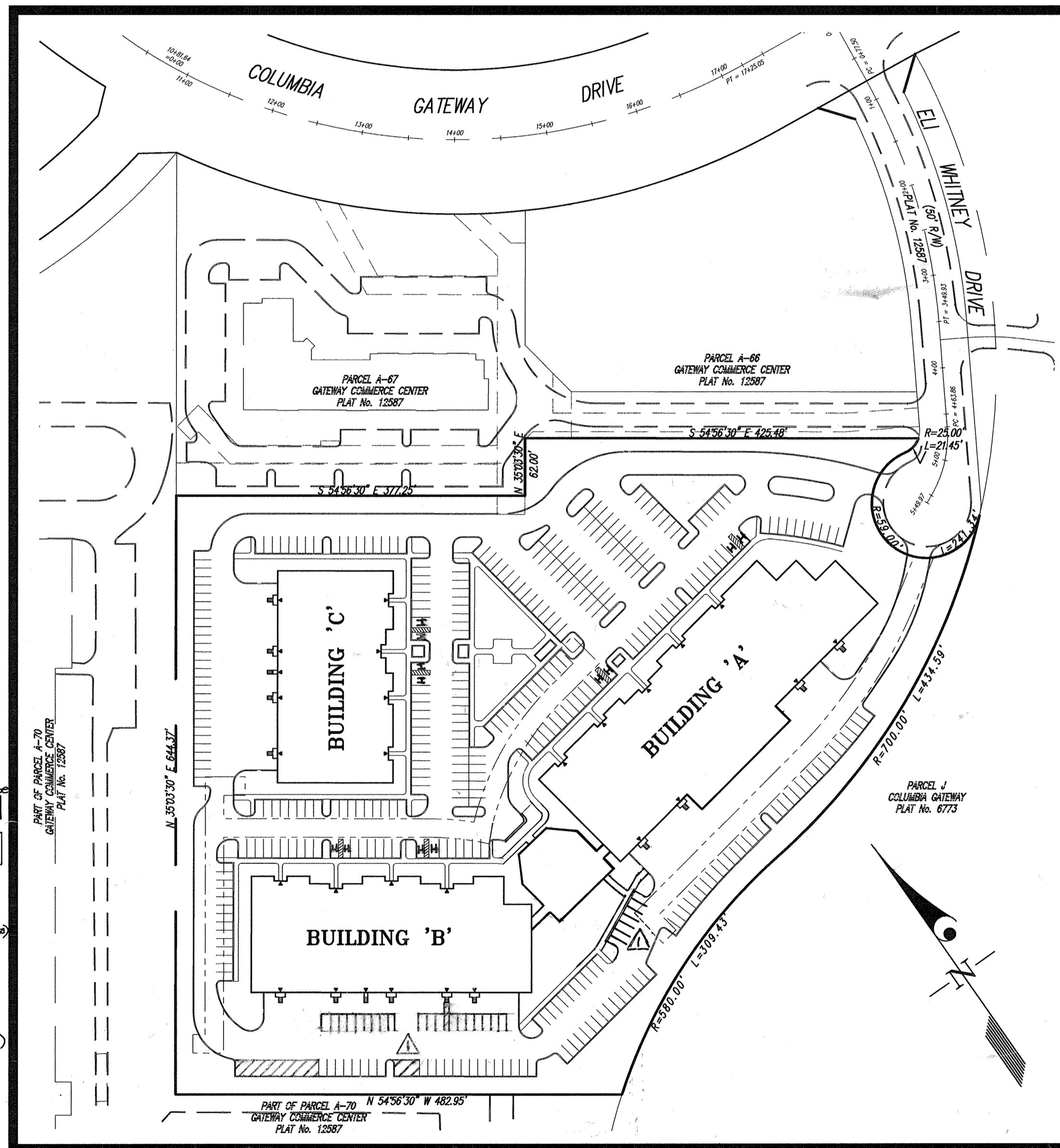
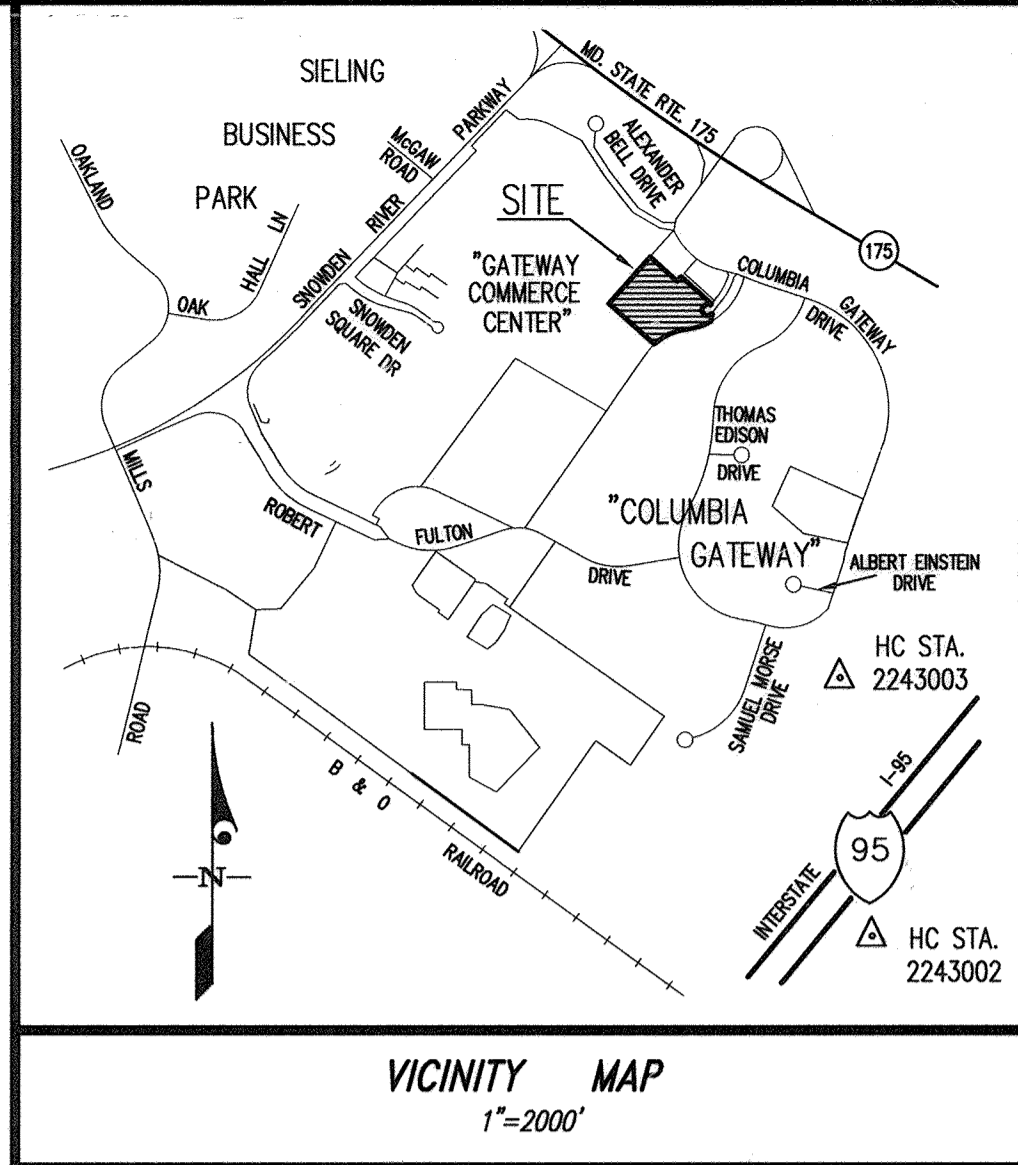


GENERAL NOTES

- All construction shall be in accordance with the latest standards and specifications of Howard County plus MSHA standard and specifications if applicable.
- The contractor shall notify the Department of Public Works, Bureau of Engineering, Construction Inspection Division at (410) 313-1880 at least five (5) working days prior to the start of work.
- The contractor shall notify "Miss Utility" at 1-800-257-7777 at least 48 hours prior to any excavation work.
- The contractor shall notify the Howard County Department of Public Works, Bureau of Utilities at (410) 313-4900 at least five working days prior to starting any excavation work.
- Site area: 10.6971 acres.
- All plan dimensions are to face of curb unless otherwise noted.
- Existing topography is shown per field run survey information by Gutschick, Little & Weber, P.A. (JAN., 1998).
- Coordinates and bearings are based upon the MD State plan system (NAD '27).
- Water and sewer shown is public.
- Stormwater management for this site is provided by an ex. regional facility. (F-90-107/FDC-100)
- All existing water and sewer is per Contracts 24-1629-D and 24-3084-D. The drainage area is Little Patuxent.
- All existing public storm drain is per F-87-125 and F-86-182.
- All curb radii is 5' unless noted otherwise.
- Sidewalks adjacent to perpendicular parking shall be 6' wide. All other sidewalks shall be 4' wide except where dimensioned otherwise.
- Contractor shall utilize PVC pipe for all sewer house connections. Contractor shall utilize D.I.P. (CL 51) for water house connections.
- Use trench bedding class "C" for storm drains.
- Paved areas indicated are private except as noted.
- Project background: See Dept. of Planning & Zoning File Numbers: F-95-175, F-96-127, WP-98-08, GP-98-151 AND F-98-167.
- Recording reference: Plot No. 12587
- All proposed ramps shall be in accordance with current A.D.A. standards. Maximum sidewalk cross slope shall be two percent. Provide a five-foot by five-foot level (2 percent max.) landing at the top and bottom of all ramps and building entrances and exits.
- All proposed water meters shall be located inside buildings.
- All proposed site utilities are to terminate 5' from the building. The building plumber shall connect to and extend these utilities to the inside of the building.
- Existing utilities are based on approved design plans for construction and field location by Gutschick, Little & Weber, P.A.
- There is no floodplain on this site.
- There are no wetlands on this site.
- No traffic study is required for this site.
- All outside lighting shall comply with zoning Sec.134.
- On 4-3-98, WP-98-08 was approved allowing a "GP" to be submitted to HSCD to cover the work necessary to remove the existing utilities from this parcel, that serve the industrial building to the west of this site. WP-98-08 HAVE SECTION 16.155(a)(1) REQUIRING AN SPP FOR MASS GRADING & RELOCATION OF ON-SITE PRIVATE UTILITIES ON PARCEL A-68.

GATEWAY COMMERCE CENTER PARCEL A-68

SITE DEVELOPMENT PLAN



Legend

- Standard 6" Curb & Gutter
- Reverse 6" Curb & Gutter
- Existing Curb
- Proposed Spot Elevation
- Existing Contour
- Proposed Contour
- Patron Access
- Limit of Submission

Sheet Index

- Cover sheet
- Site Development Plan
- Site Details / Paving Plan
- Handicap Accessibility Plan
- Landscape Plan
- Landscape Notes & Details
- Erosion Control Plan
- Erosion Control Details
- Storm Drain Profiles & Schedules
- Storm Drain, Sewer Profiles & Schedules
- Drainage Area Map

Site Analysis

Total Project Area : 469,905 sq ft or 10.6971 Ac.
Zoning : M-1
Proposed Use : R & D and General Office/Light Warehouse

Floor Space :	Building A	60,782 sq ft [Mezzanine]
	Building B	35,783 sq ft [Mezzanine]
	Building C	28,844 sq ft [Mezzanine]
Total Floor Space :	125,409 sq ft	
*Total No. of Parking Spaces Required:	414	
Total No. of Parking Spaces Provided:	436	
Total No. of Handicap Spaces Required:	0	
*Total No. of Handicap Spaces Provided:	12	
Total No. of Van Accessible Spaces Required:	2	
Total No. of Van Accessible Spaces Provided:	8	
Building Coverage :	119,409 sq ft (25.6% of gross area)	

*Total No. of spaces required : General Office Use @ 3.5 spaces/1000 sq ft of floor space
****TOTAL INCLUDES 8 VAN ACCESSIBLE PARKING SPACES**

KEY MAP

SCALE : 1" = 100'

AS TO 8-20-18 PLAN REVISIONS

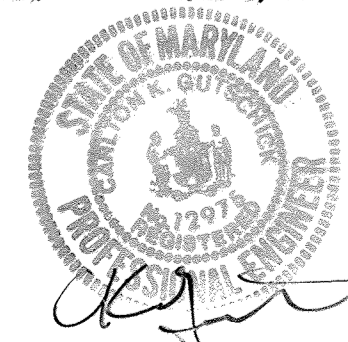
MATISWARFIELD
CONSULTING ENGINEERS
954 RIDGEBROOK RD, STE. 120, SPARKS, MD. 21152
410-683-7004 PHONE
410-683-1798 FAX
WWW.MATISWARFIELD.COM

PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MD. LICENSE NO. PE 18848



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

[Signature] Director Date: 6/23/98
[Signature] Chief, Division of Land Development Date: 6/23/98
[Signature] Chief, Development Engineering Division Date: 6/17/98



ADDRESS CHART					
BUILDING	STREET ADDRESS				
A	6650 ELI WHITNEY DRIVE				
B	6640 ELI WHITNEY DRIVE				
C	6630 ELI WHITNEY DRIVE				
SUBDIVISION NAME:		SECTION/AREA	PARCEL		
GATEWAY COMMERCE CENTER		N/A	A-68		
PLAT	ZONE	TAX MAP	BLOCK	ELEC. DIST.	CENSUS TRACT
12587	M-1	42-43	1	6	6067.03

GLW GUTSCHICK LITTLE & WEBER, P.A.
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK
BURTONSVILLE, MARYLAND 20886
TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186

DATE	REVISION	BY	APP'R.
8-20-18	REV. SITE ANALYSIS AND KEY MAP TO REFLECT ADDITIONAL SPACES, REAR BLDG. 'B'	MWJ	[Signature]
4/2/00	REV. SITE ANALYSIS FOR CONNECTOR BLDG. SHOW BLDG. ADDITIONS ON KEY MAP	FMB	[Signature]
2/1/00	REV. SITE ANALYSIS FOR ADDITION AND MEZZANINE TO BLDG. A	WJL	[Signature]
5-22-97	REVISED SITE ANALYSIS FOR MEZZANINE IN BLDG. C	FMB	[Signature]

PREPARED FOR:
GATEWAY 58 PARTNERSHIP
7165 COLUMBIA GATEWAY DRIVE
COLUMBIA, MARYLAND 21046
ATTN: COLE SCHNORF
PHONE: (410) 290-1400

OWNER:
THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
10275 LITTLE PATUXENT PARKWAY
COLUMBIA, MD 21044
ATTN: AL EDWARDS
(410) 992-6027

COVER SHEET EXP. DATE 9-19-20
GATEWAY COMMERCE CENTER
PARCEL A-68
ELECTION DISTRICT No. 6
HOWARD COUNTY, MARYLAND

SCALE	ZONING	G. L. W. FILE NO.
AS SHOWN	M-1	98011
DATE	TAX MAP No.	SHEET
5/6/1998	42-43	1 OF 11

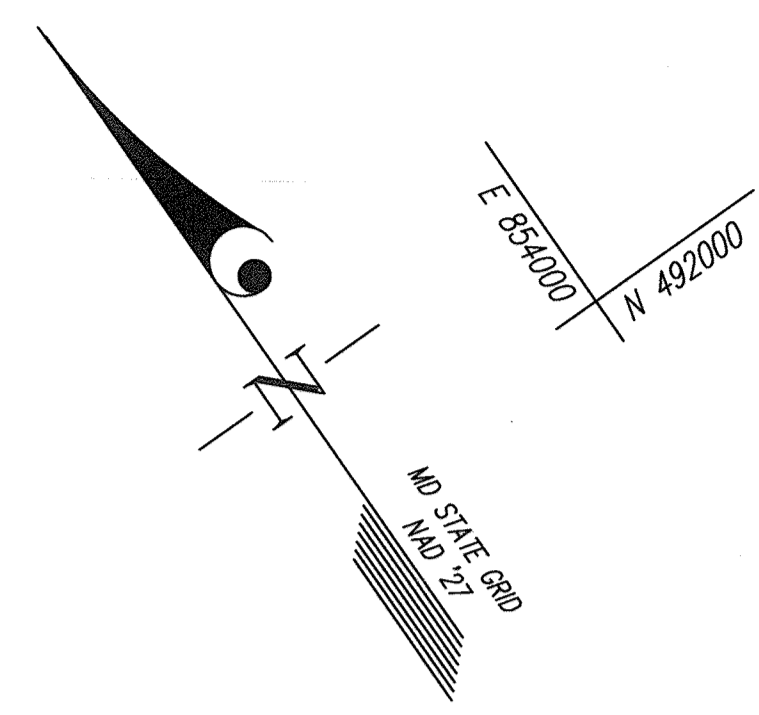
PART OF PARCEL A-70
GATEWAY COMMERCE CENTER
PLAT No. 12587

PARCEL A-67
GATEWAY COMMERCE CENTER
PLAT No. 12587

PARCEL A-66
GATEWAY COMMERCE CENTER
PLAT No. 12587

PARCEL J
COLUMBIA GATEWAY
PLAT No. 6773

ELI WHITNEY DRIVE



Scale: 1" = 50' Horiz.
1" = 5' Vert.

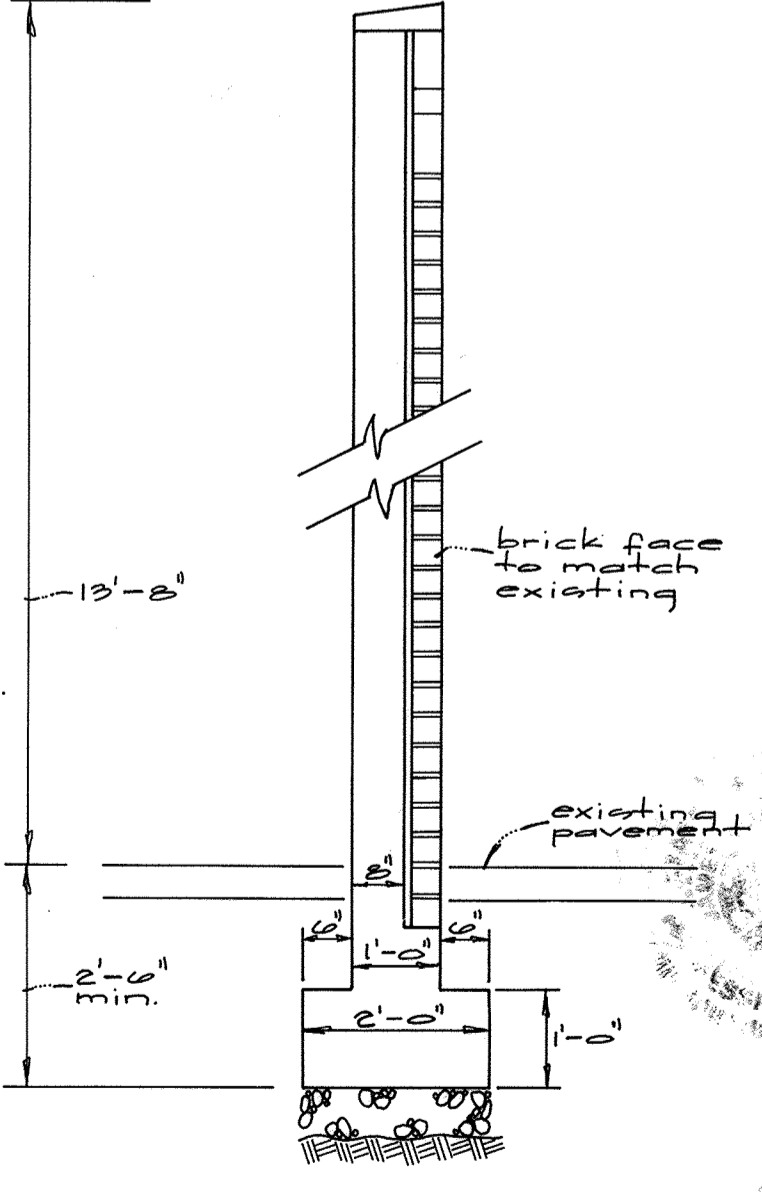
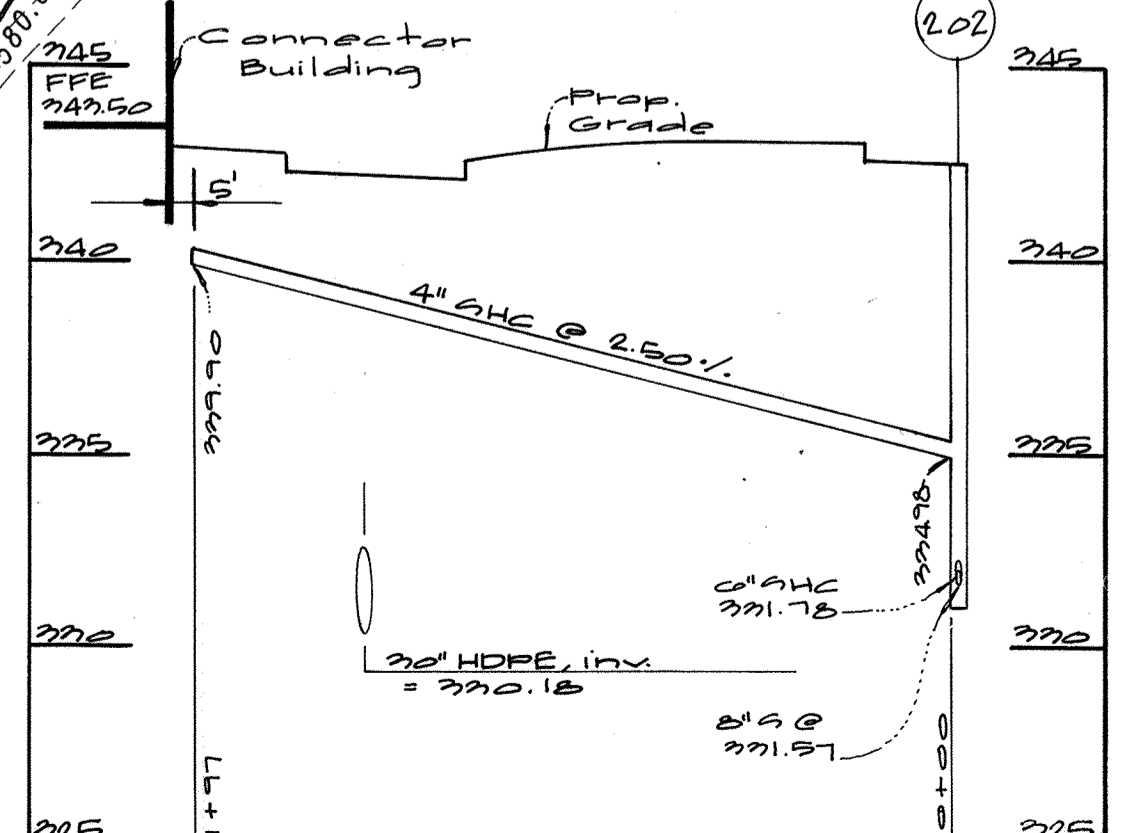
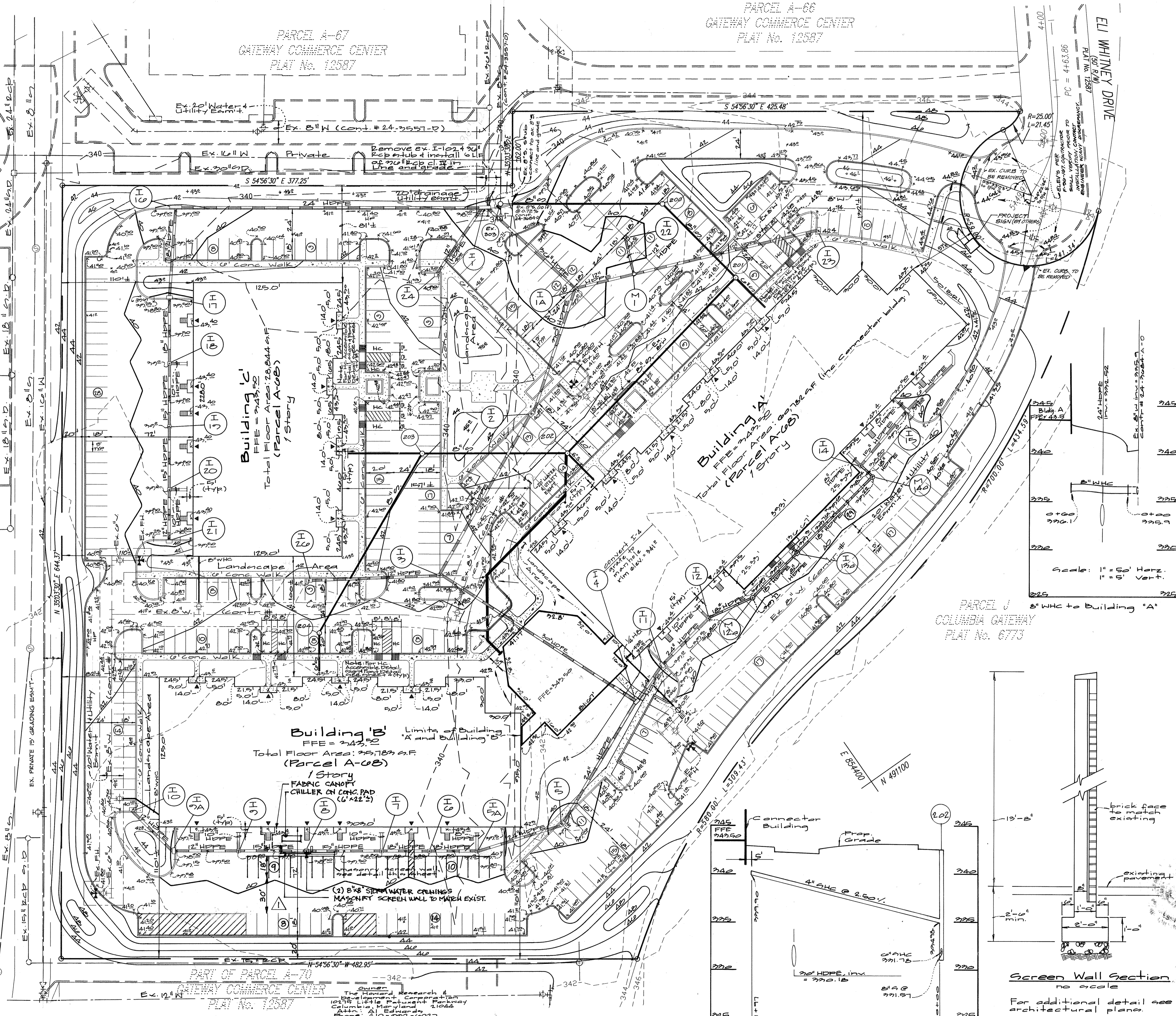
AS TO 8-20-18
PLAN REVISIONS

PROFESSIONAL
CERTIFICATION:
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THAT THESE DOCUMENTS
WERE PREPARED OR
APPROVED BY ME,
AND THAT I AM A
DULY LICENCED PRO-
FESSIONAL ENGINEER
UNDER THE LAWS OF
THE STATE OF MD.
LICENCE NO. PE 18848
EXP. DATE 9-19-20



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954 RIDGEBROOK RD., STE. 120, SPARKS, MD. 21152
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WWW.MATISWARFIELD.COM

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
Director: *Howard Kuster* Date: 6/23/98
Chief, Development Engineering Division: *Cathy Hammett* Date: 6/23/98
Chief, Development Engineering Division: *Michael M. K...* Date: 6/17/98



Screen Wall Section
no scale
For additional detail see
architectural plans.

GLW GUTSCHICK LITTLE & WEBER, P.A.
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
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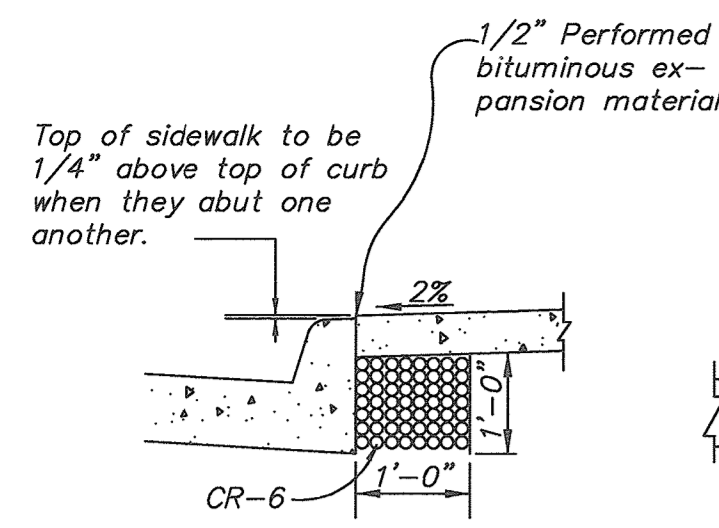
DATE	REVISION	BY	APP'R.
8-20-18	REV. PARKING SPACE LAYOUT, REAR OF BUILDING 'B' A	MKI	
3/24/18	ADD SCREEN WALL, CHILLER AND CANOPY (PER CELL)	J.S.U.	
7/18/07	rev. parking space layout behind connector building, convert I-4 to manhole	J.A.W.	
3/4/02	Add connector building to build as 1/2" rev. sewer & profile	J.M.M.	
2/1/02	rev. Bldg. A footprint and storm drain run from I-12 to I-14	J.M.M.	
1/12/00	rev. I-2 location per field check & add green wall	J.M.M.	

PREPARED FOR:
GATEWAY 58 PARTNERSHIP
7165 COLUMBIA GATEWAY DRIVE
COLUMBIA, MARYLAND 21046
ATTN: COLE SCHNORF
PHONE: (410) 290-1400

Site Development Plan
GATEWAY COMMERCE CENTER
PARCEL A-68
6th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE	ZONING	G. L. W. FILE No.
1" = 40'	M-1	98011
DATE	TAX MAP No.	SHEET
5/6/98	42443	2 of 11

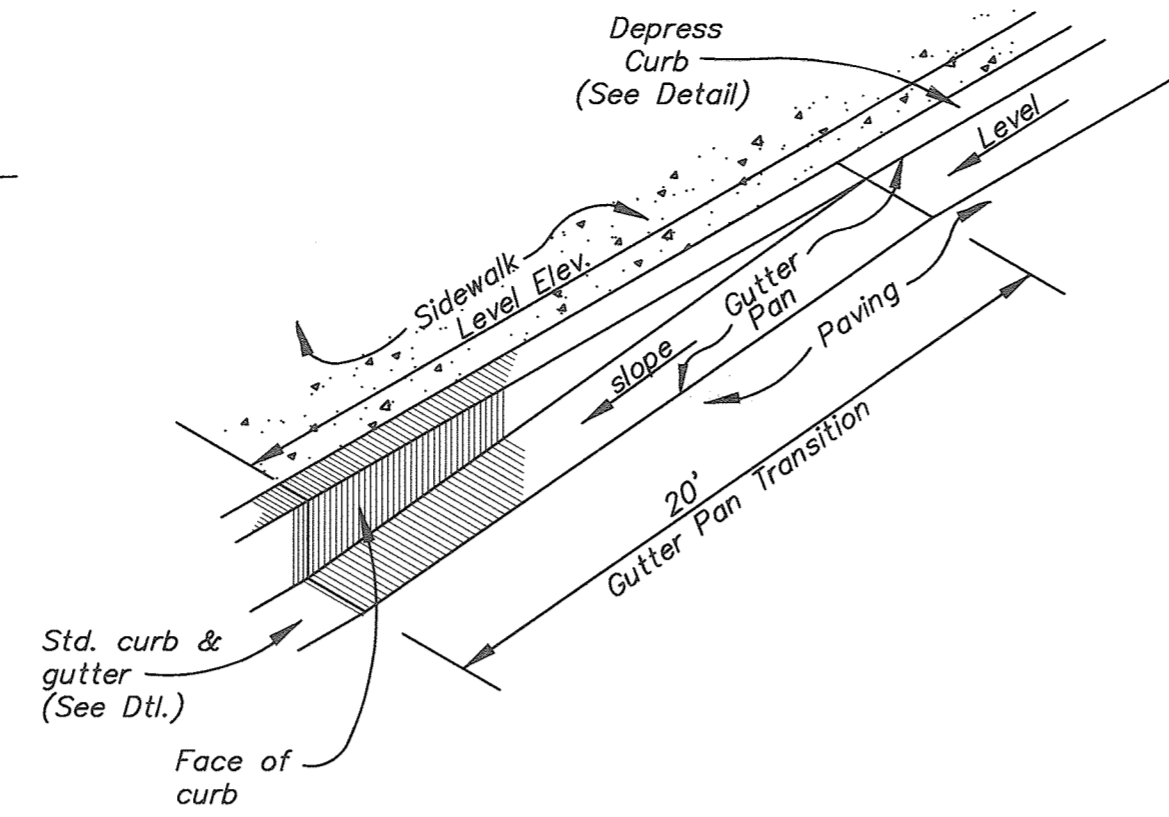
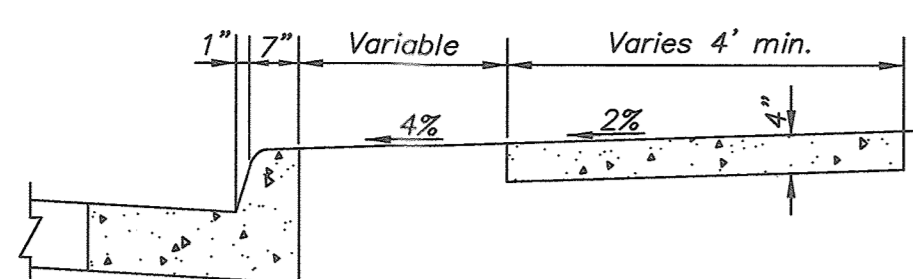
56P 98-108



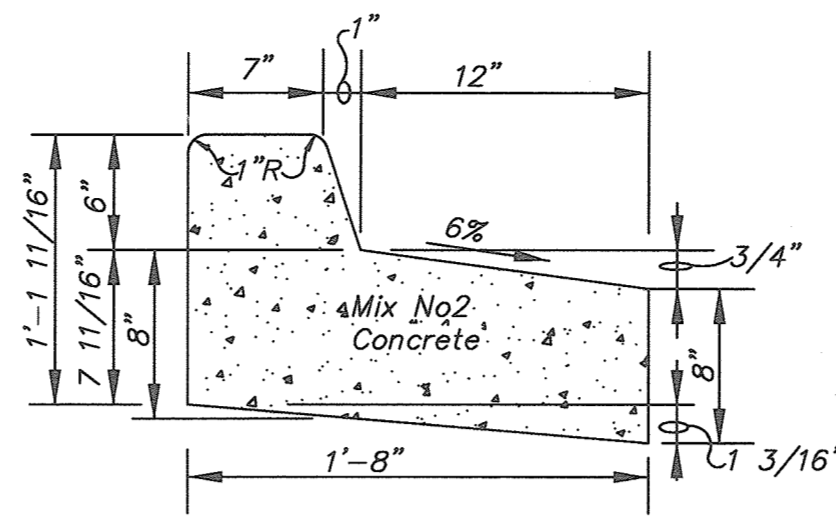
Detail A

Notes:

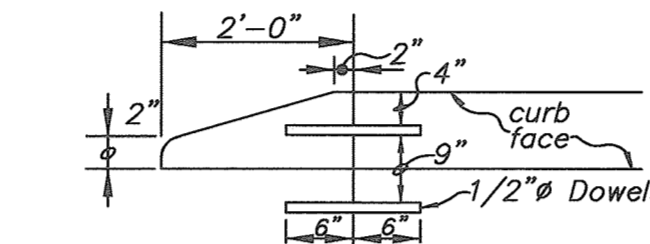
- Sidewalk to be scribed in 5' maximum squares.
- Expansion joints across the sidewalk not to be more than 15' apart.
- 1/2" preformed bituminous expansion material in expansion joints to be kept 1/4" below surface of sidewalk.
- Concrete to be mix No.2
- When sidewalk abuts curb, walk shall be 1/4" above curb with preformed bituminous expansion material between sidewalk and curb and resting on a compacted crushed stone base. See detail A this sheet.
- On longitudinal sidewalk grades of 5% or greater, a concrete header, 6" thick and 6" deep below the normal 4" sidewalk thickness shall be constructed for the full width of the sidewalk at intervals of 48'. The headers shall be placed at expansion joint locations and shall be monolithic with the sidewalk.



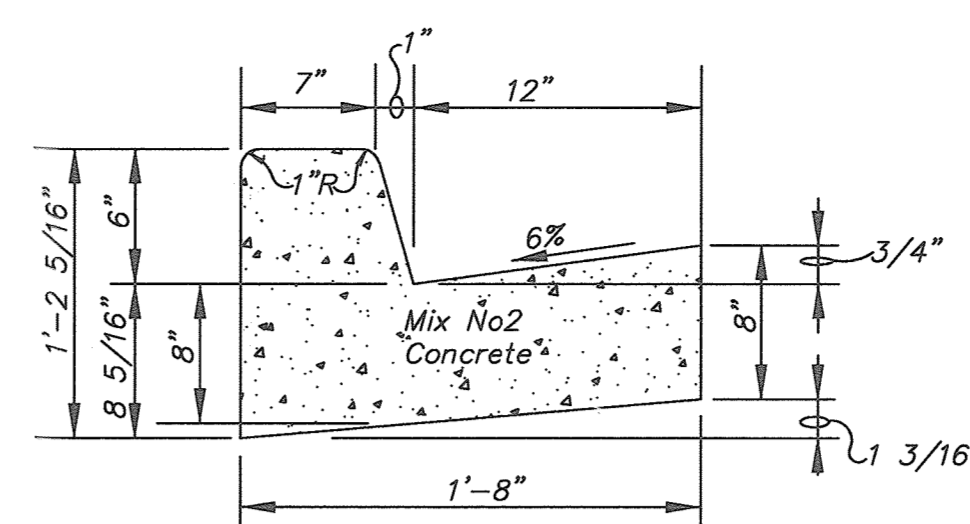
Gutter Transition - Isometric
N.T.S.



Reverse 6" Combination Curb & Gutter
N.T.S.

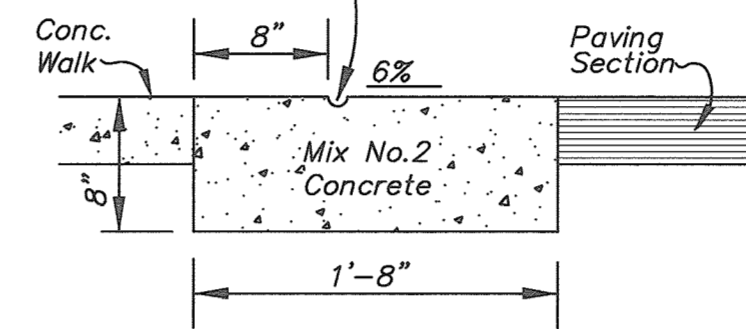


Nose Down Curb Detail
N.T.S.



Standard 6" Combination Curb & Gutter
N.T.S.

Continuous score joint from curb transition to curb transition.

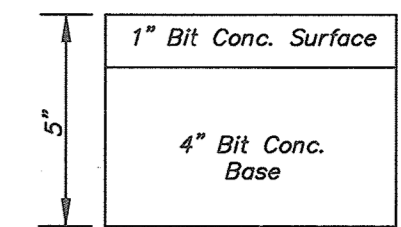


Depressed Curb Entrance
N.T.S.

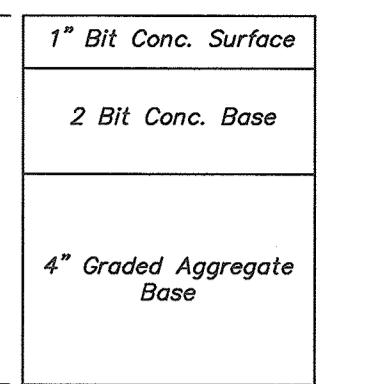
Section Number

P-1

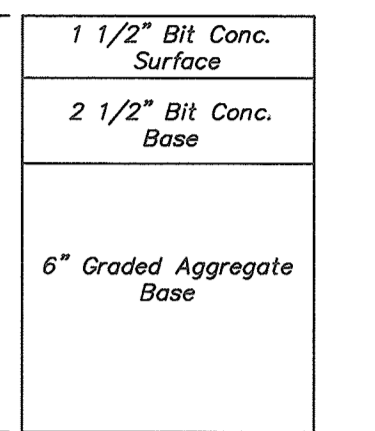
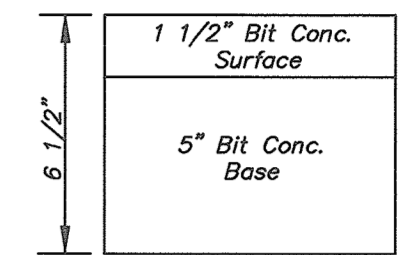
Full Depth Bit. Conc. Alternate



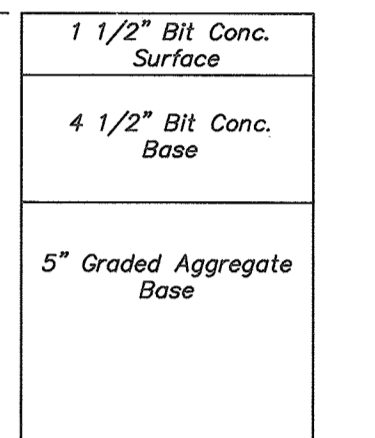
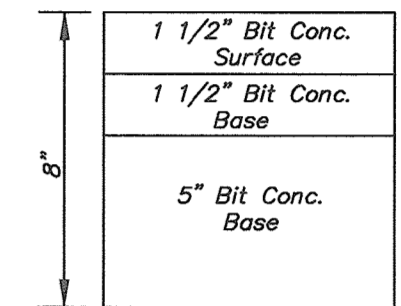
Granular Base Alternates



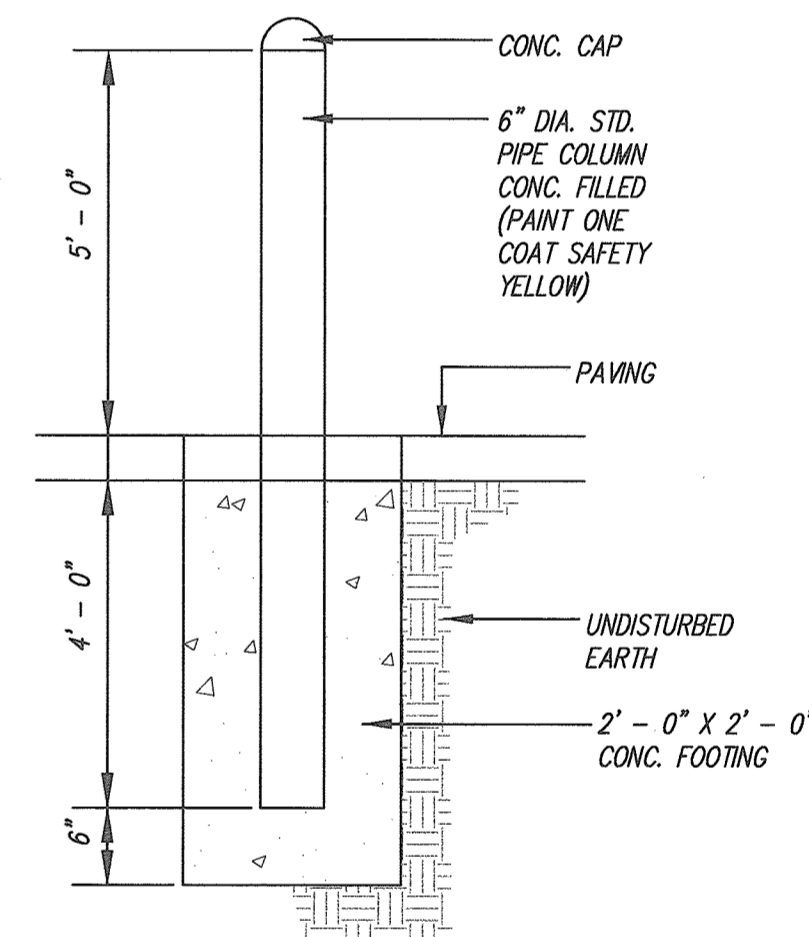
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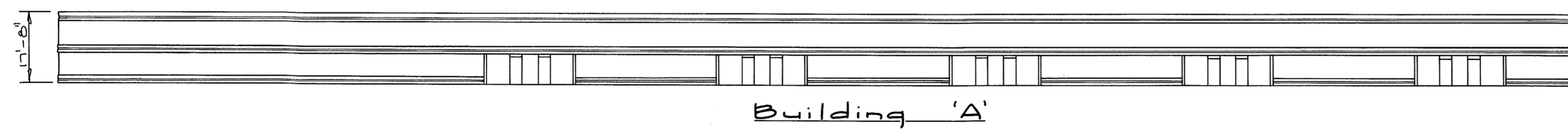
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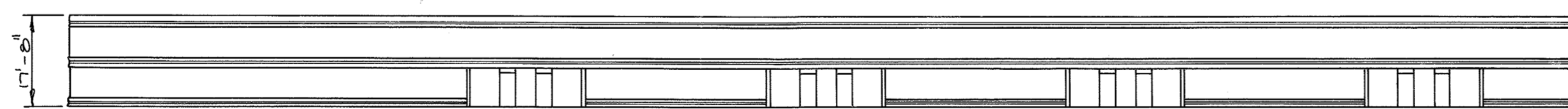
Paving Sections
N.T.S.



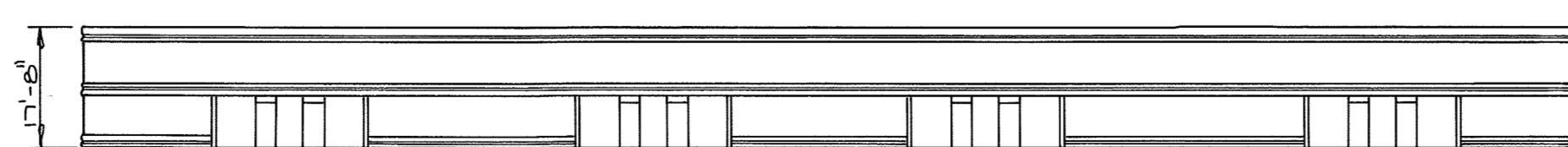
BOLLARD DETAIL
N.T.S.



Building 'A'



Building 'B'

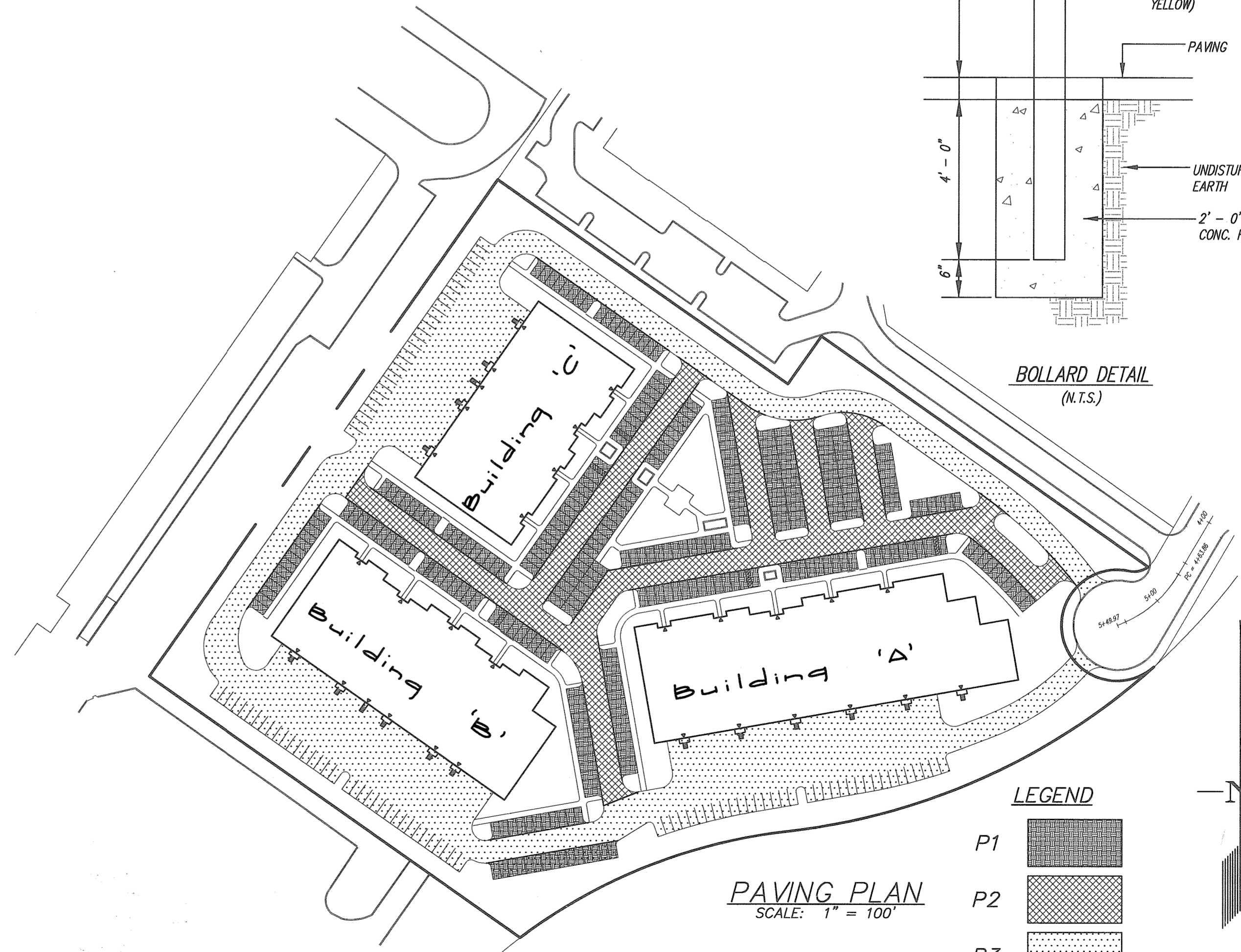


Building 'C'
Front Elevations
N.T.S.



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

Director: *Paul R. ...* Date: 6/23/98
 Chief, Division of Land Development: *Cindy Hamatta* Date: 6/23/98
 Chief, Development Engineering Division: *Mike ...* Date: 6/17/98



PAVING PLAN
SCALE: 1" = 100'

LEGEND

- P1 [Pattern]
- P2 [Pattern]
- P3 [Pattern]

GLW GUTSCHICK 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 BAL: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186

PREPARED FOR:
 GATEWAY 58 PARTNERSHIP
 7165 COLUMBIA GATEWAY DRIVE
 COLUMBIA, MARYLAND 21046
 ATTN: COLE SCHNORF
 PHONE: (410) 290-1400

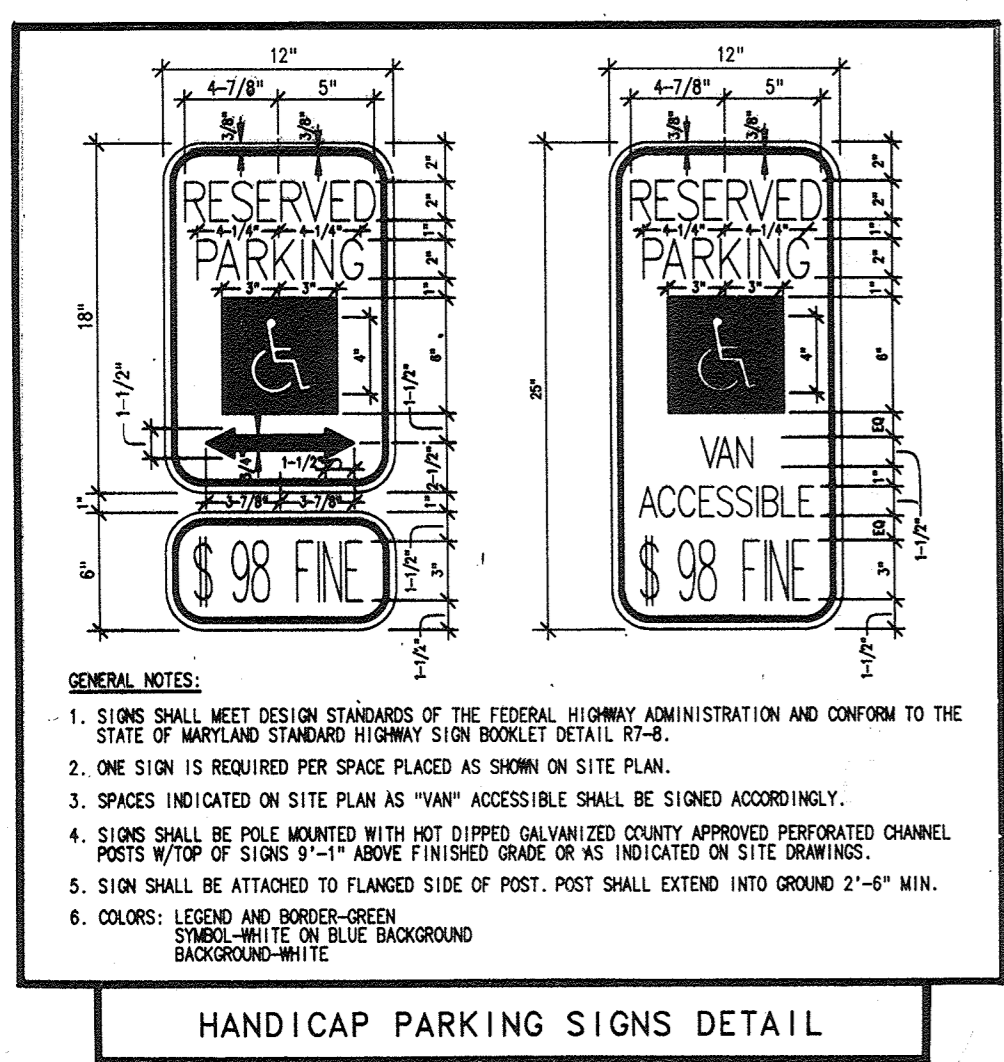
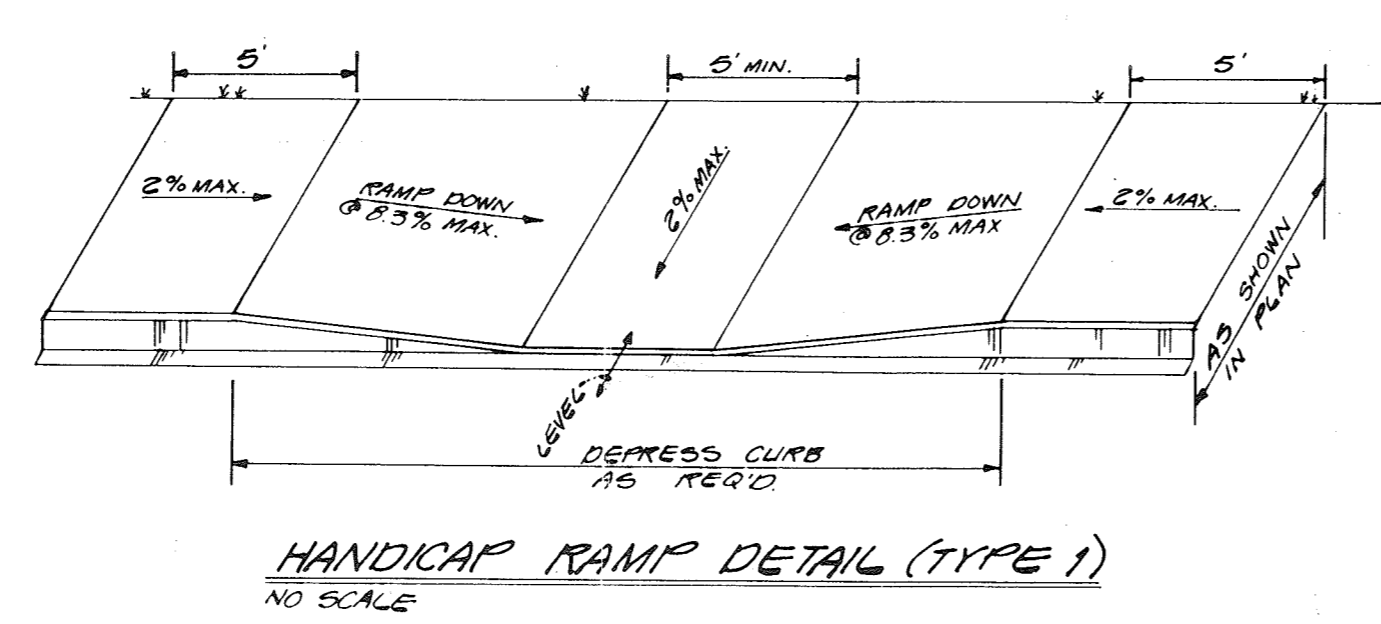
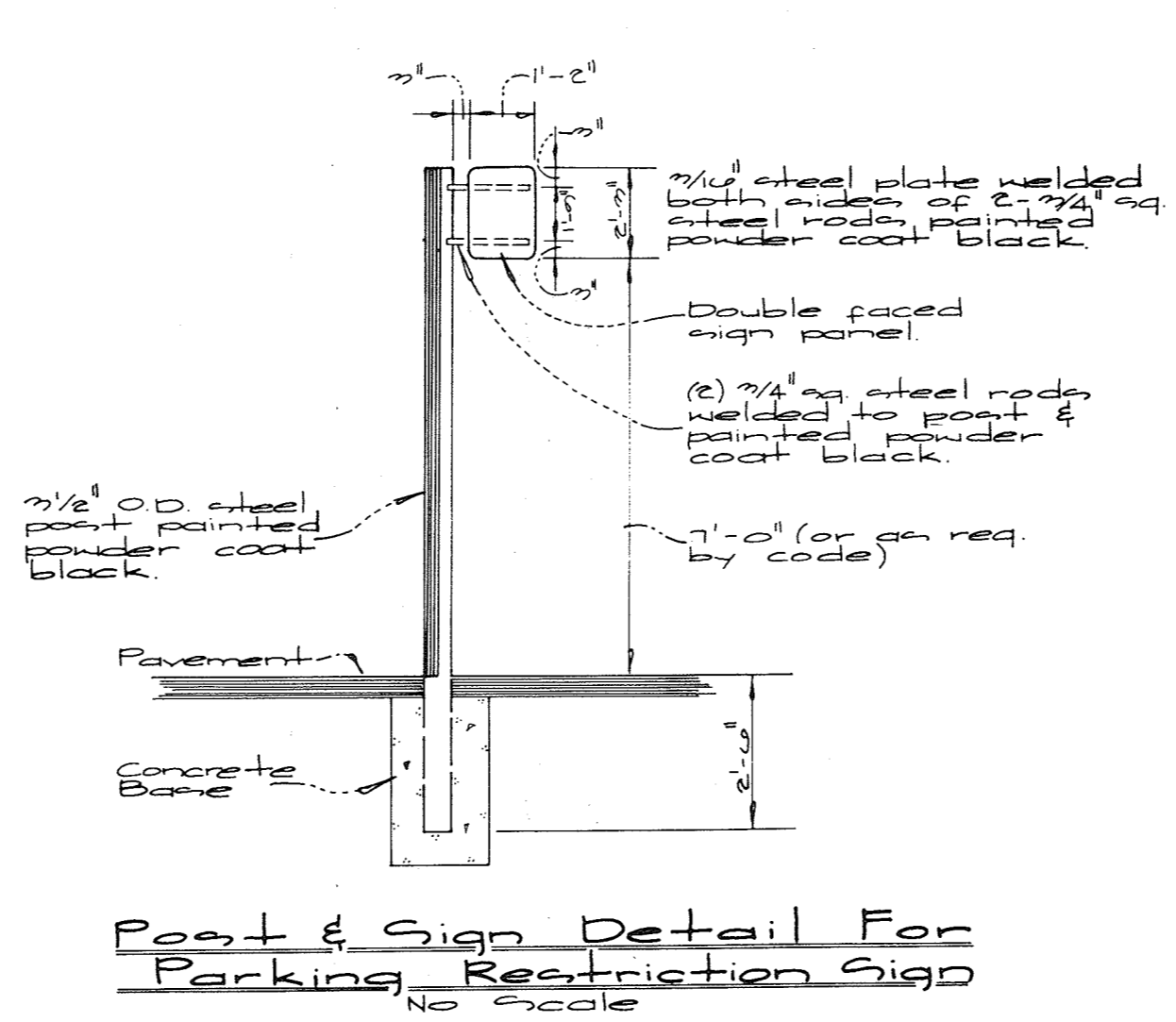
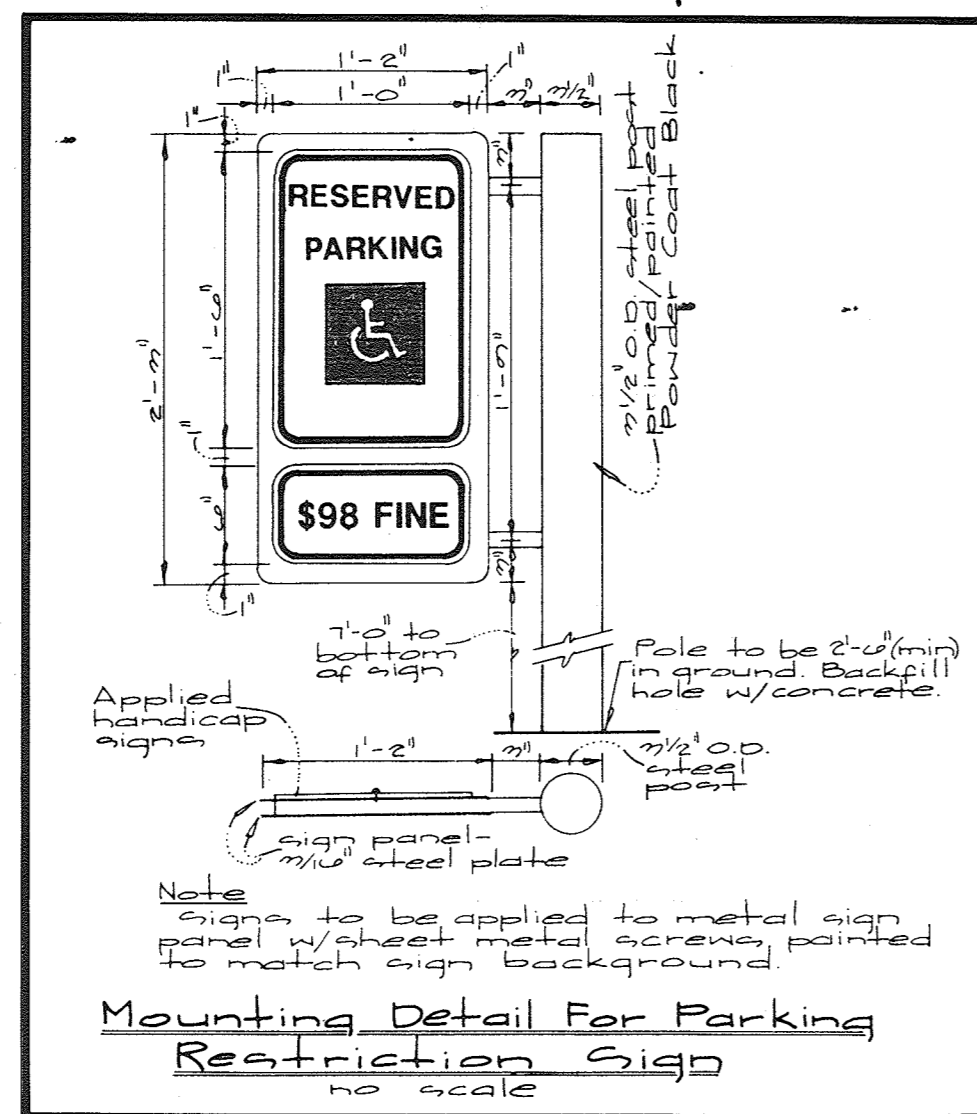
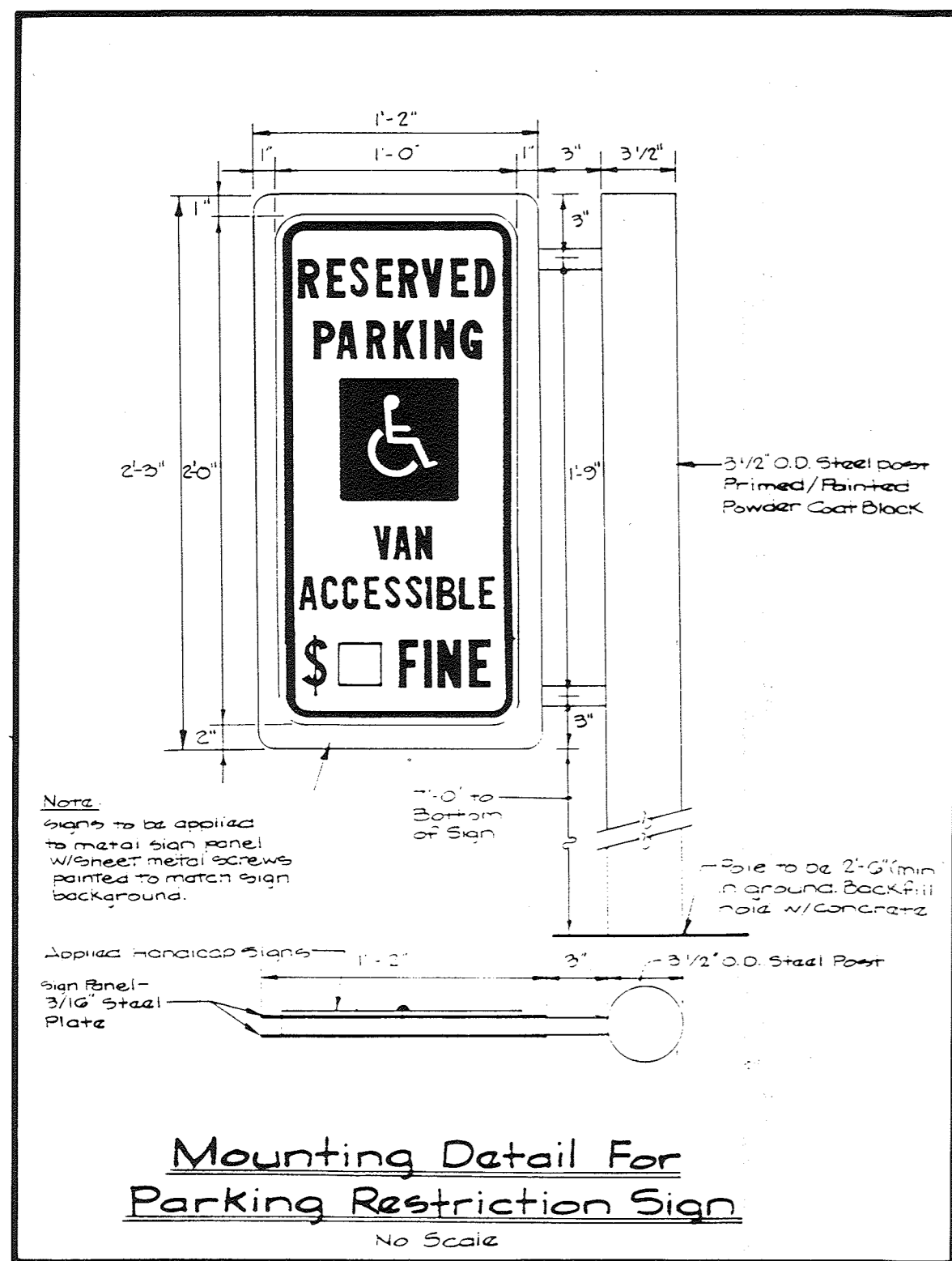
OWNER:
 THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
 10275 LITTLE PATUXENT PARKWAY
 COLUMBIA, MD 21044
 ATTN: AL EDWARDS
 (410) 992-6027

Site Details / Paving Plan
GATEWAY COMMERCE CENTER
 PARCEL A-68

6th ELECTION DISTRICT

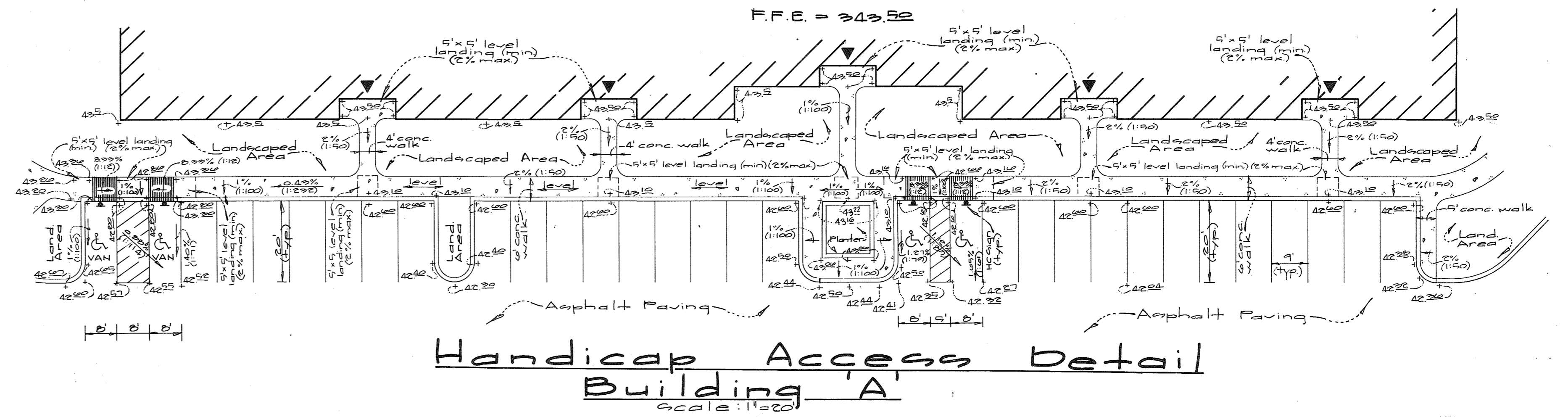
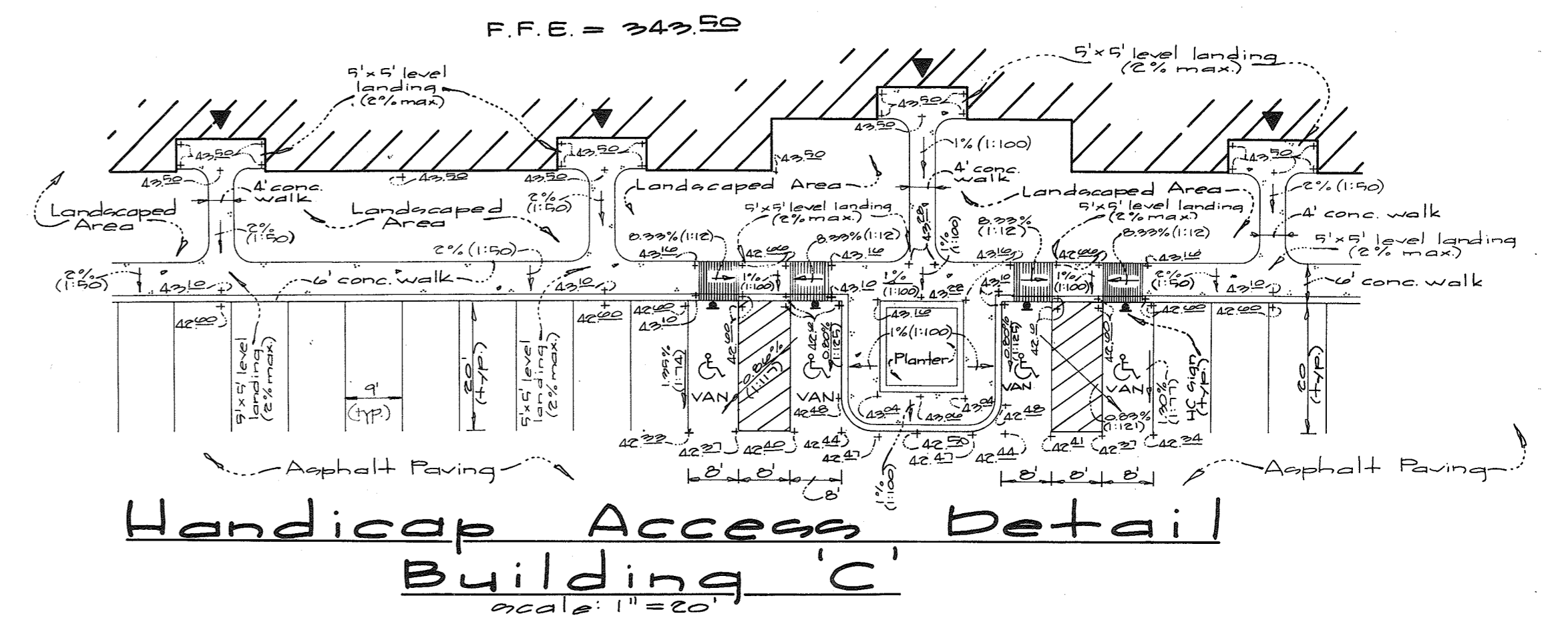
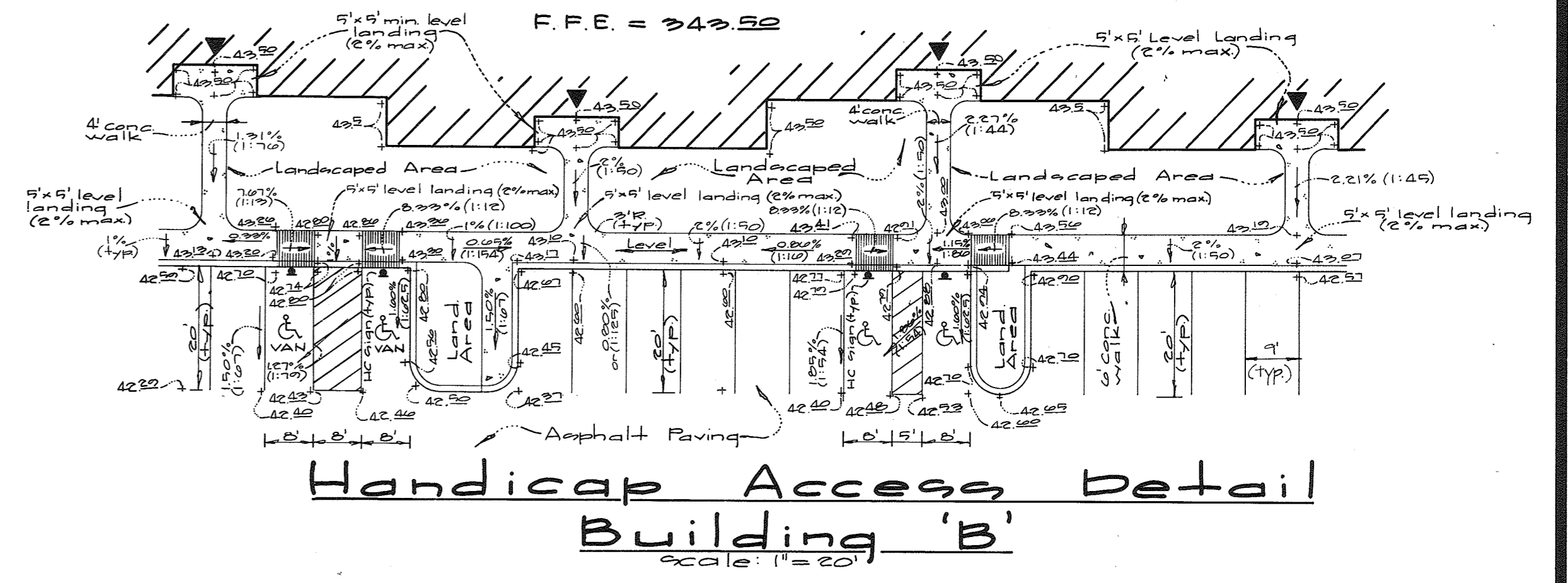
SCALE AS SHOWN	ZONING M-1	G. L. W. FILE No. 98011
DATE 5/6/98	TAX MAP No. 42443	SHEET 3 of 11

SDP 98.108



- GENERAL NOTES:**
- SIGNS SHALL MEET DESIGN STANDARDS OF THE FEDERAL HIGHWAY ADMINISTRATION AND CONFORM TO THE STATE OF MARYLAND STANDARD HIGHWAY SIGN SPECIFICATION DETAIL 1994.
 - ONE SIGN IS REQUIRED PER SPACE PLACED AS SHOWN ON SITE PLAN.
 - SPACES INDICATED ON SITE PLAN AS "VAN" ACCESSIBLE SHALL BE SIGNED ACCORDINGLY.
 - SIGNS SHALL BE POLE MOUNTED WITH HOT DIPPED GALVANIZED COUNTY APPROVED PERFORATED CHANNEL POSTS W/TOP OF SIGNS 9"-1" ABOVE FINISHED GRADE OR AS INDICATED ON SITE DRAWINGS.
 - SIGN SHALL BE ATTACHED TO PLANGED SIDE OF POST. POST SHALL EXTEND INTO GROUND 2'-6" MIN.
 - COLORS: LEGEND AND BORDER-GREEN; SYMBOL-WHITE ON BLUE BACKGROUND; BACKGROUND-WHITE.

- SEQUENCE OF CONSTRUCTION**
- Obtain grading permit and arrange on-site pre-construction meeting with Sediment Control Inspector. 1 day
 - Install stone construction entrance and silt fence as shown on these plans. 2 days
 - Remove existing 1-102 and existing 36" stub. Install 1-1 and connect 36" RCP to existing storm drain. Install sediment trap, earth dikes and temporary swales. 5 days
 - Construct water and sewer from existing stubs to the buildings. Install all storm drain runs except the following: 4 weeks
 - 1-1A to 1-1 (Install 25 lf of HDPE & 55 lf flexible plastic pipe discharged to bottom of trap)
 - 1-16 to 1-1 (Install 190 lf of HDPE & 70 lf flexible plastic pipe discharged to bottom of trap)
 - 1-24 to 1-1.
 - Final grade site. 2 weeks
 - Construct buildings. 7 months
 - Install curb & gutter, sidewalk and base paving except in areas near the sediment trap. Stabilize all remaining areas with grass, seed and mulch. 2 weeks
 - When areas draining to sediment control devices have been stabilized and permission is granted from the Sediment Control Inspector, flush storm drain system. Seed and mulch all remaining areas. 3 days
 - Install surface paving. 1 week
 - Install landscaping. 1 week
 - Remove any remaining sediment controls. 1 day



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

[Signature] 6/23/98
Date

[Signature] 6/23/98
Date

[Signature] 6/17/98
Date

OWNER
The Howard Research & Development Corporation
10275 Little Patuxent Parkway
Columbia, Maryland 21044
Attn: Al Edwards
410-992-0057

PROFESSIONAL ENGINEER
DAVID S. WEBER
STATE OF MARYLAND
6/8/98

GLW GUTSCHICK LITTLE & WEBER, P.A.
CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS
3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MD 20866
TELEPHONE: (301)421-4024 NO VA (301)989-2524 BALTO. (301)880-1820 FAX (301)421-4186

DATE	REVISION	BY	APP'R.

PREPARED FOR:
GATEWAY 58 PARTNERSHIP
7165 COLUMBIA GATEWAY DRIVE
COLUMBIA, MARYLAND 21046
ATTN: COLE SCHNORF
PHONE: (410) 290-1400

Handicap Access Details
GATEWAY COMMERCE CENTER
PARCEL A-68
6th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

DES.:	SCALE	ZONING	G.L.W. FILE No.
	As shown	M-1	98011
DRN.:	DATE	TAX MAP No.	SHEET
VE	5/6/98	42443	4 of 11
CHK.:			

SDP 98-108

PLANT MATERIALS AND PLANTING METHODS

A. Plant Materials

The landscape contractor shall furnish and install all and/or dig, ball, burlap and transport all of the plant materials called for on drawings and/or listed in the Plant Schedule.

- Plant Names**
Plant names used in the Plant Schedule shall conform with "Standardized Plant Names," latest edition.
- 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 Society of Nurserymen (thereafter referred to as "ANS 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 well-developed root systems. They shall be free of disease, insect pests and mechanical injuries.

- Plant Measurements**
All plants shall conform to the measurements specified in the Plant Schedule as approved by the ARC.
- Caliper Measurements**
Caliper measurements shall be taken six inches (6") above grade for trees under twelve (12") in caliper and four inches (4") in caliper and over.
- Minimum Branching Height**
Minimum branching height for all trees shall be six feet (6'), maximum eight feet (8').
- Minimum Size for Planting**
Minimum size for planting shade trees shall be 3-3/4" caliper, 14'-16" in height.
- Minimum Size for Planting Minor or Intermediate Focus Trees**
Minimum size for planting minor or intermediate focus trees (pines, crabapples, etc.) shall be 3-3/4" caliper, 10'-12" in height.
- Minimum Size for Planting Shrubs**
Minimum size for planting shrubs shall be 18" x 24" spread unless noted otherwise.
- Caliper, Height, Spread and Size of Ball**
Caliper, height, spread and size of ball shall be generally as follows:

CALIPER	HEIGHT	SPREAD	SIZE OF BALL
3" - 3 1/4"	14' - 16'	6' - 8'	32" diameter
3 1/4" - 4"	14' - 16'	8' - 10'	36" diameter
4" - 4 1/4"	16' - 18'	8' - 10'	40" diameter
4 1/4" - 5"	16' - 17'	10' - 12'	44" diameter
5" - 5 1/4"	16' - 20'	10' - 12'	48" diameter
5 1/4" - 6"	16' - 20'	12' - 14'	52" diameter

- Plant Identification**
Legible labels shall be attached to all shade trees, minor trees, specimen shrubs and bushes or boxes of other plant material giving the botanical and common names, size and quantity of each. Each shipment of plants shall bear certification of inspection as required by Federal, State and County authorities.
- Plant Inspection**
The ARC 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 following:

- 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 ground is frozen or excessively moist. No frozen or wet topsoil shall be used at any time.
- Digging**
All plant material shall be dug, balled and burlapped (B&B) in accordance with the "ANS Standards".
- 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 covers and vines shall be excavated to at least 12" in depth minimum.

D. Diameter and Depth of Tree Pits

shall generally be as follows:

PLANT SIZE	ROOT BALL	DIAMETER	DEPTH
3" - 3 1/4" cal.	32"	64"	28"
3 1/4" - 4" cal.	36"	72"	32"
4" - 4 1/4" cal.	40"	80"	36"
4 1/4" - 5" cal.	44"	88"	40"
5" - 5 1/4" cal.	48"	96"	44"
5 1/4" - 6" cal.	52"	104"	48"

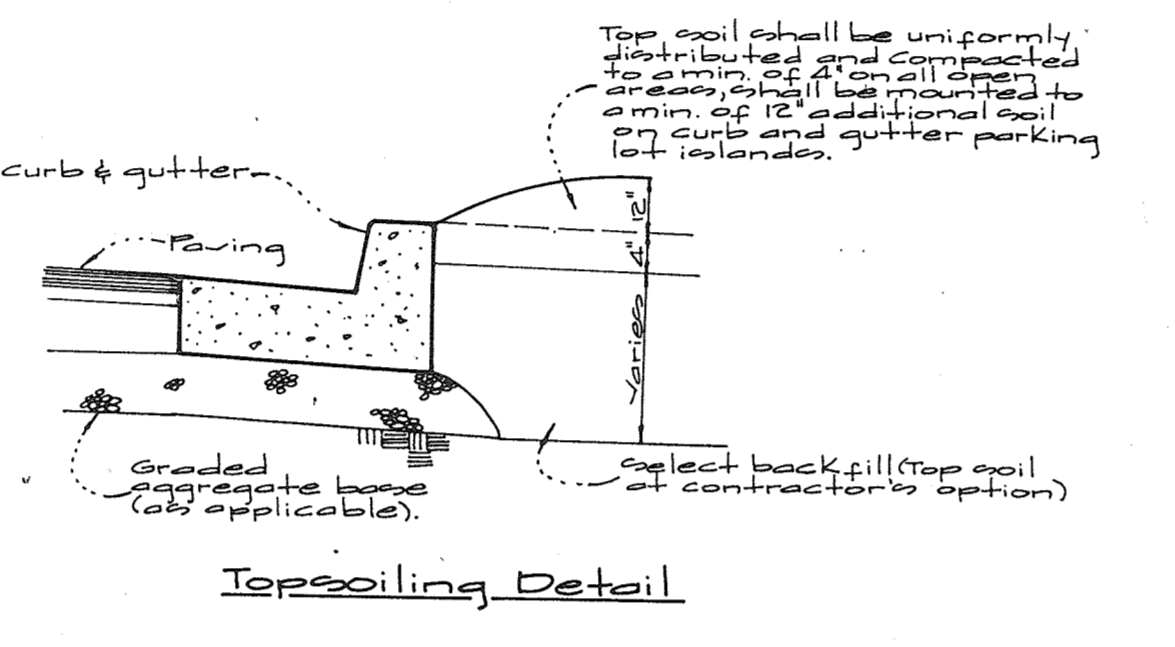
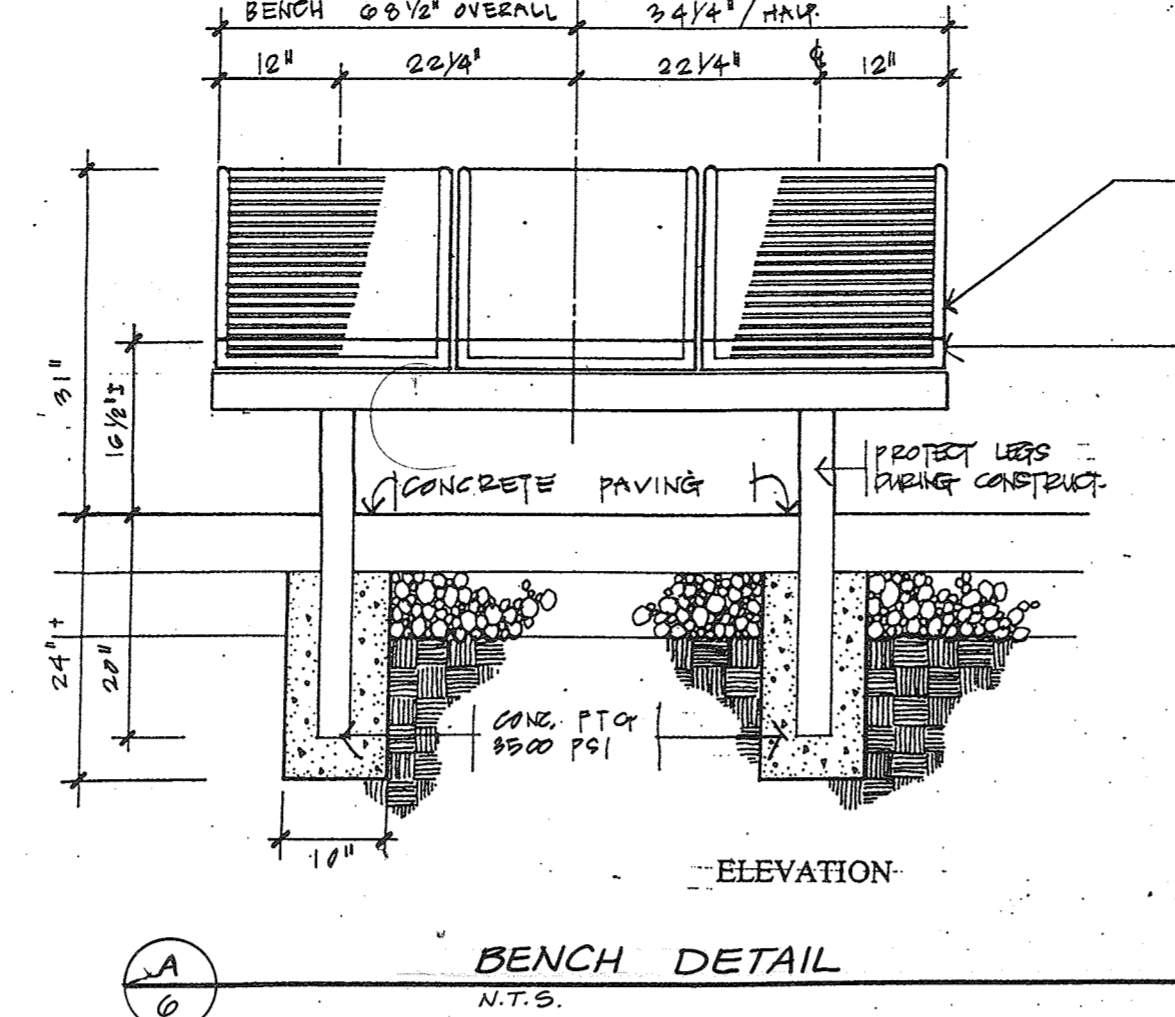
- Staking, Guying and Wrapping**
All plant material shall be staked or guyed, and wrapped in accordance with the following specifications:
a. Stakes: Shall be sound wood 2" x 2" rough sawn oak or similar durable woods, or lengths, minimum 7'-0" for major trees and 5'-0" minimum for minor trees.
b. Wire and Cable: Wire shall be #10 galv. galvanized or bethanzined 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 "Ball'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 "Typical Tree Guying Detail".

Plant Pruning, Edging and Mulching

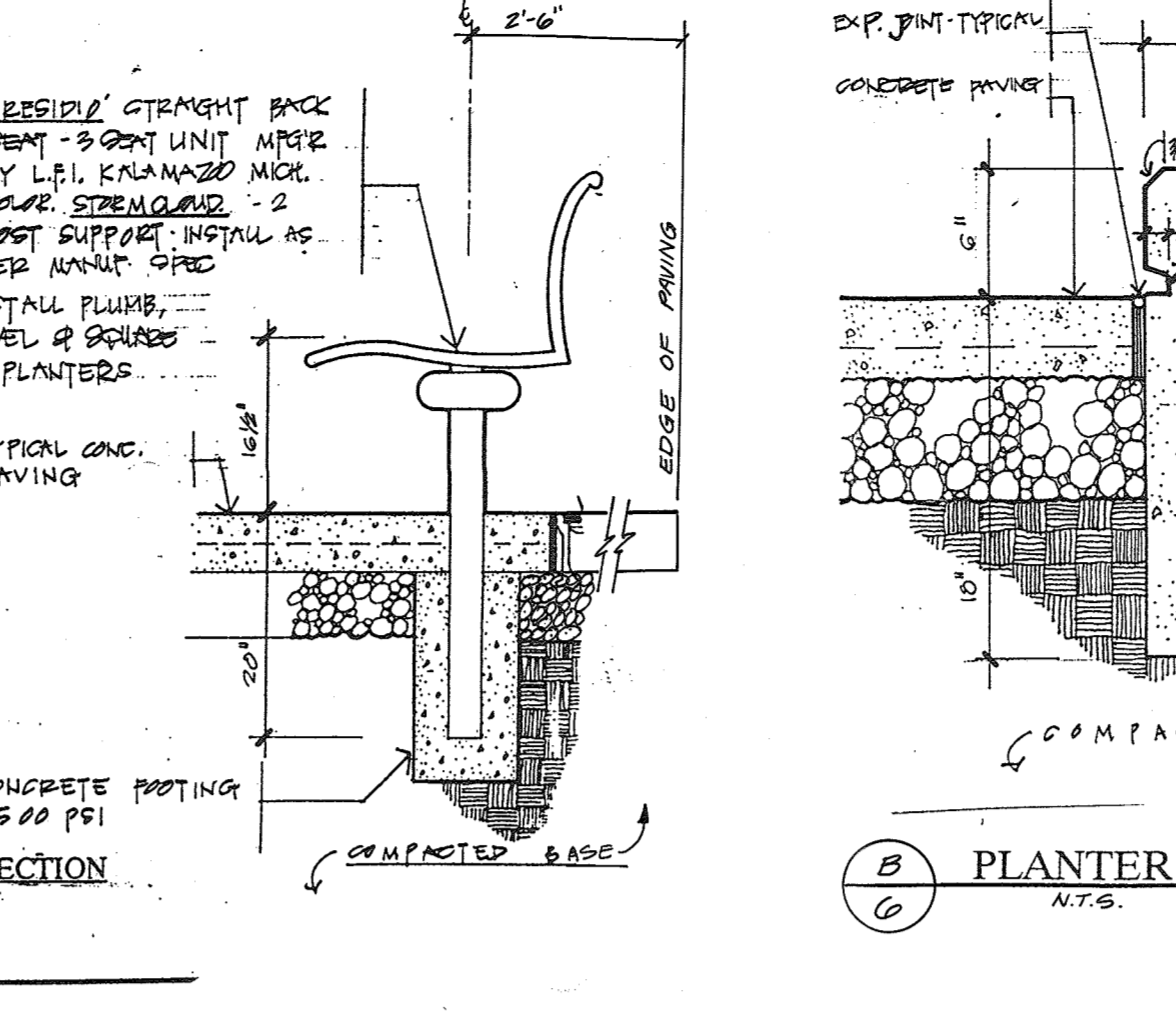
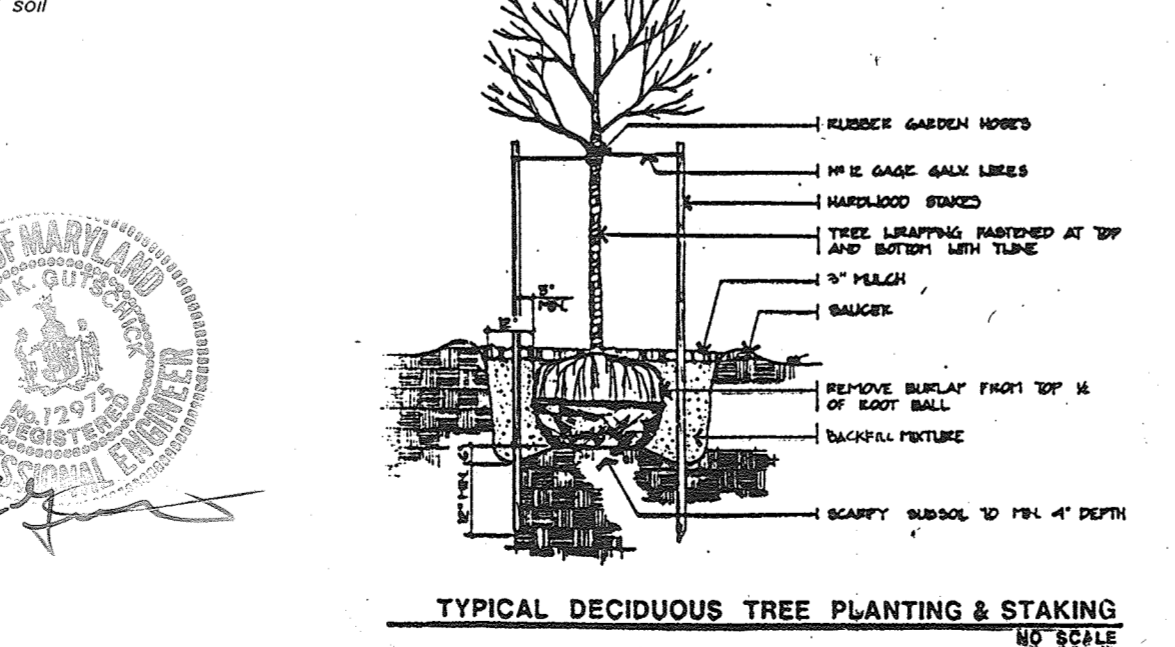
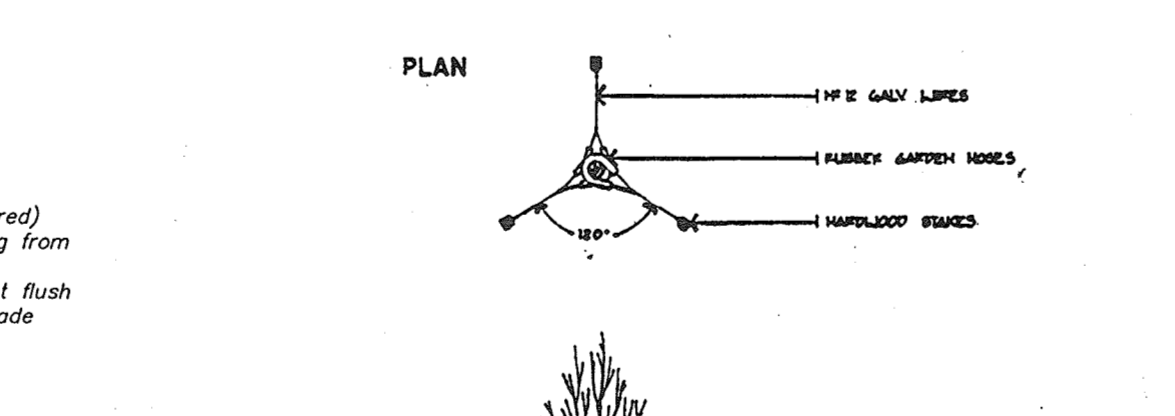
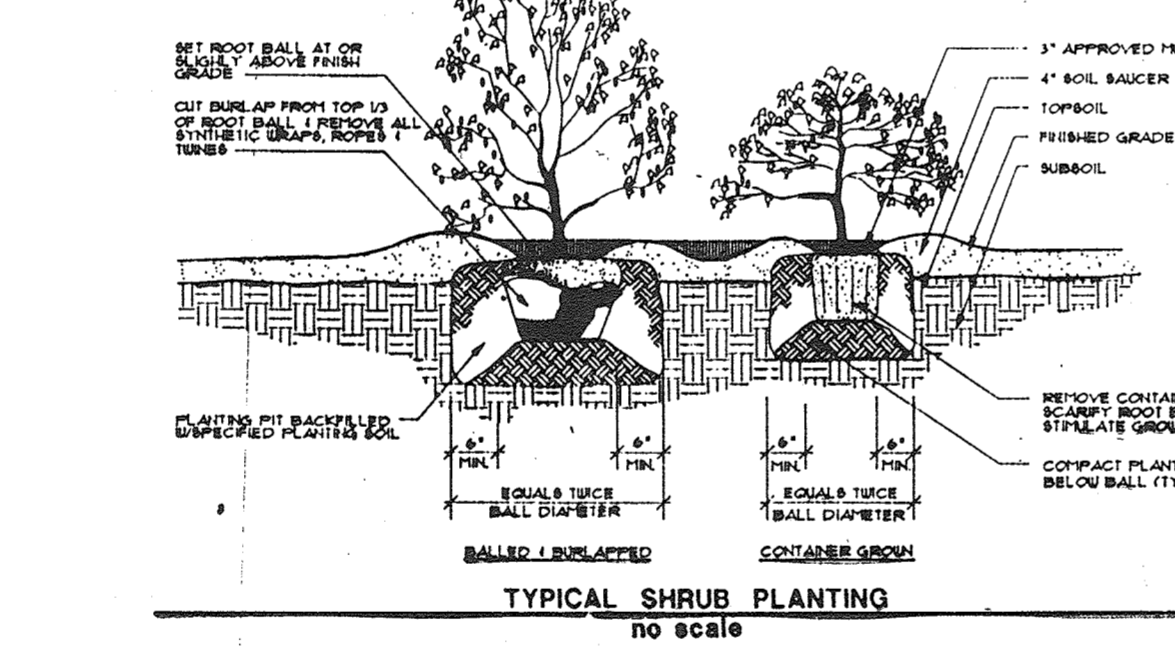
- Each tree, shrub or vine shall be pruned in an appropriate manner to its particular requirements, in accordance with accepted standard practices. Broken or bruised branches shall be removed with clean cuts flush with the adjacent trunk or branches. All cuts over 1/2" in diameter shall be painted with 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 installed plants shall be edged and cultivated to the full diameter of the pit. Sod which has been removed and stacked shall be used to the edge of all excavated areas to the neat lines of the plant pit saucers, the edges of landscape areas, hedge trenches and vine pockets.**
- After cultivation, all plant materials shall be mulched with a 2" layer of fine, shredded pine bark, peat moss, or another approved material over the entire area of the bed or saucer.**
- Plant Inspection and Acceptance**
The ARC 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.

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, Victoria, or Escort.

- 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.**
- 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.**
- 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 depth minimum.**



Materials:
Top soil shall be a loam, sandy loam, clay loam, silt loam, sandy clay loam, loamy sand or other soil as approved by an Agronomist or soil scientist. It shall not have a mixture of contrasting textured stones, clay coarse fragments, gravel, sticks, roots, trash or other extraneous materials larger than 1/2" in dia. Top soil must be free of plants or plant parts of Bermuda grass, quack grass, johnson grass, nutgrass, poison ivy, thistles, or others as specified. All top soil shall be tested by a recognized laboratory for organic matter content, pH and soluble salts. A pH of 6.0 to 7.5 and an organic content than 6.0% shall be specified and incorporated with the top soil to adjust the pH to 6.5 or higher. Top soil containing soluble salts greater than 500 per million shall not be used.



SCHEDULE A PERIMETER LANDSCAPE EDGE

CATEGORY	ADJACENT TO ROADWAYS	ADJACENT TO PERIMETER PROPERTIES
LANDSCAPE TYPE	B	N/A
LINEAR FEET OF ROADWAY FRONTAGE/PERIMETER	253-50 for DW = 213	
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	NONE	
CREDIT FOR WALL, FENCE OR BERM (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	NONE	
NUMBER OF PLANTS REQUIRED	4	5
SHADE TREES		
EVERGREEN TREES		
SHRUBS		
NUMBER OF PLANTS PROVIDED	Alternative Compliance per HRD's Standards.	
SHADE TREES		
EVERGREEN TREES		
OTHER TREES (2:1 SUBSTITUTION)		
SHRUBS (10:1 SUBSTITUTION)		
(DESCRIBE PLANT SUBSTITUTION CREDITS BELOW IF NEEDED)		

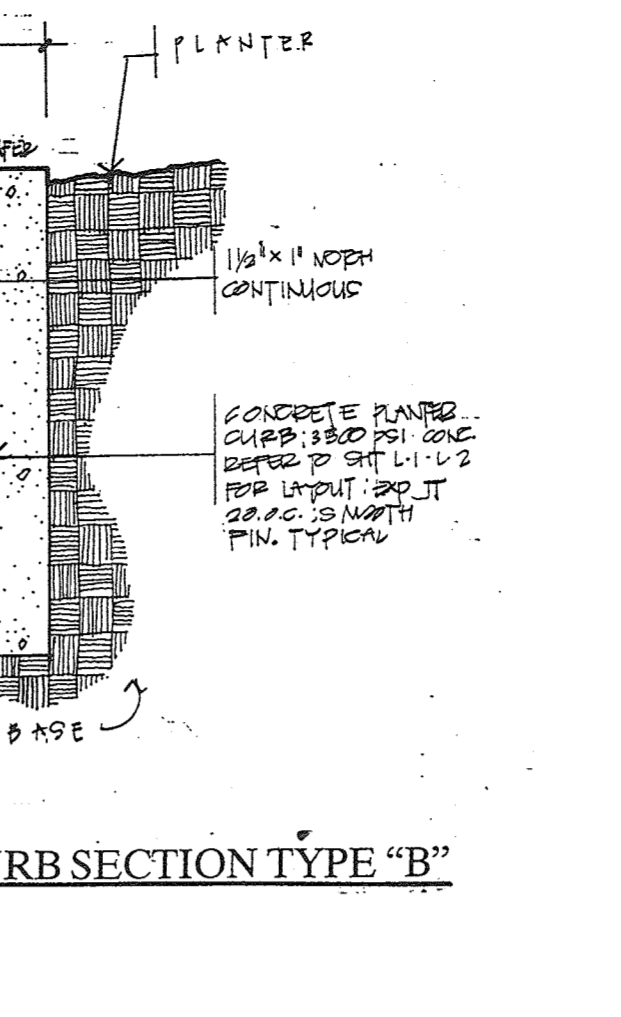
SCHEDULE B PARKING LOT INTERNAL LANDSCAPING

CATEGORY	ADJACENT TO ROADWAYS	ADJACENT TO PERIMETER PROPERTIES
NUMBER OF PARKING SPACES	412	
NUMBER OF TREES REQUIRED	@ 1 per 20 spaces = 21	
NUMBER OF TREES PROVIDED	Alternative Compliance per HRD's Standards.	
SHADE TREES		
OTHER TREES (2:1 SUBSTITUTION)		

Schedule "A" Number of Trees for bonding: 21 x 100 = \$2,100.00

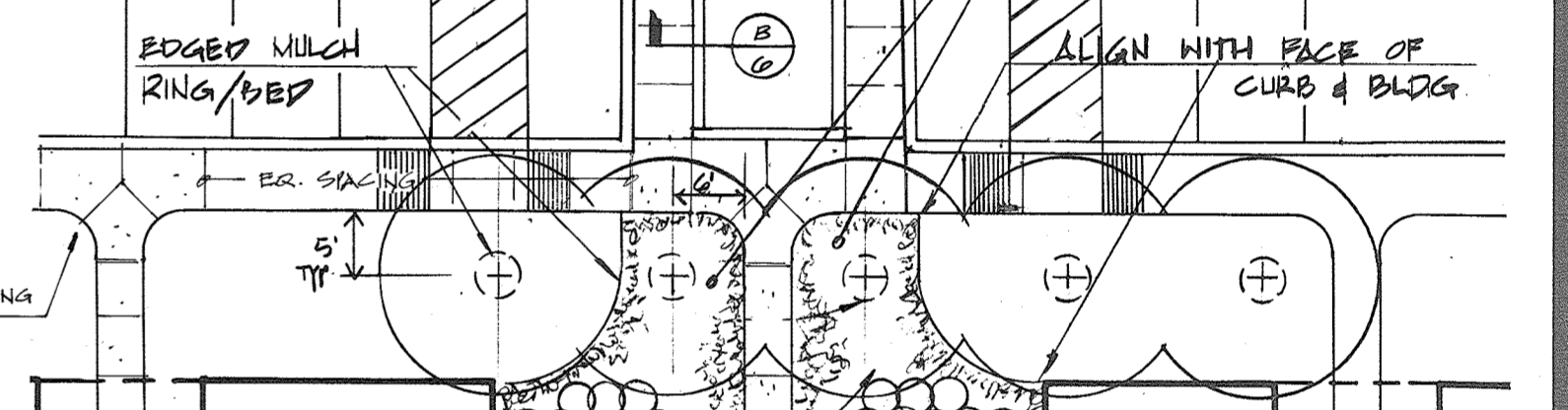
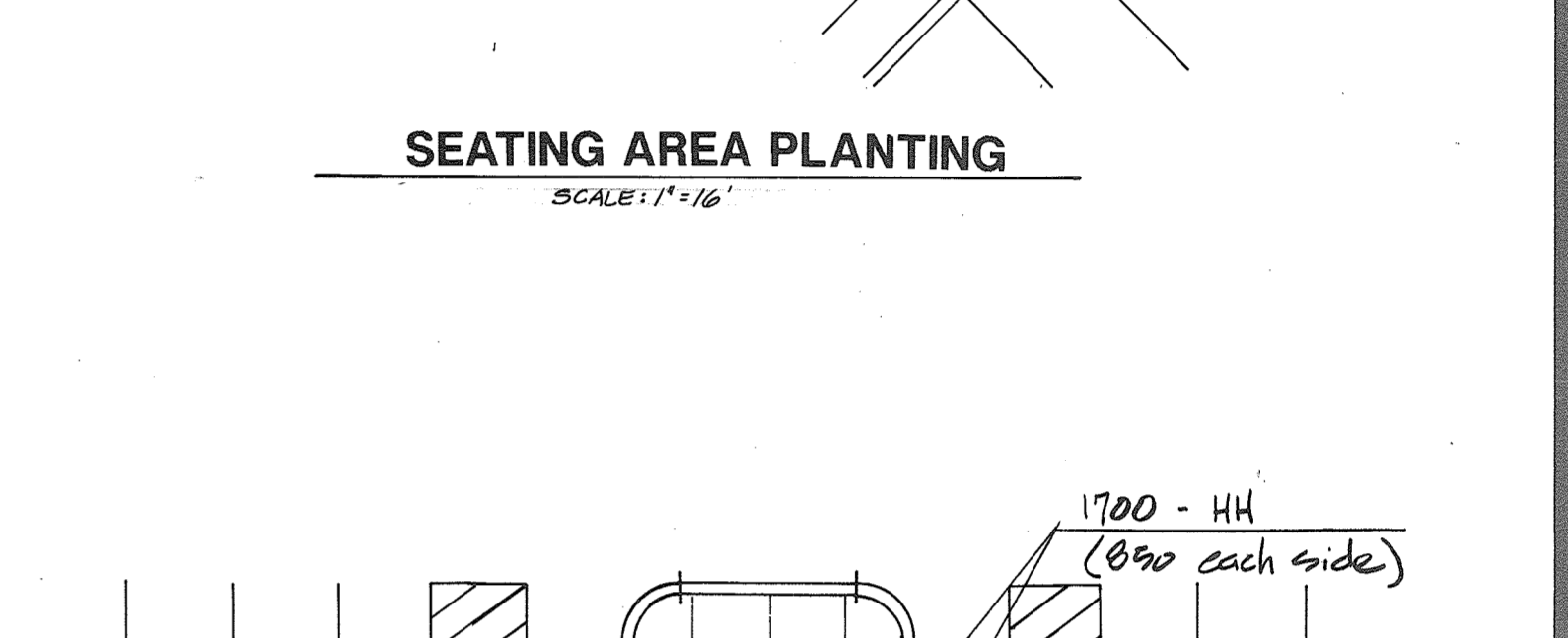
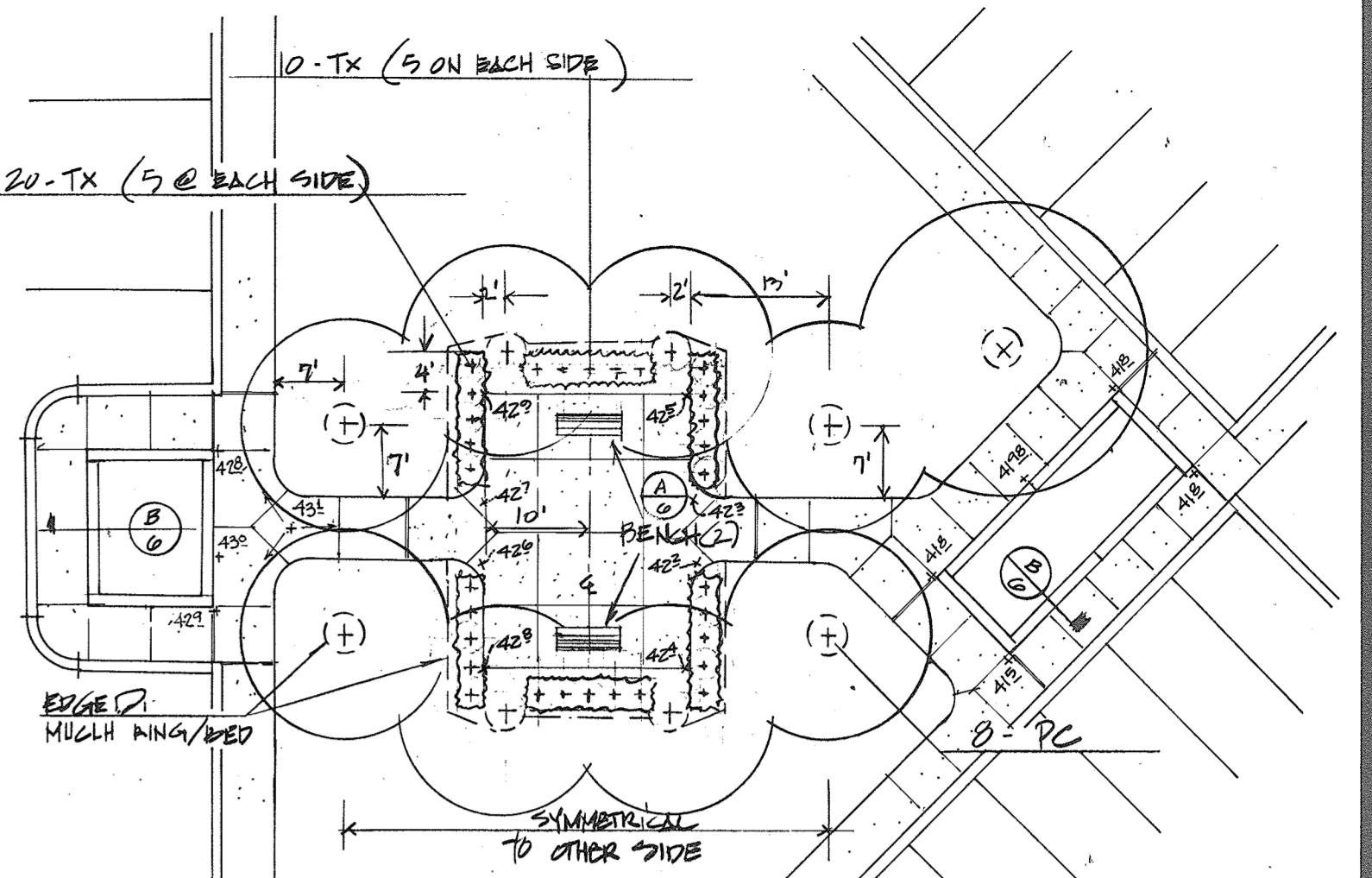
Schedule "B" Number of Trees for bonding: 21 x 100 = \$2,100.00

KEY	QUANT.	NAME COMMON/BOTANICAL	PLANT LIST	COMMENTS
AR	20	Armstrong Red Maple/Acer rubrum "Armstrong"	2 1/2" Cal., 12-14' Ht.	
C	34	Crownpoint Pin Oak/Quercus palustris "Crownpoint"	2 1/2" Cal., 12-14' Ht.	
ZS	61	Village Green Zelkova/Zelkova serrata "Village Green"	2 1/2" Cal., 12-14' Ht.	
EVERGREEN TREES				
BROADLEAF				
MG	11	Southern Magnolia/Magnolia grandiflora	2 1/2" Cal., 12-14' Ht.	Plant 12' min. from back of curb
CONIFEROUS				
PA	36	Norway Spruce/Picea abies	8-10' Ht.	Five are 10' min. Ht.
PO	12	Serbian Spruce/Picea omorika	10' Ht. min.	
PP	17	Colorado Spruce-Green/picea pungens	10' Ht. min.	
PS	67	Eastern White Pine/Pinus strobus	8-10' Ht.	
ORNAMENTAL FLOWERING TREES				
AC	12	Autumn Brilliance Serviceberry/Amelanchier arborea "Autumn Brilliance"	2 1/2" Cal., 8-10' Ht.	Tree form
MZ	10	Zumi Crabapple/Malus zumi "Calocarpa"	2 1/2" Cal., 10' Ht. min.	
PC	8	Thundercloud Plum/Prunus cerasifera "Thundercloud"	2 1/2" Cal., 10' Ht. min.	
PS	9	Accolade Cherry/Prunus x subhirtella "Accolade"	2 1/2" Cal., 8-10' Ht. min.	
PY	7	Yoshino Cherry/Prunus yedoensis	2 1/2" Cal., 10' Ht. min.	
SHRUBS AND GROUND COVERS				
AZHC	30	Hino Crimson Azalea/Rhododendron obtusum "Hino Crimson"	24" min.; #5 Cont.	Plant at 3' o.c.
AZHR	30	Hershey's Red Azalea/Rhododendron obtusum "Hershey's Red"	24" min.; #5 Cont.	Plant at 3' o.c.
TX	20	Rondeletia New/Passiflora media "Rondeletia"	24" min.; #5 Cont.	Plant at 30" o.c.
HH	3500	English Ivy/Hedera helix	Flat; 2 1/2" pots	Plant at 9" o.c.



LANDSCAPING NOTES

- This plan has been prepared in accordance with Section 16.13 of the Howard County Code and Chapter VI Alternative Compliance of the Howard County Landscaping Manual.
- Contractor shall notify all utilities at least 21 days before starting work. All General Notes, especially those regarding utilities, on Sheet 1 shall apply.
- Contractor shall notify the utility companies before starting plant work. Contact owner or his representative if any restrictions are required.
- Plant quantities shown on Plant 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.
- All plant material shall be full, heavy, well formed, and symmetrical, and conform to the A.A.A. Specifications, and be installed in accordance with general specifications.
- No substitution shall be made without written consent of the owner or his representative.
- All areas disturbed by construction activities but not otherwise planted, seeded, or mulched shall be seeded or seeded in accordance with Section 16.13 of the Howard County Code and Chapter VI Alternative Compliance of the Howard County Landscaping Manual.
- The contractor shall notify the owner in writing if he/she encounters soil drainage conditions which may be detrimental to the growth of the plants.
- All exposed earth within limits of planting beds shall be mulched with shredded hardwood mulch per Planting Guide.
- "Schedule A - Perimeter Landscape Edge" and "Schedule B - Parking Lot Internal Landscaping" is provided for landscape survey collection purposes only. PRINCIPAL QUANTITY FOR THE RECORD LANDSCAPING SHALL BE REPORTED AS PART OF THE DPA DEVELOPER'S SUBMITTAL IN THE AMOUNT OF \$ 5000.00. (SUBJECT TO LANDSCAPING SHOW).
- Required planting by HRD for 10.12.14.01 HRD use at 20 trees per 1000 sq ft (1000 sq ft = 214 shade trees for example).
- Planting provided: shade trees 150, evergreen trees 150, shrubs 150, ground covers 150. (E.S.T. 42 = 23 E.S.T. 127 = 815 E.S.T. 215 E.S.T.)
- E.S.T. - Equipment Shade Trees The labor of the above listed shade trees is provided by ground covers and ground covers.



PLANT LIST

KEY	QUANT.	NAME COMMON/BOTANICAL	PLANT LIST	COMMENTS
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HH	3500	English Ivy/Hedera helix	Flat; 2 1/2" pots	Plant at 9" o.c.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

Di. gator _____ Date 6/23/08

Chief, Division of Land Development _____ Date 6/23/08

Chief, Development Engineering Division MK _____ Date 6/17/08

OWNER:
THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
10275 LITTLE PATUXENT PARKWAY
COLUMBIA, MD 21044
ATTN: AL EDWARDS
(410) 992-6027

LANDSCAPE NOTES & DETAILS

PREPARED FOR:
GATEWAY 58 PARTNERSHIP
7165 COLUMBIA GATEWAY DRIVE
COLUMBIA, MARYLAND 21046
ATTN: COLE SCHNORF
PHONE: (410) 290-1400

DES.:	SCALE	ZONING	G.L.W. FILE No.
DRN.:	AS SHOWN	M-1	08-011
CHK.:	DATE	TAX MAP No.	SHEET
	5/6/08	42 & 43	6 OF 11

GW GUTSCHICK LITTLE & WEBER, P.A.
CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS
3909 NATIONAL DRIVE SUITE 250 BURTONSVILLE OFFICE PARK BURTONSVILLE, MD 20886
TELEPHONE: (301)421-4024 NO. VA. (301)989-2524 BALTO. (301)880-1820 FAX (301)421-4186

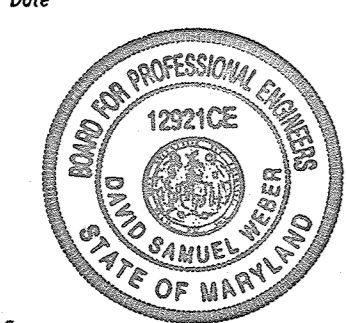
NO.	REVISION	BY	APPR.
1	4/2/08 re plant quantities	fmn	

DEVELOPER'S/BUILDER'S CERTIFICATE
 I/We certify that all development and/or 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 Maryland 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 HSCD.

R. C. G. G. 3/17/98
 Signature of Developer/Builder Date

ENGINEER'S CERTIFICATE
 I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.

David E. Weber 6/8/98
 Signature Date



These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements.
Paul Simmond 6/15/98
 Natural Resources Conservation Service Date

This Development Plan is approved for Soil Erosion and Sediment Control by the Howard Soil Conservation District.
John P. Robertson 6/15/98
 Howard S.C.D. Date

PART OF PARCEL A-70
 GATEWAY COMMERCE CENTER
 PLAT No. 12587

Trap Data

Before Dev. D.A.	0.9 Ac.
After Dev. D.A.	10.9 Ac.
Volume Required	307240
Volume Provided	41946 cf
Limit of Wet Storage (1800 cf/ac)	335.81
Limit of Dry Storage (20480 cf/ac)	338.27
Weir Crest Elevation (I-24)	338.27
Top of Dam Elevation	340.00
Inv. Draw Down Device	335.81
Bottom Elevation	332.00
Cleanout Elevation	333.01

Notes
 Since trap discharges into a closed system that drains to a regional SWM facility; temp SWM is not required for this site. SWM has been provided by F02-1001. This trap has been sized for 3000 cf/ac of storage.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
Paul B. Butler 6/23/98
 Director Date
Andy Hemmelt 6/23/98
 Chief, Division of Land Development Date
M. K. ... 6/17/98
 Chief, Development Engineering Division Date

GLW GUTSCHICK LITTLE & WEBER, P.A.
 CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
 3909 NATIONAL DRIVE - SUITE 250 - BURTONTOWN, MARYLAND 20866
 TEL: 301-421-4024 FAX: 301-421-4188

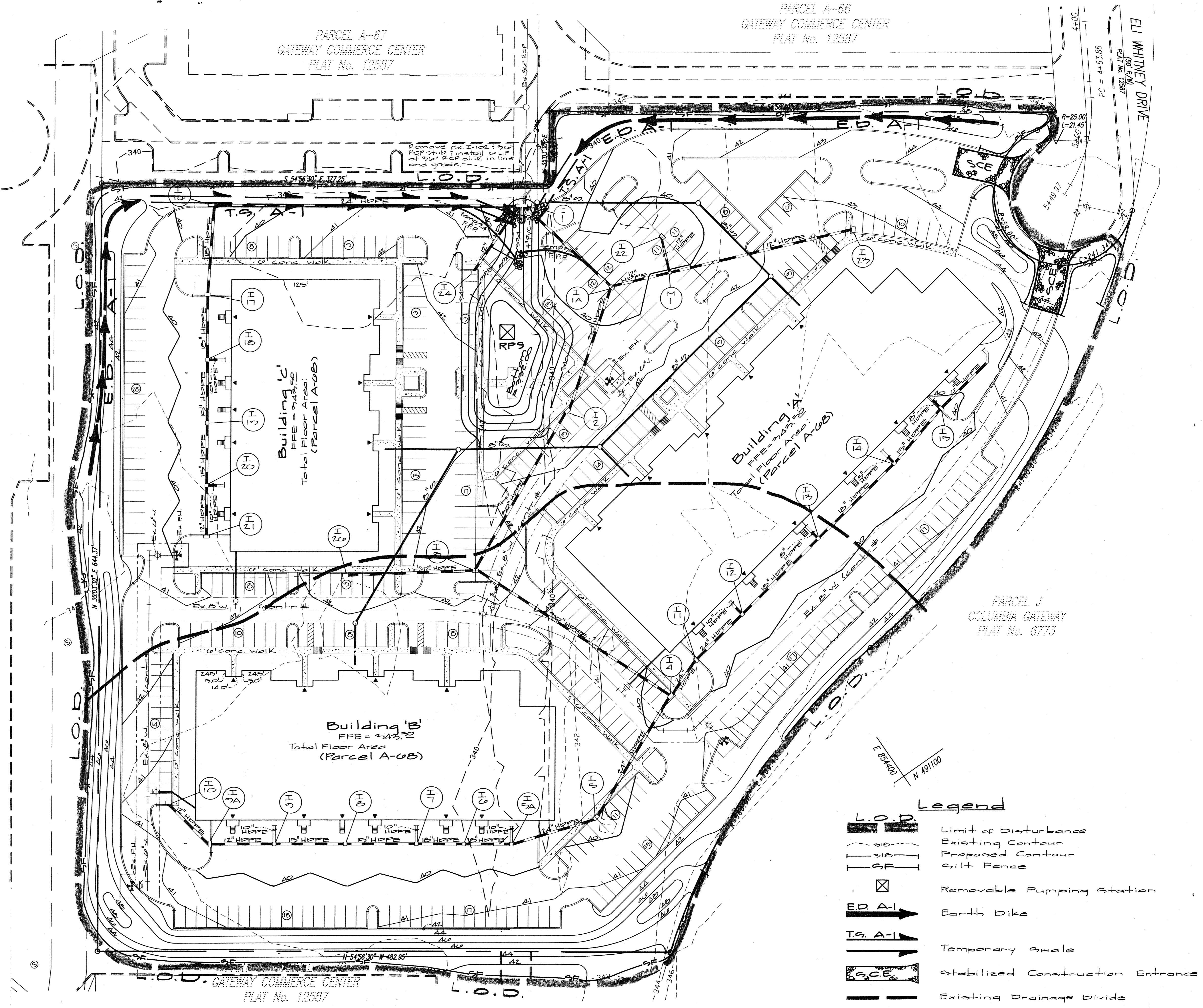
NO.	DATE	REVISION	BY	APP'R.

Prepared For
 Gateway 50 Partnership
 1105 Columbia Gateway Dr.
 Columbia, Maryland 21045
 Attn: Cole Schorn
 Phone: 410-292-1400

Owner
 The Howard Research & Development Corporation
 10275 Little Patuxent Parkway
 Columbia, Maryland 21044
 Attn: Al Edwards
 Phone: 410-292-6027

Sediment Control Plan
GATEWAY COMMERCE CENTER
 PARCEL A-68
 Election District No. ...

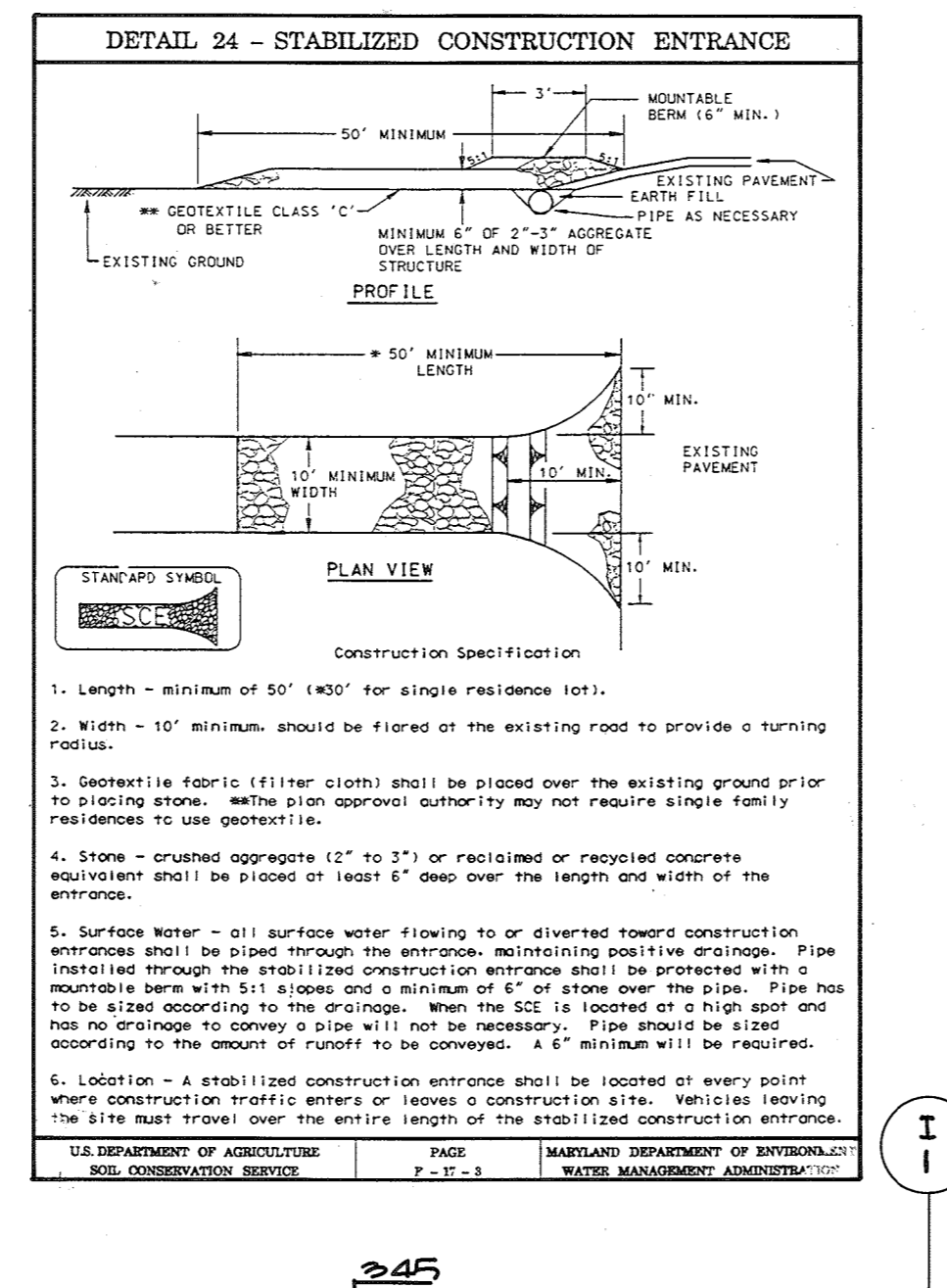
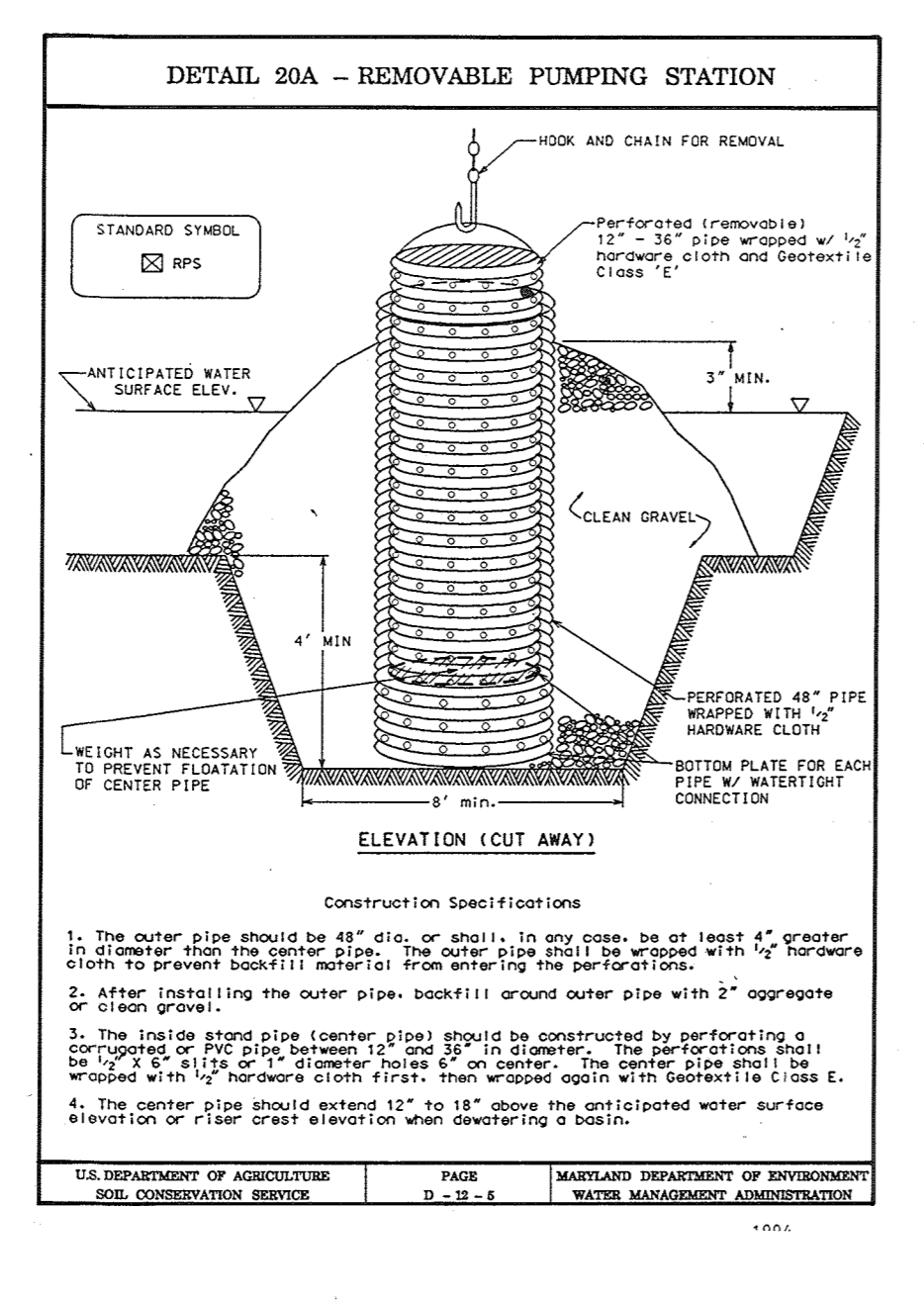
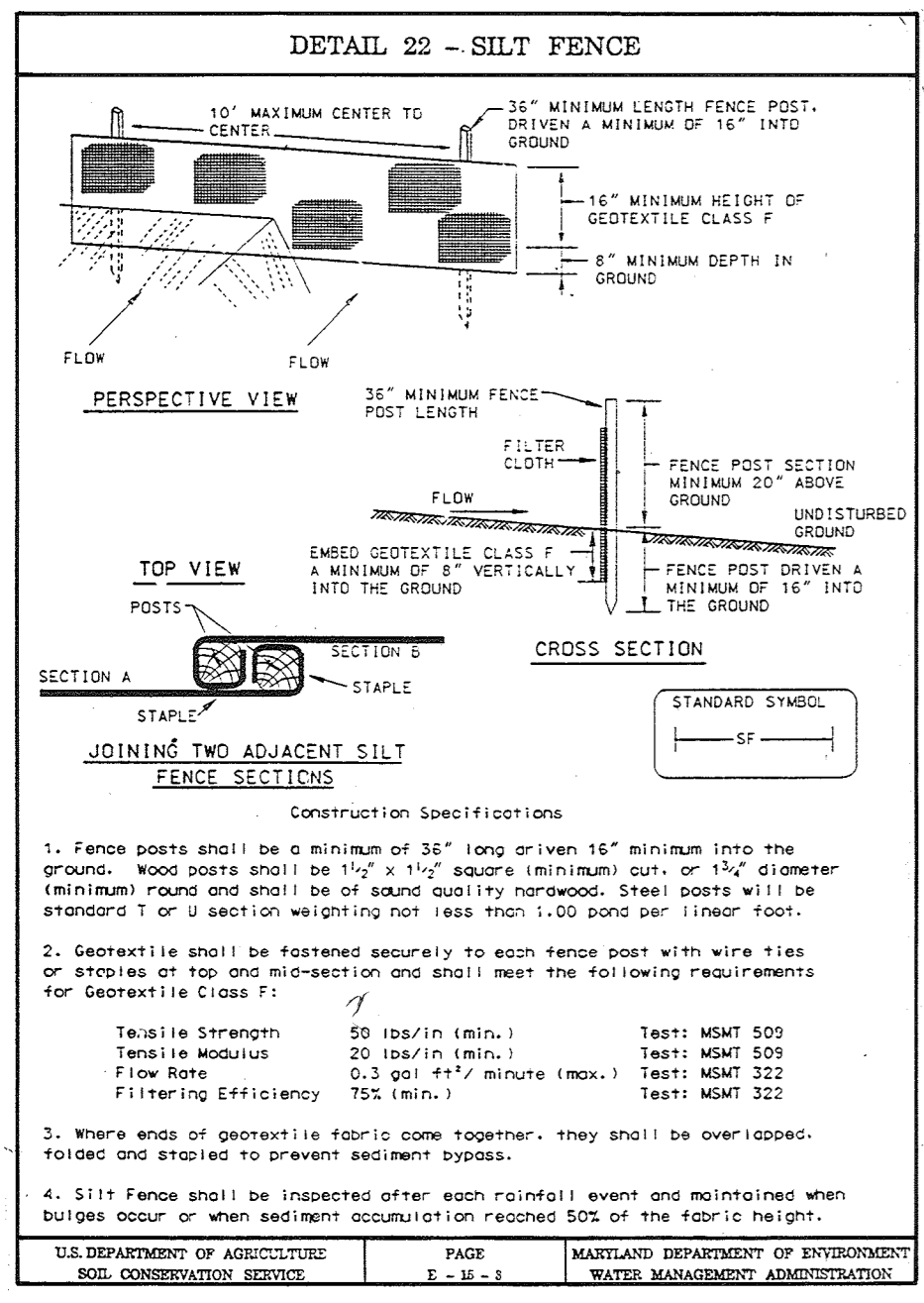
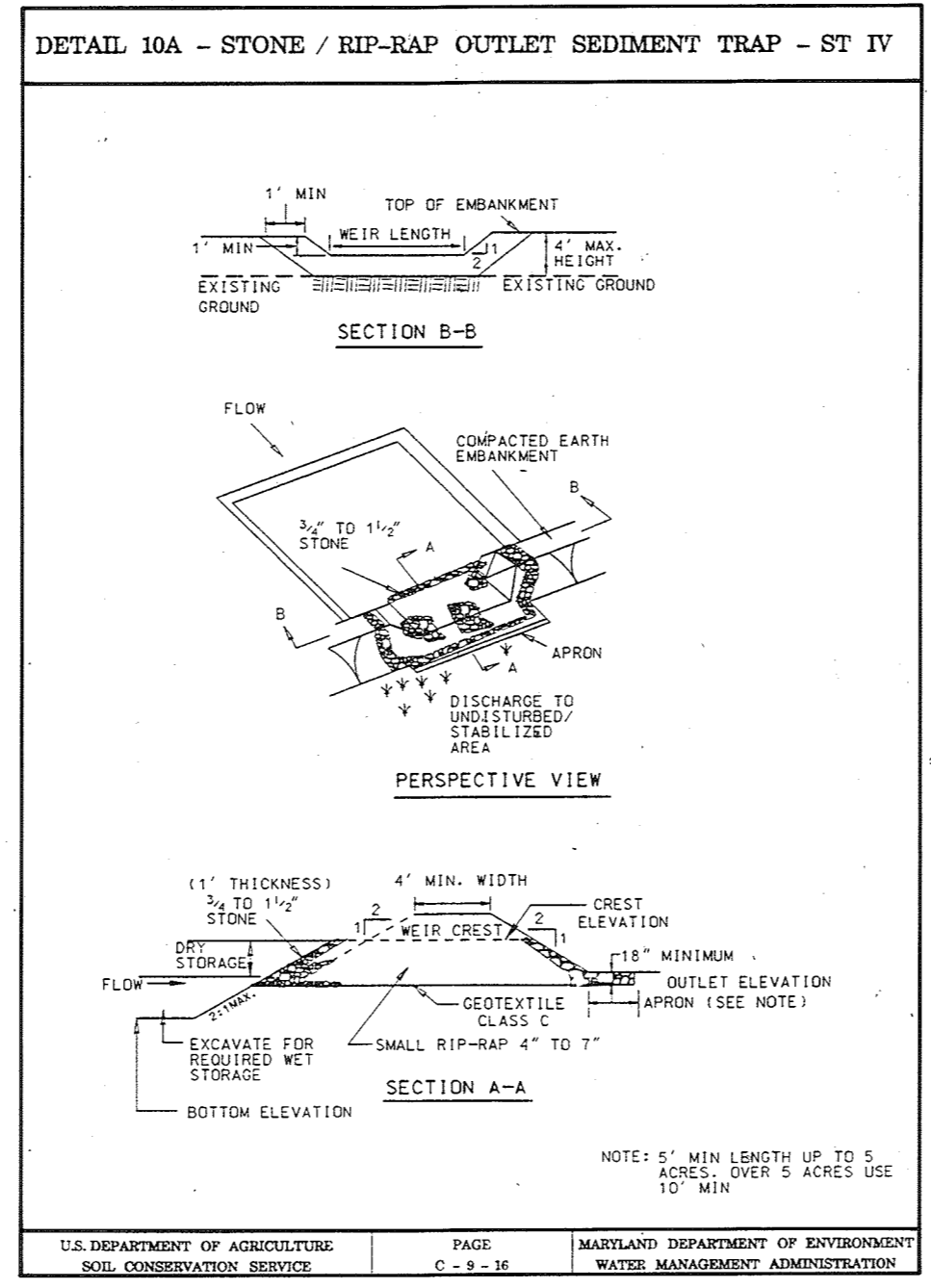
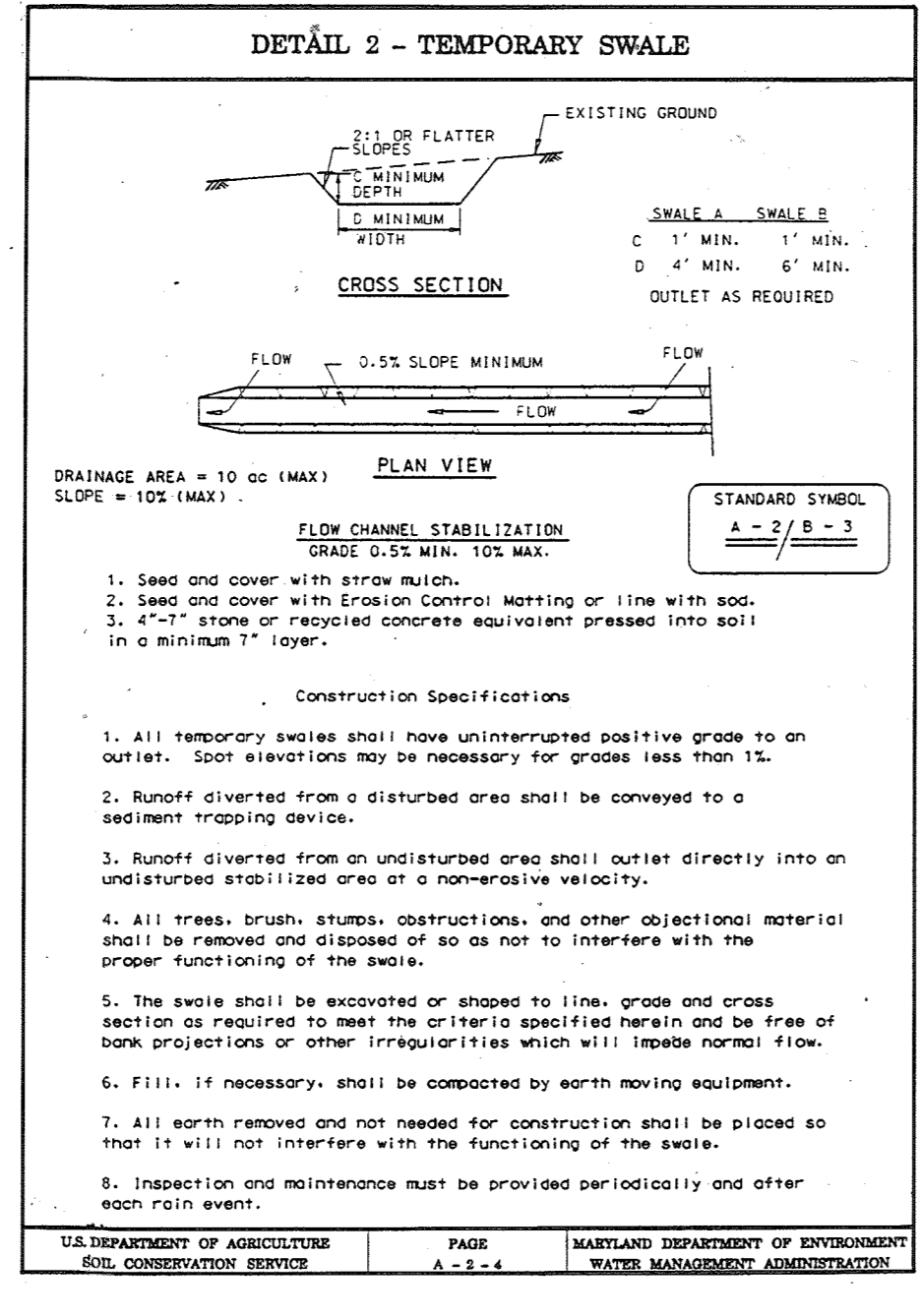
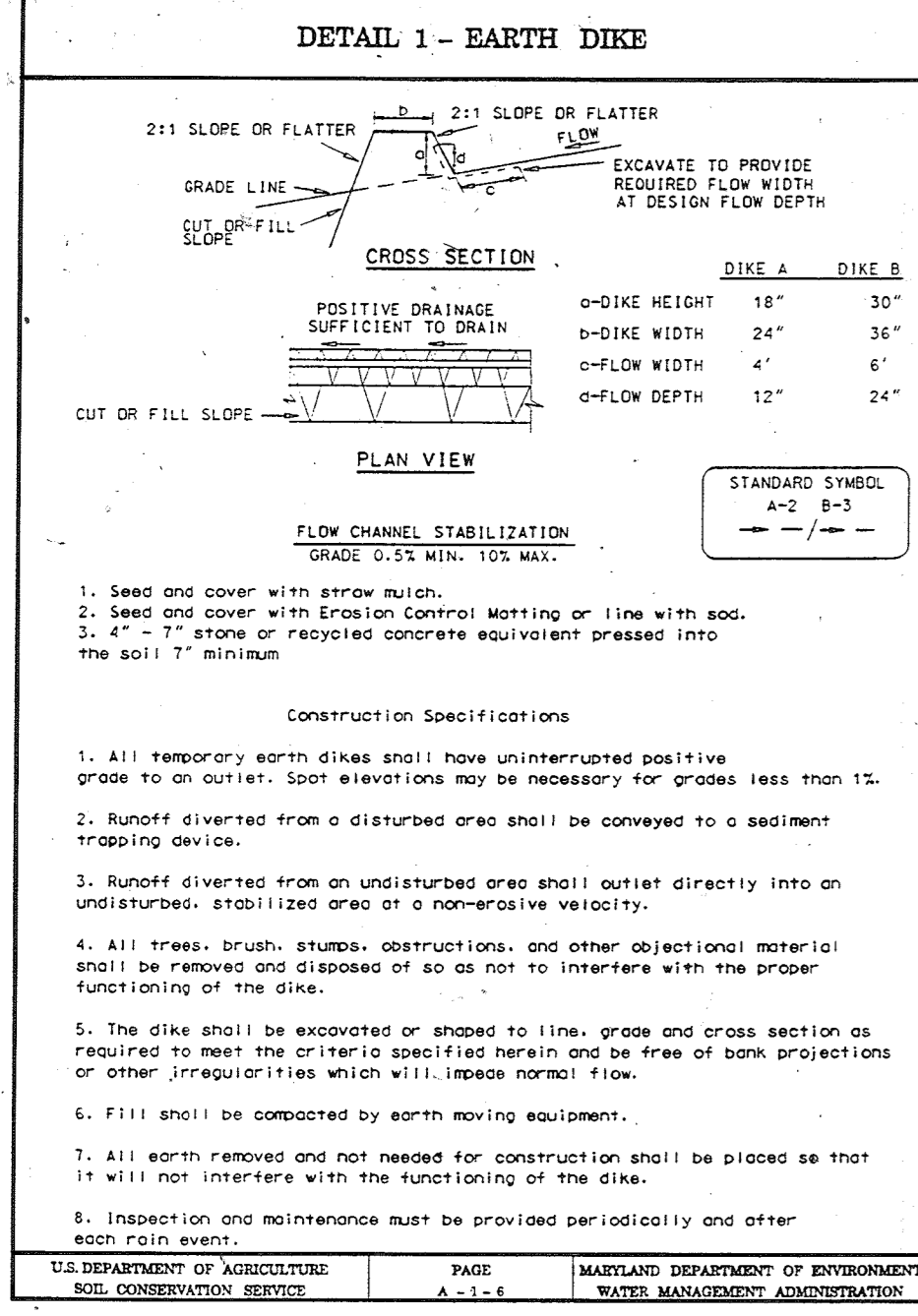
SCALE	ZONING	G. L. W. FILE No.
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DATE	TAX MAP No.	SHEET
6/6/98	42443	7 of 11



Legend

- L.O.D. Limit of Disturbance
- Existing Contour
- Proposed Contour
- Silt Fence
- Removable Pumping Station
- Earth Dike
- Temporary Swale
- Stabilized Construction Entrance
- Existing Drainage Divide

5BP 98-108



SEDIMENT CONTROL NOTES

1. A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits prior to the start of any 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.

3. Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within: a) 7 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 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 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seedings, sod, temporary seeding and mulching (Sec. C).

6. Temporary stabilization, with mulch alone, can only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.

7. Site Analysis:

Total Area of Site	: 10.0971 Acres
Area Disturbed	: 11.00 Acres ±
Area to be roofed or paved	: 7.85 Acres ±
Area to be vegetatively stabilized	: 2.12 Acres ±
Total Cut	: 17,709 Cu. Yds.
Total Fill	: 17,709 Cu. Yds.

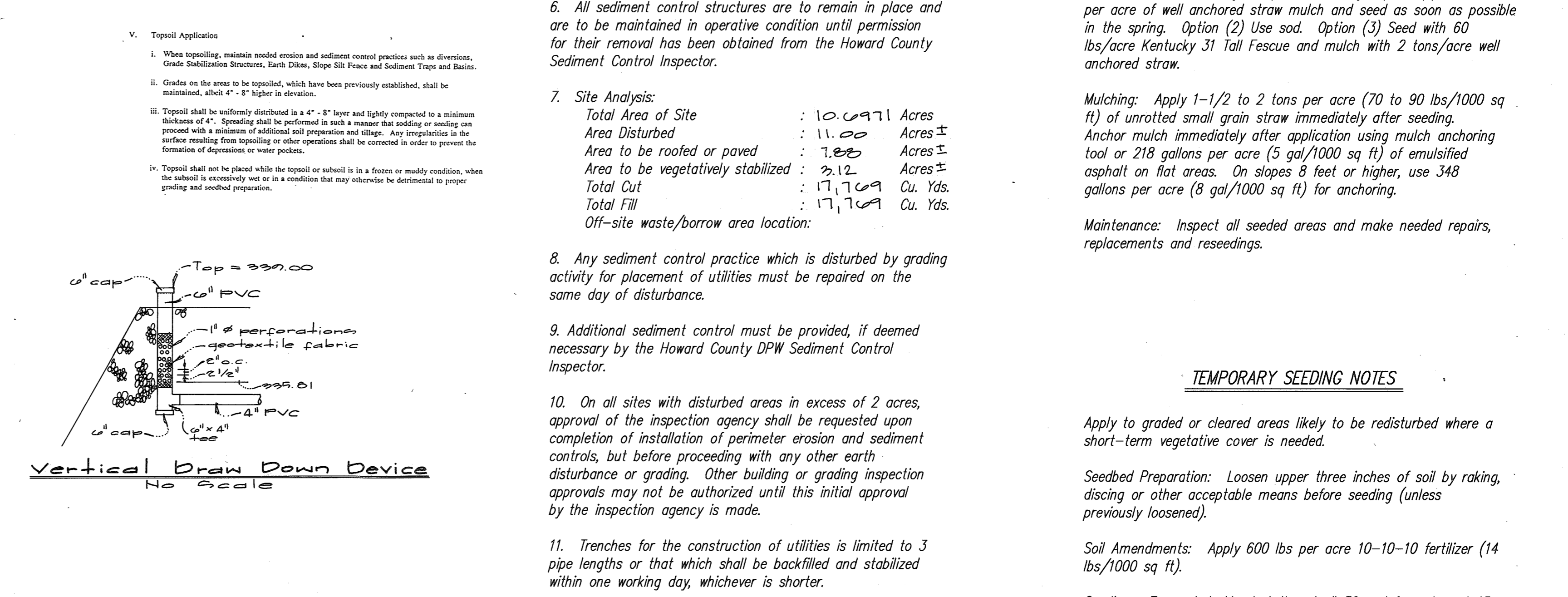
Off-site waste/borrow area location:

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.

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 3 pipe lengths or that which shall be backfilled and stabilized within one working day, whichever is shorter.



Computations

$Q_{d-d} = \frac{(1800)(10.97 \text{ ac})}{20000 \text{ sec}} = 0.95 \text{ cfs}$

$h_{d-d} = \frac{(335.27 - 335.51)(0.67)}{0.0044(h_{d-d})} = 1.05$

$A_0 = \frac{Q_{d-d}}{0.0044(h_{d-d})} = 0.089 \text{ ft}^2$

$d_0 = \sqrt{\frac{A(0.089)}{0.1416}} = 0.336 \text{ ft} = 4"$

$A_t = \text{Total area of perforations} \geq 4(A_0) = 0.358 \text{ ft}^2$

$A_t = (\# \text{ perf./foot}) (\text{perf. area} (\pi r^2)) (\text{perf. section length} (\pi t))$

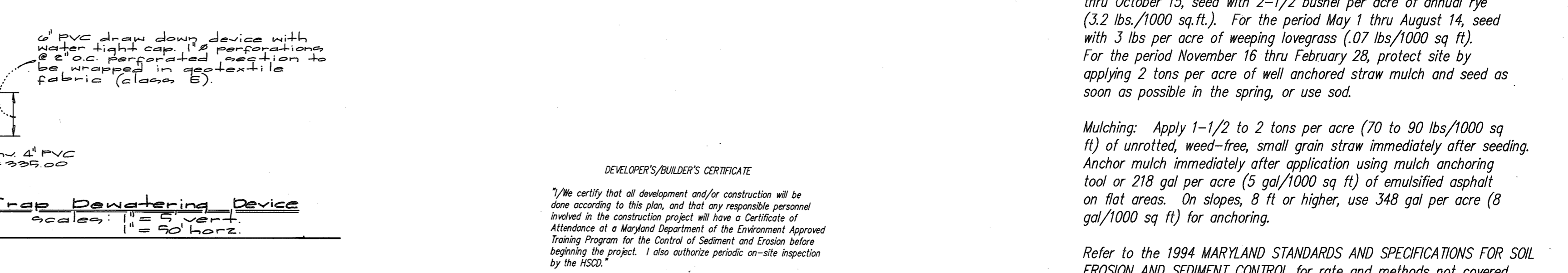
$A_t = (94)(0.0055 \text{ ft}^2)(1.33) = 0.355 \text{ ft}^2$

perforations = 1" Ø, area = 0.0055 ft²

B rows w/9 perforations @ 2' o.c.

perforations per foot = 94

perforated section @ 6" PVC = 1.33 w/24 rows @ 2' o.c.



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

Director: *[Signature]* Date: 6/23/98

Chief, Division of Land Development: *[Signature]* Date: 6/23/98

Chief, Development Engineering Division: *[Signature]* Date: 6/17/98

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE: A-1-4 MARYLAND DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES WATER MANAGEMENT ADMINISTRATION

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE: C-1-16 MARYLAND DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES WATER MANAGEMENT ADMINISTRATION

DEVELOPER'S/BUILDER'S CERTIFICATE

I/We certify that all development and/or 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 Maryland 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 HSCD.

[Signature] Date: 3/17/98

Signature of Developer/Builder Date

ENGINEER'S CERTIFICATE

I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.

[Signature] Date: 3-17-98

Signature of Engineer Date

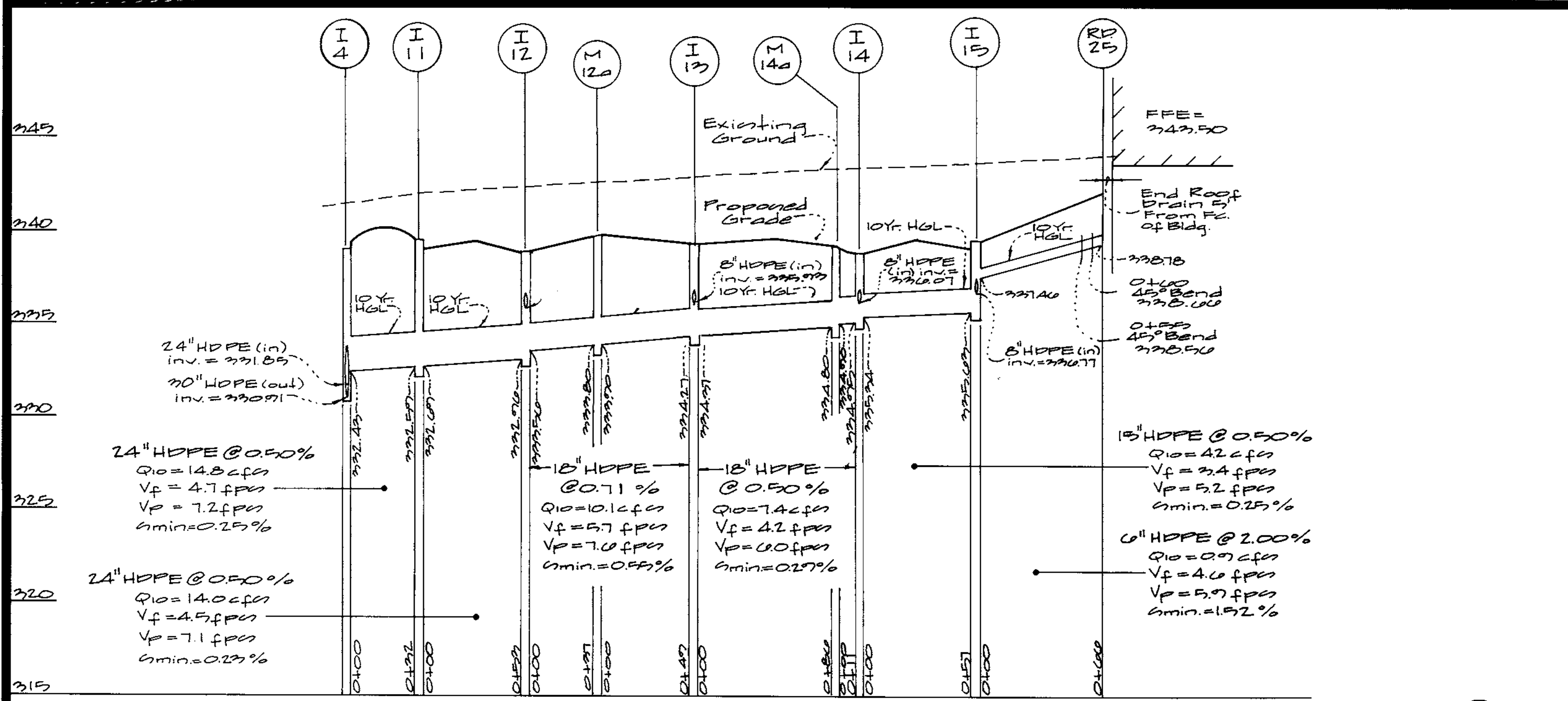
Owner: The Howard Research & Development Corporation, 10275 Little Patuxent Parkway, Columbia, Maryland 21044, Attn: Cole Schinorf, Phone: (410) 290-1400

This Development Plan is approved for Soil Erosion and Sediment Control by the Howard Soil Conservation District.

These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements.

[Signature] Date: 6/17/98

Signature of Engineer Date



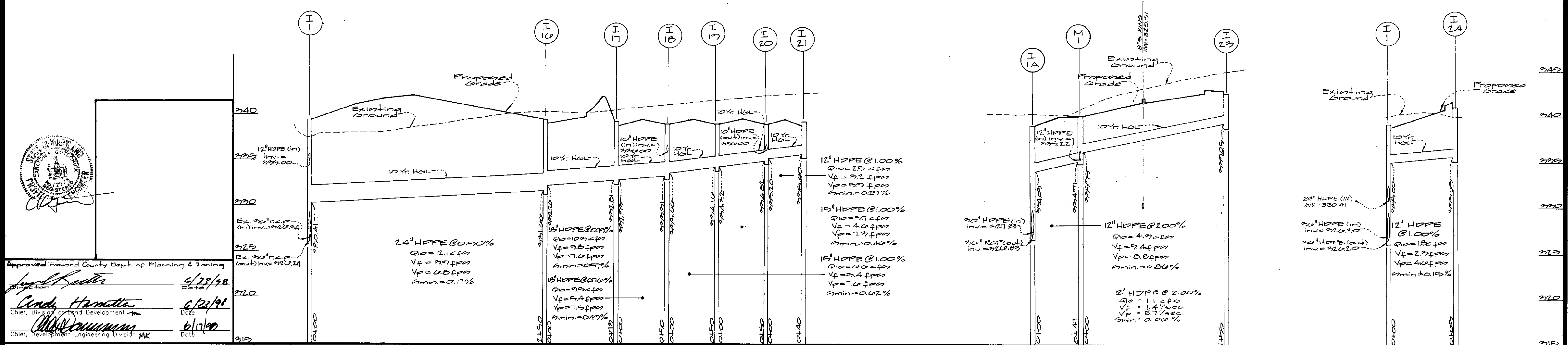
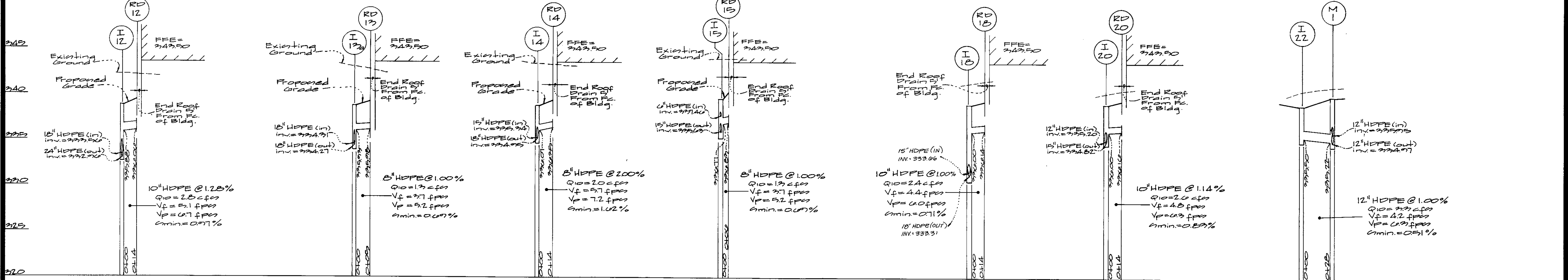
Pipe Schedule

size	type	quantity (l.f.)	Remarks
6"	HDPE	0.0	
8"	"	2.5	
10"	"	42	
12"	"	333	
15"	"	157	
18"	"	300	
24"	"	375	
30"	"	—	
36"	"	—	

HDPE = HIGH DENSITY POLYETHYLENE PIPE N-12 SMOOTH INTERIOR PIPE BY ADS OR HI-Q BY HANLOR.

Structure Schedule

No.	Type	Width (inside)	Top Elevation		Invert Elevation		St'd Detail	Locations	Remarks
			Upper	Lower	Upper	Lower			
I-11	Precast A-B Inlet	2'-0"	339.50	—	332.69	332.59	Ho.Co. S.D. 4.40	See Plan	
I-12	Precast WR Inlet	2'-9/8"	338.80	—	335.88	332.90	Ho.Co. S.D. 4.37	"	
I-13	Precast WR Inlet	2'-9/8"	339.30	—	335.93	334.27	Ho.Co. S.D. 4.37	"	
I-14	Type 4 Inlet	2'-7 1/2"	338.80	—	336.07	334.95	Ho.Co. S.D. 4.22	"	
I-15	Precast A-B Inlet	2'-0"	339.50	—	337.48	335.07	Ho.Co. S.D. 4.40	"	
I-16	Precast A-B Inlet	2'-0"	339.50	—	332.28	331.68	Ho.Co. S.D. 4.41	"	
I-17	Precast A-B Inlet	2'-0"	339.50	—	332.93	332.81	Ho.Co. S.D. 4.40	"	
I-18	Precast WR Inlet	2'-9/8"	339.00	—	336.00	333.31	Ho.Co. S.D. 4.37	"	
I-19	Precast WR Inlet	2'-9/8"	339.00	—	334.32	334.16	Ho.Co. S.D. 4.37	"	
I-20	Precast WR Inlet	2'-9/8"	339.00	—	334.00	334.81	Ho.Co. S.D. 4.37	"	
I-21	Precast A-B Inlet	2'-0"	339.50	—	337.60	335.00	Ho.Co. S.D. 4.40	"	
I-22	Precast WR Inlet	2'-9/8"	339.50	—	335.50	334.50	Ho.Co. S.D. 4.37	"	
I-23	Double's comb Inlet	3'-5"	342.90	—	339.05	338.05	Ho.Co. S.D. 4.38	"	Depressed Grate
I-24	Double's comb Inlet	3'-5"	341.40	—	335.67	334.67	Ho.Co. S.D. 4.34	"	Depressed Grate
M-1	Std Precast Manhole	4'-0"	340.25	—	335.95	334.97	Ho.Co. S.D. 4.11	"	
M-12a	"	"	339.77	—	333.90	333.80	"	"	
M-14a	"	"	339.72	—	334.00	334.80	"	"	



Approved: Howard County Dept. of Planning & Zoning

Janet Bester 6/23/98 Date
Candy Hammit 6/23/98 Date
Chad Williams 6/17/98 Date
 Chief, Development Engineering Division MK

DATE	REVISION	BY	APP'R.
6/17/98	rev storm drain run I 12 to I 14 to accommodate addition to Bldg. A	WJL	

Proposed Pans:
 Gateway 98 Partnership
 1105 Columbia Gateway Dr.
 Columbia, Maryland 21045

Owner:
 The Howard Research & Development Corporation
 10275 Little Patuxent Pkwy.
 Columbia, Maryland 21044
 Attn: Al Edwards
 Phone: 410-972-0027

Attn: Cole Gehman
 Phone: 410-260-1400

Storm Drain Profiles & Schedules

Gateway Commerce Center

Parcel A-08

Election District No. 6

Howard County, Maryland

SCALE: As shown

DATE: 5/6/98

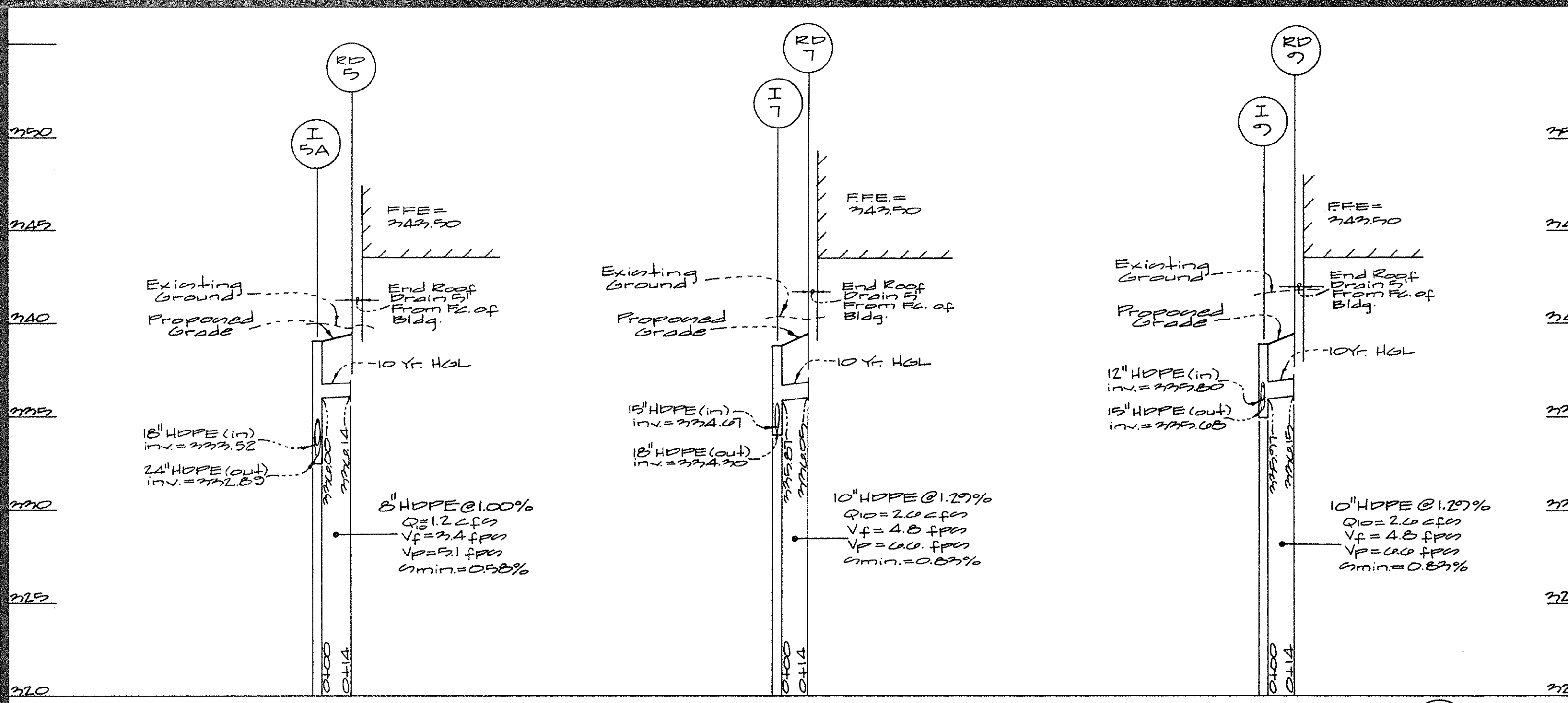
ZONING: M-1

TAX MAP No. 42 & 43

G. L. W. FILE No. 98-011

SHEET 7 of 11

SDP 98-100

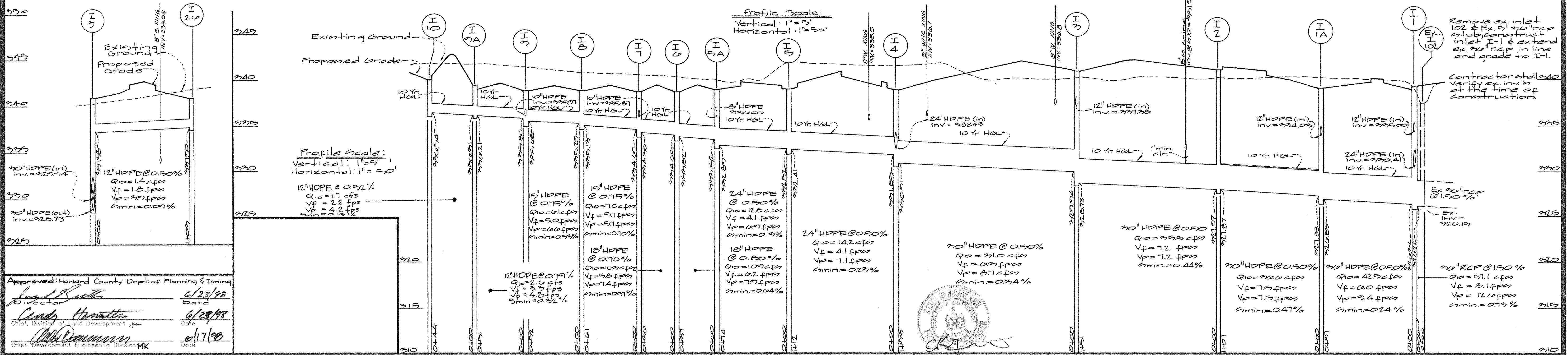
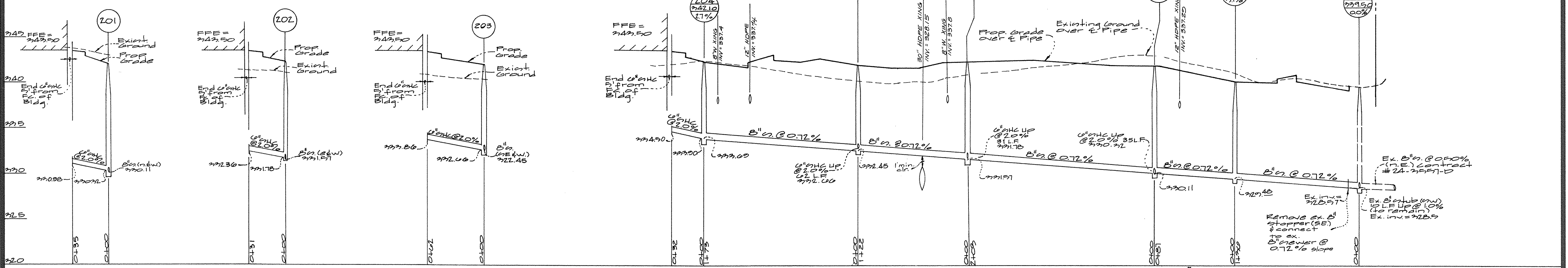


Pipe Schedule			
size	type	quantity (l.f.)	Remarks
0"	H.D. PE	—	
8"	"	14	
10"	"	28	
12"	"	108	
15"	"	112	
18"	"	73	
24"	"	180	
30"	"	45	
36"	"	97	
36"	RCP (GLV)	0	

HDPE = HIGH DENSITY POLYETHYLENE PIPE N-12 SMOOTH INTERIOR PIPE BY ADS OR H-Q BY HANCOR

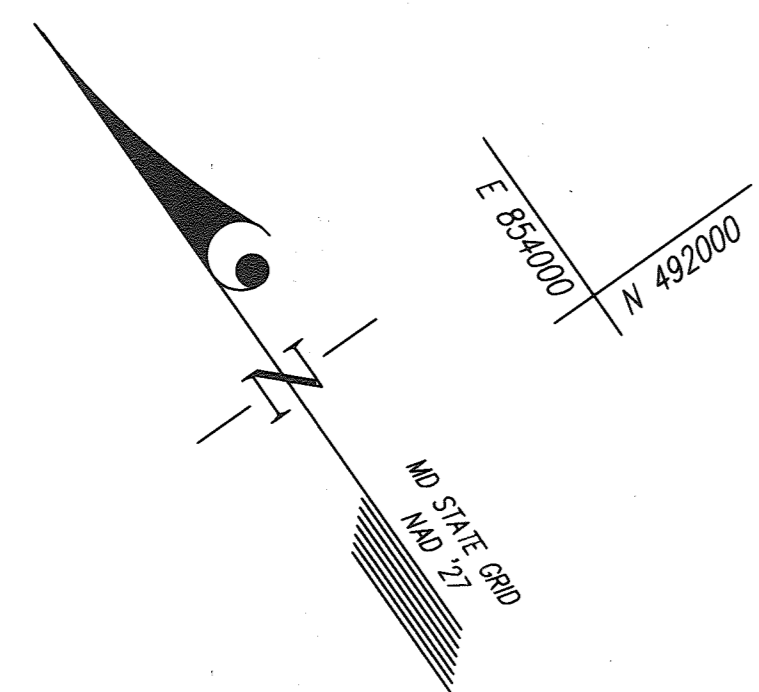
Structure Schedule									
No.	Type	Width (inside)	Top Elevation		Invert Elevation		St'd Detail	Locations	Remarks
			Upper	Lower	Upper	Lower			
I-1	Precast A-10 Inlet	2'-0"	339.20	—	335.00	336.24	Ho.Co. 9.0 4.41	see Plan	
I-2	Type E Comb. Inlet	4'-0"	341.97	—	337.97	337.87	Ho.Co. 9.0 4.31	" "	Depressed Grate
I-3	Type E Inlet	4'-0"	341.00	—	337.98	337.73	Ho.Co. 9.0 4.21	" "	"
I-4	Double Comb Inlet	3'-5"	339.80	—	335.43	335.91	Ho.Co. 9.0 4.34	" "	Depressed Grate
I-5	"	3'-5"	339.62	—	335.52	335.41	Ho.Co. 9.0 4.34	" "	Depressed Grate
I-5A	Precast WR Inlet	2'-9 1/2"	339.00	—	336.00	335.89	Ho.Co. 9.0 4.37	" "	"
I-6	"	2'-9 1/2"	338.80	—	334.05	335.82	Ho.Co. 9.0 4.37	" "	"
I-7	"	2'-9 1/2"	338.80	—	334.07	334.70	Ho.Co. 9.0 4.37	" "	"
I-8	Type S Inlet	2'-9 1/2"	338.90	—	335.29	335.13	Ho.Co. 9.0 4.22	" "	"
I-9	"	2'-7 1/2"	338.90	—	335.97	335.08	Ho.Co. 9.0 4.22	" "	"
I-10	Double Comb Inlet	3'-5"	340.00	—	336.54	336.54	Ho.Co. 9.0 4.34	" "	Depressed Grate
I-20	"	3'-5"	341.50	—	—	—	Ho.Co. 9.0 4.34	" "	Depressed Grate
I-7A	Precast AS Inlet	2'-0"	339.40	—	336.71	336.21	Ho.Co. 9.0 4.40	" "	"
I-1A	Type E Inlet	4'-0"	339.00	—	334.09	334.09	Ho.Co. 9.0 4.21	" "	"

Precast Alternates Are Acceptable



Approved: Howard County Dept of Planning & Zoning
 Director: *[Signature]* Date: 6/23/98
 Chief, Division of Land Development: *[Signature]* Date: 9/23/98
 Chief, Development Engineering Division: *[Signature]* Date: 6/17/98

GLW GUTSCHICK LITTLE & WEBER, P.A. CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK BURTONSVILLE, MARYLAND 20886 TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-589-2524 FAX: 301-421-4186		Prepared For: Gateway 50 Partnership 7165 Columbia Gateway Dr Columbia, Maryland 21045 Attn: Cole Schnorp Phone: 410-290-1400		OWNER: The Howard Research & Development Corporation 10275 Little Patuxent Pkwy Columbia, Maryland 21044 Attn: Al Edwards Phone: 410-292-0027		Storm Drain & Sewer Profiles & Schedules Gateway Commerce Center Parcel A-08 Election District No. 0 Howard County, Maryland		SCALE: As shown ZONING: M-1 G. L. W. FILE No.: 98011 DATE: 5/6/98 TAX MAP No.: 42 & 43 SHEET: 10 of 11	
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PART OF PARCEL A-70
GATEWAY COMMERCE CENTER
PLAT No. 12587

E 85°37'00\"/>

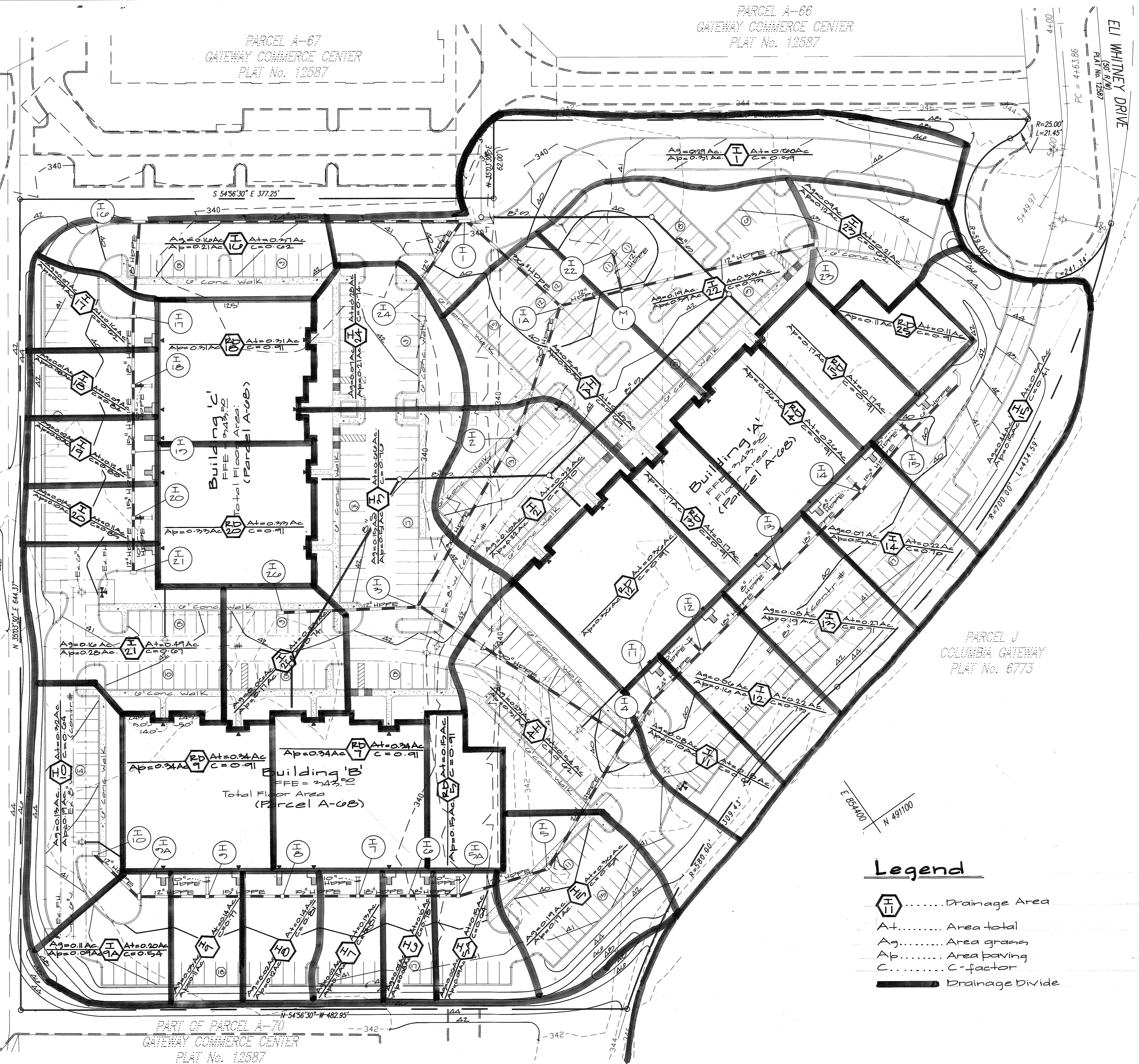


APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

Joseph R. Rutter 6/23/98
Director Date

Cathy Hamilton 6/23/98
Chief, Division of Land Development Date

Mark Dammann 6/17/98
Chief, Development Engineering Division MK Date



PARCEL A-66
GATEWAY COMMERCE CENTER
PLAT No. 12587

PARCEL A-67
GATEWAY COMMERCE CENTER
PLAT No. 12587

PARCEL J
COLUMBIA GATEWAY
PLAT No. 6775

PART OF PARCEL A-70
GATEWAY COMMERCE CENTER
PLAT No. 12587

- Legend**
- Drainage Area
 - At Area total
 - Ag Area grass
 - Ap Area paving
 - C C-factor
 - Drainage Divide

GLW GUTSCHICK LITTLE & WEBER, P.A.
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
3909 NATIONAL DRIVE - SUITE 250 - BURTONTVILLE OFFICE PARK
BURTONTVILLE, MARYLAND 20866
TEL: 301-421-4024 BALT: 410-880-1820 DC/WA: 301-989-2524 FAX: 301-421-4186

NO.	DATE	REVISION	BY	APPR.

Prepared For
Gateway 5B Partnership
7169 Columbia Gateway Drive
Columbia, Maryland 21046
Attn: Cole Schornp
Phone: 410-290-1400

OWNER
The Howard Research & Development
Corporation
10275 Little Patuxent Parkway
Columbia, Maryland 21044
Attn: Al Edwards
Phone: 410-992-6007

Storm Drain Drainage Area Map
GATEWAY COMMERCE CENTER
PARCEL A-68
Election District No. 6

SCALE 1" = 40'	ZONING M-1	G. L. W. FILE No. 98011
DATE 5/6/98	TAX MAP No. 42 of 43	SHEET 11 of 11

SDP 98-108