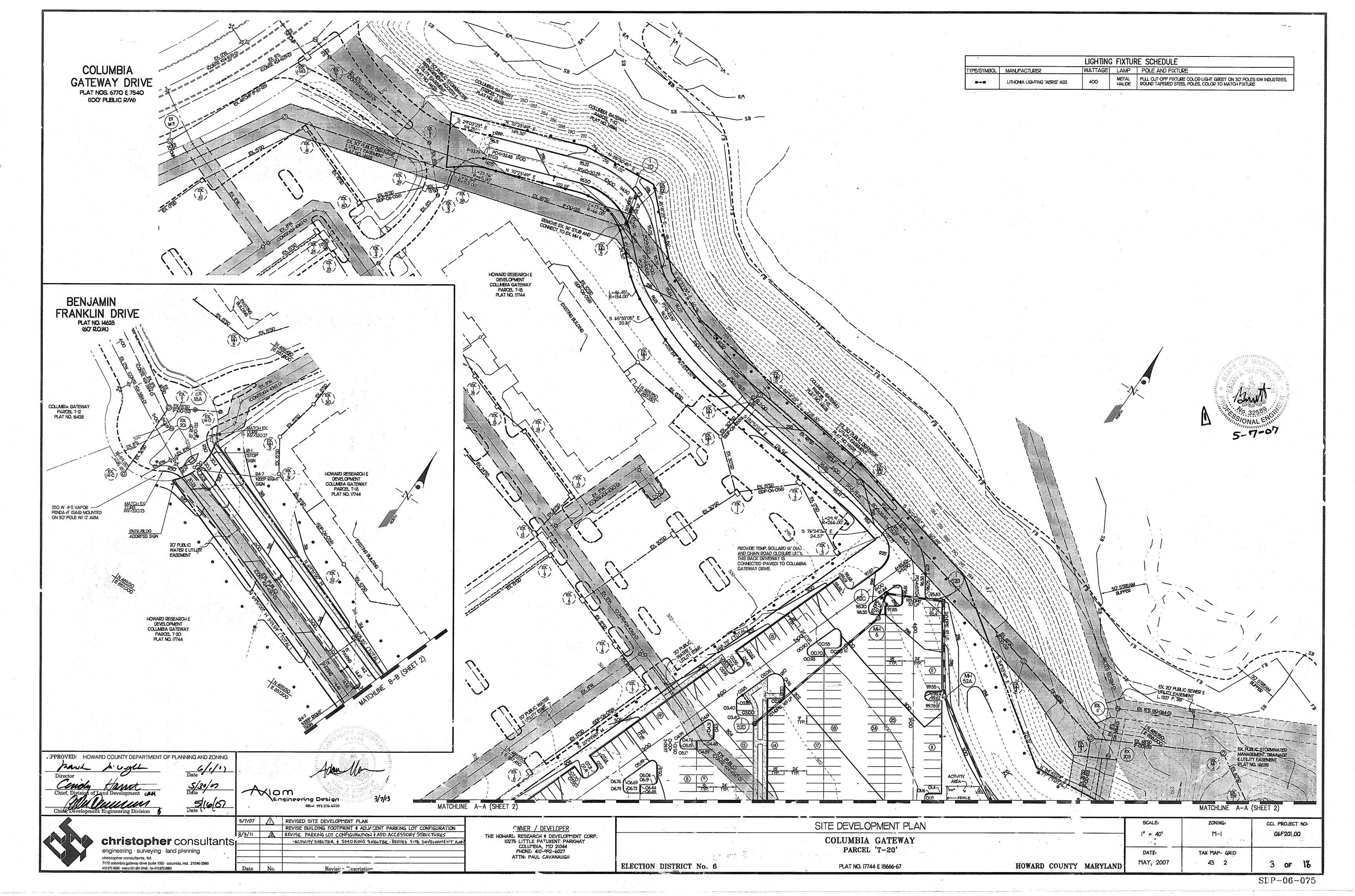
PREPARED FOR: OWNER/DEVELOPER
THE HOWARD RESEARCH & DEVELOPMENT CORP. 10275 LITTLE PATUXENT PARKWAY COLUMBIA, MD 21044 Phone: 410-992-6027 Attn.: PAUL CAVANAUGH

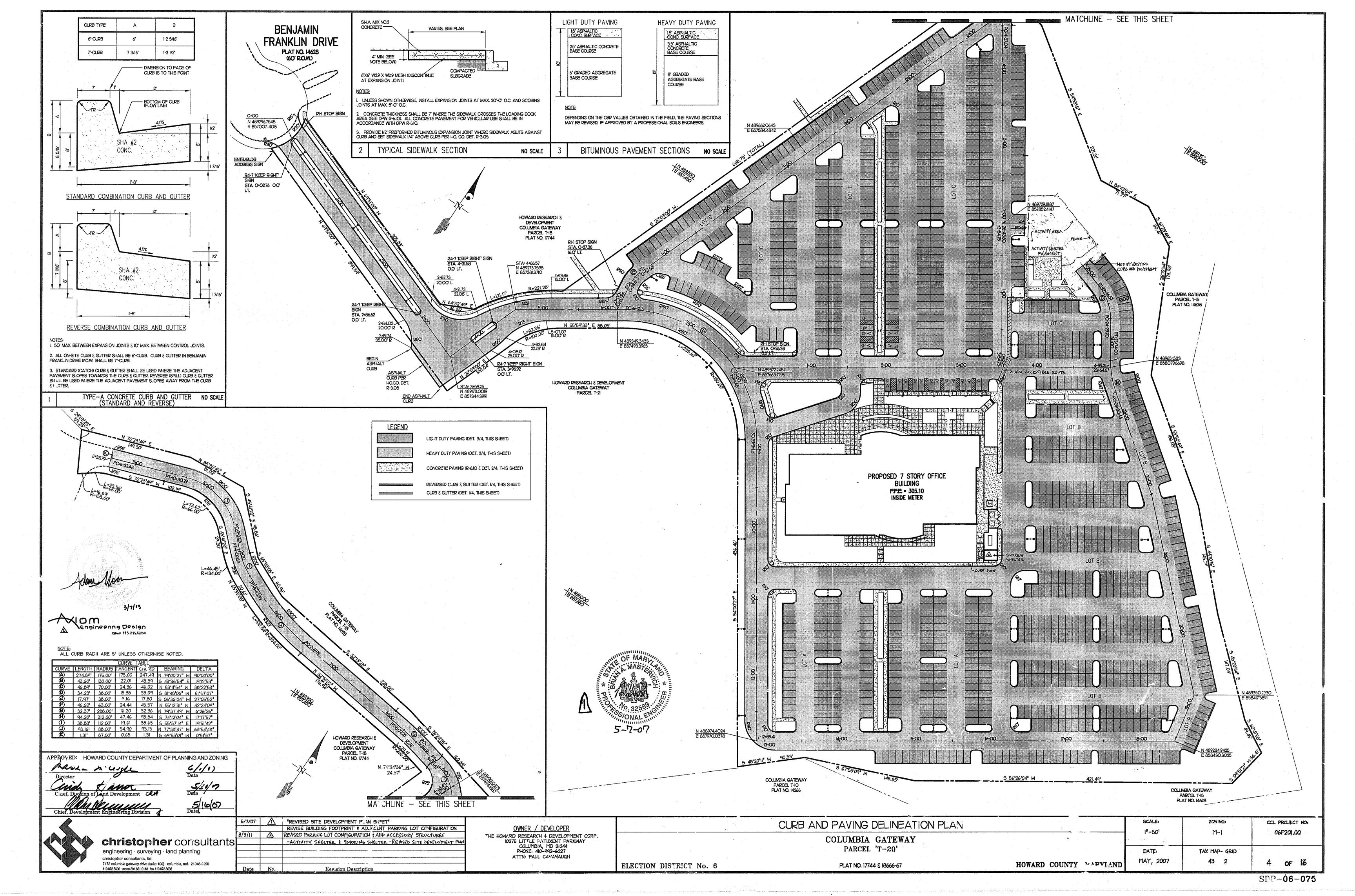
ELECTION DISTRICT No. 6

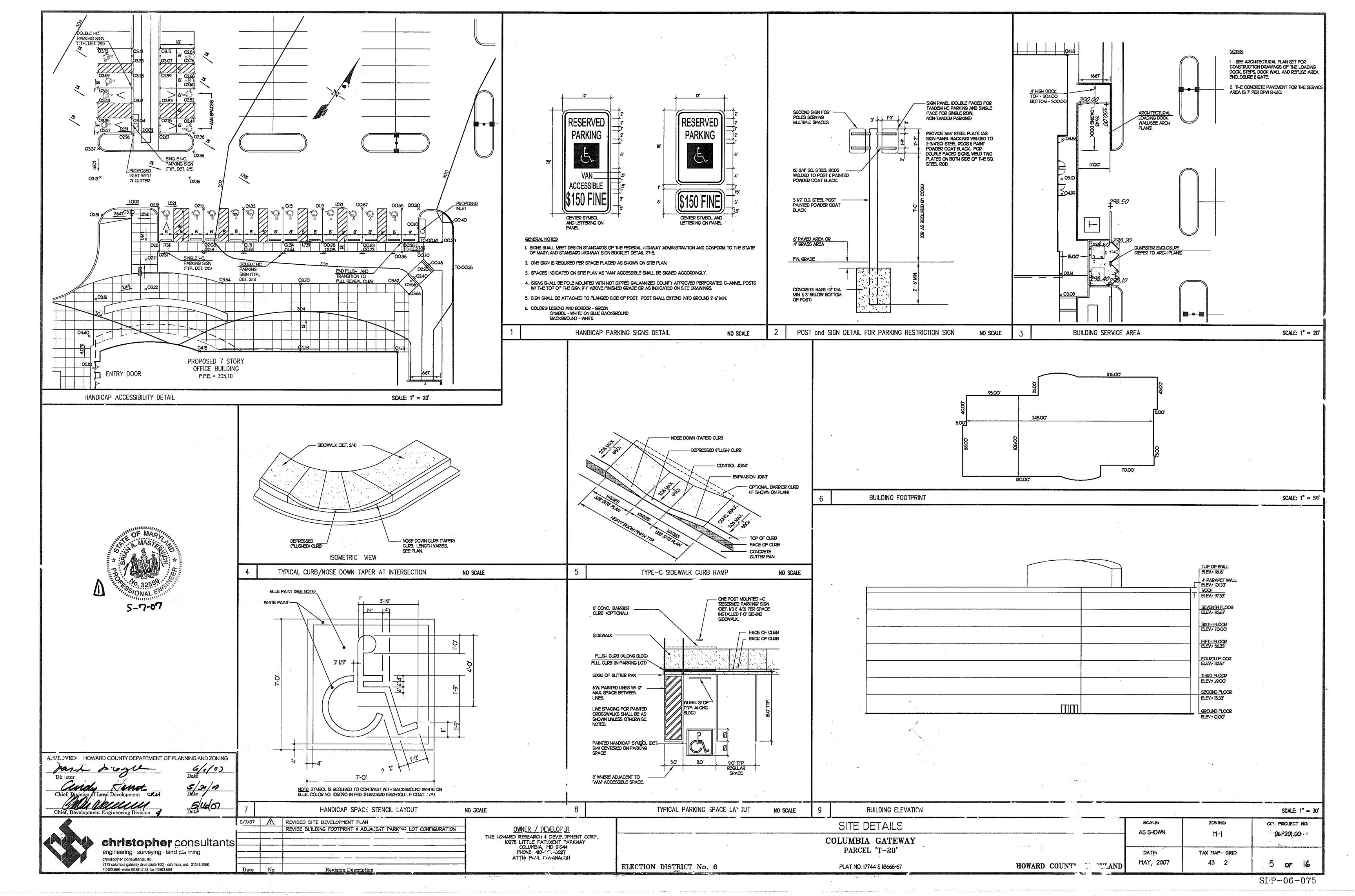
COLUMBIA GATEWAY PARCEL 'T-20' PLAT No. 17744 & 18666-67

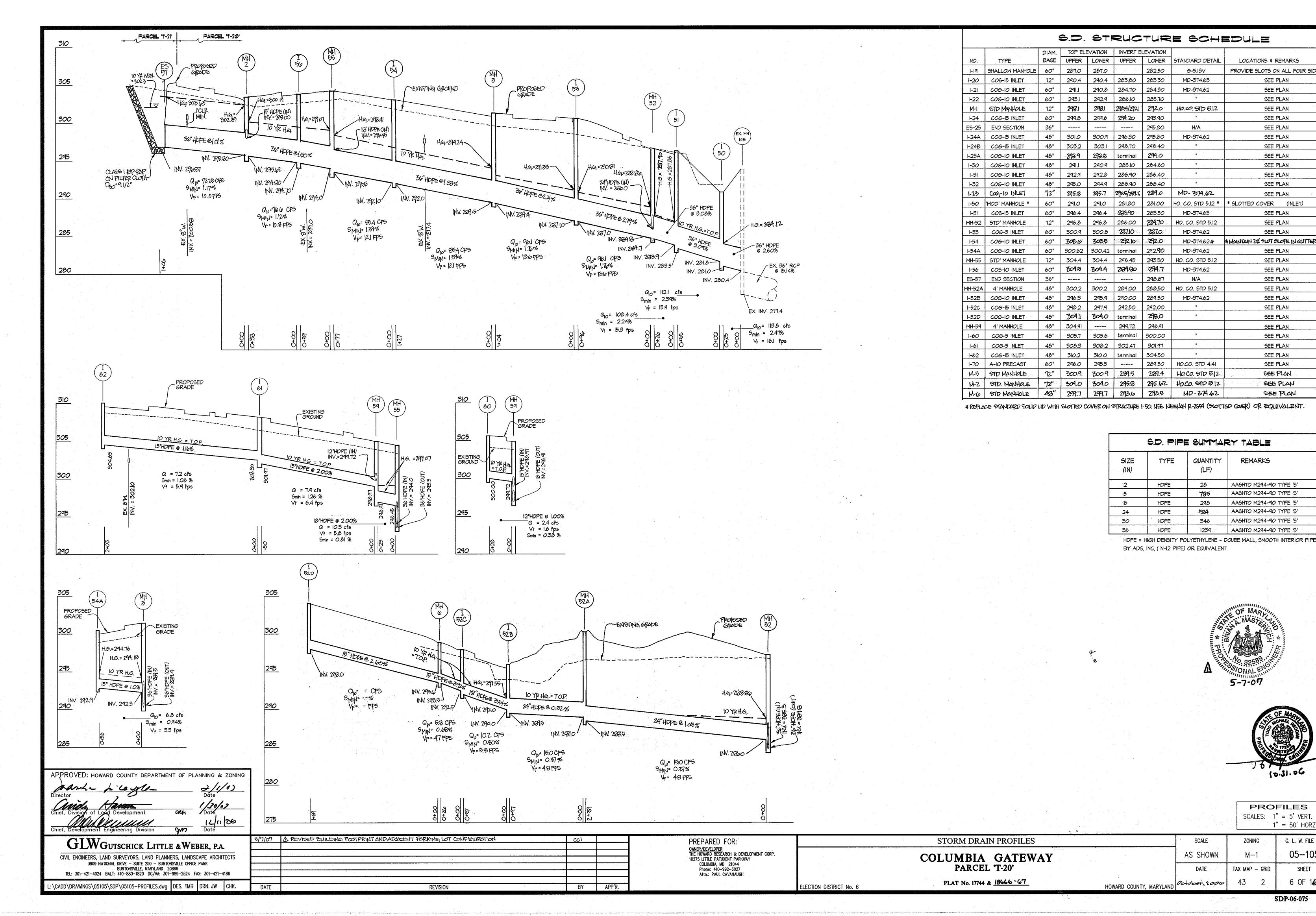
**SDP-06-075** 











PROFILES SCALES: 1" = 5' VERT.

TAX MAP - GRID

1" = 50' HORZ.

G. L. W. FILE No.

05-105

LOCATIONS & REMARKS

PROVIDE SLOTS ON ALL FOUR SIDES

SEE PLAN

\*MOUNTAIN 25% SLOT SLOPE IN GUTTER PO

SEE PLAN

SEE PLAN SEE PLAN

SEE PLAN

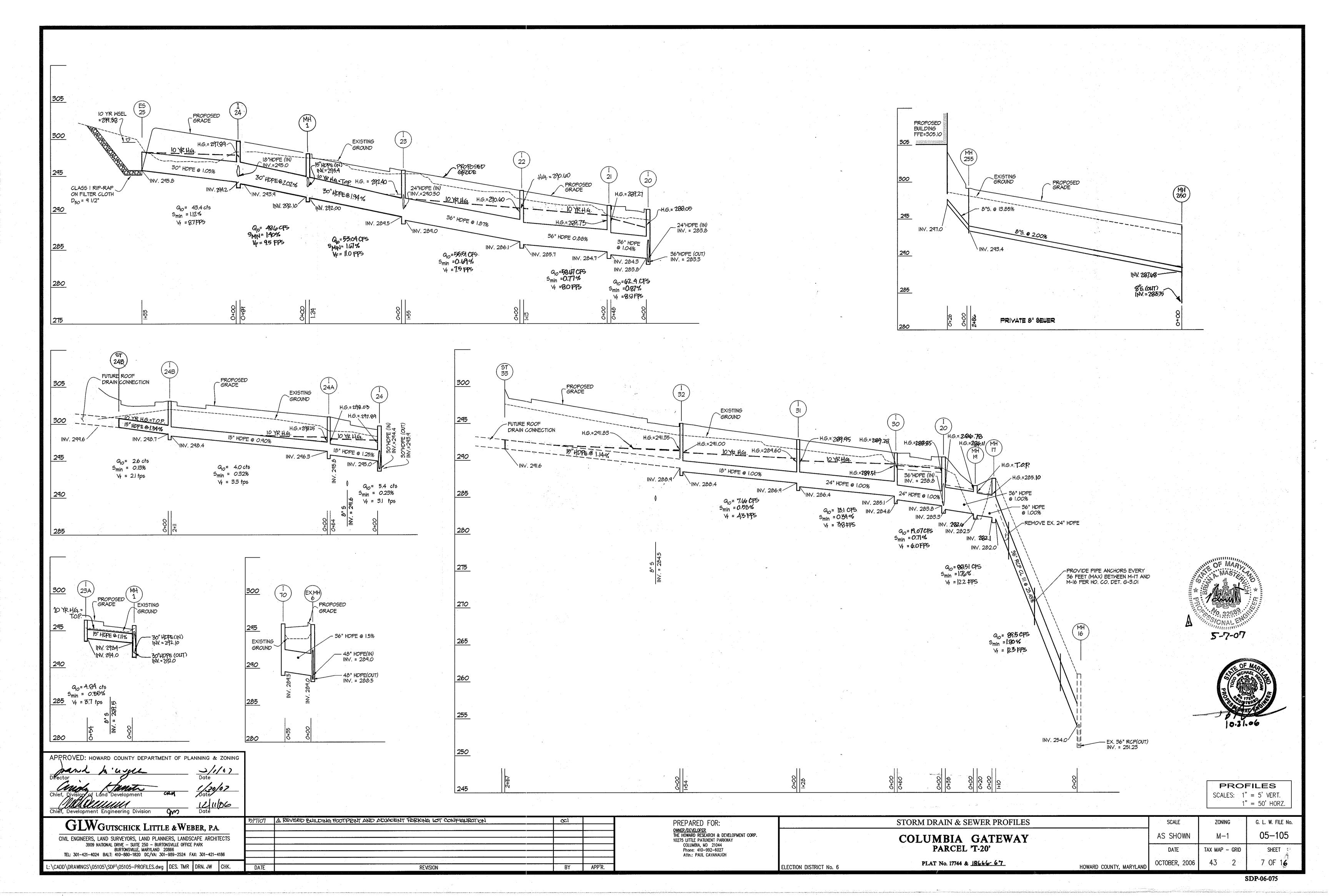
SEE PLAN

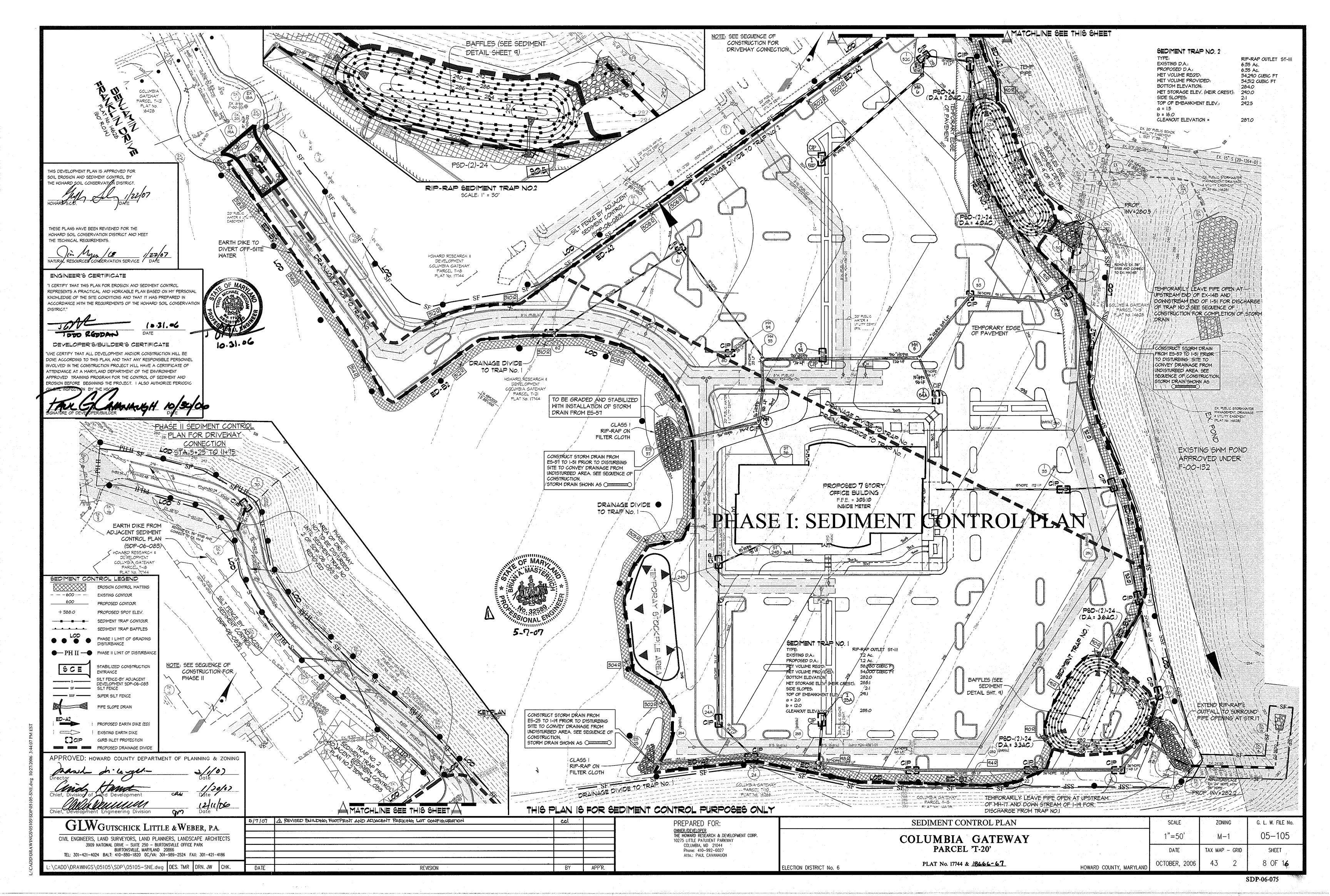
SEE PLAN

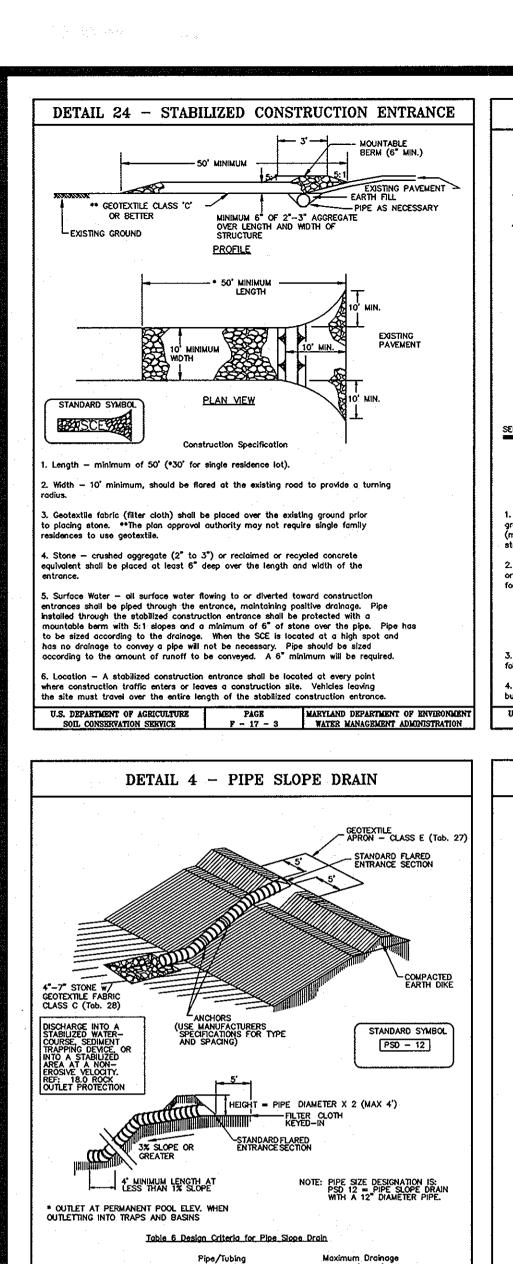
SEE PLAN

REMARKS

AASHTO M294-90 TYPE 'S'







PSD-18

PS0-21

PS0-24

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

I. APPLY FOR GRADING PERMIT.

PSD-24 (2-PIPES WITH 4'-0" BETWEEN)

SEQUENCE OF CONSTRUCTION

UNCONNECTED AT 1-19 AND 1-51, SEE PLAN.

\* SILT FENCE ALONG L.O.D. ON NORTH SIDE OF SITE

2. OBTAIN GRADING PERMIT AT ON-SITE PRE-CONSTRUCTION MEETING. (I DAY)

4. INSTALL SEDIMENT CONTROL DEVICES IN "PHASE I SEDIMENT CONTROL" PLAN

\* STABILIZED CONSTRUCTION ENTRANCE AT BENJAMIN FRANKLIN DRIVE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL

ONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS.

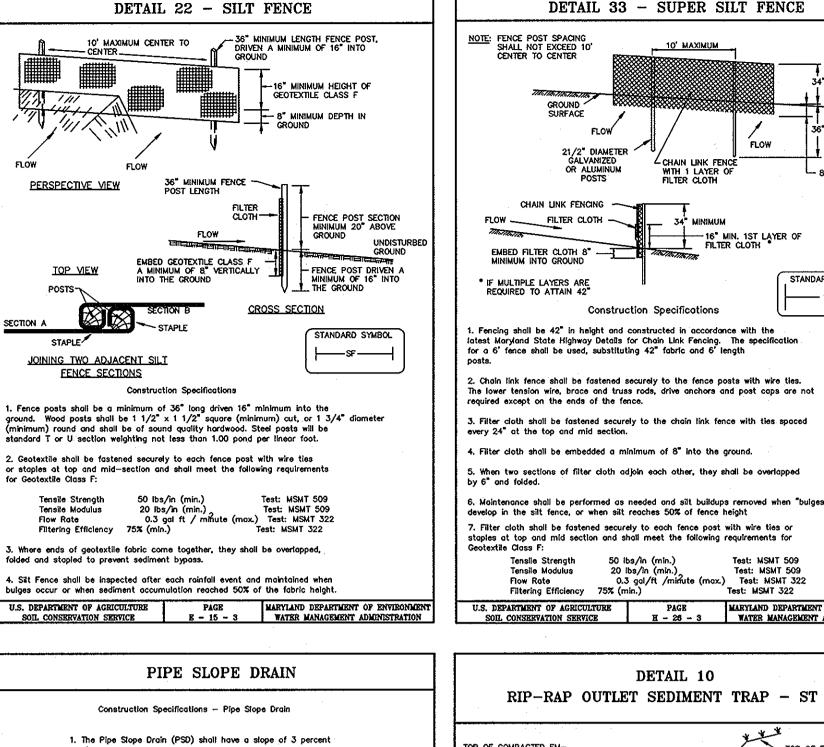
SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

\* SEDIMENT TRAPS NO. I AND NO. 2. INSTALL TRAPS BEFORE EARTH DIKES

THRU 1-51. STABILIZE THE ENTRANCE TO ES-25 AND ES-57 LEAVE PIPES

3. INSTALL STORM DRAIN FROM STRUCTURE ES-57 THRU I-19 AND STRUCTURE ES-57

PAGE MARYLAND DEPARTMENT OF ENVIRONMENT
B - 5 - 4 WATER MANAGEMENT ADMINISTRATION



2. The top of the earth dike over the inlet pipe shall be at

3. Flexible tubing is preferred. However, corrugated metal

pipe or equivalent PVC pipe can be used. All connections

placed under the inlet of the pipe slope drain and shall

5. The Pipe Stope Drain shall be securely anchored to the

slope by staking at the grammets provided. Spacing for anchors shall be as provided by manufacturer's specification

equally spaced along the length of pipe. These details should

6. The soil around and under the pipe and end section shall be

8. Whenever possible where a PSD drains an unstabilized area

it shall outlet into a sediment trap or basin. If this is not

conveyance that leads to a sediment trap or basin. When

ischarging into a trap or basin the PSD shall discharge at

from the PSD must be as far away from the sediment contro

10. Inspection and any required maintenance shall be performed

5. ROUGH GRADE SITE WITHIN PHASE I PLAN, WITH PRIOR

6. CONSTRUCT STORM DRAIN WITHIN PHASE I PLAN, WATER AND SEVER.

7. INSTALL CURB AND GUTTER WITHIN PHASE I PLAN. (3 WEEKS)

8. INSTALL BASE PAYING, WITHIN PHASE I PLAN. (I WEEK)

IO. GRADE WITHIN LIMITS OF DISTURBANCE FOR PHASE II.

12. COMPLETE PAVING OF PARKING LOTS. (I WEEK)

IF NECESSARY, RESTORE TO ORIGINAL GRADES.

(ITEM NOS. 5 THRU 8 MAY BE PERFORMED CONCURRENTLY)

PAVING AND LANDSCAPING (2 WEEKS)

II. COMPLETE CURB AND GUTTER AND BASE PAVING IN PHASE II.

A PORTION OF STORM DRAIN NEAR THE TRAPS NEEDS TO BE COMPLETED AFTER

A PORTION OF CURB AND GUTTER NEAR THE TRAPS NEEDS TO BE COMPLETED

A PORTION OF PAVING NEAR THE TRAPS NEEDS TO BE COMPLETED AFTER THE

9. INSTALL SILT FENCE IN PHASE II PLAN AFTER SEDIMENT TRAP FOR ADJACENT

DEVELOPMENT (SDP-06-083) IS REMOVED. SEE "PHASE II SEDIMENT CONTROL

12. STABILIZE ALL DISTURBED AREAS THAT ARE NOT TO BE BASE PAVED OR

INSPECTOR, REMOVE SEDIMENT TRAPS NO. I AND NO. 2. COMPLETE STORM DRAIN

SYSTEMS WHERE DISCHARGE POINTS OF TRAPS HAD BEEN LOCATED (STR-19 AND

13. STABILIZE ANY REMAINING DISTURBED AREAS AND INSTALL SURFACE COURSE

NOTE: AT THE CLOSE OF EACH DAY, THE CONTRACTOR IS RESPONSIBLE FOR THE

CONTRACTOR TO REMOVE ANY SEDIMENT FROM RECEIVING POND (F-00-132) AND

REPAIR OR REINSTALLATION OF ANY SEDIMENT CONTROL DEVICES DAMAGED BY

II. COMPLETE CURB AND GUTTER IN AREAS WHERE TRAPS WERE BACKFILLED

UNDERGOING UTILITY CONSTRUCTION IN ACCORDANCE WITH THE PERMANENT

IO. AFTER PERMISSION HAS BEEN GRANTED BY THE SEDIMENT CONTROL

1-51). INSTALL SILT FENCE FOR COMPLETION OF PARKING LOT. (I DAY)

possible then the slope drain will discharge into a stable

9. When the drainage area is stabilized, the PSD shall

7. All pipe connections shall be watertight

periodically and after each rain event

11. The inlet must be kept open at all times.

APPROVAL OF INSPECTOR. (3 WEEKS)

THE TRAPS ARE REMOVED.

TRAPS ARE REMOVED.

AFTER THE TRAPS ARE REMOVED.

PLAN FOR DRIVEWAY CONNECTION".

SEEDING NOTES 13. (I WEEK)

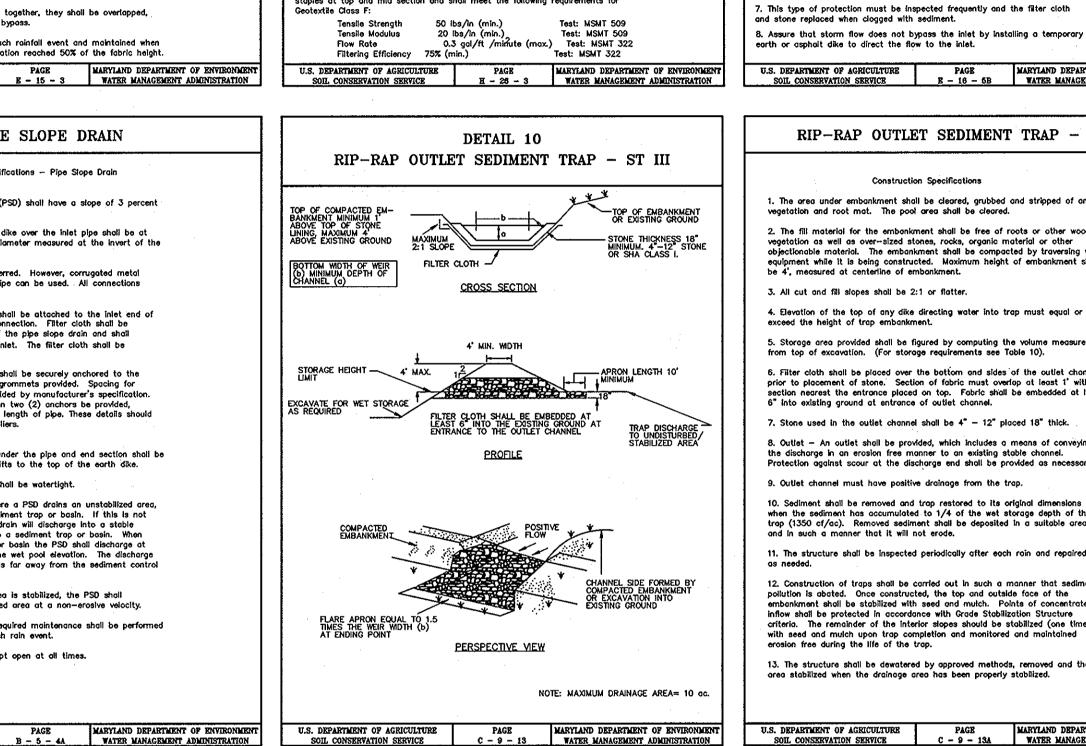
(I WEEK)

INSTALL INLET PROTECTION DEVICES (4 WEEKS)

extend out 5' from the inlet. The filter cloth shall be "keyed in" on all sides.

4. A flored end section shall be attached to the inlet end of

least 2 times the pipe diameter measured at the invert of the



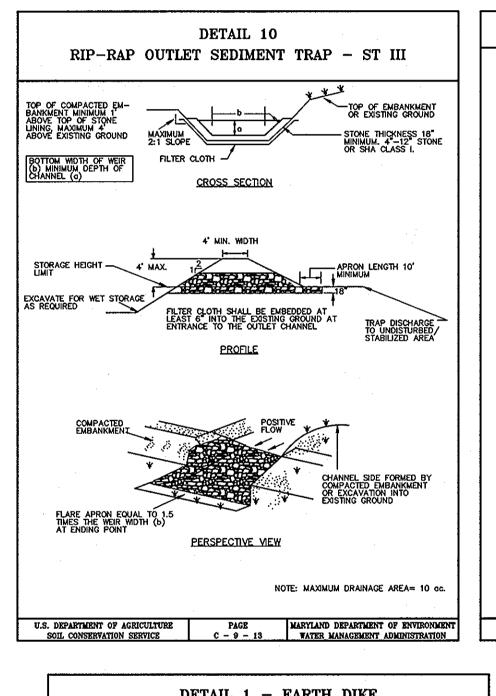
\_\_\_10' MAXIMUM

ร" ผเทเพยม

STANDARD SYMBOL

FLOW

-16" MIN. 1ST LAYER OF



PLAN VIEW

FLOW CHANNEL STABILIZATION

GRADE 0.5% MIN. 10% MAX

grade to an outlet. Spot elevations may be necessary for grades less than 1%

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

3. Runoff diverted from an undisturbed area shall outlet directly into an

4. All trees, brush, stumps, obstructions, and other objectionable material

shall be removed and disposed of so as not to interfere with the proper

5. The dike shall be excavated or 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.

7. All earth removed and not needed for construction shall be placed so that

8. Inspection and maintenance must be provided periodically and after

Seed and cover with Erosion Control Matting or line with sod.
 4" - 7" stone or recycled concrete equivalent pressed into

1. All temporary earth dikes shall have uninterrupted positive

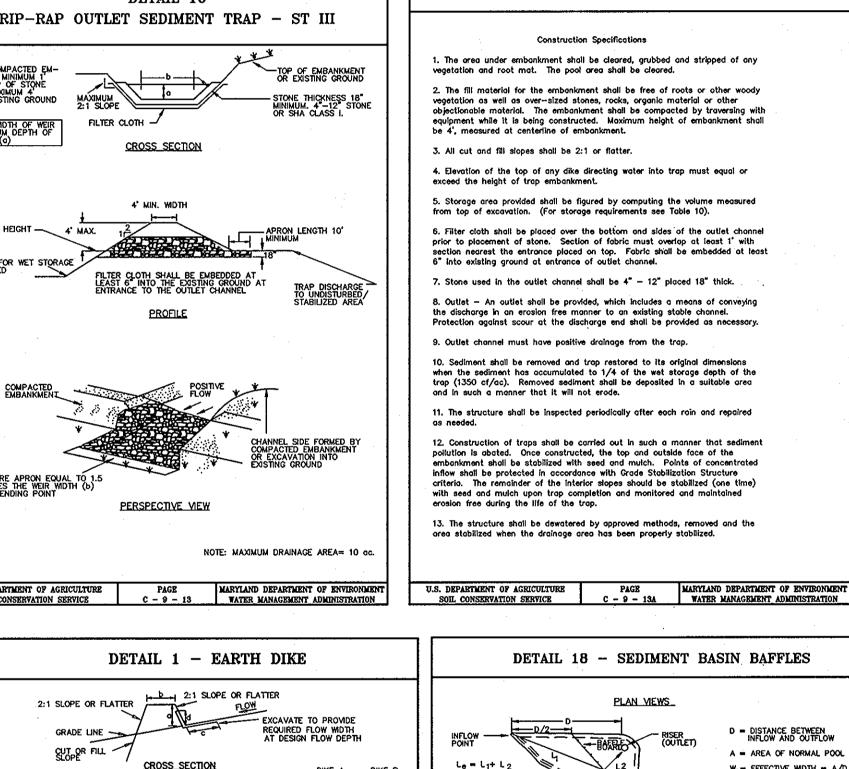
undisturbed, stabilized area at a non-erosive velocity.

6. Fill shall be compacted by earth moving equipment.

it will not interfere with the functioning of the dike.

Construction Specifications

Seed and cover with straw mulch.



a-DIKE HEIGHT 18"

d-FLOW DEPTH 12"

STANDARD SYMBOL

A-2 B-3

**→** -/-- -

le= l1+ l2+ l3+ l4

b-DIKE WIDTH

C-FLOW WOTH

DETAIL 23C

6' MAXIMUM SPACING OF 2" X 4" SPACERS

Construction Specifications

Attach a continuous piece of wire mesh (30" minimum width by throat length plus

4") to the 2" x 4" welr (measuring throat length plus 2") as shown on the standard

3. Securely nail the 2" X 4" weir to a 9" long vertical spacer to be located between

4. Place the assembly against the inlet throat and nail (minimum 2' lengths of 2" x 4" to the top of the weir at spacer locations). These 2" x 4" anchors shall extend across the inlet top and be held in place by sandbags or alternate weight.

5. The assembly shall be placed so that the end spacers are a minimum 1' beyond

against the face of the curb on both sides of the inlet. Place clean 3/4 " x 1 1/2

RIP-RAP OUTLET SEDIMENT TRAP - ST III

stone over the wire mesh and geotextile in such a manner to prevent water from

2. Place a continuous piece of Geotextile Class E the same dimensions as the wire

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

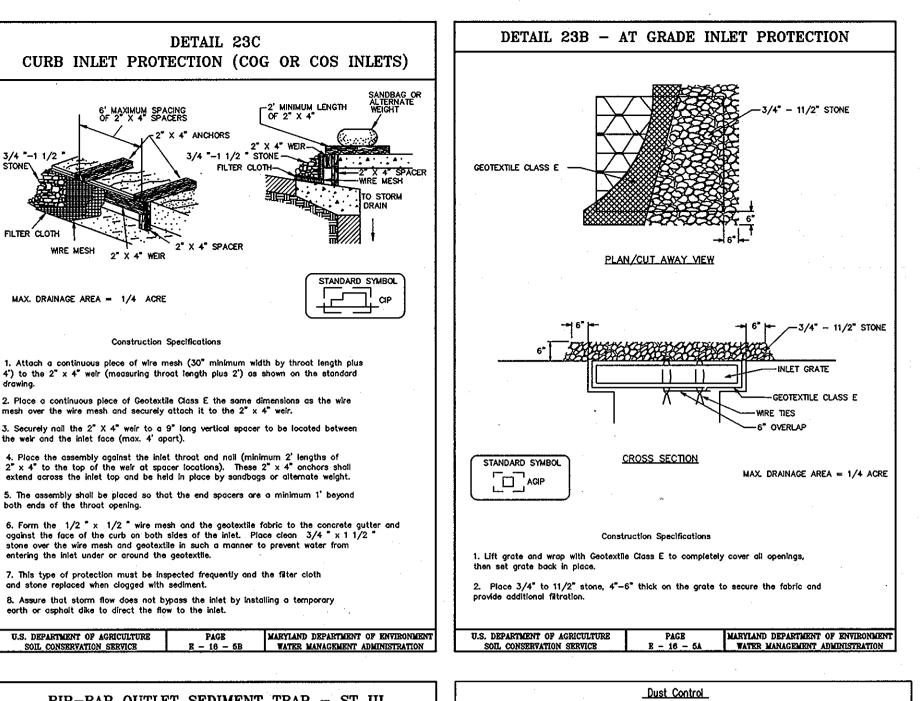
MAX. DRAINAGE AREA = 1/4 ACRE

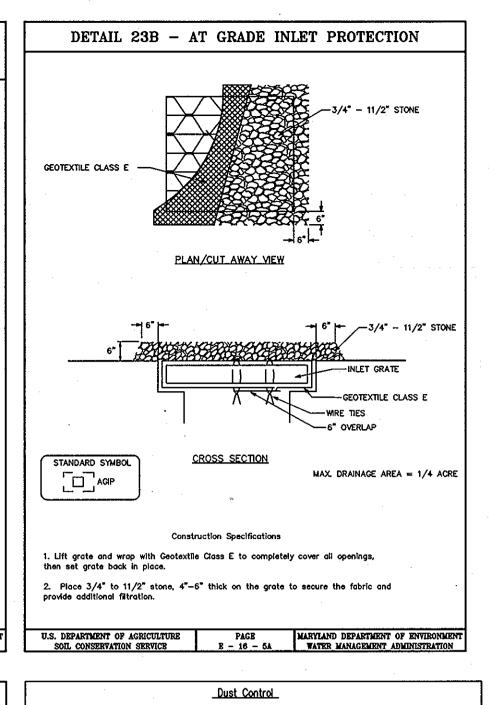
both ends of the throat opening.

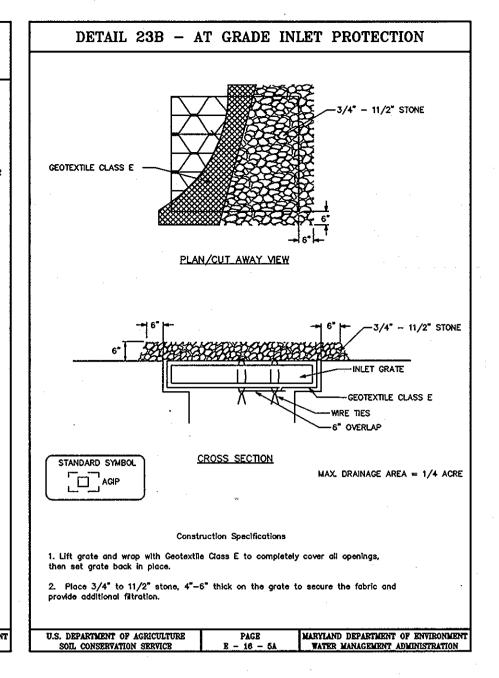
entering the inlet under or around the geotextile.

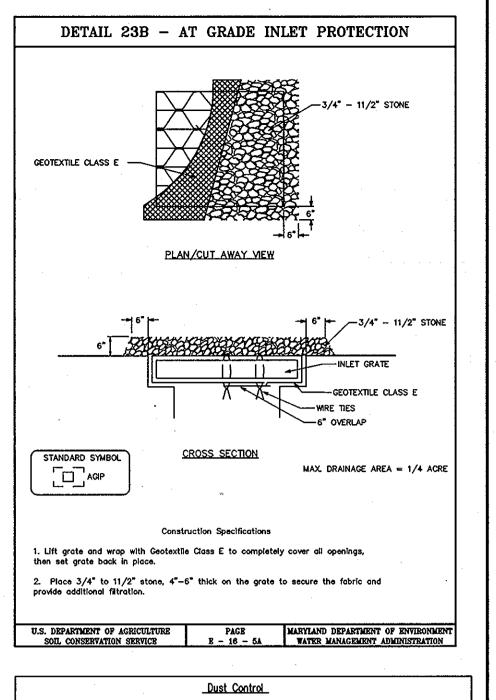
-2' MINIMUM LENGTH OF 2" X 4"

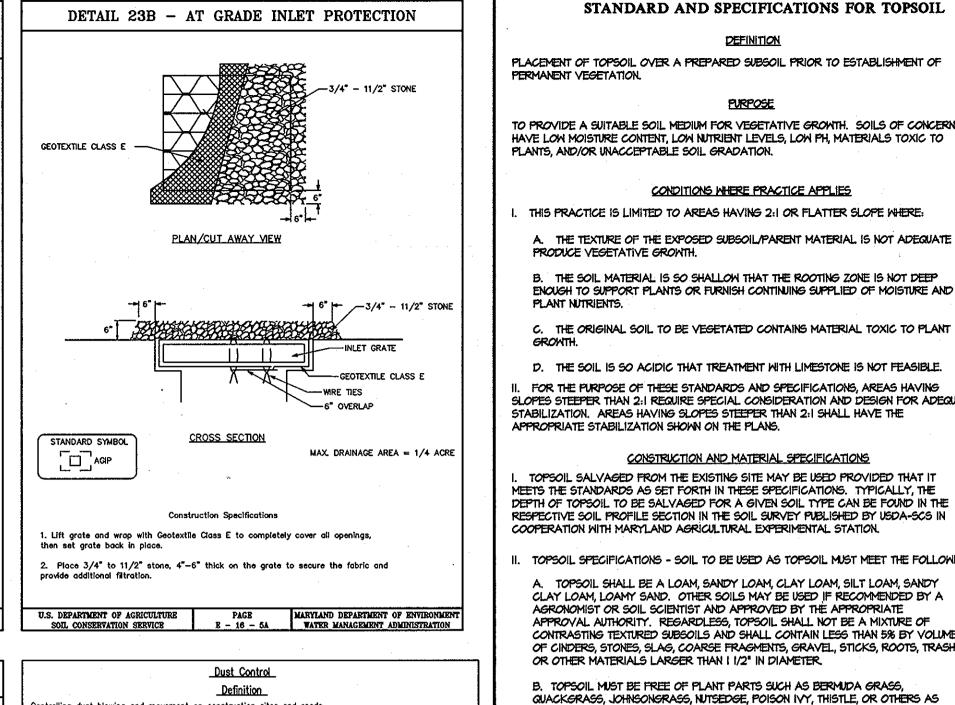
2" X 4" WEIR-

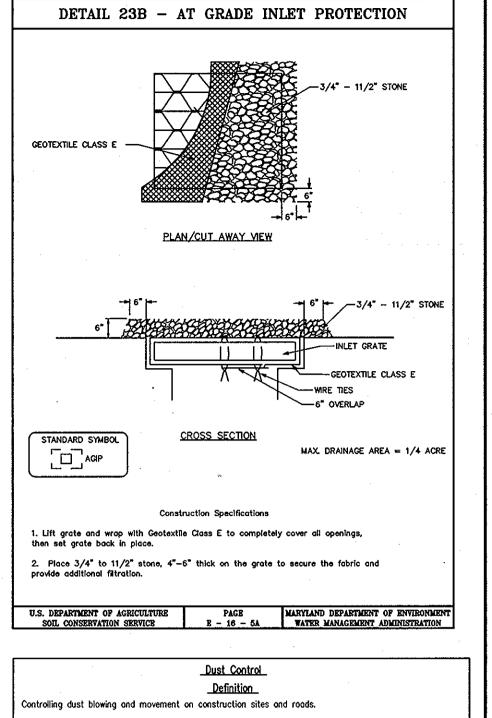


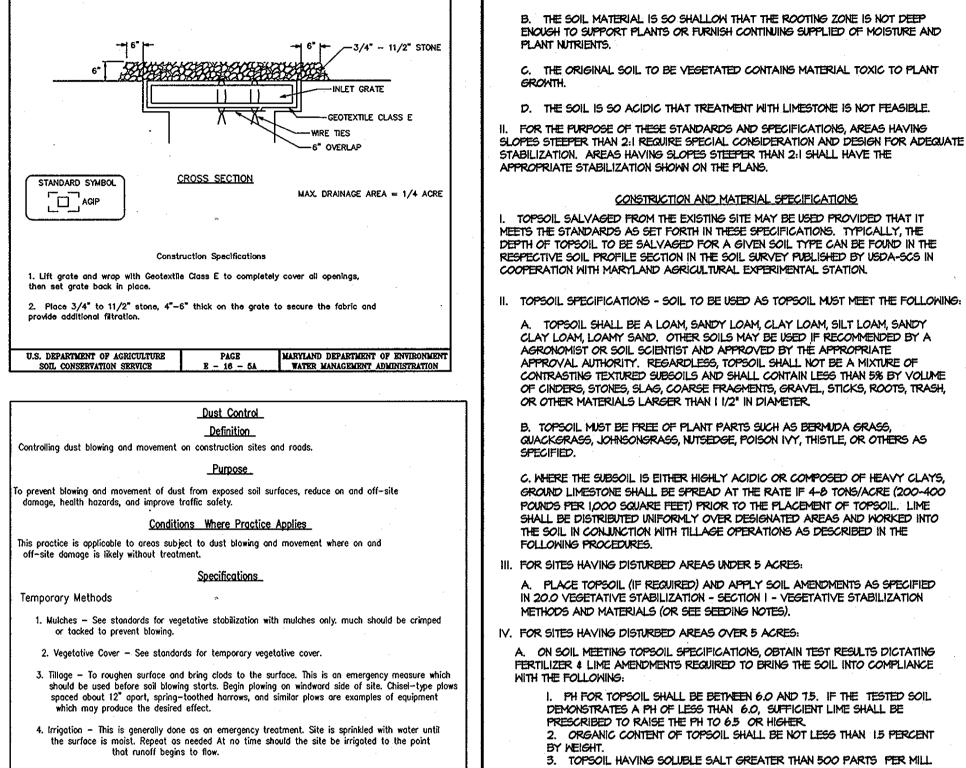












5. Barriers - Solid board fences, silt fences, snow fences, straw bales, and similar material can be used to control air currents and soil blowing. Barriers placed at right angle to prevailing currents at intervals at about ten times their height are effective in controlling soil blowing. 6. Calcium Chloride - Apply at rates that will keep surface moist. May need treatment. Permanent Methods I. Permanent Vegetation — See standards for permanent vegetative cover, and permanen stabilization with sod. Existing trees or large shrubs may afford valuable protection if 2. Topsoiling - Covering with less erosive soil material. See standards for top soil. 3. Stone - Cover surface with crushed stone or grave I. Agriculture Handbook 346. Wind Erosion Forces in the United States and Their Use in Predicting Soil Loss. 2. Agriculture Information Bulletin 354. How to Control Wind Erosion, USDA\_ARS.

DETAIL 20A - REMOVABLE PUMPING STATION \_HOOK AND CHAIN FOR REMOVAL STANDARD SYMBOL Perforated (removable)
12" — 36" pipe wrapped w/ 1/2"
hardware cloth and Geotextile
Class 'C' X RPS VI. ALTERNATIVE FOR PERMANENT SEEDING - INSTEAD OF APPLYING THE FULL AMOUNTS 0 0 0 0 OF LIME AND COMMERCIAL FERTILIZER, COMPOSTED SLUDGE AND AMENDMENTS MAY BE 0 0 0 0 APPLIED AS SPECIFIED BELOW: (0000 0 0 0 0 0000 000 0000 000 0000 0000 CLEAN GRAVELT (AASHTO M-43 #57 3/8" - 1/ 2000 000 0 0 0 0000 **ELEVATION (CUT AWAY)** 

 After installing the outer pipe, backfill around outer pipe with 2" aggregate in Clean gravel. 4. The center pipe should extend 12" to 18" above the anticipated water surface elevation or riser crest elevation when dewatering a basin.

ELECTION DISTRICT No. 6

SOIL CONSERVATION SERVICE D - 12 - 5 WATER MANAGEMENT ADMINISTRATION

THIS PLAN IS FOR SEDIMENT CONTROL PURPOSES ONLY

EXISTING GROUND

We - EFFECTIVE WIDTH - A/D

FORMULA: La > 2

BATTLE BOARD RISER (OUTLET)

BAFFLE DETA

STANDARD AND SPECIFICATIONS FOR TOPSOIL DEFINITION

CONDITIONS WHERE PRACTICE APPLIES

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

B. THE SOIL MATERIAL IS SO SHALLOW THAT THE ROOTING ZONE IS NOT DEEP

ENOUGH TO SUPPORT PLANTS OR FURNISH CONTINUING SUPPLIED OF MOISTURE AND

C. THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT

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

FOR THE PURPOSE OF THESE STANDARDS AND SPECIFICATIONS, AREAS HAVING

CONSTRUCTION AND MATERIAL SPECIFICATIONS

TOPSOIL SHALL BE A LOAM, SANDY LOAM, GLAY LOAM, SILT LOAM, SANDY

OF CINDERS, STONES, SLAG, COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS, TRASH,

QUACKERASS, JOHNSONERASS, NUTSEDGE, POISON IVY, THISTLE, OR OTHERS AS

C. WHERE THE SUBSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS

GROUND LIMESTONE SHALL BE SPREAD AT THE RATE IF 4-8 TONS/ACRE (200-400

POUNDS PER 1,000 SQUARE FEET) PRIOR TO THE PLACEMENT OF TOPSOIL. LIME

THE SOIL IN CONJUNCTION WITH TILLAGE OPERATIONS AS DESCRIBED IN THE

SHALL BE DISTRIBUTED UNIFORMLY OVER DESIGNATED AREAS AND WORKED INTO

A. PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 20.0 VEGETATIVE STABILIZATION - SECTION I - VEGETATIVE STABILIZATION

FERTILIZER & LIME AMENDMENTS REQUIRED TO BRING THE SOIL INTO COMPLIANCE

DEMONSTRATES A PH OF LESS THAN 6.0. SUFFICIENT LIME SHALL BE

PH FOR TOPSOIL SHALL BE BETWEEN 6.0 AND 1.5. IF THE TESTED SOIL

. ORGANIC CONTENT OF TOPSOIL SHALL BE NOT LESS THAN 1.5 PERCENT

3. TOPSOIL HAVING SOLUBLE SALT GREATER THAN 500 PARTS PER MILL

4. NO SOD OR SEED SHALL BE PLACED ON SOIL WHICH HAS BEEN WITH

SUFFICIENT TIME HAS ELAPSED (14 DAYS MIN.) TO PERMIT DISSIPATION OF

NOTE: TOPSOIL SUBSTITUTES OR AMENDMENTS, AS RECOMMENDED BY A QUALIFIED

AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL

B. PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN

2.0 VEGETATIVE STABILIZATION - SECTION I - VEGETATIVE STABILIZATION METHODS

PRACTICES SUCH AS DIVERSION, GRADE STABILIZATION STRUCTURES, EARTH DIKES.

A. WHEN TOPSOILLING, MAINTAIN NEEDED EROSION AND SEDIMENT CONTROL

B. GRADES ON THE AREAS TO BE TOPSOILED, WHICH HAVE BEEN PREVIOUSLY

C. TOPSOIL SHALL BE UNIFORMLY DISTRIBUTED IN A 4'-8' LAYER AND LIGHTLY

SUCH A MANNER THAT SODDING OR SEEDING CAN PROCEED WITH A MINIMUM OF

CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER

A. COMPOSTED SLUDGE MATERIAL FOR USE AS A SOIL CONDITIONER FOR SITES

AMENDMENTS AND FOR SITES HAVING DISTURBED AREAS UNDER 5 ACRES SHALL

I. COMPOSTED SLUDGE SHALL BE SUPPLIED BY, OR ORIGINATE FROM, A

PERSON OR PERSONS THAT ARE PERMITTED (AT THE TIME OF ACQUISITION OF

THE COMPOST) BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT UNDER

COMPOSTED SLUDGE SHALL CONTAIN AT LEAST I PERCENT NITROGEN, 15

PERCENT PHOSPHORUS, AND 0.2 PERCENT POTASSIUM AND HAVE A PH OF 7.0

APPROPRIATE CONSTITUENTS MUST BE ADDED TO MEET THE REQUIREMENTS

3. COMPOSTED SLUDGE SHALL BE APPLIED AT A RATE OF I TON/1,000

HAVING DISTURBED AREAS OVER 5 ACRES SHALL BE TESTED TO PRESCRIBE

TO 8.0. IF COMPOST DOES NOT MEET THESE REQUIREMENTS, THE

B. COMPOSTED SLUDGE SHALL BE AMENDED WITH A POTASSIUM FERTILIZER

APPLIED AT A RATE OF 4LB/1,000 SQUARE FEET, AND 1/3 THE NORMAL LIME

REFERENCES: GUIDELINE SPECIFICATIONS, SOIL PREPARATION AND SODDING. MD-VA

PUB. #1, COOPERATIVE EXTENSION SERVICE, UNIVERSITY OF MARYLAND AND VIRGINIA

DEVELOPER'S/BUILDER'S CERTIFICATE

"I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE

DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE

CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO

ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE

CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A MARYLAND

HOWARD COUNTY, MARYLAND

D. TOPSOIL SHALL NOT BE PLACED WHILE THE TOPSOIL OR SUBSOIL IS FROZEN OR

MUDDY CONDITION, WHEN THE SUBSOIL IS EXCESSIVELY WET OR IN A CONDITION THAT

ADDITIONAL SOIL PREPARATION AND TILLAGE. ANY IRREGULARITIES IN THE

SURFACE RESULTING FROM TOPSOILLING OR OTHER OPERATIONS SHALL BE

MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDBED

COMPACTED TO A MINIMUM THICKNESS OF 4". SPREADING SHALL BE PERFORMED IN

ESTABLISHED, SHALL BE MAINTAINED, ALBEIT 4"-6" HIGHER IN ELEVATION.

SOIL STERILANTS OR CHEMICALS USED FOR WEED CONTROL UNTIL

CLAY LOAM, LOAMY SAND. OTHER SOILS MAY BE USED IF RECOMMENDED BY A

APPROVAL AUTHORITY. REGARDLESS, TOPSOIL SHALL NOT BE A MIXTURE OF CONTRASTING TEXTURED SUBSOILS AND SHALL CONTAIN LESS THAN 5% BY VOLUME

AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE

B. TOPSOIL MUST BE FREE OF PLANT PARTS SUCH AS BERMUDA GRASS,

OR OTHER MATERIALS LARGER THAN I 1/2" IN DIAMETER.

METHODS AND MATERIALS (OR SEE SEEDING NOTES).

PRESCRIBED TO RAISE THE PH TO 65 OR HIGHER

AUTHORITY, MAY BE USED IN LIEU OF NATURAL TOPSOIL.

SLOPE SILT FENCE AND SEDIMENT TRAPS AND BASING

FOLLOWING PROCEDURES.

WITH THE FOLLOWING:

TOPSOIL APPLICATION

SHALL NOT BE USED.

PHOTO-TOXIC MATERIALS.

AND MATERIALS (OR SEE SEEDING NOTES).

CONFORM TO THE FOLLOWING REQUIREMENTS:

COMAR 26.04.06.

PRIOR TO USE.

SQUARE FEET.

POLYTECHNIC INSTITUTES. REVISED 1973.

THIS PRACTICE IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPE WHERE:

PRODUCE VEGETATIVE GROWTH.

I. A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTION AND PERMITS PRIOR TO THE START OF ANY PLACEMENT OF TOPSOIL OVER A PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF CONSTRUCTION. (410) 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 1994 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) T CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES.

DIKES AND PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1, B) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT

SEDIMENT CONTROL NOTES

4. ALL SEDIMENT TRAPS/BASING SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. I, 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 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDINGS, SOD, TEMPORARY SEEDINGS AND MULCHING (SEC. G) TEMPORARY STABILIZATION, WITH MULCH ALONE, CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION 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.

TOTAL AREA OF SITE 14.9640± ACRES AREA DISTURBED 16.10± ACRES AREA TO BE ROOFED OR PAVED 9.73± ACRES AREA TO BE VEGETATIVELY STABILIZED 6.73± ACRES TOTAL CUT 10,100± CU, YDS. TOTAL FILL 10,100± CU. YDS. OFF-SITE WASTE/BORROW AREA LOCATION : NONE

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 DPW SEDIMENT CONTROL INSPECTOR. IO. 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

. TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO 3 PIPE LENGTHS OR THAT WHICH SHALL BE BACKFILLED AND STABILIZED WITHIN I WORKING DAY, WHICHEVER IS SHORTER.

### PERMANENT SEEDING NOTES

AGENCY IS MADE.

APPLY TO GRADED OR CLEARED AREA NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING (UNLESS PREVIOUSLY LOOSENED).

SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE

OF THE FOLLOWING SCHEDULES ) PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQUARE FEET) AND 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ FT) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL AT TIME

OF SEEDING, APPLY 400 LBS PER ACRE 30-0-0 UREA-FORM FERTILIZER (9 LBS/1000 SQ FT). ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ FT) AND 1000 LBS PER ACRE OF 10-10-10 FERTILIZER (23 LBS/1000 SQ FT) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL.

SEEDING: FOR THE PERIODS MARCH I THRU APRIL 30, AND AUGUST I THRU OCTOBER 15, SEED WITH 60 LBS PER ACRE (1.4 LBS/1000 SQ FT) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY I THRU JULY 31. SEED WITH 60 LBS KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS PER ACRE (.05 LBS/1000 SQ FT) OF WEEPING 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

TONS/ACRE WELL ANCHORED STRAW. MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (TO 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 & FEET OR HIGHER. USE 348 GALLONS PER ACRE (8 GAL/1000 SQ FT) FOR ANCHORING.

MAINTENANCE: INSPECT ALL SEEDED 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 (UNLESS PREVIOUSLY LOOSENED).

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

SEEDING: FOR PERIODS MARCH I THRU APRIL 30 AND FROM AUGUST 15 THRU OCTOBER 15, SEED WITH 2-1/2 BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS /IOOO SOFT.) FOR THE PERIOD MAY I THRU AUGUST 14. SEED WITH 3 LBG PER ACRE OF WEEPING LOVEGRASS (101 LBS/1000 SQ FT), FOR THE PERIOD NOVEMBER 16 THRU FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOID.

MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (TO 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 EMILSIFIED ASPHALT ON FLAT AREAS. ON SLOPES, 8 FT OR HIGHER, USE 348 GAL PER ACRE (8 GAL/1000 SQ FT) FOR ANCHORING.

# 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



JODD REDDAN G. L. W. FILE No. 05-105 NO SCALE TAX MAP - GRID

GLWGUTSCHICK LITTLE & WEBER, P.A.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK BURTONSVILLE, MARYLAND 20866 TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186

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APP'R. DATE REVISION BY

each rain event.

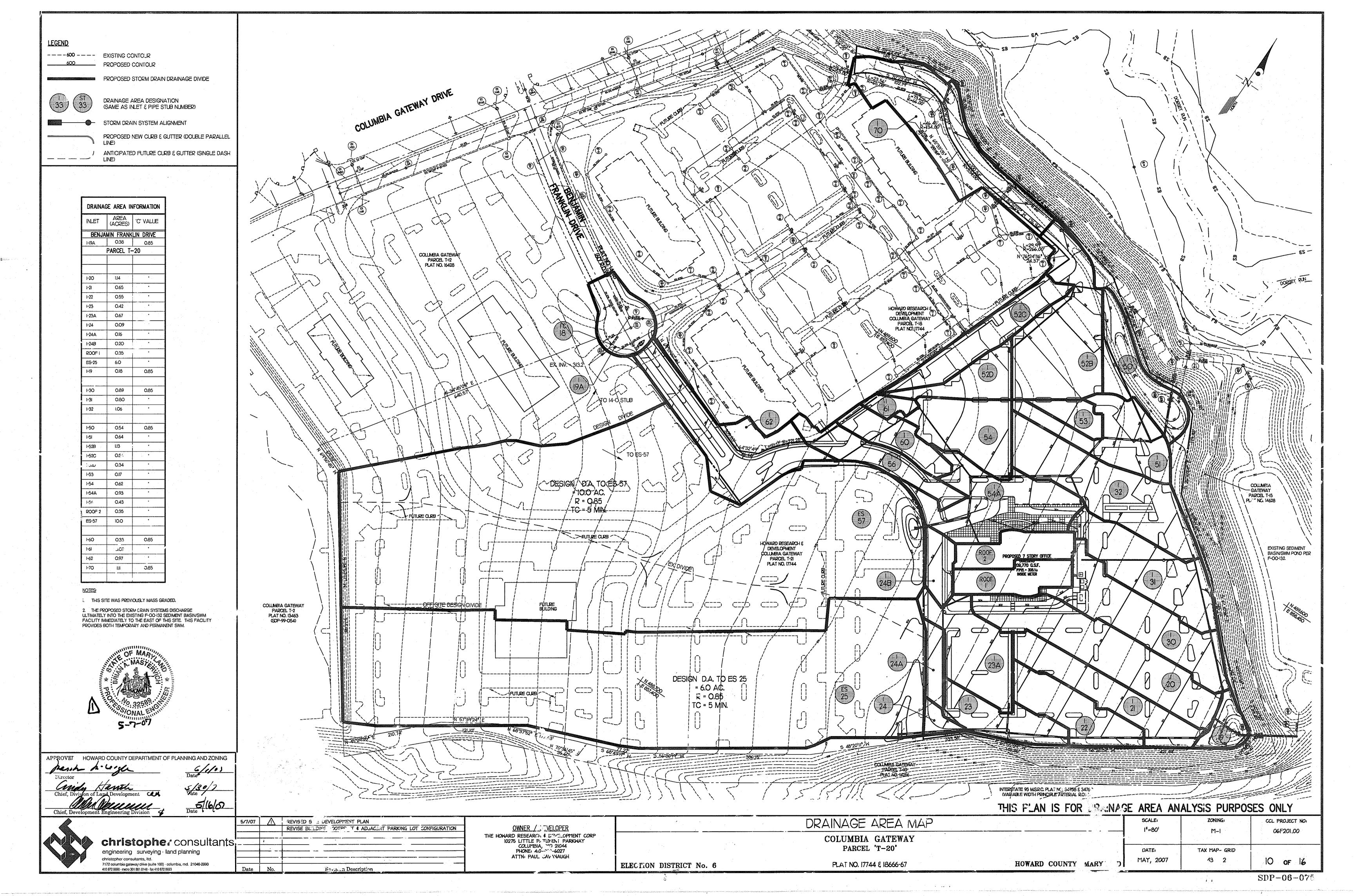
PREPARED FOR: OWNER/DEVELOPER THE HOWARD RESEARCH & DEVELOPMENT CORP. 10275 LITTLE PATUXENT PARKWAY COLUMBIA, MD 21044 Phone: 410-992-6027 Attn.: PAUL CAVANAUGH

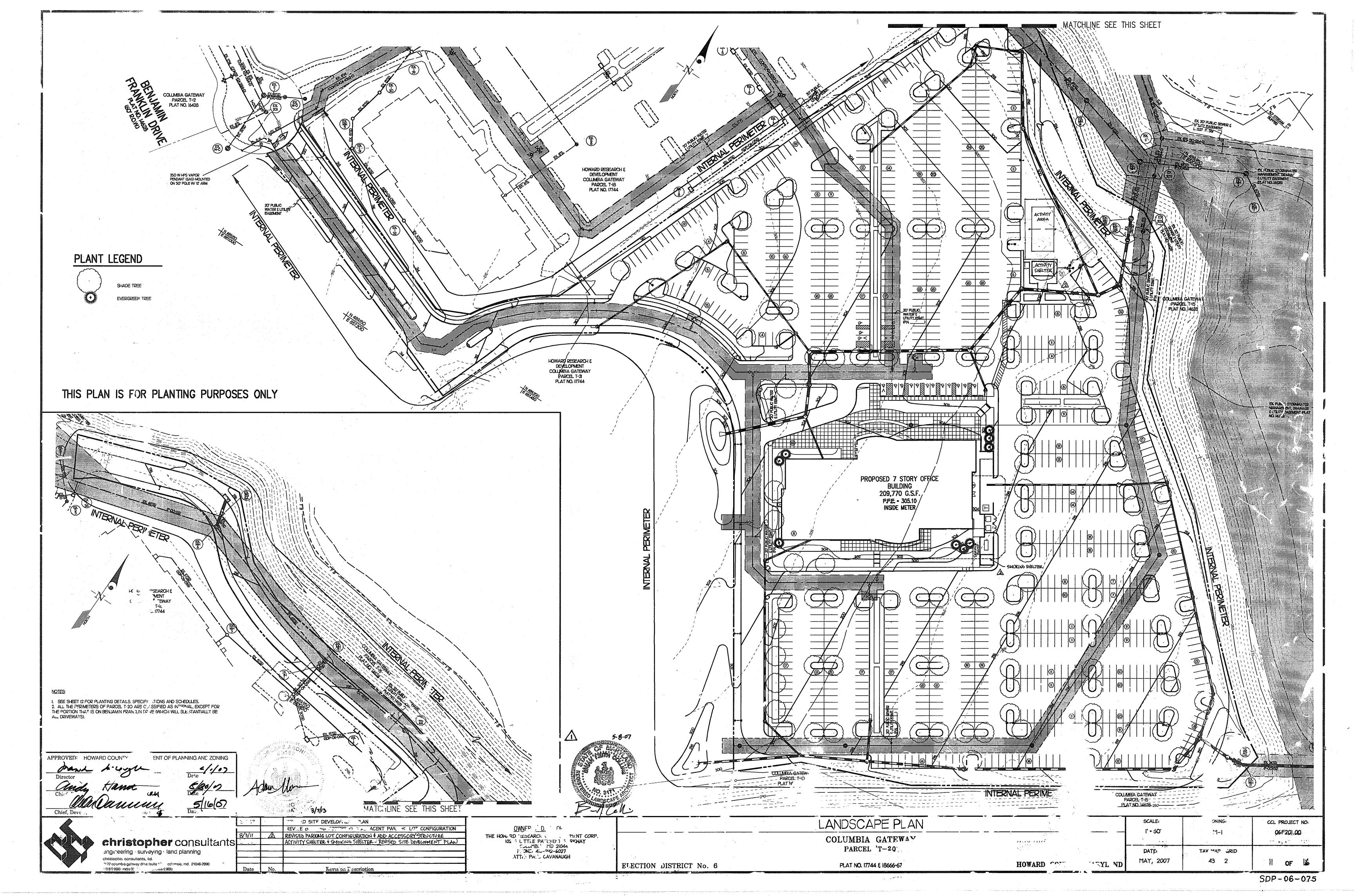
SEDIMENT CONTROL NOTES & DETAILS **COLUMBIA GATEWAY** PARCEL 'T-20'

PLAT No. 17744 & 18666 - 67

# SHEET 9 OF 1**6**

SDP-06-075





## SPECIFICATIONS: PLANT MATERIALS AND PLANTING METHODS

### A. PLANT MATERIALS

THE LANDSCAPE CONTRACTOR SHALL FURNISH AND INSTALL AND/OR DIG, BALL, BURLAP AND TRANSPLANT ALL OF THE PLANT MATERIALS CALLED FOR ON DRAWINGS AND/OR LISTED IN THE PLANT SCHEDULE.

# PLANT NAMES USED IN THE PLANT SCHEDULE SHALL CONFORM WITH

"STANDARDIZED PLANT NAMES," LATEST EDITION.

### 2. PLANT STANDARDS

ALL PLANT MATERIAL SHALL BE EQUAL TO OR BETTER THAN THE REQUIREMENTS OF THE "USA STANDARD FOR NURSERY STOCK" LATEST EDITION, AS PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN (HERE- AFTER REFERRED TO AS AAN STANDARDS). ALL PLANTS SHALL BE TYPICAL OF THEIR SPECIES AND VARIETY. SHALL HAVE A NORMAL HABIT OF GROWTH AND SHALL BE FIRST QUALITY, SOUND, VIGOROUS, WELL-BRANCHED AND WITH HEALTHY, WELL-FURNISHED ROOT SYSTEMS. THEY SHALL BE PREE OF DISEASE, INSECT PESTS AND MECHANICAL INJURIES.

ALL PLANTS SHALL BE NURSERY GROWN AND SHALL HAVE BEEN GROWN UNDER THE SAME CLIMATE CONDITIONS AS THE LOCATION OF THIS PROJECT FOR AT LEAST TWO YEARS BEFORE PLANTING. NEITHER HEELED-IN PLANTS NOR PLANTS FROM COLD STORAGE WILL BE ACCEPTED.

### 3. PLANT MEASUREMENTS ALL PLANTS SHALL CONFORM TO THE MEASUREMENTS SPECIFIED IN THE PLANT SCHEDULE AS APPROVED BY THE DESIGN REVIEW COMMITTEE (DRC).

A. CALIPER MEASUREMENTS SHALL BE TAKEN SIX INCHES (6") ABOVE GRADE FOR TREES UNDER FOUR-INCH (4") CALIPER AND TWELVE (12") ABOVE GRADE FOR TREES FOUR INCHES (4") IN CALIPER AND OVER.

B. MINIMUM BRANCHING HEIGHT FOR ALL SHADE TREES SHALL BE SIX FEET (6'), MAXIMUM EIGHT FEET (8').

CALIPER, HEIGHT, SPREAD AND SIZE OF BALL SHALL BE GENERALLY AS

CALIPER	HEIGHT	SPREAD	SIZE OF BA
3" - 35"	14'-16'	6'-8'	32" DIAMET
35"- 4"	14'-16'	8'-10'	36" DIAMETI
4" - 45"	16'-18'	8'-10'	40" DIAMET
<i>2</i> 45"− 5"	16'-17'	10'-12'	44" DIAMET
5" - 55"	16'-20'	10'-12'	48" DIAMET
55"- 6"	18'-20'	12'-14'	52" DIAMET

ALL PLANT MATERIAL SHALL GENERALLY AVERAGE THE MEDIAN FOR THE SIZE RANGES INDICATED ABOVE AS INDICATED IN THE "AAN

### PLANT IDENTIFICATION

LEGIBLE LABELS SHALL BE ATTACHED TO ALL SHADE TREES, MINOR TREES, SPECIMEN SHRUBS AND BUNDLES OR BOXES OF OTHER PLANT MATERIAL GIVING THE BOTANICAL AND COMMON NAMES, SIZE AND QUANTITY OF EACH. EACH SHIPMENT OF PLANTS SHALL BEAR CERTIFICATES OF INSPECTION AS REQUIRED BY FEDERAL, STATE AND COUNTY AUTHORITIES.

### 5. PLANT INSPECTION

THE DESIGN REVIEW COMMITTEE MAY, UPON REQUEST BY THE BUILDER OR DEVELOPER, AT LEAST TEN (IO) DAYS PRIOR TO THE INSTALLATION OF ANY PROPOSED PLANT MATERIAL, INSPECT ALL PROPOSED PLANT MATERIAL AT THE SOURCE OF ORIGIN.

### B. PLANTING METHODS

ALL PROPOSED PLANT MATERIALS THAT MEET THE SPECIFICATIONS IN SECTION A ARE TO BE PLANTED IN ACCORDANCE WITH THE FOLLOWING METHODS DURING THE PROPER PLANTING SEASONS AS DESCRIBED IN THE FOLLOWING:

SEASONS THE PLANTING OF DECIDUOUS TREES, SHRUBS AND VINES SHALL BE FROM MARCH IST TO JUNE 15TH AND FROM SEPTEMBER 15TH TO DECEMBER 15TH. PLANTING OF DECIDUOUS MATERIAL MAY BE CONTINUED DURING THE WINTER MONTHS PROVIDING THERE IS NO FROST IN THE GROUND AND FROST-FREE TOPSOIL PLANTING MIXTURES ARE USED.

THE PLANTING OF EVERGREEN MATERIAL SHALL BE FROM MARCH 15TH TO JUNE 15TH AND FROM AUGUST 15TH TO DECEMBER 1ST. NO PLANTING SHALL BE DONE WHEN THE GROUND IS FROZEN OR EXCESSIVELY MOIST. NO FROZEN OR WET TOPSOIL SHALL BE USED AT ANY TIME.

ALL PLANT MATERIAL SHALL BE DUG, BALLED AND BURLAPPED (B&B) IN ACCORDANCE WITH THE "AAN STANDARDS".

### 3. EXCAVATION OF PLANT PITS

THE LANDSCAPING CONTRACTOR SHALL EXCAVATE ALL PLANT PITS, VINE PITS, HEDGE TRENCHES AND SHRUB BEDS IN ACCORDANCE WITH THE FOLLOWING SCHEDULE:

A. LOCATIONS OF ALL PROPOSED PLANT MATERIAL SHALL BE STAKED AND

APPROVED IN THE FIELD BY THE LANDSCAPE ARCHITECT BEFORE ANY OF THE PROPOSED PLANT MATERIAL IS INSTALLED BY THE LANDSCAPE CONTRACTOR.

B. ALL PITS SHALL BE GENERALLY CIRCULAR IN OUTLINE, VERTICAL SIDES; DEPTH SHALL NOT BE LESS THAN 6" DEEPER THAN THE ROOT BALL, DIAMETER SHALL NOT BE LESS THAN TWO TIMES THE DIAMETER OF THE ROOT BALL AS SET FORTH IN THE FOLLOWING SCHEDULE.

C. IF AREAS ARE DESIGNATED AS SHRUB BEDS OR HEDGE TRENCHES, THEY SHALL BE EXCAVATED TO AT LEAST 18" DEPTH MINIMUM. AREAS DESIGNATED FOR GROUND COYERS AND VINES SHALL BE EXCAVATED TO AT LEAST 12" IN

## 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, AND THE APPROVED MAPLE LAWN FARMS LANDSCAPE DESIGN DEVELOPMENT CRITERIA. I/WE FURTHER CERTIFY THAT UPON COMPLETION, A LETTER OF LANDSCAPE INSTALLATION, ACCOMPANIED BY AN EXECUTED ONE-YEAR GUARANTEE OF PLANT MATERIALS, WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK BURTONSVILLE, MARYLAND 20866 TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186

\DRAWINGS\05105\SDP\05105-LS-NOTES.dwg | DES. mbt | DRN. KLP | CHK. mbt |

GLWGUTSCHICK LITTLE &WEBER, P.A.

D. DIAMETER AND DEPTH OF TREE PITS SHALL GENERALLY BE AS FOLLOWS:

PLANT SIZE	ROOT BALL	PIT DIA.	PIT DEPT
3" - 3.5"CAL.	32"	64"	28"
35"- 4" CAL.	36"	72"	32"
4" - 45"CAL.	40"	80*	36*
45"- 5" CAL.	44"	88"	40"
5" - 55"CAL.	48"	96°	44"
5.5"- 6" CAL.	52°	104"	48"

A 20 % COMPACTION FIGURE OF THE SOIL TO BE REMOVED IS ASSUMED AND WILL BE ALLOWED IN CALCULATION OF EXTRA TOPSOIL. THE TABULATED PIT SIZES ARE FOR PURPOSES OF UNIFORM CALCULATION AND SHALL NOT OVERRIDE THE SPECIFIED DEPTHS BELOW THE BOTTOMS OF THE ROOT BALLS.

### 4. STAKING, GUYING AND WRAPPING

ALL PLANT MATERIAL SHALL BE STAKED OR GUYED, AND WRAPPED IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS:

A. STAKES: SHALL BE SOUND WOOD 2" X 2" ROUGH SAWN OAK OR SIMILAR DURABLE WOODS, OR LENGTHS, MINIMUM 7'-O" FOR MAJOR TREES AND 5'-O" MINIMUM

B. WIRE AND CABLE: WIRE SHALL BE #10 GA. GALVANIZED OR BETHANIZED ANNEALED STEEL WIRE. FOR TREES OVER 3" CALIPER, PROVIDE 5/16" TURN BUCKLES, EYE AND EYE WITH 4" TAKE-UP. FOR TREES OVER 5" CALIPER, PROVIDE 3/16", 7 STRAND CABLE CADMIUM PLATED STEEL, WITH GALVANIZED "EYE" THIMBLES OF WIRE AND HOSE ON TREES UP TO 3" IN CALIPER.

C. HOSE: SHALL BE NEW, 2 PLY REINFORCED RUBBER HOSE, MINIMUM 1/2" I.D. "PLASTIC LOCK TIES" OR "PAUL'S TREES BRACES" MAY BE USED IN PLACE OF WIRE

D. ALL TREES UNDER 3" IN CALIPER ARE TO BE PLANTED AND STAKED IN ACCORDANCE WITH THE ATTACHED PLANTING DETAILS.

### 5. PLANT PRUNING, EDGING AND MULCHING

AND HOSE ON TREES UP TO 3" IN CALIPER.

A, EACH TREE, SHRUB OR VINE SHALL BE PRINED IN AN APPROPRIATE MANNER TO ITS PARTICULAR REQUIREMENTS, IN ACCORDANCE WITH ACCEPTED STANDARD PRACTICE. BROKEN OR BRUISED BRANCHES SHALL BE REMOVED WITH CLEAN CUTS FLUSH WITH THE ADJACENT TRUNK OR BRANCHES. ALL CUTS OVER !" IN DIAMETER SHALL BE PAINTED WITH AN APPROVED ANTISEPTIC TREE WOUND DRESSING.

ALL TRENCHES AND SHRUB BEDS SHALL BE EDGED AND CULTIVATED TO THE LINES SHOWN ON THE DRAWING. THE AREAS AROUND ISOLATED PLANTS SHALL BE EDGED AND CULTIVATED TO THE FULL DIAMETER OF THE PIT. SOD WHICH HAS BEEN REMOVED AND STACKED SHALL BE USED TO TRIM THE EDGES OF ALL EXCAVATED AREAS TO THE NEAT LINES OF THE PLANT PIT SAUCERS, THE EDGES OF SHRUB AREAS, HEDGE TRENCHES AND VINE POCKETS.

AFTER CULTIVATION, ALL PLANT MATERIALS SHALL BE MULCHED WITH A 3" LAYER OF FINE, SHREDDED PINE BARK, PEAT MOSS, OR ANOTHER APPROVED MATERIAL OVER THE ENTIRE AREA OF THE BED OR SAUCER.

### 6. PLANT INSPECTION AND ACCEPTANCE

THE DESIGN REVIEW COMMITTEE SHALL BE RESPONSIBLE FOR INSPECTING ALL PLANTING PROJECTS ON A PERIODIC BASIS TO ASSURE THAT ALL WORK IS PROCEEDING IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS.

### PLANT GUARANTEE

ALL PLANT MATERIAL SHALL BE GUARANTEED FOR THE DURATION OF ONE FULL GROWING SEASON, AFTER FINAL INSPECTION AND ACCEPTANCE OF THE WORK IN THE PLANTING PROJECT. PLANTS SHALL BE ALIVE AND IN SATISFACTORY GROWING CONDITION AT THE END OF THE GUARANTEE PERIOD.

A. FOR THIS PURPOSE, THE "GROWING SEASON" SHALL BE THAT PERIOD BETWEEN THE END OF THE "SPRING" PLANTING SEASON, AND THE COMMENCEMENT OF THE "FALL" PLANTING SEASON.

B. GUARANTEE FOR PLANTING PERFORMED AFTER THE SPECIFIED END OF THE "SPRING" PLANTING SEASON, SHALL BE EXTENDED THROUGH THE END OF THE NEXT FOLLOWING "SPRING" PLANTING SEASON.

ALL SODDING SHALL BE IN ACCORDANCE TO THE "LANDSCAPE SPECIFICATION." GUIDELINES FOR BALTIMORE-WASHINGTON METROPOLITAN AREAS" LATEST EDITION, APPROVED BY THE LANDSCAPE CONTRACTORS ASSOCIATION OF METROPOLITAN WASHINGTON AND THE AMERICAN SOCIETY OF LANDSCAPE ARCHITECTS.

ALL SOD SHALL BE STRONGLY ROOTED SOD, NOT LESS THAN TWO YEARS OLD AND FREE OF WEEDS AND UNDESIRABLE NATIVE GRASSES. PROVIDE ONLY SOD CAPABLE OF GROWTH DEVELOPMENT WHEN PLANTED AND IN STRIPS NOT MORE THAN 18" WIDE X 4" LONG. PROVIDE SOD COMPOSED PRINCIPALLY OF IMPROVED STRAIN KENTUCKY BLUEGRASS, SUCH AS, COLUMBIA, VICTA, OR ESCORT.

### LANDSCAPE NOTES

THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY CODE & THE HOWARD COUNTY LANDSCAPE MANUAL...

CONTRACTOR SHALL NOTIFY ALL UTILITIES AT LEAST (5) FIVE DAYS BEFORE STARTING WORK. ALL GENERAL NOTES, ESPECIALLY THOSE REGARDING UTILITIES, ON SHEET NO.1 SHALL.

3. FIELD VERIFY UNDERGROUND UTILITY LOCATIONS AND EXISTING CONDITIONS BEFORE STARTING PLANTING WORK. CONTACT CONSTRUCTION MANAGER OR OWNER IF ANY RELOCATIONS ARE REQUIRED.

4. PLANT QUANTITIES SHOWN ON THE PLAN LIST ARE PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. IF DISCREPANCIES EXIST BETWEEN QUANTITIES SHOWN ON THE PLAN AND THOSE SHOWN ON THE PLANT LIST, THE QUANTITIES ON THE PLAN SHALL TAKE PRECEDENCE.

5. ALL PLANT MATERIAL SHALL BE FULL, HEAVY, WELL FORMED, SYMMETRICAL, AND CONFORM TO THE A.A.N. SPECIFICATIONS. IN ADDITION, ALL REQUIRED PLANTING FOR THE LANDSCAPE ISLANDS IN THE PARKING LOT SHALL CONFORM TO THE HOWARD COUNTY LANDSCAPE MANUAL. ALL PLANT MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND THIS PLAN.

6. NO SUBSTITUTION SHALL BE MADE WITHOUT PRIOR APPROVAL FROM HOWARD COUNTY DPZ AND THE OWNER OR HIS REPRESENTATIVE.

 ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES BUT NOT OTHERWISE PLANTED, PAVED, OR MULCHED SHALL BE SODDED OR SEEDED IN ACCORDANCE WITH THE PERMANENT SEEDING SPECIFICATION. A MINIMUM OF 4" OF TOPSOIL SHALL BE PROVIDED TO ALL PLANTING

8. THE CONTRACTOR SHALL NOTIFY THE OWNER IN WRITING IF HE/SHE ENCOUNTERS SOIL DRAINAGE CONDITIONS THAT MAY BE DETRIMENTAL TO THE GROWTH OF THE PLANTS.

4. ALL EXPOSED EARTH WITHIN THE LIMITS OF PLANTING BEDS SHALL BE MULCHED WITH

10. DO NOT PLANT WITHIN THE PUBLIC WATER, SEVER AND UTILITY EASEMENT.

SHREDDED HARDWOOD MULCH PER THE PLANTING DETAILS.

II. COORDINATE THE PLANTING UNDER F-00-132 THE WORK ON THIS SITE DEVELOPMENT PLAN.

12. SCHEDULES 'A' AND 'B' ARE PROVIDED FOR LANDSCAPE SURETY CALCULATION PURPOSES. FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING SHALL BE POSTED AS PART OF THE DPW DEVELOPER'S AGREEMENT IN THE AMOUNT OF \$15,000.00 FOR THE FOLLOWING PLANTS:

### 50 SHADE TREES AT \$300/TREE = \$15,000.00

FOR LANDSCAPE INSPECTION TO OBTAIN THE RELEASE OF THE SURETY, CONTACT HOWARD COUNTY DEPT. OF PLANNING & ZONING AT 410-313-2350.

		PLANT SCHEDULE		
TYPE & SYMBOL	QUANT.	SELECT FROM THE FOLLOWING NAME (BOTANICAL/COMMON)	MINUMUN SIZE	REMARK
CANOPY SHADE TREE	IIA	ACER RUBRUM 'OCTOBER GLORY / OCTOBER GLORY RED MAPLE	25"-3.0" CAL.	B¢B, FULL
$\left\{ \left\{ \cdot\right\} \right\}$		LIQUIDAMBAR STRACIFLUA / SWEETGUM	2.5"-3.0" CAL.	B&B, FULL
		PLATANUS OCCIDENTILIS/ SYCAMORE	2.5"-3.0" CAL.	B&B, FULL
		QUERCUS COCCINEA / SCARLET OAK	25"-3.0" CAL.	B¢B, FULL
		QUERCUS PHELLOS / WILLOW OAK	25"-3.0" CAL.	B&B, FULL
		QUERCUS PALUSTRIS / PIN OAK	2.5"-3.0" CAL.	B&B, FULL
EVERGREEN TREE	q	PINUS STROBUS / EASTERN WHITE PINE	8'-10' HT.	B&B, INTACT CENTRAL LEADER
+		CUPRESSOCYPARIS LEYLANDII / LEYLAND CYPRESS	6'-8' HT.	B&B, INTACT CENTRAL LEADER
		PICEA ORMORIKA / SERBIAN SPRUCE	8'-10" HT.	B&B, INTACT CENTRAL LEADER

PERIMETER LOCATION	AT CUL-DE-SAC	INTERNAL (ALL OTHERS)
USE SITUATION	FRONT OF NON-RESIDENTIAL TO R.O.W.	INTERNAL
LANDSCAPE TYPE	B	N/A
LINEAR FEET OF ROADWAY FRONTAGE/PERIMETER	63 LF (DRIVEWAY OPENING & WATER & UITLITY EASEMENT)	WA
CREDIT FOR EXISTING VEGETATION	NONE	N/A
CREDIT FOR WALL, FENCE OR BERM	NONE	NA
NUMBER OF PLANTS REQUIRED SHADE TREES EVERGREEN TREES SHRUBS	0 0 0	N/A
NUMBER OF PLANTS PROVIDED SHADE TREES EVERGREEN TREES OTHER TREES (@ 2:1 substitution) SHRUBS (10:1 substitution)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NA

UMBER OF PARKING SPACES	1006 SPACES
UMBER OF TREES REQUIRED	50 (I SHADE TREE PER 20 COMMERCIAL PARKING SPACES,

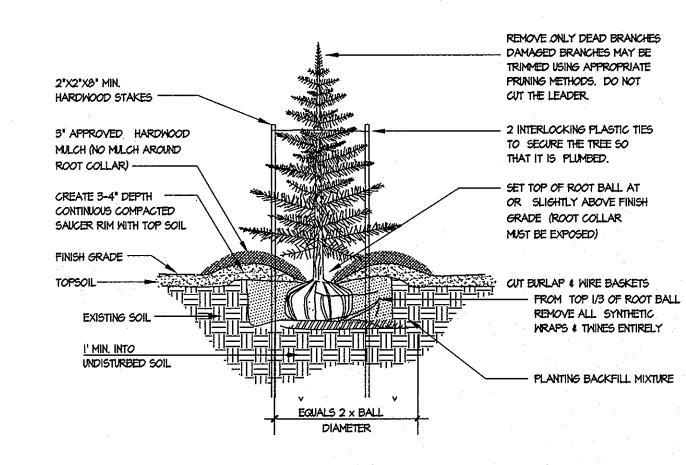
LANDSCAPE SURETY FOR THE REQUIRED QUANTITY OF TREES PER SCHEDULES A & B IS \$15,000.00 FOR THE FOLLOWING: 50 SHADE TRESS AT \$300/TREE = \$ 15,000.00;

PREPARED FOR:  LANDSCAPING DETAILS AND NOTES  SCALE ZONING	G. L. W. FILE No.
OWNER/DEVELOPER THE HOWARD RESEARCH & DEVELOPMENT CORP. 10275 LITTLE PATUXENT PARKWAY  AS SHOWN M-1	05-105
COLUMBIA, MD 21044 Phone: 410-992-6027 Attn:: PAUL CAVANAUGH  PARCEL 'T-20'  DATE TAX MAP - (	GRID SHEET
ELECTION DISTRICT No. 6  PLAT No. 17744 & 1866-67  HOWARD COUNTY, MARYLAND October, 2006 43	2 12 OF 1 <b>6</b>

- DO NOT CUT CENTRAL LEADER. REMOVE ANY DEAD OR DAMAGED BRANCHES BY APPROPRIATE PRUNING METHODS. 2"X2"X8" MIN. 3/8" DIA. REINFORCED BLACK RUBBER HARDWOOD STAKES HOSE, INTERLOCKED. POSITION ABOVE FIRST SET OF BRANCHES TO SECURE 3" APPROVED HARDWOOD THE TREE SO THAT IT IS PLUMBED. MULCH (NO MULCH AROUND 2 STRANDS 14-GA GALY. WIRE TWISTED ROOT COLLAR) -(PLASTIC TIES MAY BE USED INSTEAD OF WIRE & RUBBER HOSE) CREATE 3-4" DEPTH CONTINUOUS COMPACTED SAUCER RIM WITH TOP SOIL SET TOP OF ROOT BALL AT OR SLIGHTLY ABOVE FINISH GRADE (NO MORE THAN 3°). FINISH GRADE --CUT BURLAP & WIRE BASKETS FROM TOP 1/3 OF ROOT BALL REMOVE ALL TOPSOIL ----SYNTHETIC WRAPS & TWINES ENTIRELY PLANTING BACKFILL MIXTURE EXISTING SOIL -I' MIN. INTO COMPACT SOIL MIX BELOW BALL UNDISTURBED SOIL PITCH AWAY FROM BALL TO PERIMETER OF PLANTING PIT. EQUALS 2 x BAL

NOTE: ALL SUPPORTING DEVICES (STAKES, WIRES, ETC.) SHALL BE REMOVED AFTER 2 GROWING SEASONS.

DECIDUOUS TREE PLANTING DETAIL FOR PLANTING MATERIAL UP TO 3 1/2" CALIPER

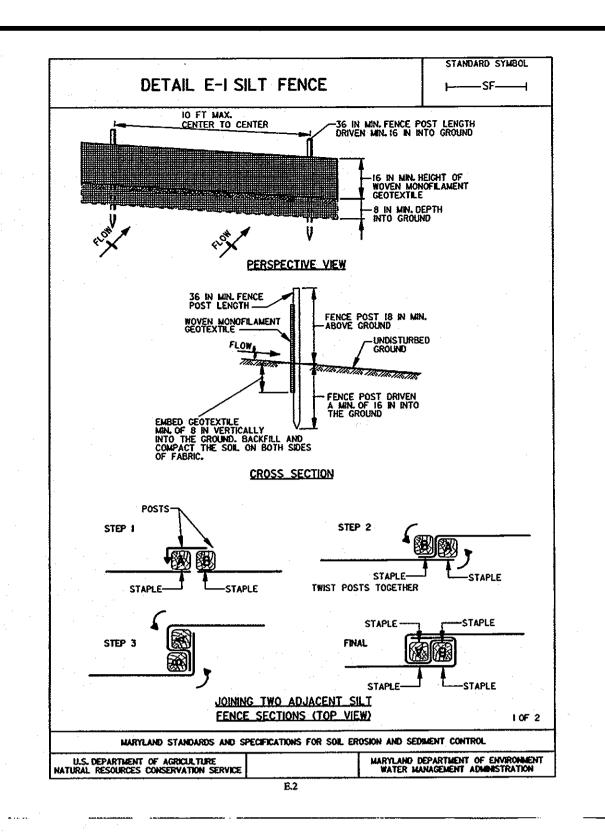


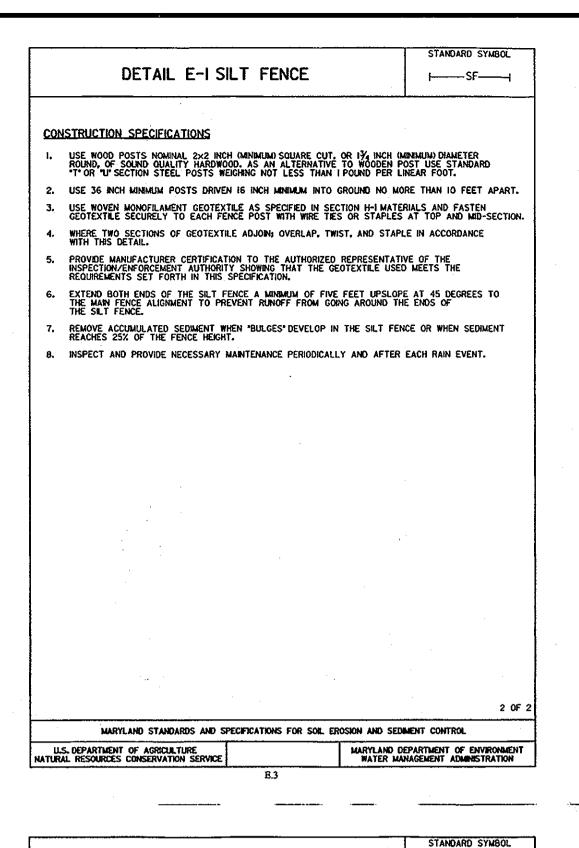
NOTE: ALL SUPPORTING DEVICES (STAKES, TIES, ETC.) SHALL BE REMOVED AFTER 2 GROWING SEASONS.

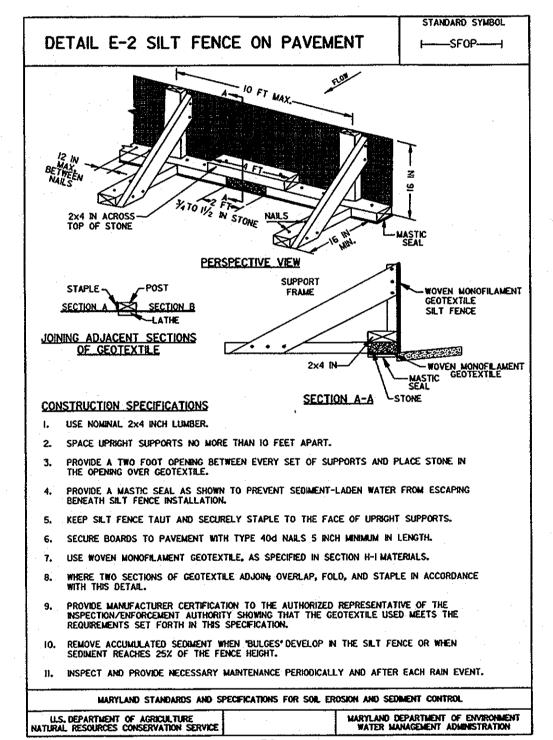
EVERGREEN TREE PLANTING DETAIL

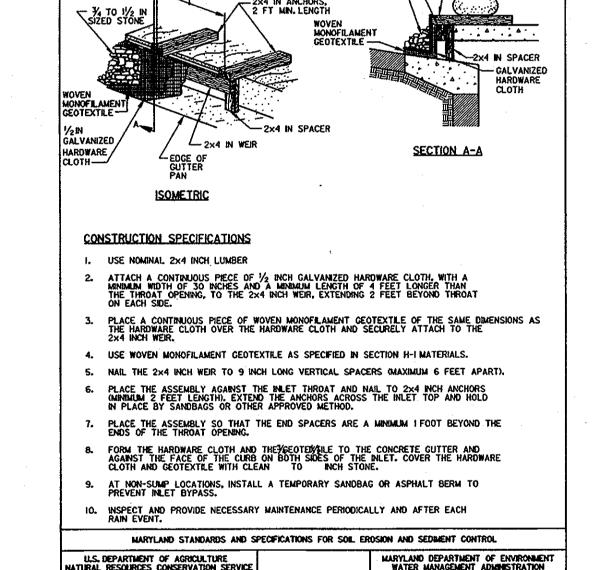
APP'R. REVISION

SDP-06-075









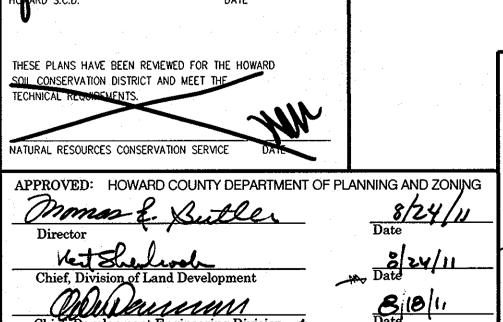
升 TO 1/2 IN STON

DETAIL E-8-3 CURB INLET PROTECTION

[4] CIP

-2 FT MIN. LENGTH

MAXIMUM DRAINAGE AREA = 1/4 ACRE



Civil Engineering • Land Surveying • Landscape Architecture • Land Planning

**\**Engineering Design

Office: 443.276.6220

Fax: 443.276.6221

Chief, Development Engineering Division

6990 Columbia Gataway Dr. Sta 150

Columbia, Maryland 21048

www.exiom-ed.com

XIOW

THIS DEVELOPMENT PLAN IS APPROVED FOR

SOIL EROSION AND SEDIMENT CONTROL BY THE

epartment 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." My Mauley 1/20/11
Strature of Developer Date Michael J. Wanley

SEDIMENT CONTROL

"I/We certify that all development and construction will be done according to this plan, and that any

responsible personnel involved in the construction

project will have a Certificate of Attendance at a

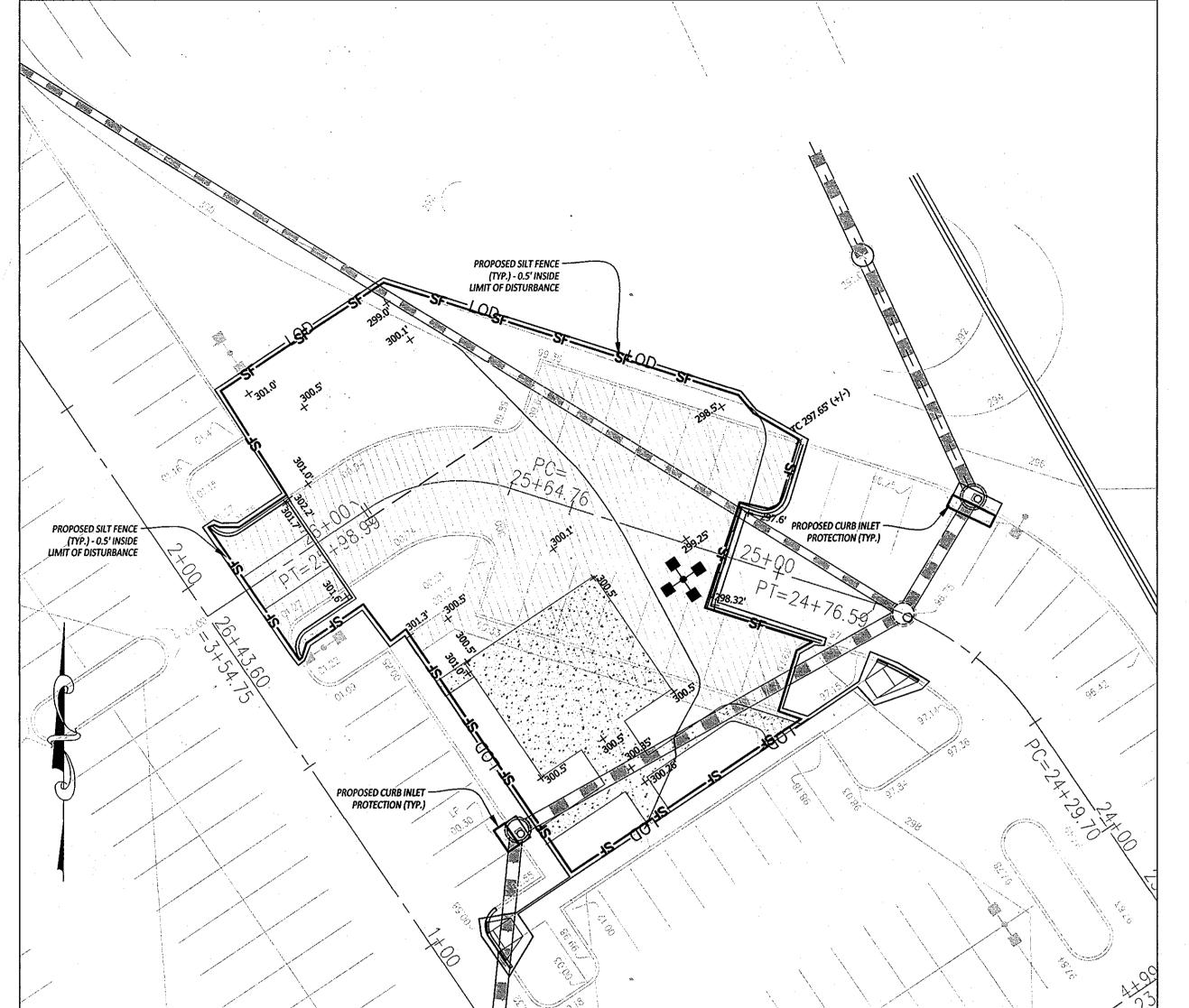
**DESIGNERS CERTIFICATE** "I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."

REVISE PARKING LOT CONFIGURATION & ADD ACCESSORY STRUCTURES ACTIVITY SHELTER \$ SMOKING SHELTER **Revision Description** 

OWNER / DEVELOPER Franklin Center, LLC 6841 Benjamin Franklin Drive Columbia, Maryland 21046 PHONE: 443—367—7806 ATTN: Scott Roark

U.S. DEPARTMENT OF AGRICULTURE

NATURAL RESOURCES CONSERVATION SERVICE



# DETAIL B-I STABILIZED CONSTRUCTION **ENTRANCE** - EXISTING PAVEMENT BERM (6 IN MIN.)--PIPE (SEE NOTE 6) PLAN VIEW CONSTRUCTION SPECIFICATIONS LOCATE SCE AT EVERY POINT WHERE CONSTRUCTION TRAFFIC ENTERS OR LEAVES CONSTRUCTION SITE. VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SCE. THE ORIENTATION OF THE SCE MAY VARY FROM A STRAIGHT LINE AND BE CURVED OR "T"-SHAPED DEPENDING ON THE TOPOGRAPHY AND RIGHT OF WAY. AVOID LOCATING ENTRANCES ALONG THE LOW POINT OF WORK AREA WHERE POSSIBLE. MINIMUM LENGTH OF 50 FEET (+30 FEET FOR SINGLE RESIDENCE LOT). 3. MINIMUM WIDTH OF 10 FEET. FLARE SCE 10 FEET MINIMUM AT THE EXISTING ROAD TO PROVIDE 4. PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-I MATERIALS, OVER THE EXISTING GROUND PRIOR TO PLACING STONE. PLACE CRUSHED AGGREGATE (2 TO 3 INCHES IN SIZE) OR EQUIVALENT RECYCLED CONCRETE (WITHOUT REBAR) AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE SCE. PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SCE UNDER THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE, PROTECT PIPE INSTALLED THROUGH THE SCE WITH A MOUNTABLE BERM WITH 5:I SLOPES AND A MINIMUM OF IZ INCHES OF STONE OVER THE PIPE, WHEN THE SCE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY, A PIPE IS NOT NECESSARY, SIZE PIPE (SIX INCH MINIMUM DIAMETER) TO CONVEY THE RUNOFF GENERATED BY A 2-YEAR INSPECT AND PROVIDE NECESSARY MAINTENANCE PERIODICALLY AND AFTER EACH RAIN EVENT. PERIODIC TOP DRESSING OF STONE MAY BE NECESSARY.

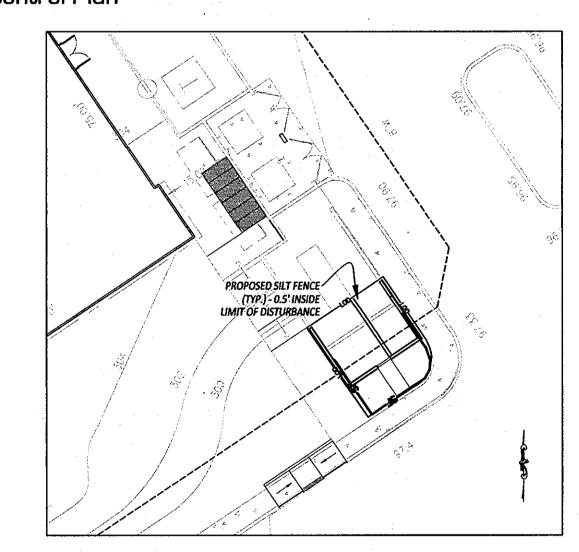
MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

ELECTION DISTRICT No. 6

MARYLAND DEPARTMENT OF ENVIRONMENT

WATER MANAGEMENT ADMINISTRATION

# Sediment Control Plan



Sediment Control Plan - Smoke Shelter

STABILIZED CONSTRUCTION ENTRANCE TO BE INSTALLED AT THE DIRECTION OF THE SEDIMENT CONTROL INSPECTOR

### SEQUENCE OF CONSTRUCTION

REVISED SITE DEVELOPMENT PLAN

Erosion Control Plan and Stormwater Management Plan and Details

RECORD SET - 5/23/2011

COLUMBIA GATEWAY

PARCEL 'T-20'

- 1. INSTALL SILT FENCE AND OTHER EROSION AND SEDIMENT CONTROL MEASURES.
- REMOVE EXISTING PAVEMENT, CONCRETE, AND CURBING AS INDICATED ON THE PLANS
- CONSTRUCT IMPERVIOUS IMPROVEMENTS (CONCRETE, SHELTER, ETC.) AND
- STABILIZE PERVIOUS AREAS. 4. REMOVE SILT FENCE.

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 re-disturbance, 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.

HOWARD SOIL CONSERVATION DISTRICT 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 any construction (313-1855).

5. All disturbed areas must be stabilized within the time period specified above in accordance with the 1994 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

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.

do not allow for proper germination and establishment of grasses.

Total Area of Site 14.96 Acres Area Disturbed 0.28 Acres Area to be roofed or paved 0.05 Acres Area to be vegetatively stabilized 0.23 Acre. Total Cut O Cu. Yds. Total Fill 130 Cu. Yds.

Offsite waste/borrow area location: Onsite

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 shall be back-filled and stabilized by the end of each work day, whichever is shorter.

> ALL EXISTING PAVEMENT, CONCRETE AND CURBING WITHIN LIMIT OF DISTURBANCE TO BE REMOVED

STORMWATER MANAGEMENT PROVIDED BY EXISTING

FACILITIES PERMITTED UNDER SDP 06-075

# LIMIT OF DISTURBANCE (LOD) AREA: 0.27 Ac

IMPERVIOUS SURFACE SUMMARY

PRE-DEVELOPMENT IMPERVIOUS AREA WITHIN LOD: 0.14 Ac POST-DEVELOPMENT IMPERVIOUS AREA WITHIN LOD: 0.05 Ac CHANGE IN IMPERVIOUS AREA WITHIN LOD: -0.09 Ac (Reduction

### HOWARD SOIL CONSERVATION DISTRICT 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 (14 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 ureaform fertilizer (9 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 August 1 – 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 60 lbs Kentucky 31 Tall Fescue per acre and 2 lbs/acre (.05 lbs/100() sq. ft.) of weeping lovegrass. During the period of October 16 -- February 28,

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 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 slope 8 feet or higher, use 348 gallons per acre (8 gal/1000 sa. 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 -- August 14, seed with 3 lbs/acre of weeping lovegrass (.07 lbs/1000 sq. ft.). For the period November 16 -- February 28, protect 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 I-1/2 to 2 tons/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 slope 8 ft. or higher, use 348 gal. per acre (8 gal/1000 sq. ft.) for anchoring.

Refer to the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOL EROSION AND SEDIMENT CONTROL for additional rates and methods not covered.



SCALE:

Walter G. Zawislak, P.E. Professional Engineer

6990 Columbia Gateway Drive, Suite 150, Columbia, Maryland 21046 Ph: 443-276-6220 Fax: 443-276-6221 W.Zawislak@axiom-ed.com PROFESSIONAL CERTIFICATION

HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR

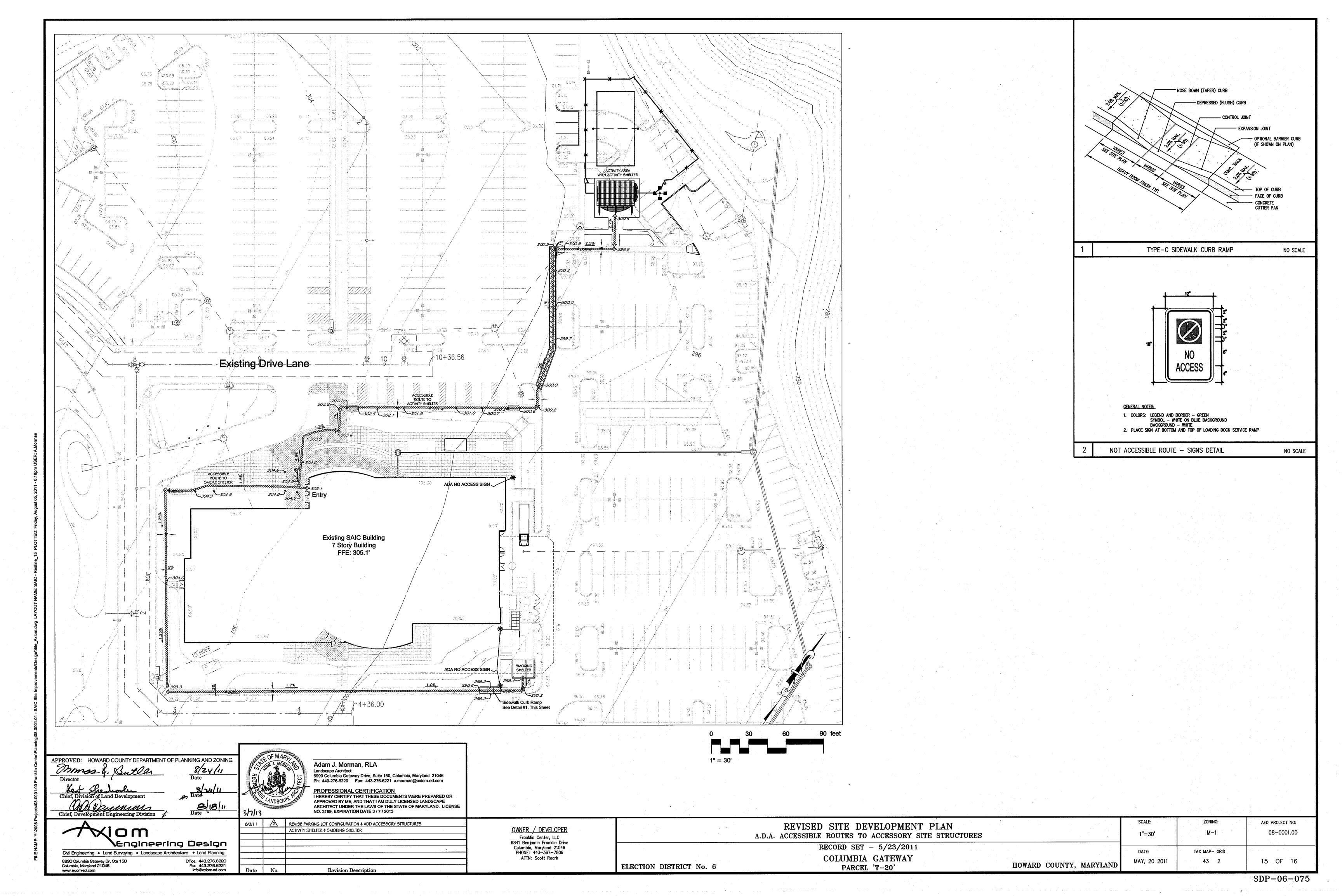
APPROVED BY ME, AND THAT I AM DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO.32033, EXPIRATION DATE 6 / 20 / 2013

M-1 08-0001.00 1"=20' TAX MAP- GRID 16 OF 16 MAY, 20 2011 43 2 HOWARD COUNTY, MARYLAND

ZONING:

SDP - 06 - 075

AED PROJECT NO:



THE LANDSCAPE CONTRACTOR SHALL FURNISH AND INSTALL AND/OR DIG, BALL, BURLAP AND TRANSPLANT ALL OF THE PLANT MATERIALS CALLED FOR ON DRAWINGS AND/OR LISTED IN THE PLANT SCHEDULE.

PLANT NAMES USED IN THE PLANT SCHEDULE SHALL CONFORM WITH "STANDARDIZED PLANT NAMES," LATEST EDITION.

ALL PLANT MATERIAL SHALL BE EQUAL TO OR BETTER THAN THE REQUIREMENTS OF THE "USA STANDARD FOR NURSERY STOCK" LATEST EDITION, AS PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN (HERE- AFTER REFERRED TO AS AAN STANDARDS). ALL PLANTS SHALL BE TYPICAL OF THEIR SPECIES AND VARIETY. SHALL HAVE A NORMAL HABIT OF GROWTH AND SHALL BE FIRST QUALITY, SOUND, VIGOROUS, WELL-BRANCHED AND WITH HEALTHY, WELL-FURNISHED ROOT SYSTEMS THEY SHALL BE FREE OF DISEASE, INSECT PESTS AND MECHANICAL

ALL PLANTS SHALL BE NURSERY GROWN AND SHALL HAVE BEEN GROWN UNDER THE SAME CLIMATE CONDITIONS AS THE LOCATION OF THIS PROJECT FOR AT LEAST TWO YEARS BEFORE PLANTING. NEITHER HEELED-IN PLANTS NOR PLANTS FROM COLD STORAGE WILL BE ACCEPTED.

ALL PLANTS SHALL CONFORM TO THE MEASUREMENTS SPECIFIED IN THE PLANT SCHEDULE AS APPROVED BY THE DESIGN REVIEW COMMITTEE (DRC).

A. CALIPER MEASUREMENTS SHALL BE TAKEN SIX INCHES (6") ABOVE GRADE FOR TREES UNDER FOUR-INCH (4") CALIPER AND TWELVE (12") ABOVE GRADE FOR TREES FOUR INCHES (4") IN CALIPER AND OVER.

B. MINIMUM BRANCHING HEIGHT FOR ALL SHADE TREES SHALL BE SIX FEET (6'), MAXIMUM EIGHT FEET (8").

C. CALIPER, HEIGHT, SPREAD AND SIZE OF BALL SHALL BE GENERALLY

### CALIPER HEIGHT SPREAD SIZE OF BALL

3" - 3.5"	14'-16'	6'-8'	32" DIAMETER
3.5"- 4"	14'-16'	8'-10'	36" DIAMETER
4" - 4.5"	16'-18'	8'-10'	40" DIAMETER
4.5"- 5"	16'-17'	10'-12'	44" DIAMETER
5" - 5.5 <b>"</b>	16'-20'	10'-12'	48" DIAMETER
5.5"- 6"	18'-20'	12'-14'	52" DIAMETER

ALL PLANT MATERIAL SHALL GENERALLY AVERAGE THE MEDIAN FOR THE SIZE RANGES INDICATED ABOVE AS INDICATED IN THE "AAN

### 4. PLANT IDENTIFICATION

LEGIBLE LABELS SHALL BE ATTACHED TO ALL SHADE TREES, MINOR TREES, SPECIMEN SHRUBS AND BUNDLES OR BOXES OF OTHER PLANT MATERIAL GIVING THE BOTANICAL AND COMMON NAMES. SIZE AND QUANTITY OF EACH. EACH SHIPMENT OF PLANTS SHALL BEAR CERTIFICATES OF INSPECTION AS REQUIRED BY FEDERAL, STATE AND COUNTY AUTHORITIES.

THE DESIGN REVIEW COMMITTEE MAY, UPON REQUEST BY THE BUILDER OR DEVELOPER, AT LEAST TEN (10) DAYS PRIOR TO THE INSTALLATION OF ANY PROPOSED PLANT MATERIAL, INSPECT ALL PROPOSED PLANT MATERIAL AT THE SOURCE OF ORIGIN.

### B. PLANTING METHODS

ALL PROPOSED PLANT MATERIALS THAT MEET THE SPECIFICATIONS IN SECTION A ARE TO BE PLANTED IN ACCORDANCE WITH THE FOLLOWING METHODS DURING THE PROPER PLANTING SEASONS AS DESCRIBED IN THE

### 1. PLANTING

SEASONS
THE PLANTING OF DECIDUOUS TREES, SHRUBS AND VINES SHALL BE FROM MARCH 1ST. TO JUNE 15TH AND FROM SEPTEMBER 15TH TO DECEMBER 15TH. PLANTING OF DECIDUOUS MATERIAL MAY BE CONTINUED DURING THE WINTER MONTHS PROVIDING THERE IS NO FROST IN THE GROUND AND FROST-FREE TOPSOIL PLANTING MIXTURES ARE USED.

THE PLANTING OF EVERGREEN MATERIAL SHALL BE FROM MARCH 15TH TO JUNE 15TH AND FROM AUGUST 15TH TO DECEMBER 1ST. NO PLANTING SHALL BE DONE WHEN THE GROUND IS FROZEN OR EXCESSIVELY MOIST. NO FROZEN OR WET TOPSOIL SHALL BE USED AT ANY TIME.

### 2. DIGGING

ALL PLANT MATERIAL SHALL BE DUG, BALLED AND BURLAPPED (B&B) IN ACCORDANCE WITH THE "AAN STANDARDS"

### B. EXCAVATION OF PLANT PITS

THE LANDSCAPING CONTRACTOR SHALL EXCAVATE ALL PLANT PITS, VINE PITS, HEDGE TRENCHES AND SHRUB BEDS IN ACCORDANCE WITH THE FOLLOWING

A. LOCATIONS OF ALL PROPOSED PLANT MATERIAL SHALL BE STAKED AND APPROVED IN THE FIELD BY THE LANDSCAPE ARCHITECT BEFORE ANY OF THE PROPOSED PLANT MATERIAL IS INSTALLED BY THE LANDSCAPE CONTRACTOR

B. ALL PITS SHALL BE GENERALLY CIRCULAR IN OUTLINE, VERTICAL SIDES; DEPTH SHALL NOT BE LESS THAN 6" DEEPER THAN THE ROOT BALL, DIAMETER SHALL NOT BE LESS THAN TWO TIMES THE DIAMETER OF THE ROOT BALL AS SET FORTH IN THE FOLLOWING SCHEDULE.

C. IF AREAS ARE DESIGNATED AS SHRUB BEDS OR HEDGE TRENCHES, THEY SHALL BE EXCAVATED TO AT LEAST 18" DEPTH MINIMUM. AREAS DESIGNATED FOR GROUND COVERS AND VINES SHALL BE EXCAVATED TO AT LEAST 12" IN

### D. DIAMETER AND DEPTH OF TREE PITS SHALL GENERALLY BE AS FOLLOWS:

PLANT SIZE	ROOT BALL	PIT DIA.	PIT DEPTH
8" - 3.5"CAL.	32"	64"	28"
3.5"- 4" CAL.	36"	72"	32"
l" - 4.5"CAL.	40"	80"	36"
1.5"- 5" CAL.	44"	88"	40"
5" - 5.5"CAL.	48"	96"	44"
5.5"- 6" CAL.	52"	104"	48"

A 20 % COMPACTION FIGURE OF THE SOIL TO BE REMOVED IS ASSUMED AND WILL BE ALLOWED IN CALCULATION OF EXTRA TOPSOIL. THE TABULATED PIT SIZES ARE FOR PURPOSES OF UNIFORM CALCULATION AND SHALL NOT OVERRIDE THE SPECIFIED DEPTHS BELOW THE BOTTOMS OF THE ROOT

### 4. STAKING, GUYING AND WRAPPING

ALL PLANT MATERIAL SHALL BE STAKED OR GUYED, AND WRAPPED IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS:

A. STAKES: SHALL BE SOUND WOOD 2" X 2" ROUGH SAWN OAK OR SIMILAR DURABLE WOODS, OR LENGTHS, MINIMUM 7'-0" FOR MAJOR TREES AND 5'-0"

B. WIRE AND CABLE: WIRE SHALL BE #10 GA. GALVANIZED OR BETHANIZED ANNEALED STEEL WIRE. FOR TREES OVER 3" CALIPER, PROVIDE 5/16" TURN BUCKLES, EYE AND EYE WITH 4" TAKE-UP. FOR TREES OVER 5" CALIPER. PROVIDE 3/16". 7 STRAND CABLE CADMIUM PLATED STEEL, WITH GALVANIZED "EYE" THIMBLES OF WIRE AND HOSE ON TREES UP TO 3" IN CALIPER.

C. HOSE: SHALL BE NEW, 2 PLY REINFORCED RUBBER HOSE, MINIMUM 1/2" I.D. "PLASTIC LOCK TIES" OR "PAUL'S TREES BRACES" MAY BE USED IN PLACE OF WIRE AND HOSE ON TREES UP TO 3" IN CALIPER.

D. ALL TREES UNDER 3" IN CALIPER ARE TO BE PLANTED AND STAKED IN ACCORDANCE WITH THE ATTACHED PLANTING DETAILS.

### 5. PLANT PRUNING, EDGING AND MULCHING

A. EACH TREE, SHRUB OR VINE SHALL BE PRUNED IN AN APPROPRIATE MANNER TO ITS PARTICULAR REQUIREMENTS, IN ACCORDANCE WITH ACCEPTED STANDARD PRACTICE. BROKEN OR BRUISED BRANCHES SHALL BE REMOVED WITH CLEAN CUTS FLUSH WITH THE ADJACENT TRUNK OR BRANCHES. ALL CUTS OVER 1" IN DIAMETER SHALL BE PAINTED WITH AN APPROVED ANTISEPTIC TREE WOUND DRESSING.

B. ALL TRENCHES AND SHRUB BEDS SHALL BE EDGED AND CULTIVATED TO THE LINES SHOWN ON THE DRAWING. THE AREAS AROUND ISOLATED PLANTS SHALL BE EDGED AND CULTIVATED TO THE FULL DIAMETER OF THE PIT. SOD WHICH HAS BEEN REMOVED AND STACKED SHALL BE USED TO TRIM THE EDGES OF ALL EXCAVATED AREAS TO THE NEAT LINES OF THE PLANT PIT SAUCERS, THE EDGES OF SHRUB AREAS, HEDGE TRENCHES AND VINE

C. AFTER CULTIVATION, ALL PLANT MATERIALS SHALL BE MULCHED WITH A 3" LAYER OF FINE, SHREDDED PINE BARK, PEAT MOSS, OR ANOTHER APPROVED MATERIAL OVER THE ENTIRE AREA OF THE BED OR SAUCER.

### 6. PLANT INSPECTION AND ACCEPTANCE

THE DESIGN REVIEW COMMITTEE SHALL BE RESPONSIBLE FOR INSPECTING ALL PLANTING PROJECTS ON A PERIODIC BASIS TO ASSURE THAT ALL WORK IS PROCEEDING IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS.

### 7. PLANT GUARANTEE

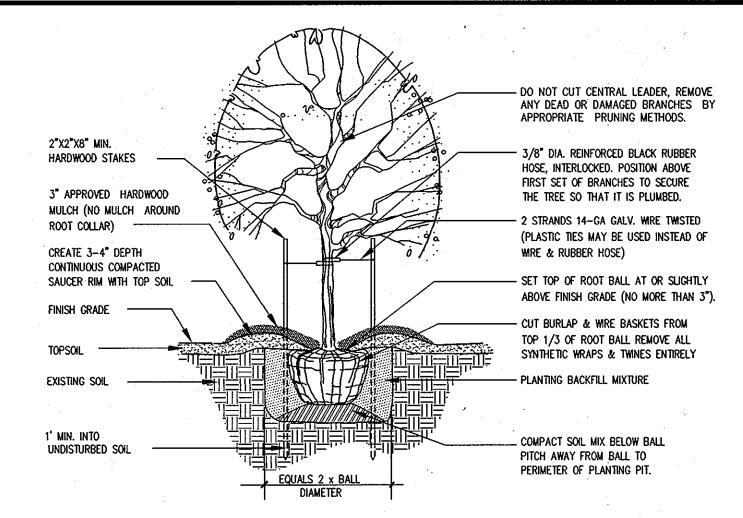
ALL PLANT MATERIAL SHALL BE GUARANTEED FOR THE DURATION OF ONE FULL GROWING SEASON, AFTER FINAL INSPECTION AND ACCEPTANCE OF THE WORK IN THE PLANTING PROJECT. PLANTS SHALL BE ALIVE AND IN SATISFACTORY GROWING CONDITION AT THE END OF THE GUARANTEE PERIOD.

A. FOR THIS PURPOSE, THE "GROWING SEASON" SHALL BE THAT PERIOD BETWEEN THE END OF THE "SPRING" PLANTING SEASON, AND THE COMMENCEMENT OF THE "FALL" PLANTING SEASON.

B. GUARANTEE FOR PLANTING PERFORMED AFTER THE SPECIFIED END OF THE "SPRING" PLANTING SEASON, SHALL BE EXTENDED THROUGH THE END OF THE NEXT FOLLOWING "SPRING" PLANTING SEASON.

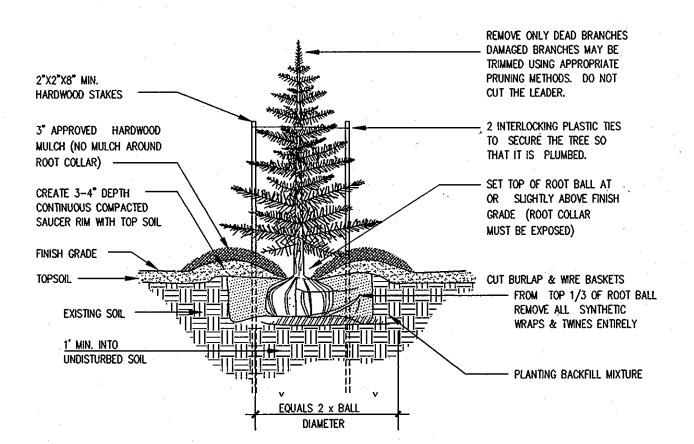
ALL SODDING SHALL BE IN ACCORDANCE TO THE "LANDSCAPE SPECIFICATION GUIDELINES FOR BALTIMORE-WASHINGTON METROPOLITAN AREAS" LATES EDITION, APPROVED BY THE LANDSCAPE CONTRACTORS ASSOCIATION OF METROPOLITAN WASHINGTON AND THE AMERICAN SOCIETY OF LANDSCAPE

ARCHITECTS. ALL SOD SHALL BE STRONGLY ROOTED SOD, NOT LESS THAN TWO YEARS OLD AND FREE OF WEEDS AND UNDESIRABLE NATIVE GRASSES. PROVIDE ONLY SOD CAPABLE OF GROWTH DEVELOPMENT WHEN PLANTED AND IN STRIPS NOT MORE THAN 18" WIDE X 4" LONG. PROVIDE SOD COMPOSED PRINCIPALLY OF IMPROVED STRAIN KENTUCKY BLUEGRASS, SUCH AS, COLUMBIA, VICTA, OR ESCORT.



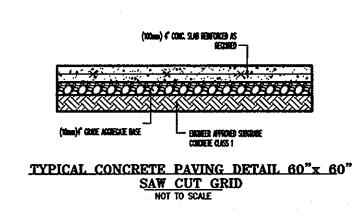
NOTE: ALL SUPPORTING DEVICES (STAKES, WIRES, ETC.) SHALL BE REMOVED AFTER 2 GROWING SEASONS.

DECIDUOUS TREE PLANTING DETAIL FOR PLANTING MATERIAL UP TO 3 1/2" CALIPER

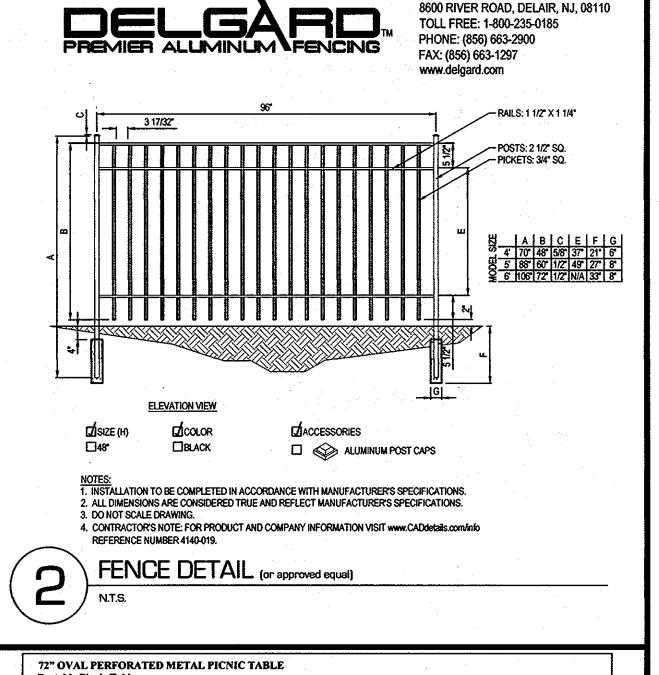


NOTE: ALL SUPPORTING DEVICES (STAKES, TIES, ETC.) SHALL BE REMOVED AFTER 2 GROWING SEASONS.

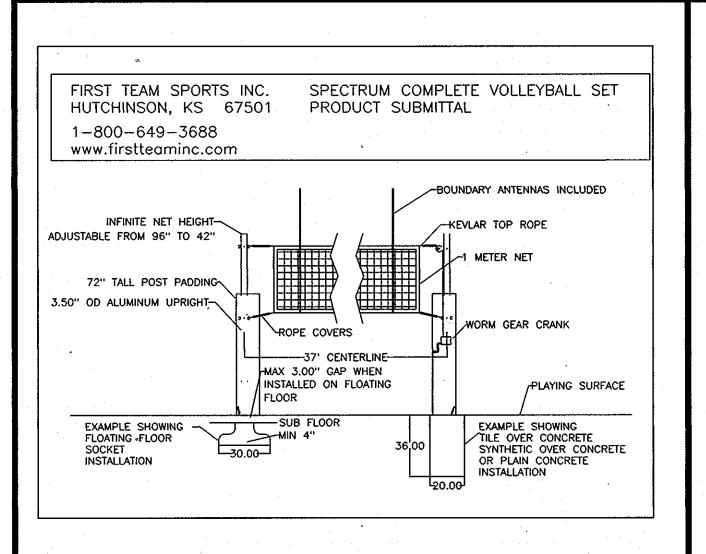
EVERGREEN TREE PLANTING DETAIL



**CONCRETE PAVING DETAIL** 



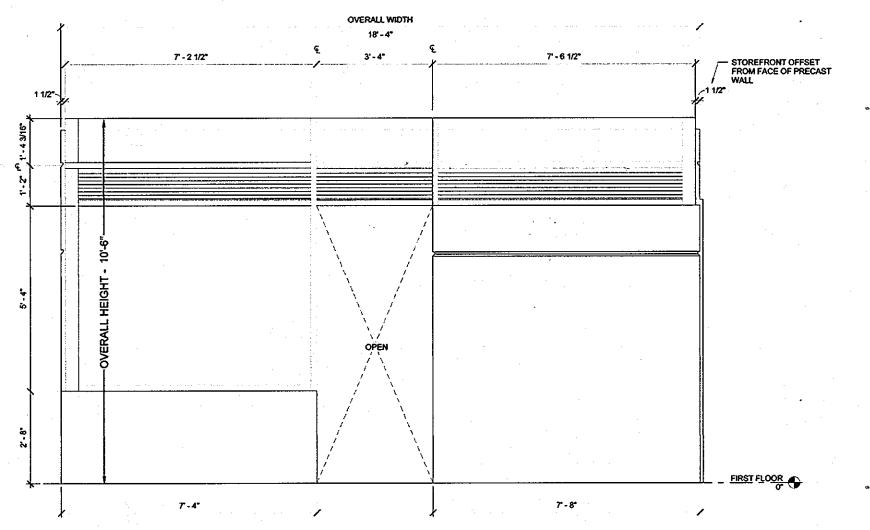
**DELGARD PREMIER ALUMINUM FENCING** 



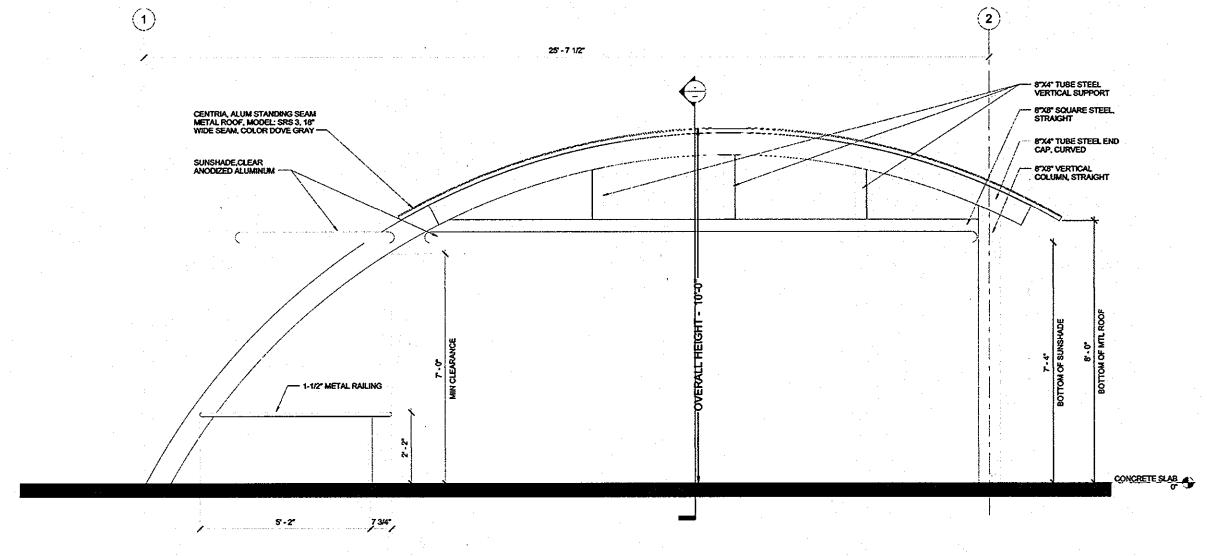
PORTABLE VOLLEYBALL NET DETAIL 3 N.T.S.



PICNIC TABLE UNDER PAVILION (OR APPROVED EQUAL)



SMOKER SHELTER/SHED - SCHEMATIC PROFILE ELEVATION



**ACTIVITY SHELTER - SCHEMATIC PROFILE ELEVATION** 

SCALE: AED PROJECT NO: REVISED SITE DEVELOPMENT PLAN OWNER / DEVELOPER 08-0001.00 SITE AND LANDSCAPE DETAILS & NOTES Franklin Center, LLC 6841 Benjamin Franklin Drive RECORD SET -5/23/2011Columbia, Maryland 21046 PHONE: 443-367-7806 TAX MAP- GRID COLUMBIA GATEWAY ATTN: Scott Roark 43 2 14 OF 16 MAY, 20 2011 HOWARD COUNTY, MARYLAND ELECTION DISTRICT No. 6 PARCEL 'T-20'

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING momas

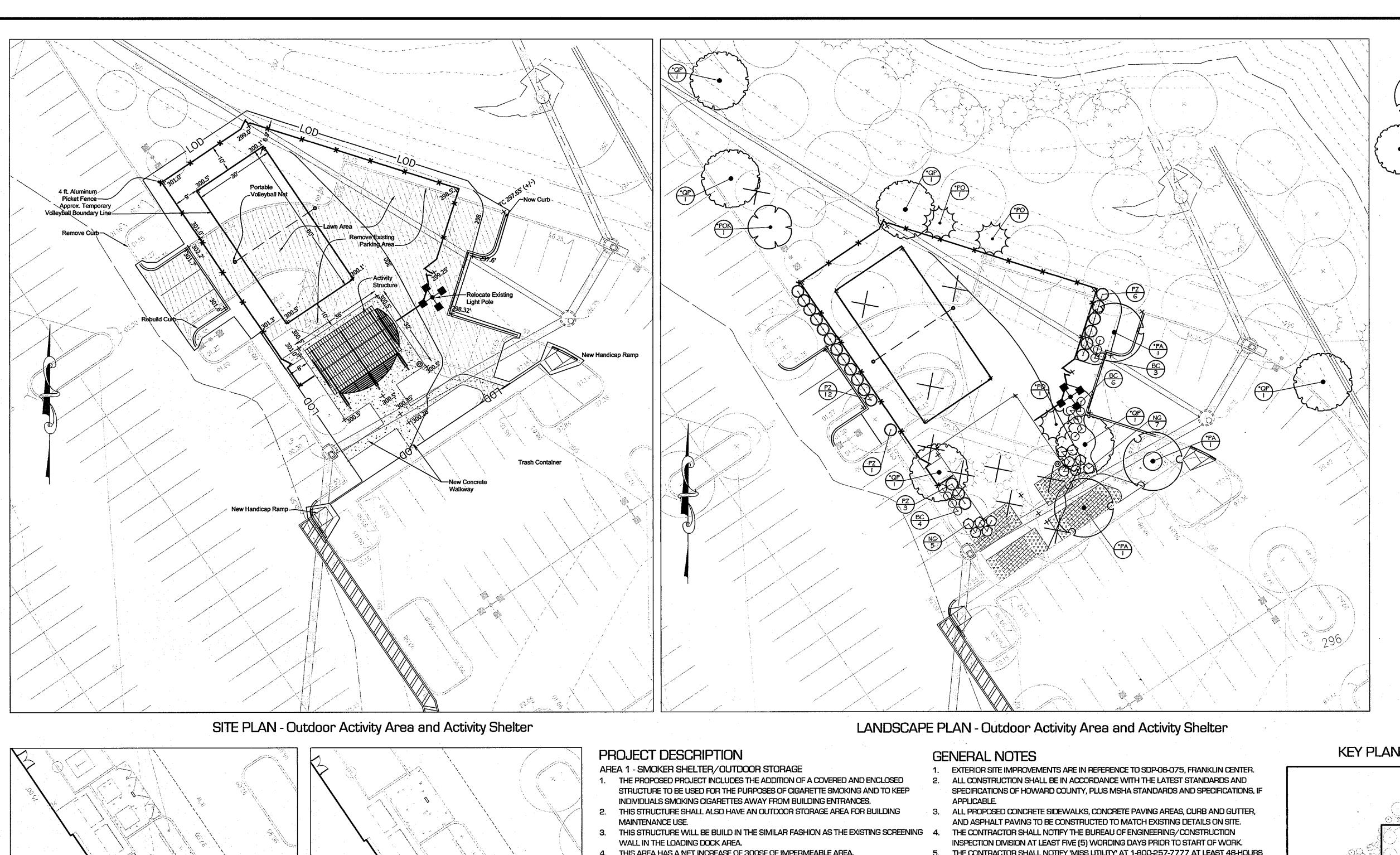
Chief, Development Engineering Division

Adam J. Morman, RLA 6990 Columbia Gateway Drive, Suite 150, Columbia, Maryland 21046 Ph: 443-276-6220 Fax: 443-276-6221 a.morman@axiom-ed.com

PROFESSIONAL CERTIFICATION

THEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM DULY LICENSED LANDSCAPE

llin.		UNDER THE LAWS OF XPIRATION DATE 3 / 7 / 2	•	AND. LICENSE
REVISE	PARKING LOT CON	FIGURATION & ADD ACCES	SORY STRUCTURES	
ACTIVIT	TY SHELTER & SMOK	UNG SHELTER		
·				
				**



# **Enclosure**

Pr.Smoke Enclosure

SITE PLAN - Smoke Shelter

LANDSCAPE PLAN - Smoke Shelter

REVISE PARKING LOT CONFIGURATION \$ ADD ACCESSORY STRUCTURES

Revision Description

ACTIVITY SHELTER & SMOKING SHELTER

4. THIS AREA HAS A NET INCREASE OF 300SF OF IMPERMEABLE AREA.

AREA 2 - OUTDOOR ACTIVITY AREA WITH ACTIVITY SHELTER

- 5. THE PROPOSED PROJECT INCLUDES THE REMOVAL APPROXIMATELY 5,100SF OF EXISTING ASPHALT (IMPERMEABLE AREA) AND THE INSTALLATION OF APPROXIMATELY 1,600SF OF PROPOSED PAVING. THERE IS A NET REDUCTION OF APPROXIMATELY 3,500SF OF IMPERMEABLE SURFACE FROM THE SITE.
- THE OUTDOOR ACTIVITY AREA SHALL BE COMPRISED OF A CUSTOM ACTIVITY SHELTER, A SEMI-FENCED IN AREA, NEW PAVING AND LARGER LAWN AREA TO ACCOMMODATE OCCASIONAL ACTIVITIES SUCH AS FRISBEE, VOLLEYBALL, TEAM BUILDING ACTIVITIES AND COOK-OUTS.
- EXISTING SIDEWALKS SHALL HAVE HANDICAP RAMPS CONSTRUCTED TO ALLOW FOR
- ADEQUATE ACCESSIBILITY TO THE AREA. EXISTING DECIDUOUS AND EVERGREEN TREES ARE INTENDED TO BE TRANSPLANTED, WHERE POSSIBLE. SHOULD PLANT MATERIAL BE IN POOR HEALTH, CONTRACTOR SHALL 11.

ELECTION DISTRICT No. 6

- 5. THE CONTRACTOR SHALL NOTIFY 'MISS UTILITY' AT 1-800-257-7777 AT LEAST 48-HOURS PRIOR TO ANY EXCAVATION WORK. EXISTING TOPOGRAPHY HAS NOT BEEN FIELD SURVEYED.
- NOT BEEN FIELD VERIFIED. LOCATIONS ARE BASED ON THE APPROVED SDP-06-075 PLANS, MAY 2007 8. STORMWATER MANAGEMENT IS PROVIDED BY THE SWM FACILITY CONSTRUCTED UNDER
- F-00-132, ON PARCELS T-10 AND T-15.
- ALL PROPOSED RAMPS SHALL BE IN ACCORDANCE WITH CURRENT A.D.A. STANDARDS. MAXIMUM SIDEWALK CROSS SLOPE SHALL BE (2%) TWO PERCENT. PROVIDE A MINIMUM OF (5'x5') FIVE BY FIVE LEVEL LANDING (2% MAX.) AT THE TOP AND BOTTOM OF ALL RAMPS AND BUILDING INGRESS/EGRESS.
- FOR OUTDOOR ACTIVITY STRUCTURE. PROPOSED PLANTINGS (TREES/SHRUBS) ARE NOT PART OF THE MINIMUM REQUIRED. ALL PLANTINGS ARE IN ADDITION TO THE MINIMUM REQUIREMENTS, PER LANDSCAPE
- 12. NO WETLANDS ARE LOCATED WITHIN THE PROPOSED WORK AREAS.

KEY PLAN - Areas of Site Improvements

TRANSPLANT.

PLANT SCHEDULE

CODE QTY BOTANICAL NAME / COMMON NAME

Transplant from Existing

Transplant from Existing

\*QP 6 Quercus phellos / Willow Oak

\*PO 3 Picea omorika / Serbian Spruce

Prunus x okame / Okame Cherry Transplant from Existing

PZ 26 Prunus laurocerasus `Zabeliana` / Zabel Laurel

112 238 Linope muscan 'Lilac Beauty' / Lilac Beauty Linope

1. THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY CODE & THE HOWARD COUNTY LANDSCAPE MANAUL 2. FIELD VERIFY UNDERGROUND UTILITY LOCATION AND EXISTING CONDITIONS BEFORE

CONTACT LANDSCAPE ARCHITECT IF ANY RELOCATIONS ARE REQUIRED.

PLANT QUANTITIES SHOWN ON THE PLAN LIST ARE PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. IF DISCREPANCIES EXIST BETWEEN QUANTITIES SHOWN ON THE PLAN AND THOSE SHOWN ON THE PLANT LIST, THE QUANTITIES ON THE PLAN

ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES BUT NOT OTHERWISE PLANTED, PAVED, OR MULCHED SHALL BE SODDED OR SEEDED IN ACCORDANCE WITH THE PERMANENT SEEDING SPECIFICATION. A MINIMUM OF 4" OF TOPSOIL SHALL BE

7. ALL EXPOSED EARTH WITHIN TH ELIMITS OF PLANTING BEDS SHALL BE MULCHED WITH

TRANSPLANTED PLANT MATERIAL SHALL HAVE AN ADEQUATE ROOT BALL, WRAPPED WITH BURLAP AND COVERED WITH MULCH UNTIL SUCH TIME AS THEY CAN BE RE-PLANTED. PLANT MATERIAL SHALL BE ADEQUATELY WATERED, WHILE AWAITING

DO NOT PLANT WITHIN THE PUBLIC WATER, SEWER AND UTILITY EASEMENT..

SHREDDED HARDWOOD MULCH PER THE PLANTING DETAILS.

5. ALL PLANT MATERIAL SHALL BE FULL, HEAVY, WELL FORMED, SYMMETRICAL, AND

BC 17 Berbens thunbergii 'Crimson Pygmy' / Crimson Pygmy Barberry

NG 12 Nandina domestica 'Gulf Stream' TM / Heavenly Bamboo

CODE QTY BOTANICAL NAME / COMMON NAME

EVERGREEN TREES CODE QTY BOTANICAL NAME / COMMON NAME

FLOWERING TREES CODE QTY BOTANICAL NAME / COMMON NAME

GROUND COVERS CODE QTY BOTANICAL NAME / COMMON NAME

AC 249 Annual Color

LANDSCAPE NOTES

STARTING PLANTING WORK.

SHALL TAKE PRECEDENCE.

CORORM TO THE A.A.N. SPECIFICATIONS.

PROVIDED TO ALL PLANTING AREAS.

\*PA 3 Platanus acenfolia / `Bloodgood` London Planetree

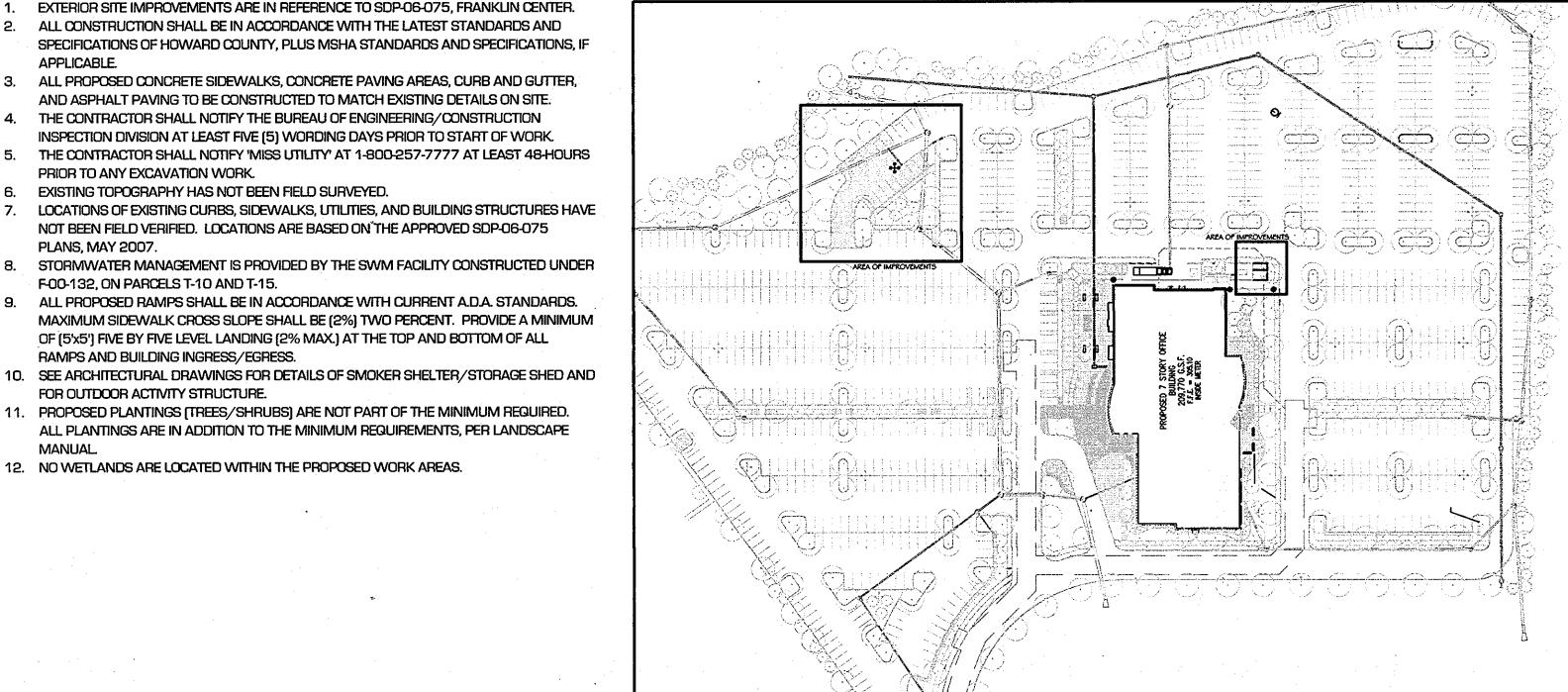
 $\{Scale = 1" = 100'\}$ 

CONT

B≰B

flat @ 12" oc

4"pot@ 18" oc



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING 8/18/11 Date Chief, Development Engineering Division

Civil Engineering • Land Surveying • Landscape Architecture • Land Planning

**\**Engineering Design

Office: 443.276.6220

Fax: 443.276.6221 info@axiom-ed.com

Xiom

6990 Columbia Gateway Dr, Sta 150

Columbia, Maryland 21046

www.axiom-ed.com

Adam J. Morman, RLA 6990 Columbia Gateway Drive, Suite 150, Columbia, Maryland 21046 Ph: 443-276-6220 Fax: 443-276-6221 a.morman@axiom-ed.com PROFESSIONAL CERTIFICATION HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME. AND THAT I AM DULY LICENSED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 3189, EXPIRATION DATE 3 / 7 / 2013

> OWNER / DEVELOPER Franklin Center, LLC 6841 Benjamin Franklin Drive Columbia, Maryland 21046 PHONE: 443-367-7806 ATTN: Scott Roark

PLANT NEW MATERIAL IN IT'S PLACE.

REVISED SITE DEVELOPMENT PLAN SITE PLAN & LANDSCAPE PLAN MODIFICATIONS RECORD SET -5/23/2011COLUMBIA GATEWAY

PARCEL 'T-20'

AED PROJECT NO: 08-0001.00 1"=20' DATE: TAX MAP- GRID 43 2 13 OF 16 MAY, 20 2011 HOWARD COUNTY, MARYLANI

SDP - 06 - 075