

# NACM HEADQUARTERS

## COLUMBIA 100 OFFICE RESEARCH PARK

### SECTION 1, AREA 2, PARCEL H-1

### HOWARD COUNTY, MARYLAND

### SITE DEVELOPMENT PLAN

### SDP-98-122

#### GENERAL NOTES

- TOPOGRAPHIC SURVEY WAS PROVIDED BY RBA GROUP DATED MARCH 5, 1998. THE BASE SURVEY IS GIVEN ON SHEET C-2 OF THIS DRAWING SET. ALL EXISTING SITE CONDITIONS SHALL BE DETERMINED BY EXAMINATION OF THE RBA SURVEY SHEETS.
  - ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE.
  - DEVIATION FROM THESE PLANS AND SPECIFICATIONS WITHOUT PRIOR WRITTEN CONSENT FROM THE ENGINEER MAY CAUSE THE WORK TO BE UNACCEPTABLE.
  - THE RBA GROUP SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, OR PROCEDURES, UTILIZED BY THE CONTRACTOR, NOR FOR THE SAFETY OF PUBLIC OR CONTRACTOR'S EMPLOYEES, OR FOR THE FAILURE OF THE CONTRACTOR TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND STANDARD CONSTRUCTION PRACTICES.
  - THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES WHICH ARE TO REMAIN FREE FROM DAMAGE AND MAINTAIN UNINTERRUPTED SERVICE TO ALL USERS; ANY DAMAGE INCURRED DUE TO THE CONTRACTOR'S OR SUBCONTRACTOR'S ACTIONS SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
  - FAILURE TO MENTION SPECIFICALLY ANY WORK WHICH WOULD NORMALLY BE REQUIRED TO COMPLETE THIS PROJECT SHALL NOT RELIEVE THE CONTRACTOR FROM PERFORMING SUCH WORK.
  - THE CONTRACTOR SHALL NOTIFY THE FOLLOWING AT LEAST 48 HOURS PRIOR TO BEGINNING ANY WORK ON THE PROJECT:
    - MISS UTILITY (800) 257-7777
    - BALTIMORE GAS AND ELECTRIC CO. (410) 859-9065
    - BELL ATLANTIC TELEPHONE (410) 393-3648
    - HOWARD COUNTY SCD (410) 465-3180
- 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.
- CONTRACTOR SHALL VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO BEGINNING WORK. HE SHALL VERIFY SIZE AND LOCATIONS OF ALL UNDERGROUND UTILITIES AND TEST PIT AT PROPOSED TIE IN LOCATIONS. DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER WELL IN ADVANCE OF CONSTRUCTION START. START OF CONSTRUCTION BY THE CONTRACTOR SHALL CONSTITUTE FULL ACCEPTANCE OF ALL SITE CONDITIONS BY THE CONTRACTOR.
  - CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR CONSTRUCTION PRIOR TO BEGINNING WORK.
  - ALL UTILITIES ARE TO REMAIN UNLESS DESIGNATED TO BE REMOVED AND ALL APPURTENANCES SHALL BE ADJUSTED TO FINISH GRADE.
  - PRIOR TO START OF CONSTRUCTION CONTRACTOR SHALL STAKE OUT AND VERIFY LOCATIONS OF ALL IMPROVEMENTS AND UTILITY TIE IN LOCATIONS.
  - SCALING OF THESE PLANS IS DISCOURAGED UNLESS DIRECTED BY THE ENGINEER. IN THE EVENT OF A DISCREPANCY BETWEEN THE SCALED AND THE FIGURED DIMENSIONS, THE FIGURED DIMENSIONS SHALL BE HELD.
  - THE CONTRACTOR SHALL ENSURE THAT CURRENT AS-BUILT RECORDS ARE MAINTAINED DURING CONSTRUCTION. UPON COMPLETION OF CONSTRUCTION, CERTIFIED (P.E. STAMPED) AS-BUILT DRAWINGS SHALL BE SUBMITTED TO THE OWNER. THESE AS-BUILT DRAWINGS SHALL BE FOUND ACCEPTABLE BY HOWARD COUNTY PRIOR TO RELEASE OF ANY REMAINING SECURITY.
  - ALL CHANGES TO A PREVIOUS PLAN SUBMISSION HAVE BEEN FLAGGED AND REFERENCED TO THE APPROPRIATE REVISION DATE.
  - CONTRACTOR SHALL MAINTAIN ALL SEDIMENT CONTROL DEVICES WITHIN THE LIMITS OF THE SITE DURING CONSTRUCTION OF THE SITE IMPROVEMENTS. CONTRACTOR SHALL PROVIDE ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES AS MAY BE NECESSARY DURING CONSTRUCTION AND/OR BY GOVERNING AGENCIES.
  - STORMWATER MANAGEMENT IS PROVIDED BY A REGIONAL FACILITY CONSTRUCTED UNDER G-86-57 AND F-87-82. POND PROVIDES BOTH WATER QUALITY AND QUANTITY FOR PARCEL H-1. COLUMBIA 100 PARKWAY CONSTRUCTED UNDER F-87-82. WATER AND SEWER WAS CONSTRUCTED UNDER CONTRACT 24-1588 D AND 24-1561 D.
  - TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
  - THERE IS NO FLOODPLAIN ON THIS SITE.
  - THERE ARE NO WETLANDS ON THIS SITE.
  - NO TRAFFIC STUDY IS REQUIRED FOR THIS PROJECT.

#### UTILITY NOTES

- REFER TO THE MEP PLANS FOR THE CONTINUATION OF ALL UTILITIES INTO THE BUILDING.
- STANDARD CONCRETE THRUST BLOCKS SHALL BE INSTALLED AT EACH BEND OR TEE IN THE WATER AND FIRE SYSTEM PIPING NETWORK.
- EXTERIOR NATURAL GAS LINES ARE TO BE INSTALLED BY BALTIMORE GAS AND ELECTRIC INCLUDING THE METER. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE LINES WITH THE ONSITE UTILITY WORK INCLUDING ARRANGING THE SCHEDULE WITH BGE AND ALL SUBCONTRACTORS. CONTACT BGE AT (410) 859-9065 WELL IN ADVANCE OF ANTICIPATED CONSTRUCTION START.
- ELECTRIC WILL BE INSTALLED BY BALTIMORE GAS AND ELECTRIC WHICH INCLUDES THE PRIMARY CABLING AND SUPPLYING AND SETTING OF THE TRANSFORMER. THE CONTRACTOR SHALL SUPPLY AND INSTALL THE TRANSFORMER PAD AS PER BGE SPECIFICATIONS. THE CONTRACTOR MUST ALSO INSTALL THE CONDUITS WITH PULL WIRES FOR BGE CABLING. CONTRACTOR SHALL COORDINATE BGE WORK WITH ALL ONSITE CONSTRUCTION INCLUDING SCHEDULING OF THE INSTALLATION. CONTACT BGE AT (410) 859-9065 WELL IN ADVANCE OF ANTICIPATED CONSTRUCTION.
- ALL STORM DRAIN PIPES SHALL BE HDPE UNLESS OTHERWISE NOTED.
- ALL SANITARY SEWER PIPE SHALL BE PVC SDR-35.
- ALL WATER MAINS SHALL BE DUCTILE IRON (TYTON) CLASS 52.
- WATER IS PUBLIC (CONTRACT NO. 24-3711-D).
- SEWER IS PRIVATE.
- EXISTING UTILITIES ARE BASED ON FIELD RUN SURVEYS AND HOWARD COUNTY AS BUILT PLANS.
- ALL OUTDOOR LIGHTING SHALL BE IN COMPLIANCE WITH SECTION 134 OF THE ZONING ORDINANCE.

#### STAKING NOTES

- ALL CURB RADII ARE 3 FEET UNLESS NOTED OTHERWISE. ALL SIDEWALK RADII ARE 2 FEET UNLESS NOTED OTHERWISE.
- ALL PLAN DIMENSIONS ARE TO FACE OF CURB AND FACE OF FINISHED STRUCTURE UNLESS OTHERWISE NOTED.
- BENCH MARK INFORMATION - HOWARD COUNTY GEODETIC CONTROL: 30FC LOCATION: 0.65 MILES NORTH OF CENTRE PARK DRIVE WEST OF ROUTE 100 (SEE VICINITY MAP). ELEVATION: 386.842

#### SITE ANALYSIS

- AREA OF PARCEL: 87,120 S.F. (2,000 ACRES)
- AREA OF PLAN SUBMISSION: 87,120 SQ. FT. (2,000 ACRES)
- LIMIT OF DISTURBED AREA: 2.10 ACRES
- PRESENT ZONING: PLANNED OFFICE RESEARCH (POR)
- EXISTING USE: VACANT LOT
- PROPOSED USE: NACM OFFICES
- BUILDING DATA
 

A. GROSS SQUARE FOOTAGES:	
MAIN FLOOR	20,275 GSF
BASEMENT	2,500 GSF
TOTAL	22,775 GSF
- NUMBER OF STORIES: 1
- TOTAL BUILDING HEIGHT: 21'-10" (HIGHEST)
- MAXIMUM NUMBER OF EMPLOYEES: 41 (NACM ONLY)
- PARKING DATA
 

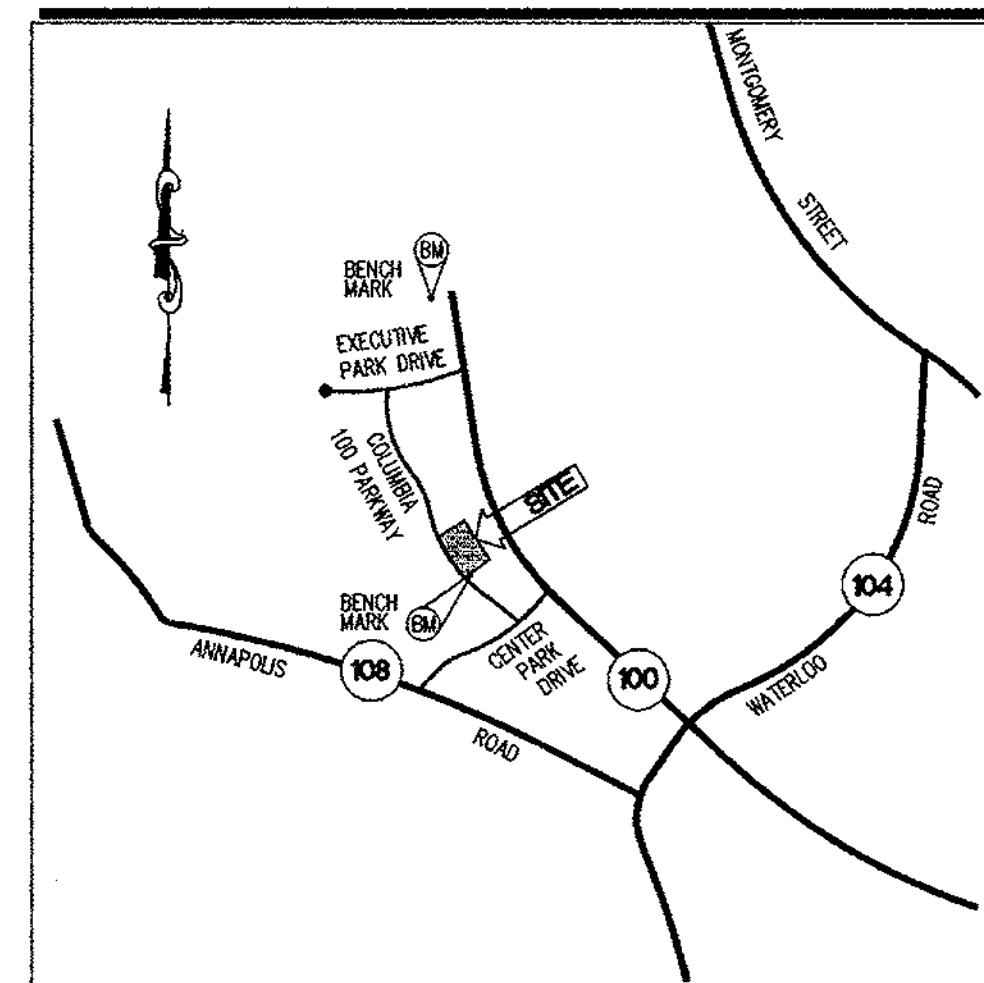
A. TOTAL SPACES REQUIRED:	76
B. CALCULATION METHOD:	3.3 SPACES PER 1000 SQ. FT.
C. NUMBER OF SPACES PROVIDED:	
1. 9' x 18'	75
2. HANDICAP ACCESSIBLE	4
3. TOTAL SPACES	79
- IMPERVIOUS COVERAGE DATA
 

A. BUILDING:	20,275 SF (0.4654 AC.)
B. PATIOS:	1,100 SF (0.0253 AC.)
C. DRIVE AISLES:	25,406 SF (0.5832 AC.)
D. PARKING SPACES:	12,798 SF (0.2938 AC.)
E. SIDEWALKS:	1,485 SF (0.0341 AC.)
F. SERVICE AREA:	696 SF (0.0160 AC.)
G. TOTAL COVERAGE:	61,760 SF (1.4178 AC.)
H. PERCENT OF LOT:	70.89 %
- GREEN SPACE
 

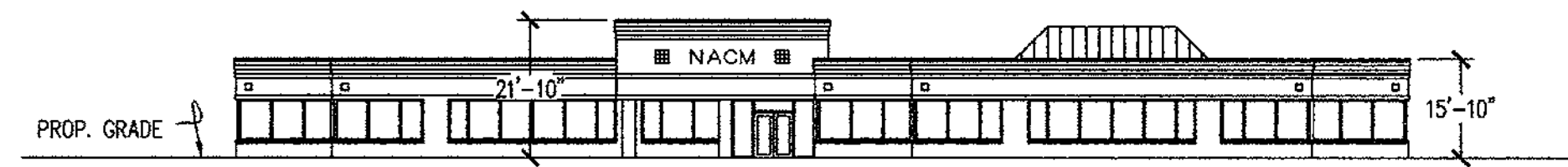
A. TOTAL:	25,360 SF (0.5822 AC.)
B. PERCENT OF LOT:	29.11 %

#### MILESTONES

DATE	DESCRIPTION
04/09/98	SUBMIT SDP TO HOWARD COUNTY
06/16/98	SECOND SUBMITTAL TO HOWARD CO.
07/14/98	SUBMITTED TO MGD PROPERTIES
	SUBMIT ORIGINALS TO HOWARD CO.



LOCATION PLAN  
SCALE: 1"=2000'



BUILDING ELEVATION

OWNER:  
**NATIONAL ASSOCIATION OF CREDIT MANAGEMENT REALTY CORPORATION**  
8815 CENTRE PARK DRIVE  
COLUMBIA, MARYLAND 21045-2158  
(410) 740-5560

PREPARED BY:

The **RBA** GROUP  
ENGINEERS • ARCHITECTS • PLANNERS  
7164 COLUMBIA GATEWAY DRIVE  
SUITE 205  
COLUMBIA, MARYLAND 21046  
(410) 312-0966

#### LEGEND

LEGEND	EXISTING	PROPOSED	ABBREVIATIONS
CENTERLINE (WITH +25' TICS)	SEE SHEET C-2		R/W = RIGHT-OF-WAY
PROPERTY LINE			PL = PROPERTY LINE
CURB			INTX = INTERSECTION
GRADE CONTOUR			AHD = AHEAD
SPOT ELEVATION			BK = BACK
CURVE NUMBER			PC = POINT OF CURVATURE (HORIZONTAL)
FLARED END SECTION			PVC = POINT OF CURVATURE (VERTICAL)
HEADWALL			PT = POINT OF TANGENCY (HORIZONTAL)
STORM SEWER			PVT = POINT OF TANGENCY (VERTICAL)
STANDARD INLET			PI = POINT OF INTERSECTION
CURB INLET			DELTA = INTERNAL ANGLE
STORM WATER MANHOLE			R = RADIUS OF CURVE
GENERAL CLEAN OUT			ARC = LENGTH OF CURVE
SANITARY SEWER LINE AND MANHOLE			TAN = TANGENT OF CURVE LENGTH
DOMESTIC WATER LINE			CHD LEN = LENGTH OF CHORD
FIRE LINE			CHD BRG = CHORD BEARING
WATER METER			CL = CENTERLINE
TELEPHONE LINE			S.S.E. = SANITARY SEWER EASEMENT
CABLE TV			F.F.E. = LOWEST FINISH FLOOR ELEVATION
FIRE HYDRANT			MH = MANHOLE (STORM)
WATER LINE TEE			SMH = MANHOLE (SEWER)
GATE VALVE			CI = COMBINATION INLET
DOUBLE DETECTOR CHECK WITH BACKFLOW PREVENTOR			YI = YARD INLET
IRRIGATION CUT OFF VALVE			HW = HEAD WALL
POWER POLE			FES = FLARED END SECTION
GAS METER			RCF = REINFORCED CONCRETE PIPE
GAS LINE			OMP = CORRUGATED METAL PIPE
CHAIN LINK FENCE			PVC = POLYVINYL CHLORIDE PIPE OR POINT OF VERTICAL CURVE
FILTER FENCE			DIP = DUCTILE IRON PIPE
WOOD FENCE			C&G = CURB AND GUTTER
TRANSFORMER			PROP = PROPOSED
RETAINING WALLS			TC = TOP OF CURB
STRUCTURE NUMBER			BC = BOTTOM OF CURB
REFER TO PROFILE SHEETS (INLETS AND MANHOLES)			TW = TOP OF WALL
LIMITS OF DISTURBANCE			BW = BOTTOM OF WALL
PROPOSED TREE (TYPICAL)			SY = SQUARE YARD
SINGLE HEAD LIGHT			SF = SQUARE FEET
DOUBLE HEAD LIGHT			CF = CUBIC FEET
YARD LIGHT			CY = CUBIC YARD
COORDINATE NUMBER			CFS = CUBIC FEET PER SECOND
DETAIL CALL-OUT			V = VELOCITY
			Smin = MINIMUM FRICTION SLOPE
			N = NORTH
			GSF = GROSS SQUARE FEET
			ASP = ASPHALT
			D.O.T. = DEPARTMENT OF TRANSPORTATION
			STD = STANDARD
			LP = LOW POINT
			HP = HIGH POINT
			EOP = EDGE OF PAVEMENT
			DS = DOWNSLOUT

#### INDEX

SHEET	TITLE	REF. NO.
1	TITLE SHEET	C-1
2	EXISTING CONDITIONS PLAN	C-2
3	STAKING AND STRIPING PLAN	C-3
4	UTILITY PLAN	C-4
5	GRADING AND DRAINAGE PLAN	C-5
6	DETAILS I	C-6
7	DETAILS II	C-7
8	DETAILS III	C-8
9	PROFILES	C-9
10	SEDIMENT CONTROL PLAN	C-10
11	SEDIMENT CONTROL DETAILS I	C-11
12	SEDIMENT CONTROL DETAILS II	C-12
13	SEDIMENT CONTROL DETAILS III	C-13
14	DRAINAGE AREA MAP	C-14
15	LANDSCAPE PLAN	L-1

APPROVED: DEPARTMENT OF PLANNING AND ZONING

*W. J. Hamilton* 10/30/98  
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

*Cindy Hamilton* 11/3/98  
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

*James S. Smith* 11/3/98  
DIRECTOR DATE

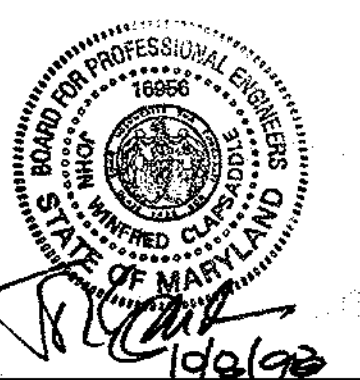
ADDRESS CHART		PERMIT INFORMATION CHART					
LOT/PARCEL #	STREET ADDRESS	SUBDIVISION NAME	SECTION/AREA	LOT/PARCEL #	PARCEL #		
PARCEL H-1	8840 COLUMBIA 100 PARKWAY	COLUMBIA 100 OFFICE RESEARCH PARK	SECTION 1, AREA 2	PARCEL H-1			
		PLAT NO.	BLOCK NO.	ZONING	TAX MAP	ELECTION DIST.	CENSUS TRACT
		11943	N/A	POR	30	2nd	6023.02
		WATER CODE		SEWER CODE			
		607		5750639			

SITE DEVELOPMENT PLANS FOR:  
**NACM HEADQUARTERS**  
COLUMBIA 100 OFFICE RESEARCH PARK  
SECTION 1, AREA 2, PARCEL H-1  
HOWARD COUNTY, MARYLAND

OWNER:  
**NATIONAL ASSOCIATION OF CREDIT MANAGEMENT REALTY CORPORATION**  
8815 CENTRE PARK DRIVE  
SUITE 200  
COLUMBIA, MARYLAND 21045-2158  
(410) 740-5560

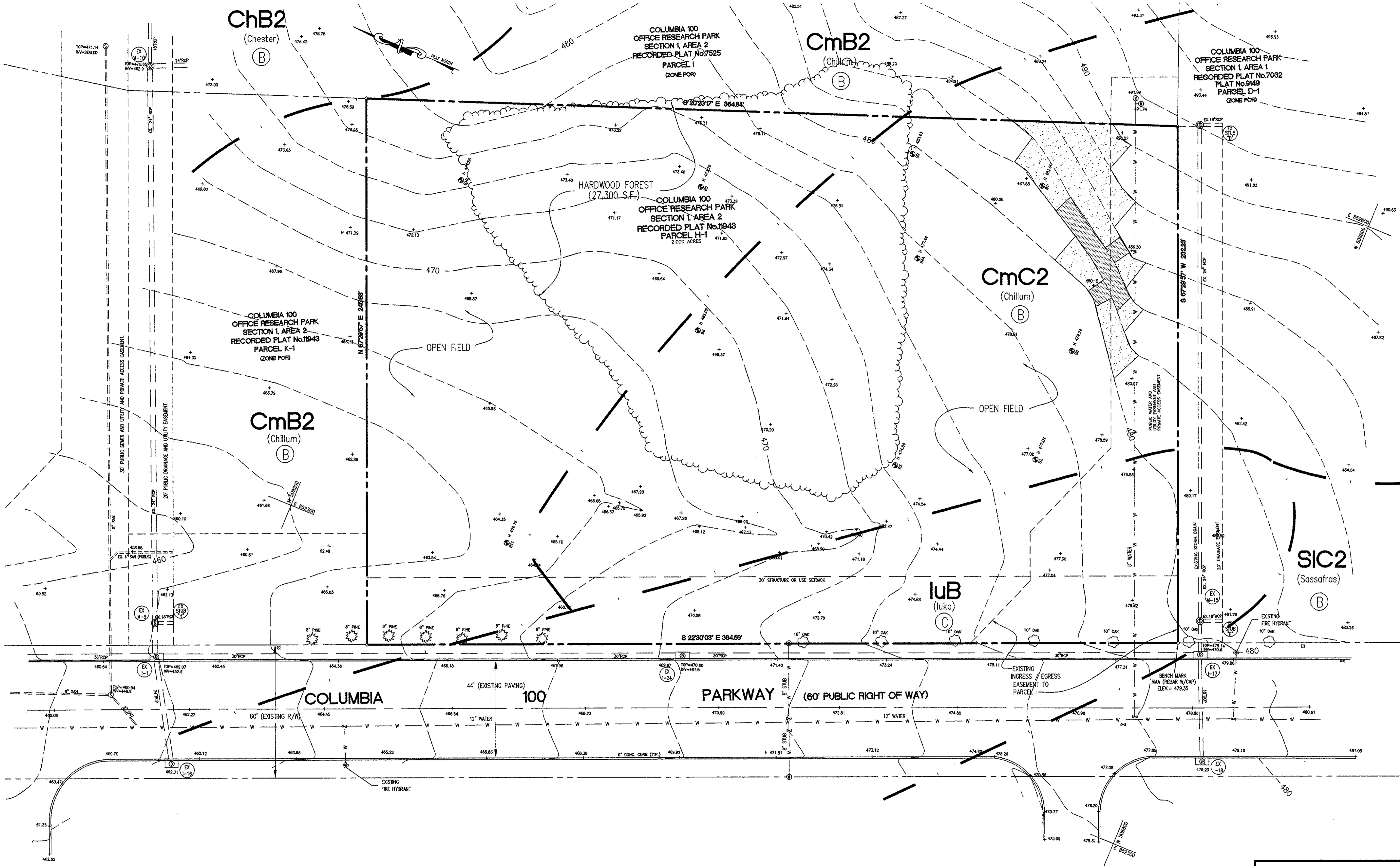
The **RBA** GROUP  
ENGINEERS • ARCHITECTS • PLANNERS  
7164 Columbia Gateway Drive  
Columbia, Maryland 21046  
Phone (410) 312-0966 Fax 312-0887

REVISIONS  
06/01/98 COUNTY COMMENTS  
09/28/98 NOTES



DATE: 03/05/98  
JOB NUMBER: M2141.00  
FILE NUMBER: 2141COV  
PLOTTED: 6/14/98  
DRAWN BY: Chip

TITLE SHEET  
SHEET C-1  
1 of 15



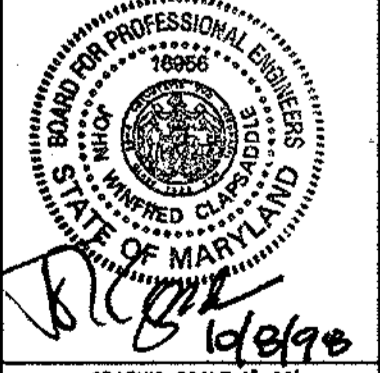
SITE DEVELOPMENT PLANS FOR:  
**NACM HEADQUARTERS**  
 COLUMBIA 100 OFFICE RESEARCH PARK  
 SECTION 1, AREA 2, PARCEL H-1  
 HOWARD COUNTY, MARYLAND

OWNER:  
**NATIONAL ASSOCIATION OF CREDIT  
 MANAGEMENT REALTY CORPORATION**  
 8815 CENTRE PARK DRIVE  
 SUITE 200  
 COLUMBIA, MARYLAND 21045-2158  
 (410) 740-5566

**RBA**  
 ARCHITECTS & PLANNERS  
 Suite 205, Columbia, Maryland 21046  
 Phone (410) 312-9966, Fax 312-0887

REVISIONS

05/01/98	COUNTY COMMENTS
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GRAPHIC SCALE 1"=20'

DATE:	3/05/98
JOB NUMBER:	M2141.00
FILE NUMBER:	2141BNDY
PLOTTED:	09/28/98
DRAWN BY:	Chip

EXISTING CONDITIONS PLAN  
 SHEET C-2  
 2 of 15

**ENVIRONMENTAL INFORMATION**

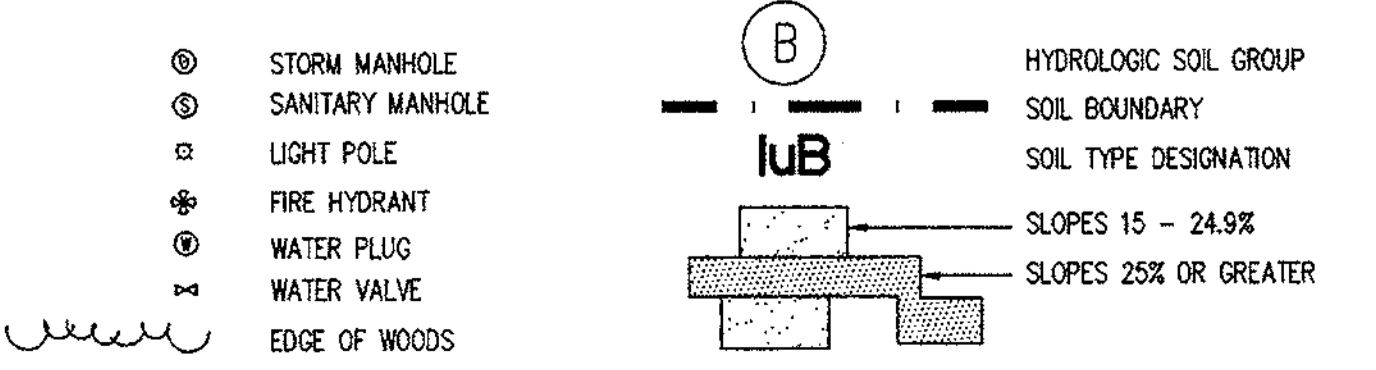
THERE IS NO 100-YEAR FLOODPLAIN, NON-TIDAL WETLANDS, WETLAND BUFFERS OR STREAM BUFFERS ON PARCEL H-1.

**EXISTING VEGETATION**

COMMUNITY:	DOMINANT SPECIES / DESCRIPTION:
HARDWOOD FOREST	RED MAPLE, SUGAR MAPLE, TULIP POPULAR, BLACK CHERRY/ TYPICAL CALIPER: 6 TO 10" SPECIMEN TREES: NONE CONDITION: GOOD
OPEN FIELD	GRASS/ CONDITION: PERIODICALLY MOWED.

**FOREST CONSERVATION NOTE**  
 THE APPLICANT HAS FILED A DECLARATION OF INTENT TO REQUEST A SINGLE LOT EXEMPTION FOR CLEARING LESS THAN 40,000 SQUARE FEET OF FOREST.

**LEGEND**



**PERMIT INFORMATION CHART**

SUBDIVISION NAME COLUMBIA 100 OFFICE RESEARCH PARK	SECTION/AREA SECTION 1, AREA 2	LOT/PARCEL # PARCEL H-1
PLAT NO. 11943	BLOCK NO. N/A	ZONING POR
TAX MAP 30	ELECTION DIST. 2nd	CENSUS TRACT 6023.02
WATER CODE 607	SEWER CODE 5750639	

APPROVED: DEPARTMENT OF PLANNING AND ZONING

*Chip*  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION  
 DATE: 10/30/98

*Cinda Hamilton*  
 CHIEF, DIVISION OF LAND DEVELOPMENT  
 DATE: 11/9/98

*James S. Rutter*  
 DIRECTOR  
 DATE: 11/3/98

COLUMBIA 100  
OFFICE RESEARCH PARK  
SECTION 1 AREA 2  
RECORDED PLAT No. 7525  
PARCEL 1  
(ZONE POR)

STAIRCASE SUITES  
HOTEL SITE (SDP-99-38)  
REFER TO PLANS BY  
RIEGER MUEGGLE

COLUMBIA 100  
OFFICE RESEARCH PARK  
SECTION 1 AREA 1  
RECORDED PLAT No. 7032  
PLAT No. 9149  
PARCEL D-1  
(ZONE POR)

NACM  
HEADQUARTERS OFFICE  
22,775 G.S.F.  
F.F. ELEV. = 476.00

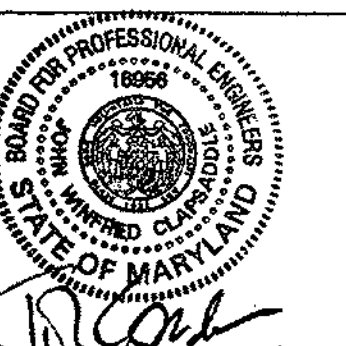
COLUMBIA 100  
OFFICE RESEARCH PARK  
SECTION 1 AREA 2  
RECORDED PLAT No. 11943  
PARCEL K-1  
(ZONE POR)

SITE DEVELOPMENT PLANS FOR:  
NACM HEADQUARTERS  
COLUMBIA 100 OFFICE RESEARCH PARK  
SECTION 1 AREA 2, PARCEL H-1  
HOWARD COUNTY, MARYLAND

OWNER:  
NATIONAL ASSOCIATION OF CREDIT  
MANAGEMENT REALTY CORPORATION  
8815 CENTRE PARK DRIVE  
SUITE 200  
COLUMBIA, MARYLAND 21045-2168  
(410) 740-5560

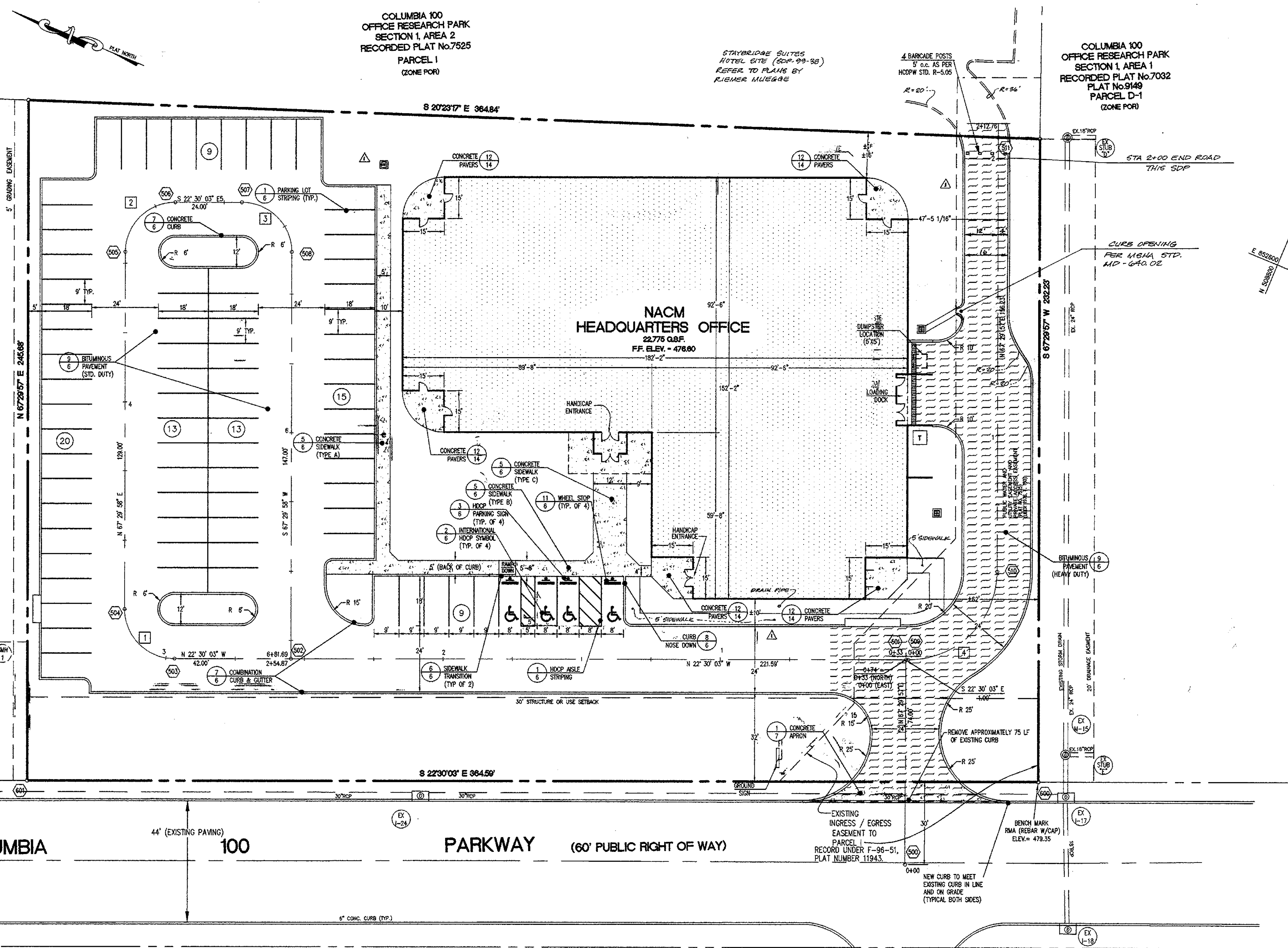
The RBA Group  
ARCHITECTS & PLANNERS  
ENGINEERS  
Suite 205, Columbia, Maryland 21046  
Phone (410) 312-0986, Fax 312-0997

REVISIONS  
06/01/98 COUNTY COMMENTS  
09/28/98 TRANSFORMER  
12/10/98 SIDEWALK,  
DRIVEWAY ANGLE,  
STORM DRAIN



DATE: 03/05/98  
JOB NUMBER: M2141  
FILE NUMBER: 2141BASE  
PLOTTED: 09/28/98  
DRAWN BY: Chip/RJ

STAKING AND STRIPING PLAN  
SHEET C-3  
3 of 15



STAKING NOTES

- DISTANCE FROM CORNER MARKER TO POINT  
POINT 600 IS 0 FEET.
- DIRECTION AND DISTANCE FROM CORNER  
MARKER TO POINT 601 IS S48° 51' 44" W, 0.17'

COORDINATE DATA TABLE

POINT NO.	NORTHING	EASTING	REMARKS
500	508840.50	852348.52	STA. 0+00
501	508868.82	852416.89	STA 0+74=0+00 (EAST) = 0+33 (NORTH)
502	509073.54	852332.09	2+54.59 = 6+81.41
503	509112.34	852316.01	PC 2+96.59
504	509135.86	852325.76	PT 3+24.87
505	509185.23	852444.94	PC 4+53.87
506	509175.49	852468.45	PT 4+82.14
507	509153.31	852477.64	PC 5+06.14
508	509129.80	852467.90	PT 5+34.41
509	508867.89	852417.27	PC 0+01.00
510	508850.57	852459.08	PT 0+51.27
511	508910.35	852603.42	R 2+07.50
600	508807.63	852394.61	PROPERTY CORNER
601	509144.47	852255.08	PROPERTY CORNER

CURVE DATA TABLE

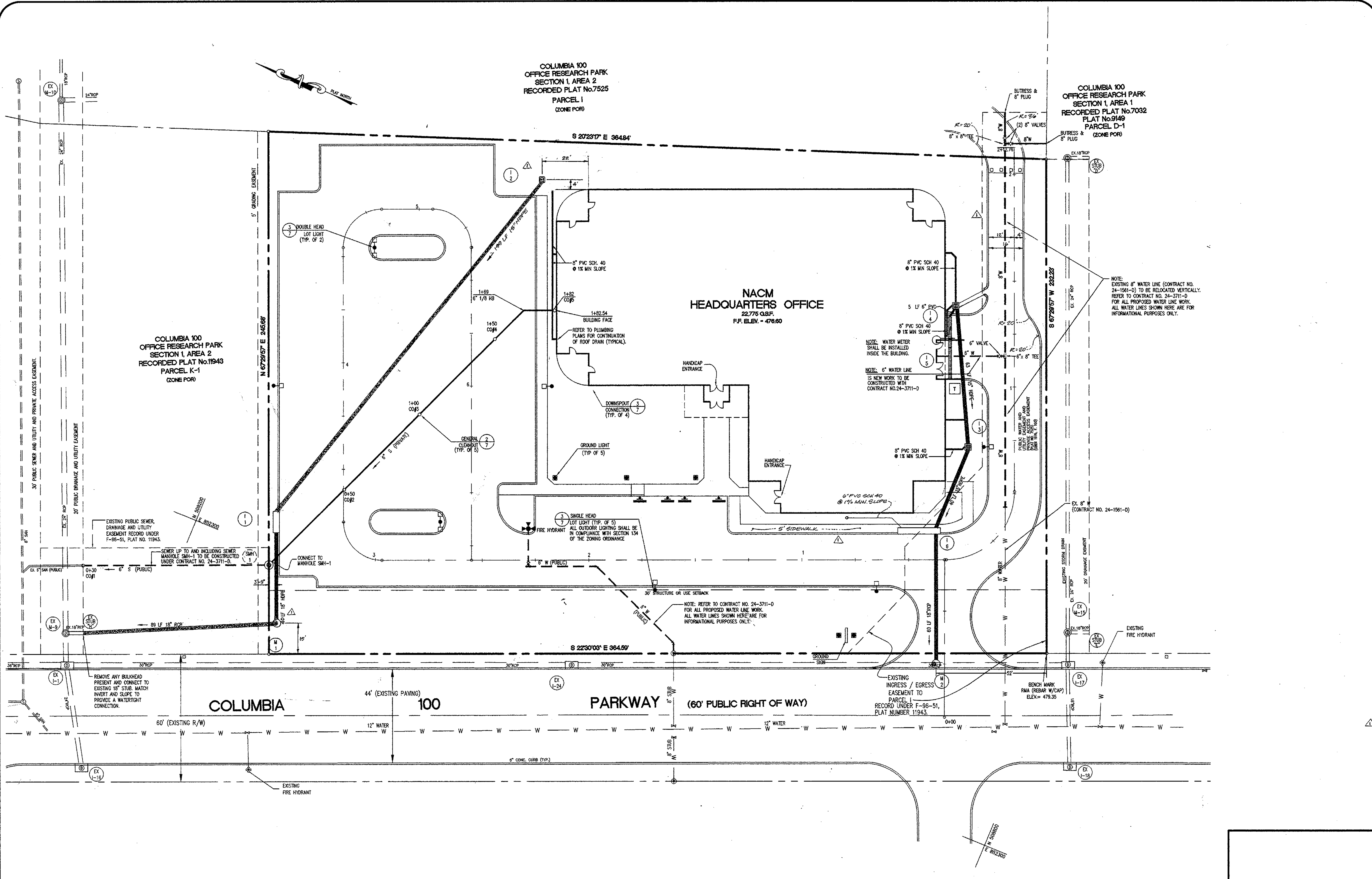
CURVE NO.	DELTA	RADIUS	ARC	TAN	CHD. BRG.	CHD. LEN.
1	90° 00' 00"	18.00'	28.27'	18.00'	N 22° 29' 57" E	25.46'
2	90° 00' 00"	18.00'	28.27'	18.00'	S 67° 30' 03" E	25.46'
3	90° 00' 00"	18.00'	28.27'	18.00'	S 22° 29' 57" W	25.46'
4	90° 00' 00"	32.00'	50.27'	32.00'	S 67° 30' 03" E	45.25'

PERMIT INFORMATION CHART

SUBDIVISION NAME	SECTION/AREA	LOT/PARCEL #
COLUMBIA 100 OFFICE RESEARCH PARK	SECTION 1, AREA 2	PARCEL H-1
PLAT NO. 11943	BLOCK NO. N/A	ZONING POR
TAX MAP 30	ELECTION DIST. 2nd	CENSUS TRACT 8023.02
WATER CODE 607	SEWER CODE 5750639	

APPROVED DEPARTMENT OF PLANNING AND ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION  
 DATE: 10/30/98  
  
 CHIEF, DIVISION OF LAND DEVELOPMENT  
 DATE: 11/5/98  
  
 DIRECTOR  
 DATE: 11/3/98



COLUMBIA 100  
OFFICE RESEARCH PARK  
SECTION 1, AREA 2  
RECORDED PLAT No. 7525  
PARCEL 1  
(ZONE POR)

COLUMBIA 100  
OFFICE RESEARCH PARK  
SECTION 1, AREA 1  
RECORDED PLAT No. 7032  
PLAT No. 9149  
PARCEL D-1  
(ZONE POR)

COLUMBIA 100  
OFFICE RESEARCH PARK  
SECTION 1, AREA 2  
RECORDED PLAT No. 11943  
PARCEL K-1  
(ZONE POR)

NACM  
HEADQUARTERS OFFICE  
22,775 G.S.F.  
F.F. ELEV. = 476.60

NOTE:  
EXISTING 8" WATER LINE (CONTRACT NO. 24-1561-D) TO BE RELOCATED VERTICALLY. REFER TO CONTRACT NO. 24-3711-D FOR ALL PROPOSED WATER LINE WORK. ALL WATER LINES SHOWN HERE ARE FOR INFORMATIONAL PURPOSES ONLY.

NOTE: WATER METER SHALL BE INSTALLED INSIDE THE BUILDING.

NOTE: 6" WATER LINE IS NEW WORK TO BE CONSTRUCTED WITH CONTRACT NO. 24-3711-D

NOTE: REFER TO CONTRACT NO. 24-3711-D FOR ALL PROPOSED WATER LINE WORK. ALL WATER LINES SHOWN HERE ARE FOR INFORMATIONAL PURPOSES ONLY.

NOTE: ALL OUTDOOR LIGHTING SHALL BE IN COMPLIANCE WITH SECTION 134 OF THE ZONING ORDINANCE

EXISTING PUBLIC SEWER, DRAINAGE AND UTILITY EASEMENT RECORDED UNDER F-95-51, PLAT NO. 11943.

SEWER UP TO AND INCLUDING SEWER MANHOLE SMH-1 TO BE CONSTRUCTED UNDER CONTRACT NO. 24-3711-D.

REMOVE ANY BULKHEAD PRESENT AND CONNECT TO EXISTING 18" STUB. MATCH INVERT AND SLOPE TO PROVIDE A WATERTIGHT CONNECTION.

PERMIT INFORMATION CHART					
SUBDIVISION NAME	SECTION/AREA	LOT/PARCEL #			
COLUMBIA 100 OFFICE RESEARCH PARK	SECTION 1, AREA 2	PARCEL H-1			
PLAT NO. 11943	BLOCK NO. N/A	ZONING POR	TAX MAP 30	ELECTION DIST. 2nd	CENSUS TRACT 6023.02
WATER CODE 607	SEWER CODE 5750639				

APPROVED: DEPARTMENT OF PLANNING AND ZONING

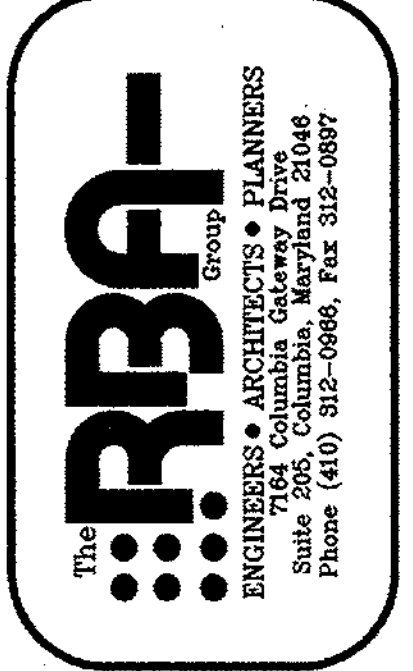
*Chip Hamstra* 10/30/98  
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

*Chip Hamstra* 11/3/98  
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

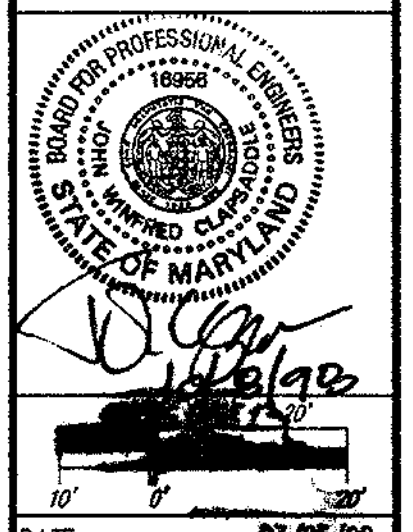
*James S. Bates* 11/3/98  
DIRECTOR DATE

SITE DEVELOPMENT PLANS FOR:  
**NACM HEADQUARTERS**  
COLUMBIA 100 OFFICE RESEARCH PARK  
SECTION 1, AREA 2, PARCEL H-1  
HOWARD COUNTY, MARYLAND

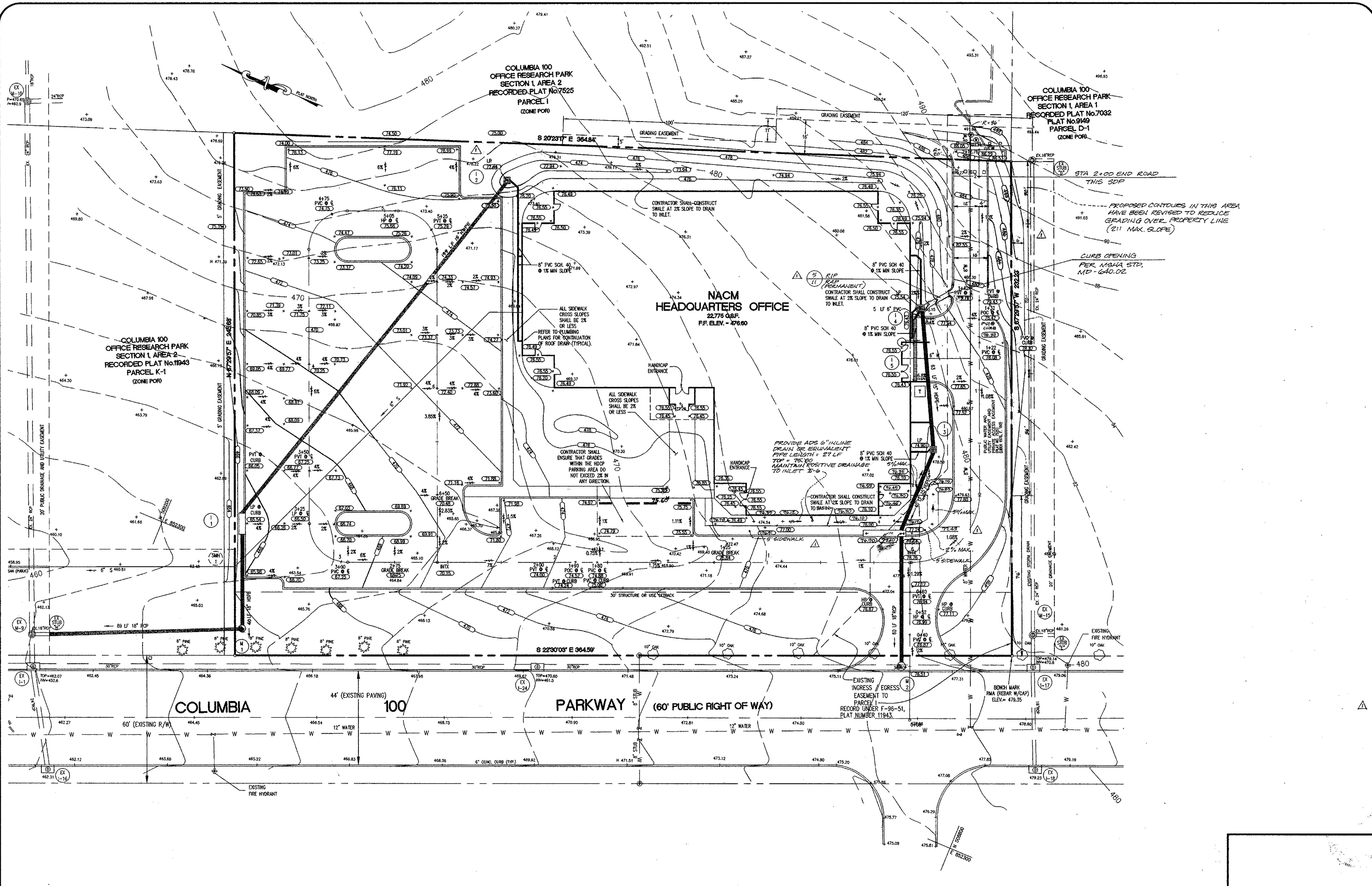
OWNER:  
**NATIONAL ASSOCIATION OF CREDIT MANAGEMENT REALTY CORPORATION**  
885 CENTRE PARK DRIVE  
SUITE 200  
COLUMBIA, MARYLAND 21045-2158  
(410) 740-5560



- REVISIONS
- 06/01/98 COUNTY COMMENTS
  - 09/21/98 COUNTY COMMENTS
  - 09/28/98 TRANSFORMER, LIGHTS
  - 11/18/98 SIDEWALK, DRIVEWAY ANGLE, STORM DRAIN



DATE: 03/05/98  
JOB NUMBER: 214100  
FILE NUMBER: 2141BASE  
PLOTTED: 09/28/98  
DRAWN BY: Chip/RJ  
UTILITY PLAN  
SHEET C-4  
4 of 15

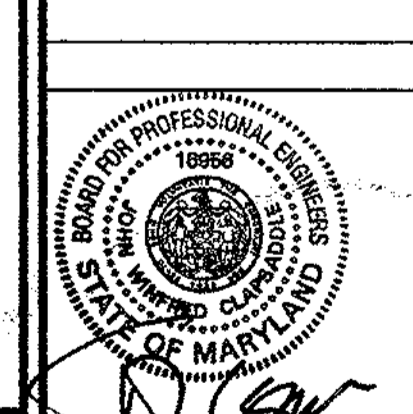


SITE DEVELOPMENT PLANS FOR:  
**NACM HEADQUARTERS**  
 COLUMBIA 100 OFFICE RESEARCH PARK  
 SECTION 1, AREA 2, PARCEL H-1  
 HOWARD COUNTY, MARYLAND

OWNER:  
**NATIONAL ASSOCIATION OF CREDIT  
 MANAGEMENT REALTY CORPORATION**  
 885 CENTRE PARK DRIVE  
 SUITE 200  
 COLUMBIA, MARYLAND 21045-2158  
 (410) 740-5560

**RBA**  
 GROUP  
 ENGINEERS • ARCHITECTS • PLANNERS  
 Suite 205, Columbia, Maryland 21046  
 Phone (410) 312-0886, Fax 312-0897

REVISIONS  
 06/01/98 COUNTY COMMENTS  
 09/28/98 TRANSFORMER  
 12/18/98 SIDEWALK,  
 DRIVEWAY APRLE,  
 STORM DRAIN, GRADING



GRAPHIC SCALE 1"=20'  
 DATE: 03/05/98  
 JOB NUMBER: M2141.00  
 FILE NUMBER: 2141BASE  
 PLOTTED: 09/28/98  
 DRAWN BY: Chip/RJ  
**GRADING AND DRAINAGE PLAN**  
 SHEET C-5  
 5 of 15

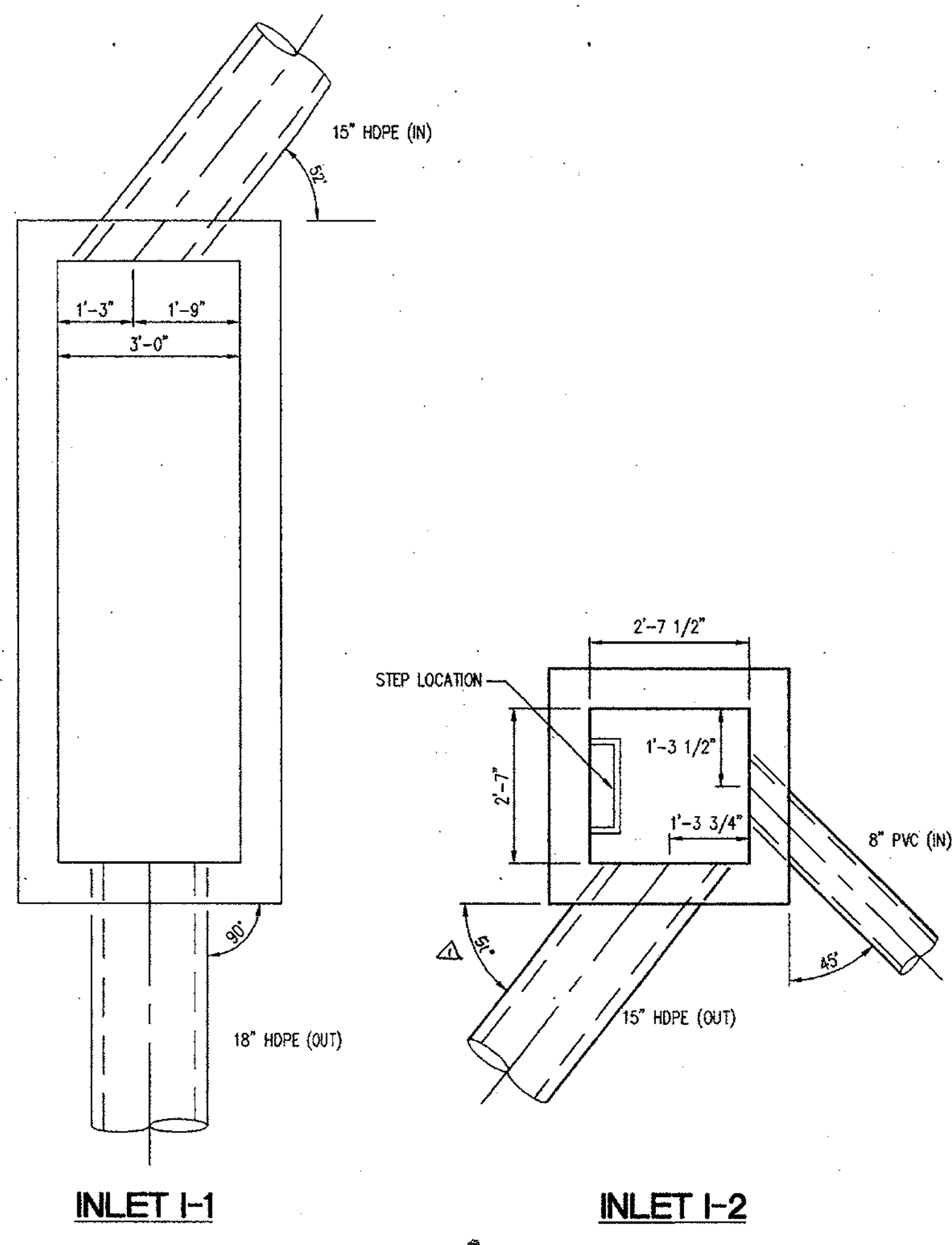
PERMIT INFORMATION CHART					
SUBDIVISION NAME	SECTION/AREA	LOT/PARCEL #			
COLUMBIA 100 OFFICE RESEARCH PARK	SECTION 1, AREA 2	PARCEL H-1			
PLAT NO.	BLOCK NO.	ZONING	TAX MAP	ELECTION DIST.	CENSUS TRACT
11943	N/A	POR	30	2nd	6023.02
WATER CODE	SEWER CODE				
607	5750638				

APPROVED: DEPARTMENT OF PLANNING AND ZONING

*Michael D. Williams* 10/30/98  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

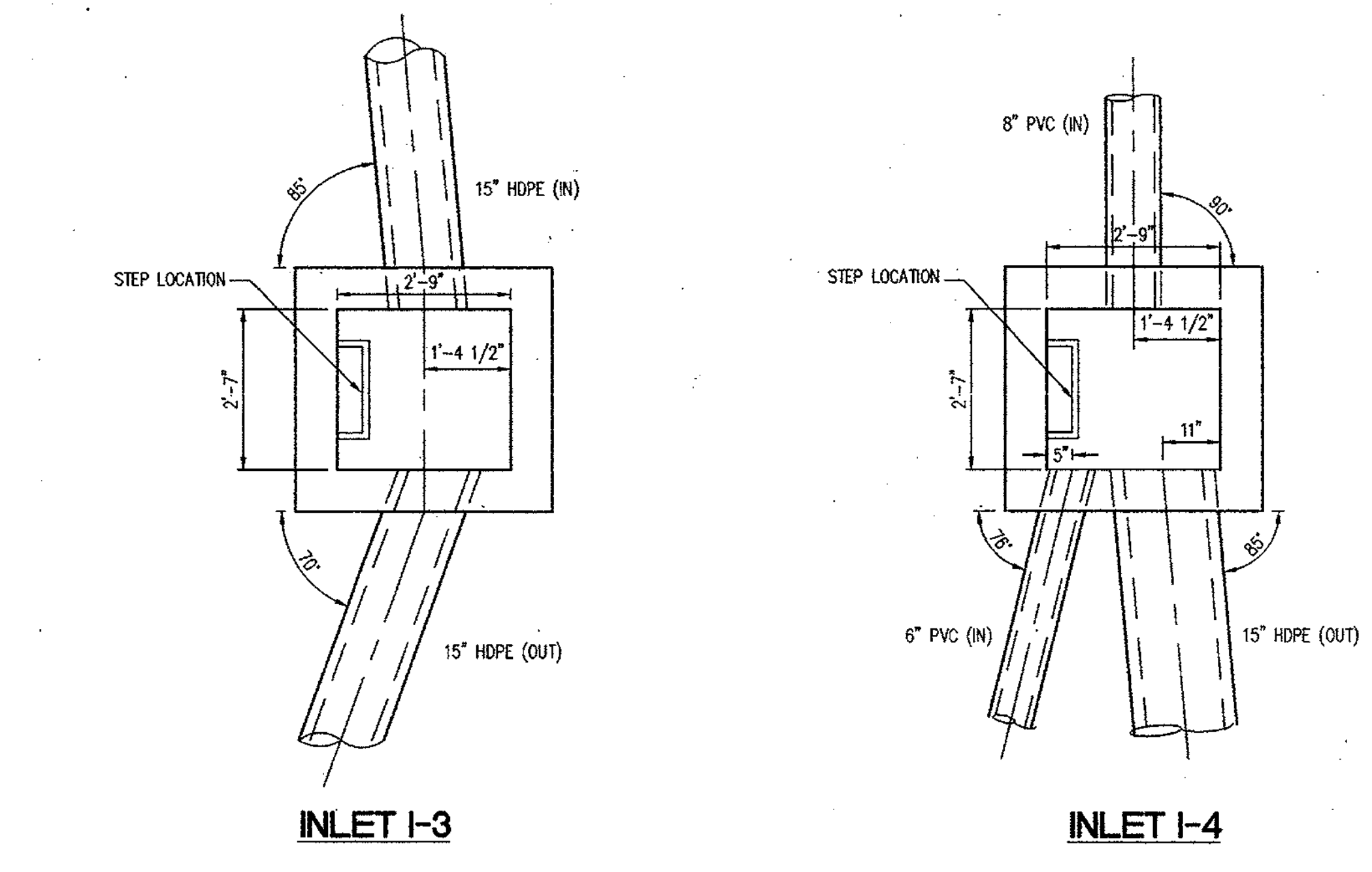
*Charles Hemmilla* 11/3/98  
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

*Gregory R. Smith* 11/3/98  
 DIRECTOR DATE



1 INLET PLANS  
SCALE: 1/2" = 1'-0"

- NOTES:
- REFER TO HOWARD COUNTY STANDARD DETAILS FOR ALL INFORMATION NOT SHOWN.
  - PROVIDE CHANNELIZED INVERTS FROM ALL INCOMING PIPES TO PROVIDE POSITIVE DRAINAGE TO OUTLET PIPES.



2 POLYDRAIN  
SCALE: NTS

### POLYDRAIN

#### The PolyDrain System Design

The PolyDrain Trench Drain System consists of 30 interlocking channels, each 3.19' (nominal one meter) in length. Non-sloping channels may also be inserted at specified intervals (see detail below) to extend channel runs. Catch basins and optional outlet plates may also be installed at designated locations. Closed end tees close-off ends of channel runs. NOTE: Always begin at the appropriate outlet channel and work towards the shallow end.

**A Few Typical Installation Profiles**

**PolyWall® Sidewall Extensions**

Exclusive to PolyDrain are our PolyWall I and PolyWall II trench walls. The use of PolyWall is also optional. PolyWall I and PolyWall II trench walls are designed to be used with PolyDrain channels. The designer or contractor can extend PolyWall, the rate of flow can be in a continuously sloped channel run from created as much as three times over the 98.1 feet to 294.3 feet without a catch basin.

**900 Series Small Catch Basins**

900 Series Catch Basins PolyDrain's 900 Series Catch Basins have the same outside dimensions as standard PolyDrain channels. Designed to accept sidewall extensions, they can be positioned any place in a channel run. The 900 Series Catch Basins are equipped with easy to remove galvanized steel trash buckets and can accept the full range of lockable inlet or frame and grate systems.

SITE DEVELOPMENT PLANS FOR:  
**NACM HEADQUARTERS**  
 COLUMBIA 100 OFFICE RESEARCH PARK  
 SECTION 1, AREA 2, PARCEL H-1  
 HOWARD COUNTY, MARYLAND

OWNER:  
**NATIONAL ASSOCIATION OF CREDIT MANAGEMENT REALTY CORPORATION**  
 8815 CENTRE PARK DRIVE  
 SUITE 200  
 COLUMBIA, MARYLAND 21045-2168  
 (410) 740-5560

NOTE: FOR CURB & GUTTER TRANSITION SEE DETAIL SD 4.02

**REINFORCING PLAN BELOW 4" SLAB**

**PLAN 4" TOP SLAB**

**SECTION 2-2**

**SECTION 1-1**

**SECTION 3-3**

**DETAIL "A"**

NOTES:

- CONCRETE SHALL CONFORM TO MARYLAND DOT STANDARD SPECIFICATION FOR CONSTRUCTION & MATERIALS 1802, MIX NO. 6 IN ADDITION TO 4500 PSI @ 28 DAYS. CEMENT SHALL BE TYPE II, AND #3 CONCRETE AGGREGATE SHALL BE USED.
- POLYPROPYLENE STEPS SHALL BE TYPE PS 4 OR PS 5 AS MANUFACTURED BY M.A. INDUSTRIES, INC. STEP SHALL BE INSTALLED IN LINE WHERE A > 3'-6" (SEE 9.5.21)
- REFERENCE DRAWING FOR TYPE A-10 INLET IS HOWARD COUNTY STANDARD DRAWING NO. SD 4.02
- REINFORCING SCHEDULE IS BASED ON USD METHOD AND DESIGN LOADS AS SPECIFIED IN AASHTO STANDARD SPECIFICATION FOR HIGHWAY BRIDGES, 13TH EDITION, 1983 AND INTERIM SPECIFICATIONS.
- WEIGHTS: 4" TOP SLAB WT. = 2,000# (10' HEIGHT, I.D.)  
MAX. INLET BOX WT. = 24,000# (10' HEIGHT, I.D.)  
RISER WT./LF = 2,000#/LF
- PROVIDE 3" RUST PROOF STEEL PIPE, PAINTED GRAY AT MID POINT OF THROAT, FILL WITH CONCRETE.

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

PRECAST STANDARD  
TYPE A-10 INLET

DRAWN BY: *[Signature]*  
CHECKED BY: *[Signature]*  
SCALE: NONE  
SD 4.41

3 A-10 INLET (INLET I-1)  
SCALE: NTS

**PLAN (SHOWN WITHOUT CONC. SLAB)**

**SECTION A-A**

**SECTION B-B**

**SECTION C-C**

NOTE: CURB OPENING SHOULD NOT ENCRUST ON CROSSWALK AREAS. INLETS SHALL BE CONSTRUCTED OF REINFORCED CONCRETE (MIX NO. 3). SIZE, TYPE & DIRECTION OF INLET CONNECTION WILL VARY TO SUIT CONDITIONS. REINFORCEMENT REQUIRED ON OUTSIDE, AS WELL AS ON INSIDE OF WALLS WHEN "A" IS GREATER THAN 7'-0". SPACING, SAME AS FOR INSIDE OF WALL. PLACE EXPANSION MATERIAL (SAME TYPE APPROVED FOR PAVEMENT) AS INDICATED. LADDER RUNGS SHALL BE IN ACCORDANCE WITH STD. MD-343.91 AND MD-343.92 OR AS DIRECTED BY THE ENGINEER. ANGLES & ANCHOR BOLTS TO BE GALVANIZED IN ACCORDANCE WITH ASTM A-153 AFTER WELDING.

STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES  
STANDARD C O G INLETS  
5', 10', 15' & 20'  
STANDARD NO. MD - 374. 81

APPROVAL: *[Signature]* DATE: 11-18-98  
FEDERAL HIGHWAY ADMINISTRATION

4 A-20 INLET (INLET I-6)  
SCALE: NTS

**31" x 33" Precast Inlet Box**  
MARYLAND D.O.T. TYPE SINGLE WR

NOTES:

- MATERIALS CONFORM TO THE MARYLAND D.O.T. "STANDARD SPECIFICATIONS FOR HIGHWAY STRUCTURES."
- CONCRETE CONFORMS TO MARYLAND D.O.T. MIX NO. 6.
- REINFORCING - 2 LAYERS 4 # 4 & 4 # 4 W/ 6# WELDED WIRE FABRIC CONFORMS TO ASTM A-185.
- LADDER RUNGS INDICATED AS REQUIRED IN ACCORDANCE WITH STANDARD MD-343.91.
- PRECAST STRUCTURES SHALL BE PLACED ON 6" OF COMPACTED AGGREGATE.
- INVERTS PLACED AS REQUIRED BY OTHERS.
- BOX HEIGHTS AVAILABLE IN 3" INCREMENTS.
- FINAL GRADE ADJUSTMENT TO BE COMPLETED IN FIELD BY OTHERS.

TERRE HILL  
6000 BROADWAY, N.B.  
Terre Hill, PA 17581 (215) 445-6738

5 YARD INLET (INLETS I-3 AND I-4)  
SCALE: NTS

PERMIT INFORMATION CHART

SUBDIVISION NAME COLUMBIA 100 OFFICE RESEARCH PARK	SECTION/AREA SECTION 1, AREA 2	LOT/PARCEL # PARCEL H-1
PLAT NO. 11943	BLOCK NO. N/A	ZONING POR
TAX MAP 30	ELECTION DIST. 2nd	CENSUS TRACT 6023.02
WATER CODE G07	SEWER CODE 5750639	

APPROVED: DEPARTMENT OF PLANNING AND ZONING

*[Signature]*  
CHIEF, DEVELOPMENT ENGINEERING DIVISION  
DATE: 10/30/98

*[Signature]*  
CHIEF, DIVISION OF LAND DEVELOPMENT  
DATE: 11/3/98

*[Signature]*  
DIRECTOR  
DATE: 11/3/98

**RBA**  
ENGINEERS & ARCHITECTS • PLANNERS  
Suite 206, Columbia Gateway Drive  
Columbia, Maryland 21048  
Phone (410) 312-0806, Fax (410) 312-0897

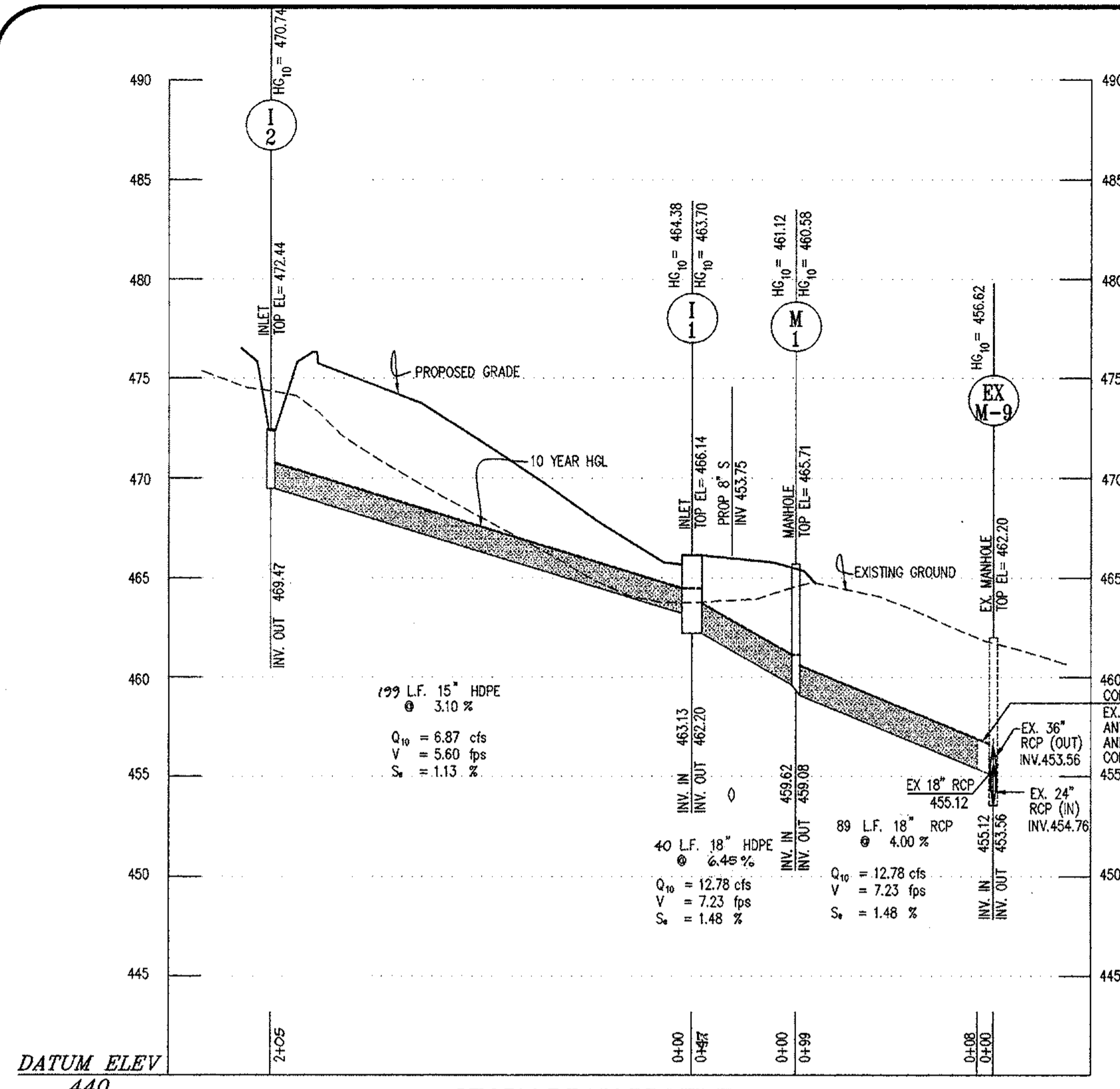
REVISIONS  
06/01/98 COUNTY COMMENTS

12/18/98 PIPE ANGLE  
INLET I-2

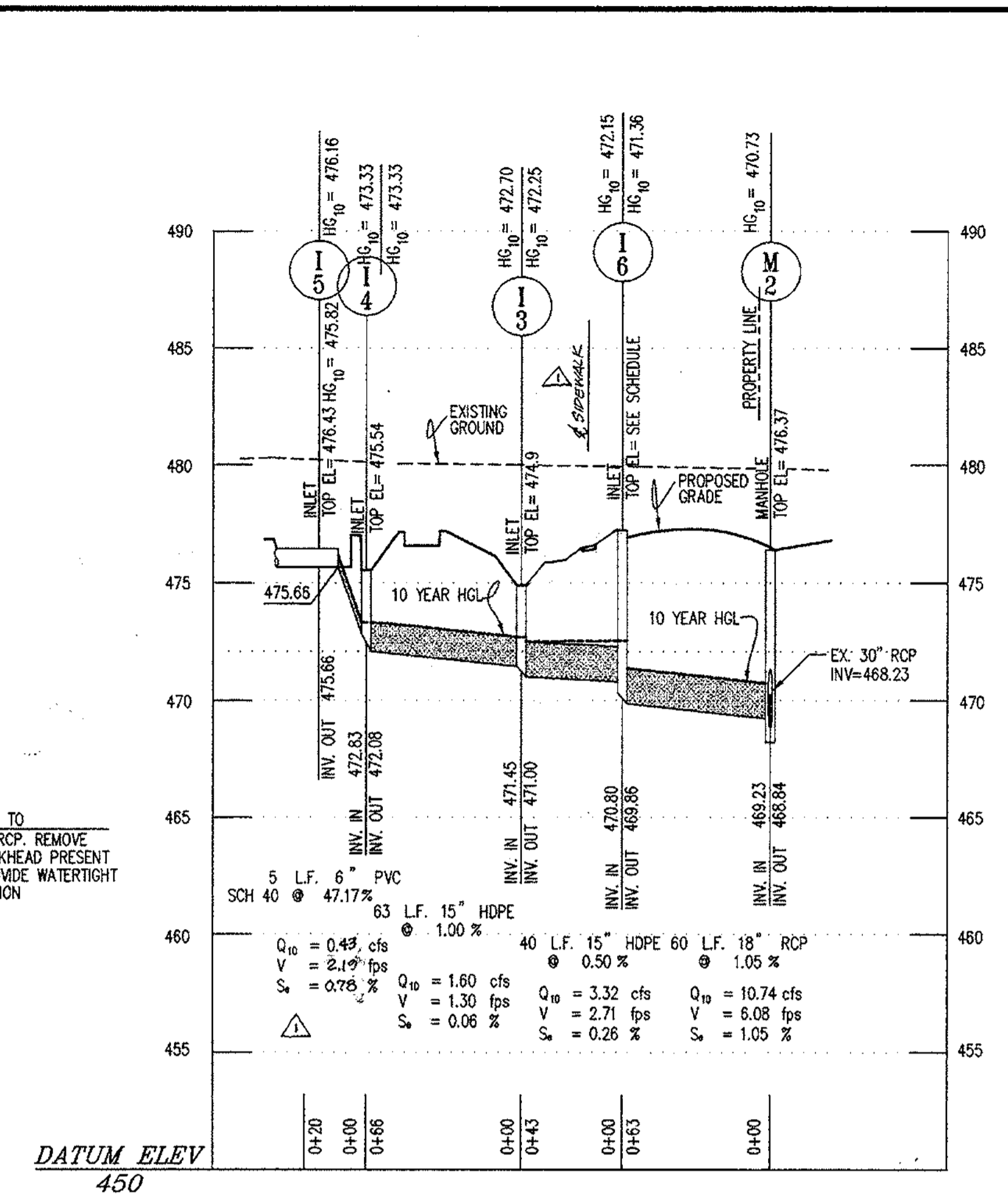
DATE: 03/05/98  
JOB NUMBER: M2141.00  
FILE NUMBER: 2141DET3  
PLOTTED: 06/10/98  
DRAWN BY: Chip

DETAILS III

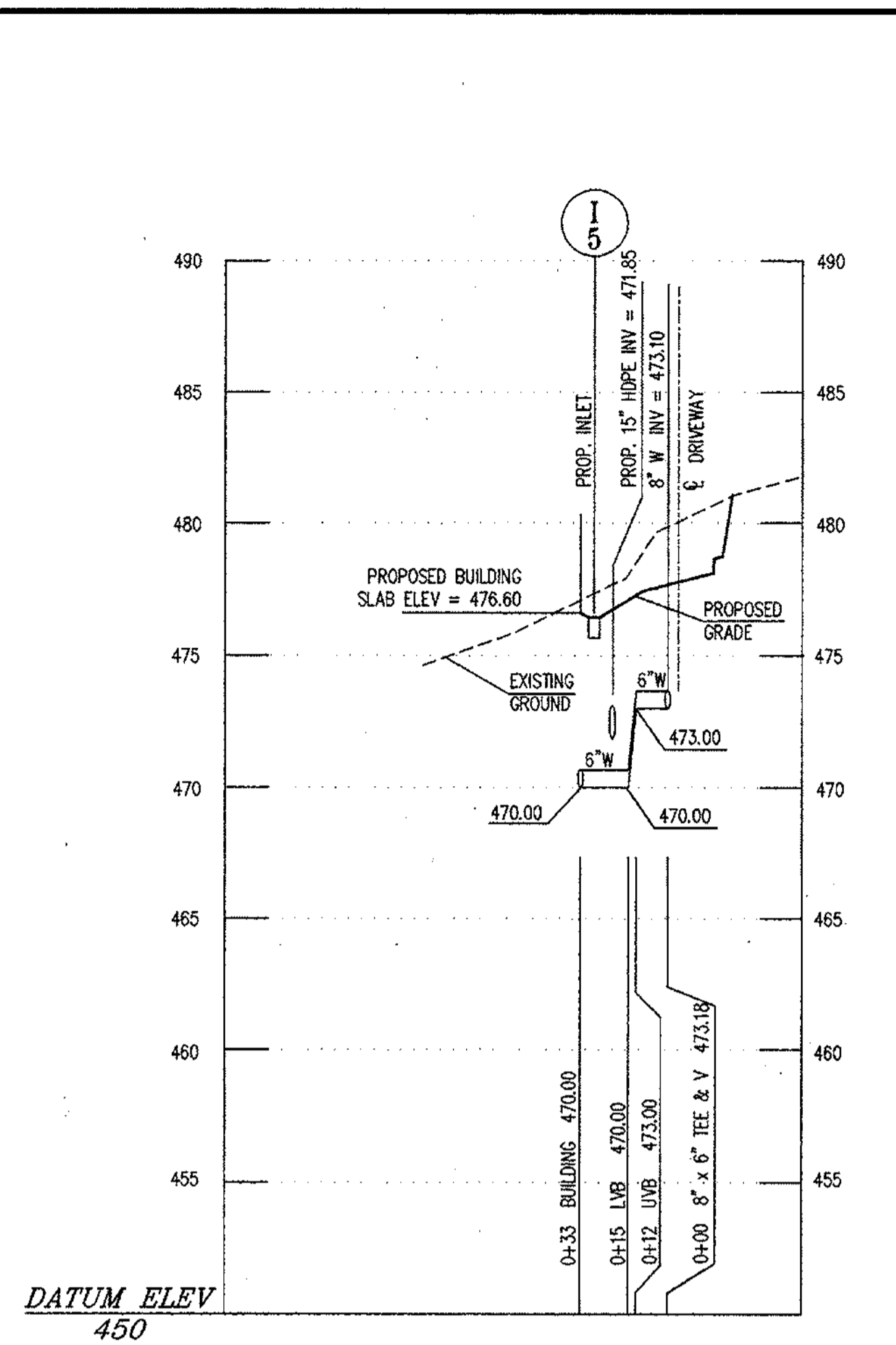
SHEET C-8  
8 of 15



**1 STORM DRAIN PROFILE**  
 SCALE: 1" = 50' HORIZ.  
 1" = 5' VERT.



**2 STORM DRAIN PROFILE**  
 SCALE: 1" = 50' HORIZ.  
 1" = 5' VERT.



**4 WATER LINE PROFILE**  
 SCALE: 1" = 50' HORIZ.  
 1" = 5' VERT.

PIPE SCHEDULE		
SIZE	TYPE	LINEAR FOOTAGE
6"	PVC SCH 40	6
15"	HDPE	302
18"	HDPE	45
18"	RCP	149

STRUCTURE SCHEDULE						
NUMBER	TYPE	LOCATION		TOP ELEVATION		REMARKS
		STATION	OFFSET	UPPER	LOWER	
I-1	A-10 INLET	3+25	30' LT	466.14	466.14	HOWARD COUNTY STANDARD SD 4.41
I-2	S INLET	SEE	PLAN	472.44	472.44	HOWARD COUNTY STANDARD SD 4.22 OR OPTIONAL TERRE HILL INLET
I-3	YARD INLET	0+73	22' LT	474.90	474.90	TERRE HILL 31"X33" PRECAST INLET
I-4	YARD INLET	1+39	28' LT	475.54	475.02	TERRE HILL 31"X33" PRECAST INLET
I-5	TRENCH DRAIN	SEE	PLAN	476.43	476.43	POLYDRAIN WITH #720 GRATES
I-6	A-20 INLET	0+72	12' LT	477.10	476.90	MARYLAND SHA STANDARD NO. MD-374.31
M-1	PRECAST MANHOLE	SEE	PLAN	465.71	465.71	HOWARD COUNTY STANDARD G 5.13
M-2	BUILT OVER MANHOLE	0+25	4' LT	476.37	476.37	HOWARD COUNTY STANDARD G 5.14

- NOTES**
- ALL STRUCTURES ARE HOWARD COUNTY STANDARDS UNLESS NOTED OTHERWISE. REFER TO SHEETS C-8 AND C-9 FOR DETAILS.
  - STATIONS ARE GIVEN TO CENTER OF STRUCTURE AT FACE OF CURB FOR CURB INLETS AND TO CENTER OF STRUCTURE FOR ALL OTHER STRUCTURES.
  - ELEVATIONS ARE GIVEN TO TOP OF CURB FOR CURB INLETS, TOP OF GRATE FOR GRATE INLETS AND TOP OF LID FOR MANHOLES.
  - TRENCH DRAIN SHALL INCLUDE ALL ITEMS NECESSARY TO MAKE Viable CONNECTION INCLUDING END PLATES, CONNECTORS, ETC.
  - STRUCTURES MAY BE PRECAST BY TERRE HILL OR APPROVED PRECAST MANUFACTURER.

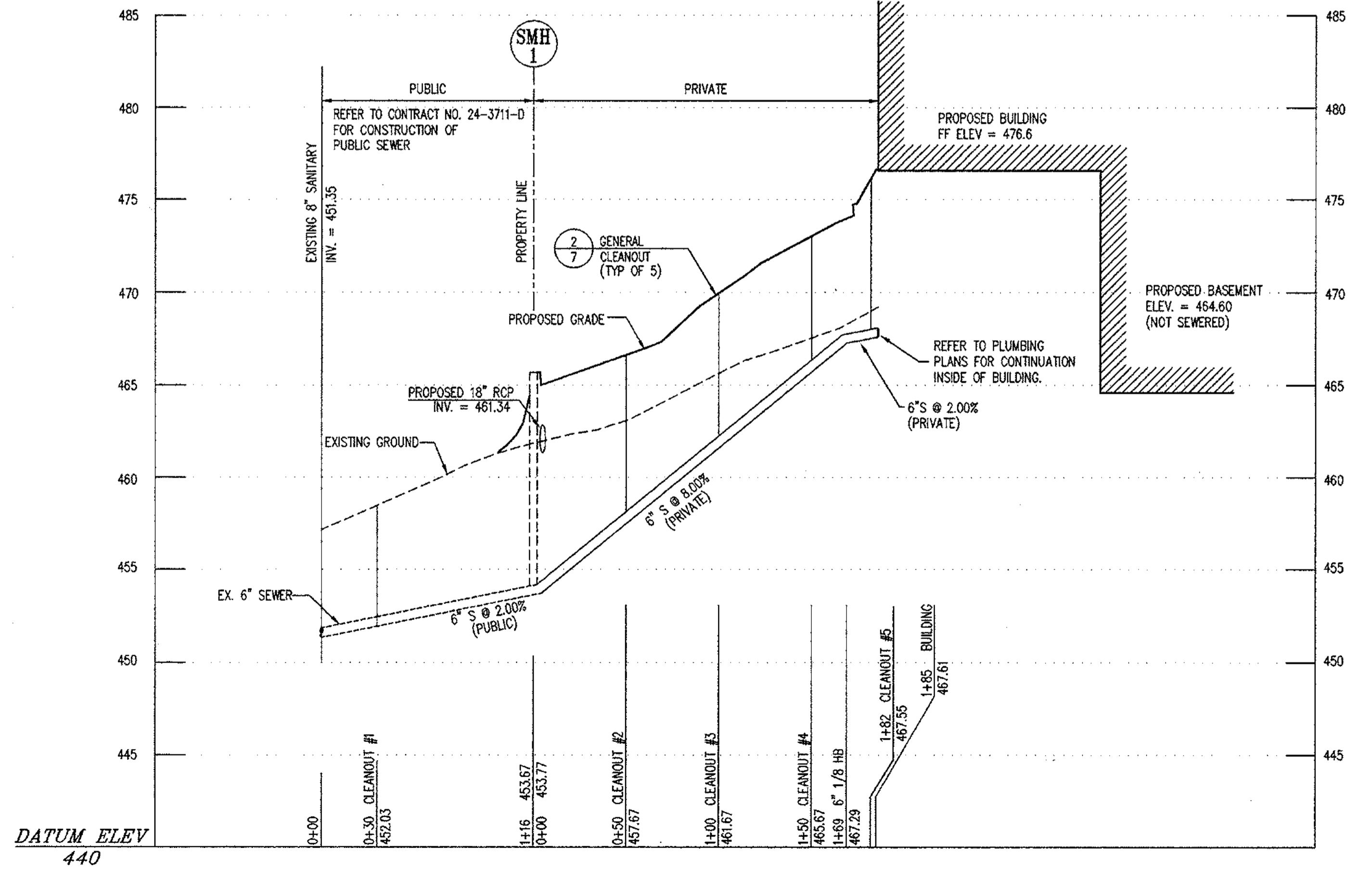
PERMIT INFORMATION CHART					
SUBDIVISION NAME	BLOCK NO.	ZONING	TAX MAP	ELECTION DIST.	CENSUS TRACT
COLUMBIA 100 OFFICE RESEARCH PARK	N/A	POR	30	2nd	6023.02
WATER CODE 607			SEWER CODE 5750636		

APPROVED: DEPARTMENT OF PLANNING AND ZONING

*[Signature]* 10/30/98  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

*[Signature]* 11/3/98  
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

*[Signature]* 11/3/98  
 DIRECTOR DATE



**5 SANITARY SEWER PROFILE**  
 SCALE: 1" = 50' HORIZ.  
 1" = 5' VERT.

SITE DEVELOPMENT PLANS FOR:  
**NACM HEADQUARTERS**  
 COLUMBIA 100 OFFICE RESEARCH PARK  
 SECTION 1, AREA 2, PARCEL H-1  
 HOWARD COUNTY, MARYLAND

OWNER:  
**NATIONAL ASSOCIATION OF CREDIT MANAGEMENT REALTY CORPORATION**  
 8815 CENTRE PARK DRIVE  
 SUITE 200  
 COLUMBIA, MARYLAND 21045-2188  
 (410) 740-5560

**RBA** Group  
 ENGINEERS • ARCHITECTS • PLANNERS  
 200 Columbia Gateway Drive  
 Suite 200  
 Columbia, MD 21046  
 Phone (410) 312-0686, Fax 312-0687

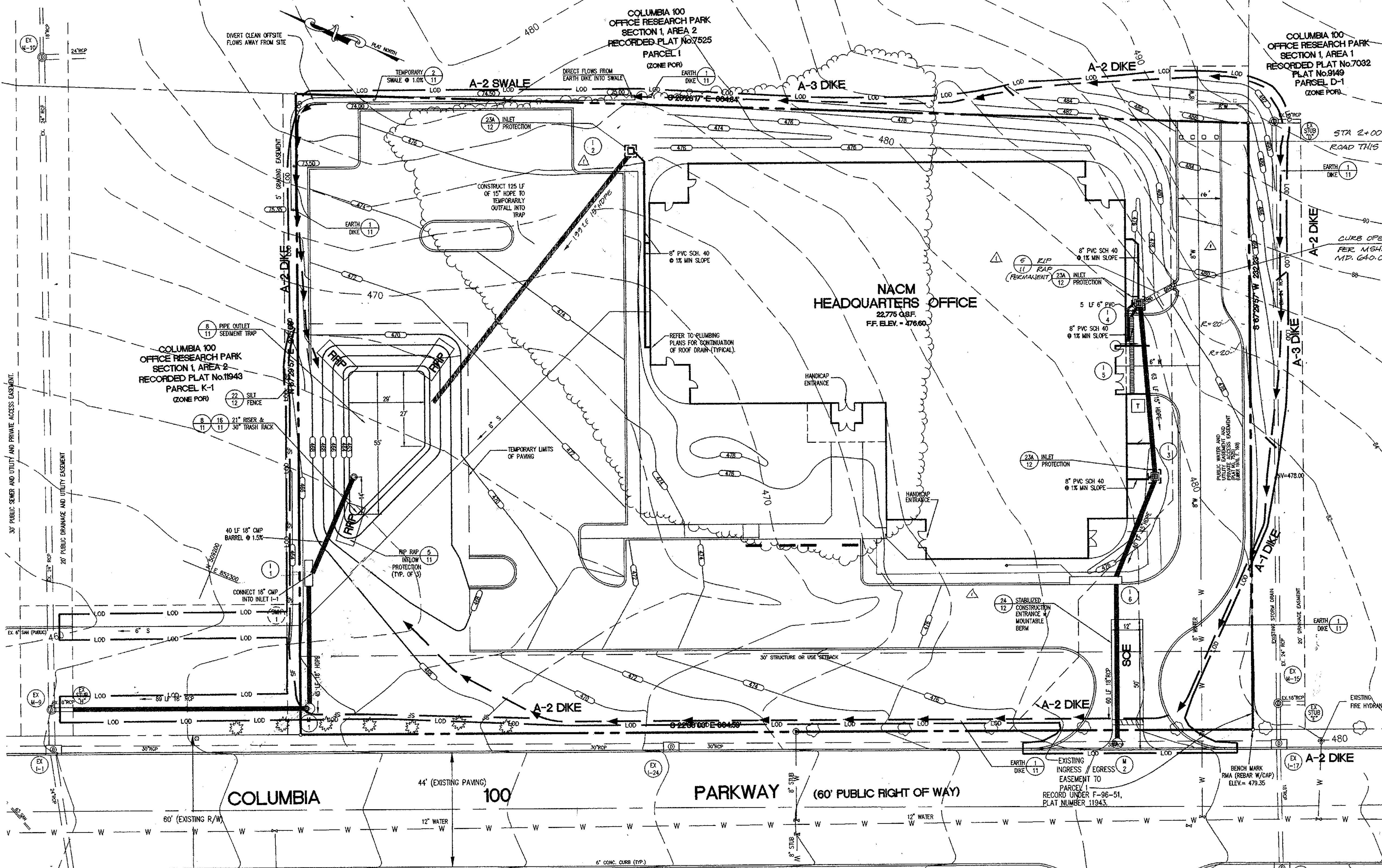
REVISIONS

06/01/98	COUNTY COMMENTS
09/21/98	COUNTY COMMENTS
09/28/98	SCHEDULES & PROFILES
12/18/98	SCHEDULE & PROFILES

*[Professional Engineer Seal]*  
 STATE OF MARYLAND  
 PROFESSIONAL ENGINEER  
 No. 10000  
 J. J. [Signature]

DATE: 03/05/98  
 JOB NUMBER: M2141.00  
 FILE NUMBER: 2141PROF  
 PLOTTED: 09/28/98  
 DRAWN BY: Chip

PROFILES  
 SHEET C-9  
 9 of 15



**SEQUENCE OF CONSTRUCTION**

- OBTAIN ALL PERMITS REQUIRED TO BEGIN CONSTRUCTION, SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE ASSIGNED INSPECTOR TO REVIEW ALL SITE ISSUES (5 DAYS).
- CLEAR ALL UTILITIES BY CALLING MISS UTILITY. LOCATE ANY REMAINING UTILITIES THROUGH A PRIVATE LOCATING COMPANY TO INSURE ALL EXISTING UTILITIES HAVE BEEN FOUND AND MARKED (2 DAYS).
- INSTALL STABILIZED CONSTRUCTION ENTRANCE (1/2 DAY).
- INSTALL INLETS I-1, AND MANHOLES M-1, AS WELL AS CONNECTING PIPES. INSTALL INLET PROTECTION OR BLOCK INLET I-1, TO AVOID FLOW ENTERING (3 DAYS).
- CONSTRUCT SEDIMENT TRAP (3 DAYS).
  - INSTALL SILT FENCE AS SHOWN ON PLANS.
  - CONSTRUCT 16-INCH CMP BARREL, ANTI-SEEP COLLAR AND RISER. CONNECT BARREL INTO INLET I-1.
  - CONSTRUCT EMBANKMENT AND EXCAVATE TRAP AS PER PLANS.
  - CONSTRUCT RIP-RAP INFLOW PROTECTION DEVICES.
- CONSTRUCT EARTH DIKES AND SWALES. DIRECT FLOWS FROM REAR LOT INTO TEMPORARY SWALE (2 DAYS).
- SCHEDULE AN INSPECTION AND OBTAIN APPROVAL OF ALL SEDIMENT CONTROL DEVICES BEFORE CONTINUING (2 DAYS).
- BEGIN ROUGH GRADING, MAINTAIN ALL SEDIMENT CONTROL DEVICES AS NEEDED. PROVIDE POSITIVE DRAINAGE TO ALL SEDIMENT CONTROL DEVICES (2 WEEKS).
- UPON COMPLETION OF ROUGH GRADING BEGIN BUILDING CONSTRUCTION (4 MONTHS).
- BEGIN UTILITY CONSTRUCTION INCLUDING WATER, SEWER AND STORM DRAIN. DELAY CONSTRUCTION OF PIPE WITHIN SEDIMENT TRAP. INSTALL INLET PROTECTION IMMEDIATELY UPON CONSTRUCTION OF INLETS (2 WEEKS).
- UPON COMPLETION OF UTILITIES, OBTAIN APPROVALS AND BACKFILL. BEGIN CURB AND GUTTER CONSTRUCTION (1 WEEK).
- FINE GRADE PARKING LOT AND APPLY BASE PAVING. DELAY SURFACE PAVING UNTIL ALL HEAVY EQUIPMENT HAS LEFT THE SITE (2 WEEKS).
- CHECK SEDIMENT CONTROL DEVICES DAILY AND AFTER EACH RAINSTORM. MAKE ANY REPAIRS NECESSARY TO BRING DEVICES TO ORIGINAL SPECIFICATIONS (DAILY).
- STABILIZE ALL AREAS UPON COMPLETION OF GRADING IN THAT AREA. INSTALL FINAL LANDSCAPING UPON COMPLETION OF BUILDING EXTERIOR (2 WEEKS).
- UPON COMPLETE STABILIZATION OF SITE, OBTAIN INSPECTOR'S APPROVAL AND REMOVE TRAP. INSTALL REMAINING STORM DRAIN, BACKFILL TRAP AND STABILIZE IMMEDIATELY WITH PAVEMENT OR VEGETATION (2 WEEKS).
- INSTALL SURFACE COURSE PAVING AND STABILIZE ANY REMAINING AREAS. REMOVE ANY REMAINING SEDIMENT CONTROL DEVICES UPON APPROVAL OF INSPECTOR (1 WEEK).

**LEGEND**

- Stabilized Construction Entrance
- Inlet Protection
- Silt Fence
- Drainage Divide
- Limit of Disturbance
- Temporary Diversion
- Soil Boundary
- Soil Type
- Rip Rap Protection

**CERTIFICATION BY THE ENGINEER**

I HEREBY CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION 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.

NAME: John V. Clapsone, P.E. DATE: 10/21/98  
 REVIEWED FOR HOWARD COUNTY S.C.D. AND MEETS TECHNICAL REQUIREMENTS.  
 SIGNATURE: Charles Simmons DATE: 10/29/98  
 SIGNATURE: John R. DeLator DATE: 10/29/98

**CERTIFICATION BY THE DEVELOPER/BUILDER**

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR SEDIMENT AND EROSION CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.  
 NAME: James E. Vanghel DATE: 10-21-98

**PIPE OUTLET SEDIMENT TRAP ST-1**

DRAINAGE AREA = 2.10 AC  
 REQUIRED STORAGE:  
 WET = 3,780 CF  
 DRY = 3,780 CF  
 TOTAL = 7,560 CF  
 PROVIDED STORAGE:  
 WET = 3,800 CF  
 DRY = 3,850 CF  
 TOTAL = 7,650 CF  
 BOTTOM ELEV = 463.00  
 TOP OF EMBANKMENT ELEV = 468.00  
 RISER CREST ELEV = 467.00  
 RISER DIAMETER = 21"  
 BARREL DIAMETER = 18"  
 BARREL INVERTS:  
 UPSTREAM = 463.00  
 DOWNSTREAM = 462.40  
 WET ELEVATION = 465.40  
 CLEAN OUT ELEVATION = 464.00  
 TRASH RACK DIAMETER = 30"  
 STORAGE DEPTH = 4.0'  
 BOTTOM DIMENSIONS: SEE PLAN

PERMIT INFORMATION CHART				
SUBDIVISION NAME COLUMBIA 100 OFFICE RESEARCH PARK	SECTION/AREA SECTION 1, AREA 2	LOT/PARCEL # PARCEL H-1	ELECTION DIST. 2nd	CENSUS TRACT 6023.02
PLAT NO. 11943	BLOCK NO. N/A	ZONING POR	TAX MAP 30	
WATER CODE 007	SEWER CODE 5750639			

APPROVED: DEPARTMENT OF PLANNING AND ZONING  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION: 10/30/98  
 CHIEF, DIVISION OF LAND DEVELOPMENT: 11/3/98  
 SUPERVISOR: 11/3/98

SITE DEVELOPMENT PLANS FOR:  
**NACM HEADQUARTERS**  
 COLUMBIA 100 OFFICE RESEARCH PARK  
 SECTION 1, AREA 2, PARCEL H-1  
 HOWARD COUNTY, MARYLAND

OWNER:  
**NATIONAL ASSOCIATION OF CREDIT MANAGEMENT REALTY CORPORATION**  
 8815 CENTRE PARK DRIVE  
 SUITE 200  
 COLUMBIA, MARYLAND 21045-2168  
 (410) 740-5560

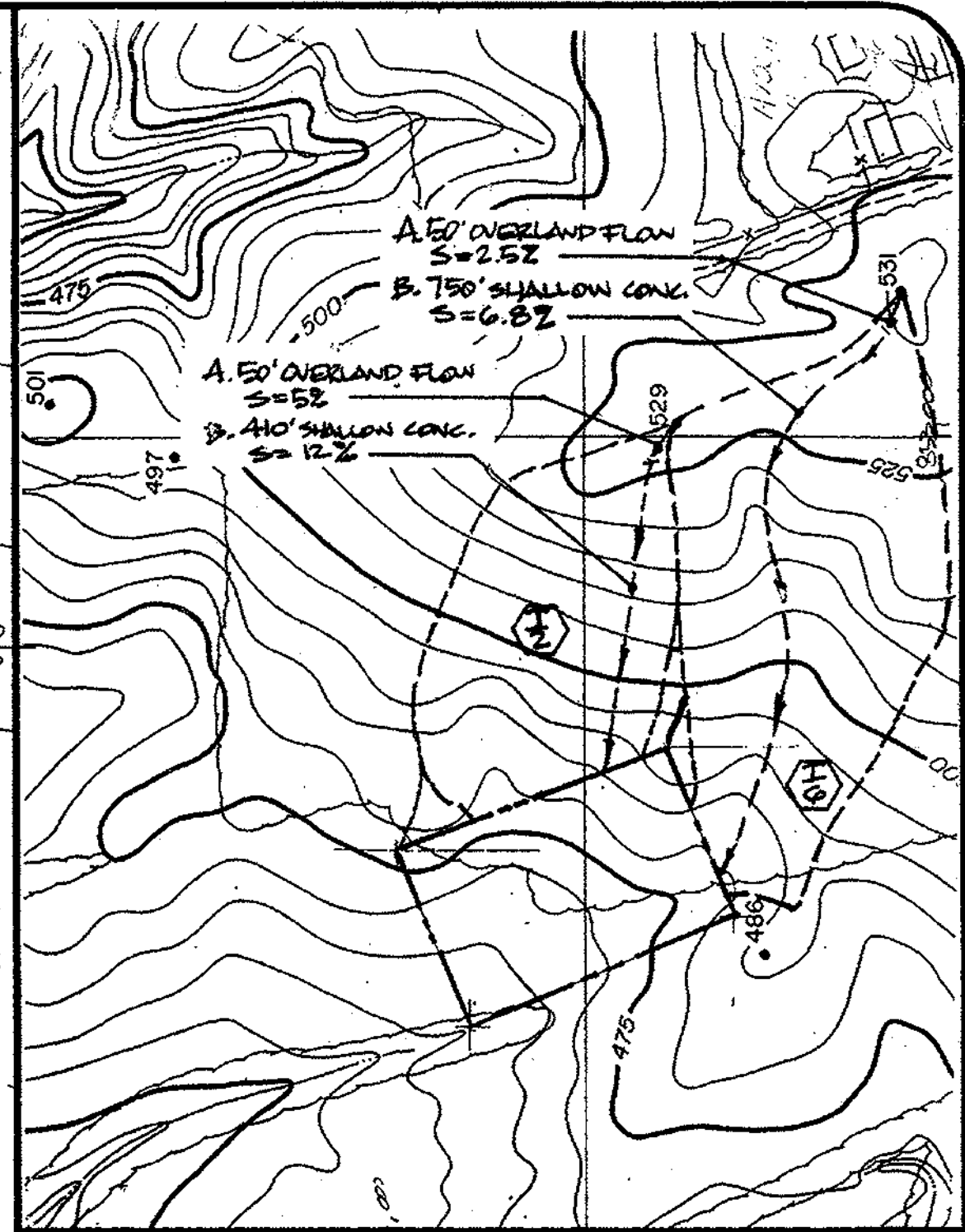
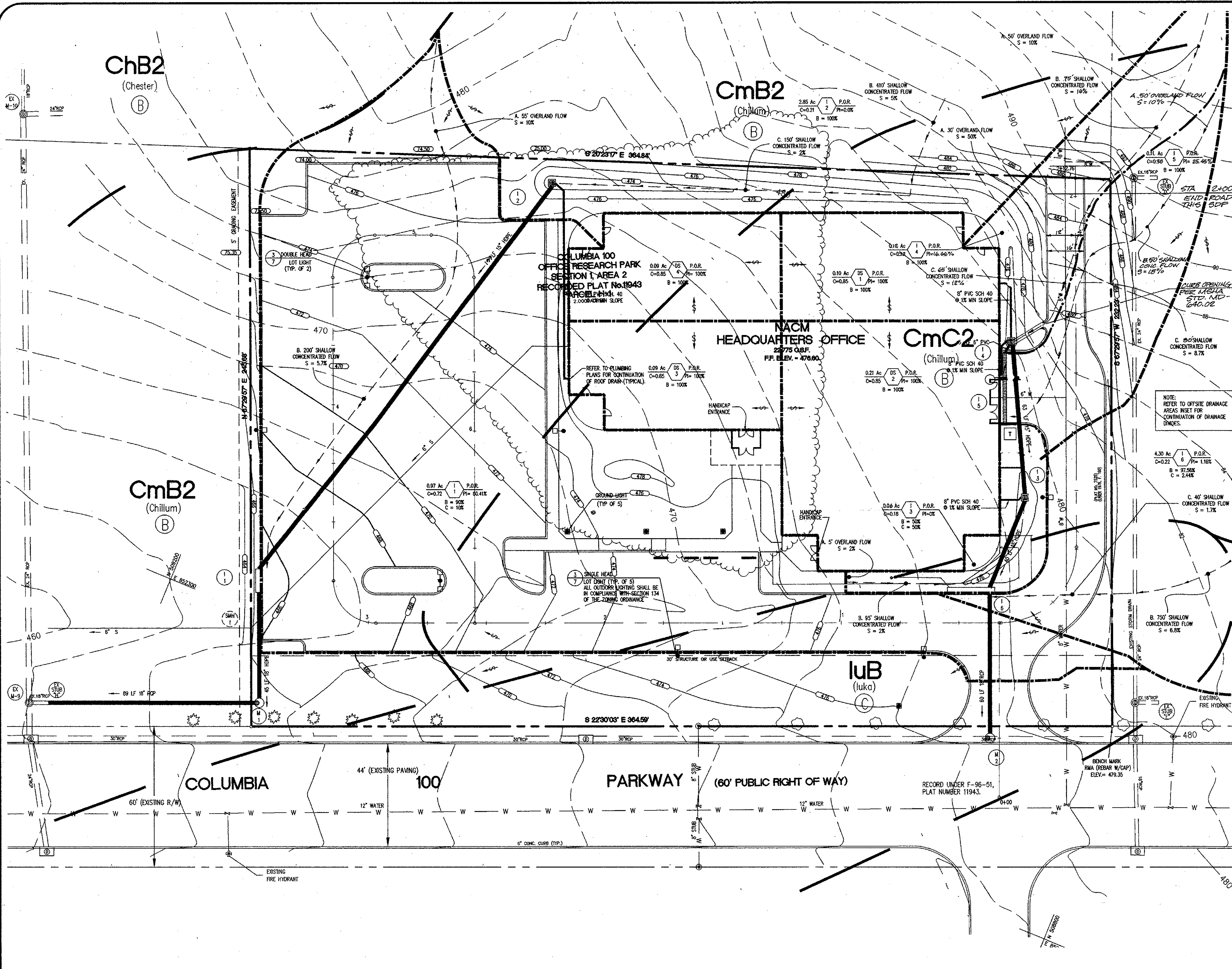
**RBAL**  
 ENGINEERS • ARCHITECTS • PLANNERS  
 Suite 1164 Columbia Gateway Drive - 148  
 Phone (410) 312-0088, Fax 312-0887

REVISIONS  
 06/01/98 COUNTY COMMENTS  
 09/28/98 TRANSFORMER  
 12/18/98 SIDEWALK,  
 DRIVEWAY ASLE,  
 STORM DRAIN

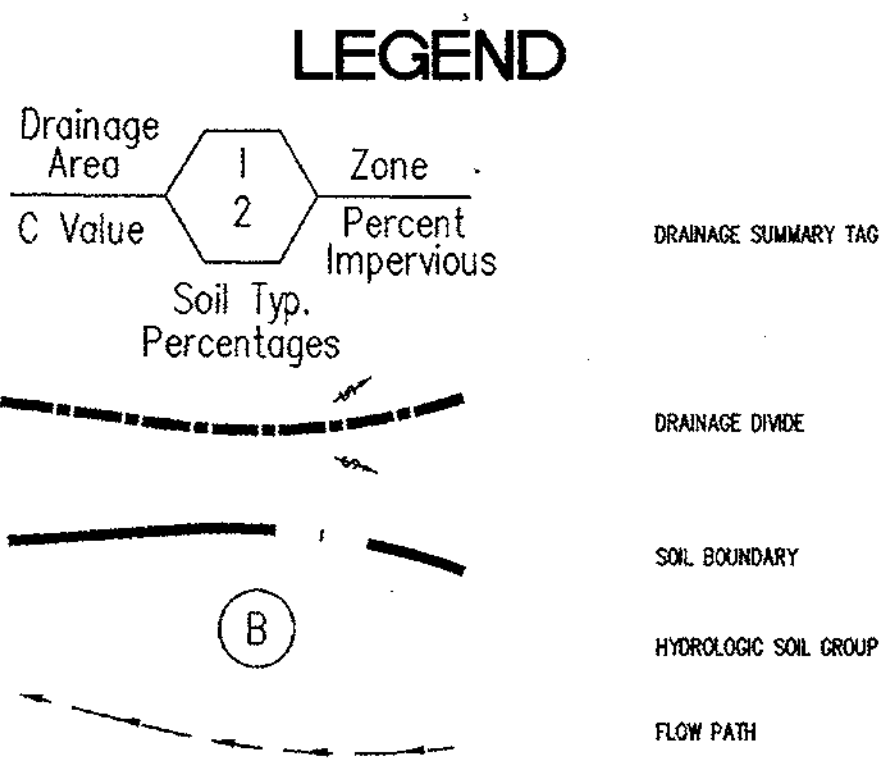
DATE: 03/05/98  
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 FILE NUMBER: 2141BASE  
 PLOTTED: 09/28/98  
 DRAWN BY: Chip/RJ

SEDIMENT AND EROSION CONTROL  
 SHEET C-10  
 10 OF 15





OFFSITE DRAINAGE AREAS  
SCALE: 1" = 200'



PERMIT INFORMATION CHART			
SUBDIVISION NAME COLUMBIA 100 OFFICE RESEARCH PARK	SECTION/AREA SECTION 1, AREA 2	LOT/PARCEL # PARCEL H-1	
PLAT NO. 11943	BLOCK NO. N/A	ZONING POR	TAX MAP 30
		ELECTION DIST. 2nd	CENSUS TRACT 6022.02
WATER CODE 607		SEWER CODE 5750639	

APPROVED: DEPARTMENT OF PLANNING AND ZONING

*John D. Williams* 10/20/98  
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

*Chris Hamilton* 11/3/98  
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

*Angela S. Smith* 11/3/98  
DIRECTOR DATE

SITE DEVELOPMENT PLANS FOR:  
**NACM HEADQUARTERS**  
COLUMBIA 100 OFFICE RESEARCH PARK  
SECTION 1, AREA 2, PARCEL H-1  
HOWARD COUNTY, MARYLAND

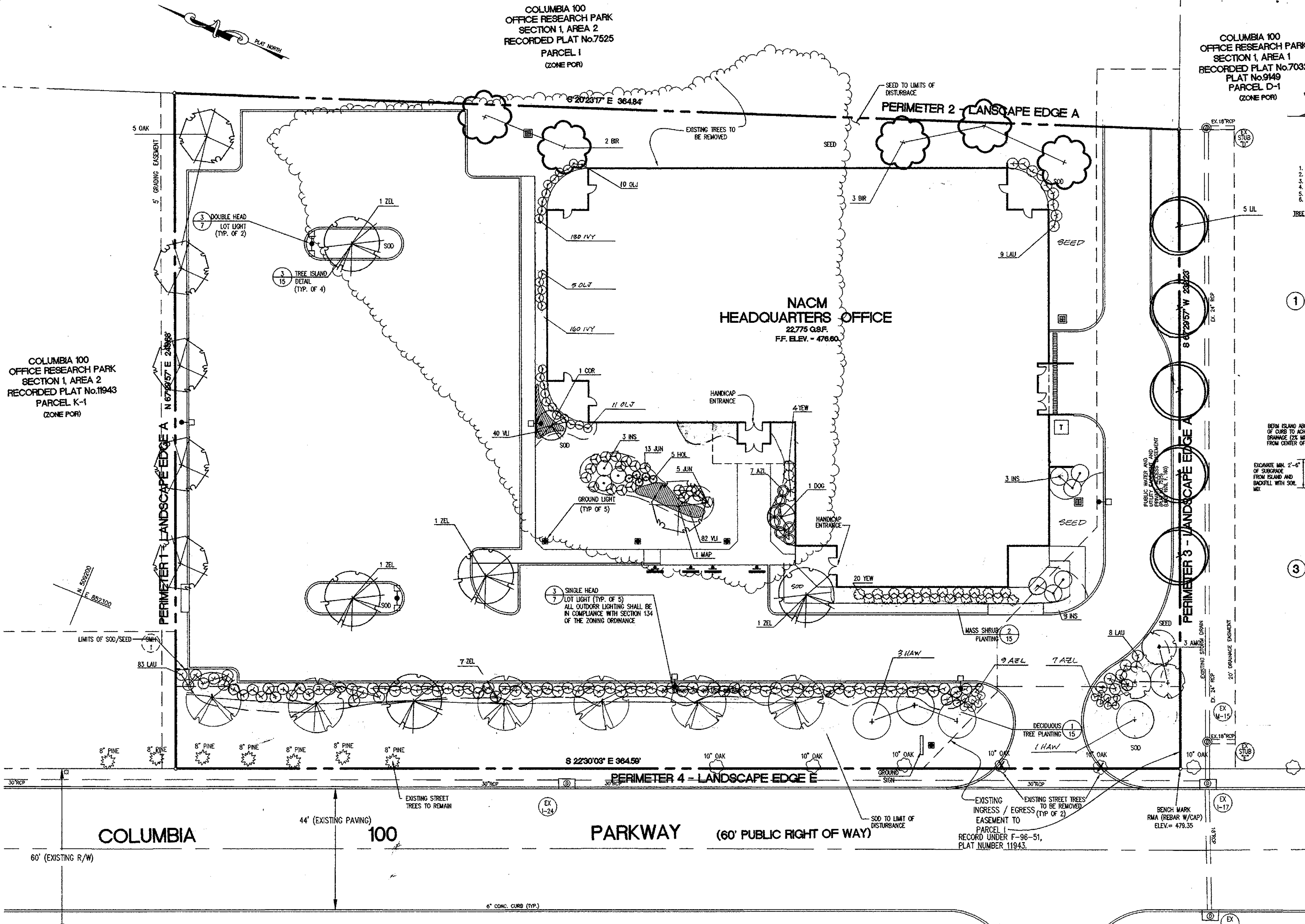
OWNER:  
**NATIONAL ASSOCIATION OF CREDIT  
MANAGEMENT REALTY CORPORATION**  
8815 CENTRE PARK DRIVE  
SUITE 200  
COLUMBIA, MARYLAND 21045-2158  
(410) 740-5560

**RBA**  
Group  
ENGINEERS • ARCHITECTS • PLANNERS  
Suite 206, Columbia Gateway Drive  
Columbia, Maryland 21046  
Phone: (410) 312-0986, Fax: 312-0987

REVISIONS  
06/01/98 COUNTY COMMENTS  
12/15/98 DRAINAGE  
AREAS AND FLOWS

DATE: 03/05/98  
JOB NUMBER: M2141.00  
FILE NUMBER: 2141BASE  
PLOTTED: 09/28/98  
DRAWN BY: Chip/RJ

DRAINAGE AREA MAP  
SHEET C-14  
14 of 15



COLUMBIA 100  
OFFICE RESEARCH PARK  
SECTION 1, AREA 1  
RECORDED PLAT No. 7032  
PLAT No. 9149  
PARCEL D-1  
(ZONE POR)

COLUMBIA 100  
OFFICE RESEARCH PARK  
SECTION 1, AREA 2  
RECORDED PLAT No. 11943  
PARCEL K-1  
(ZONE POR)

COLUMBIA 100  
OFFICE RESEARCH PARK  
SECTION 1, AREA 2  
RECORDED PLAT No. 11943  
PARCEL K-1  
(ZONE POR)

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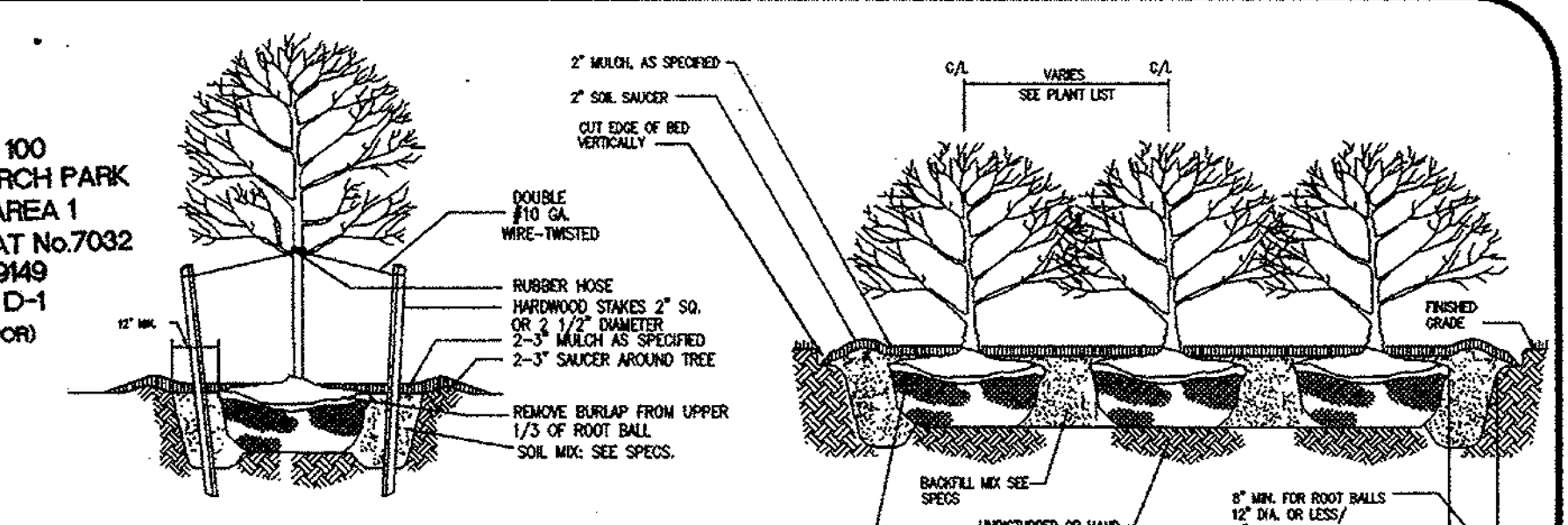
COLUMBIA 100  
OFFICE RESEARCH PARK  
SECTION 1, AREA 2  
RECORDED PLAT No. 11943  
PARCEL K-1  
(ZONE POR)

COLUMBIA 100  
OFFICE RESEARCH PARK  
SECTION 1, AREA 2  
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(ZONE POR)

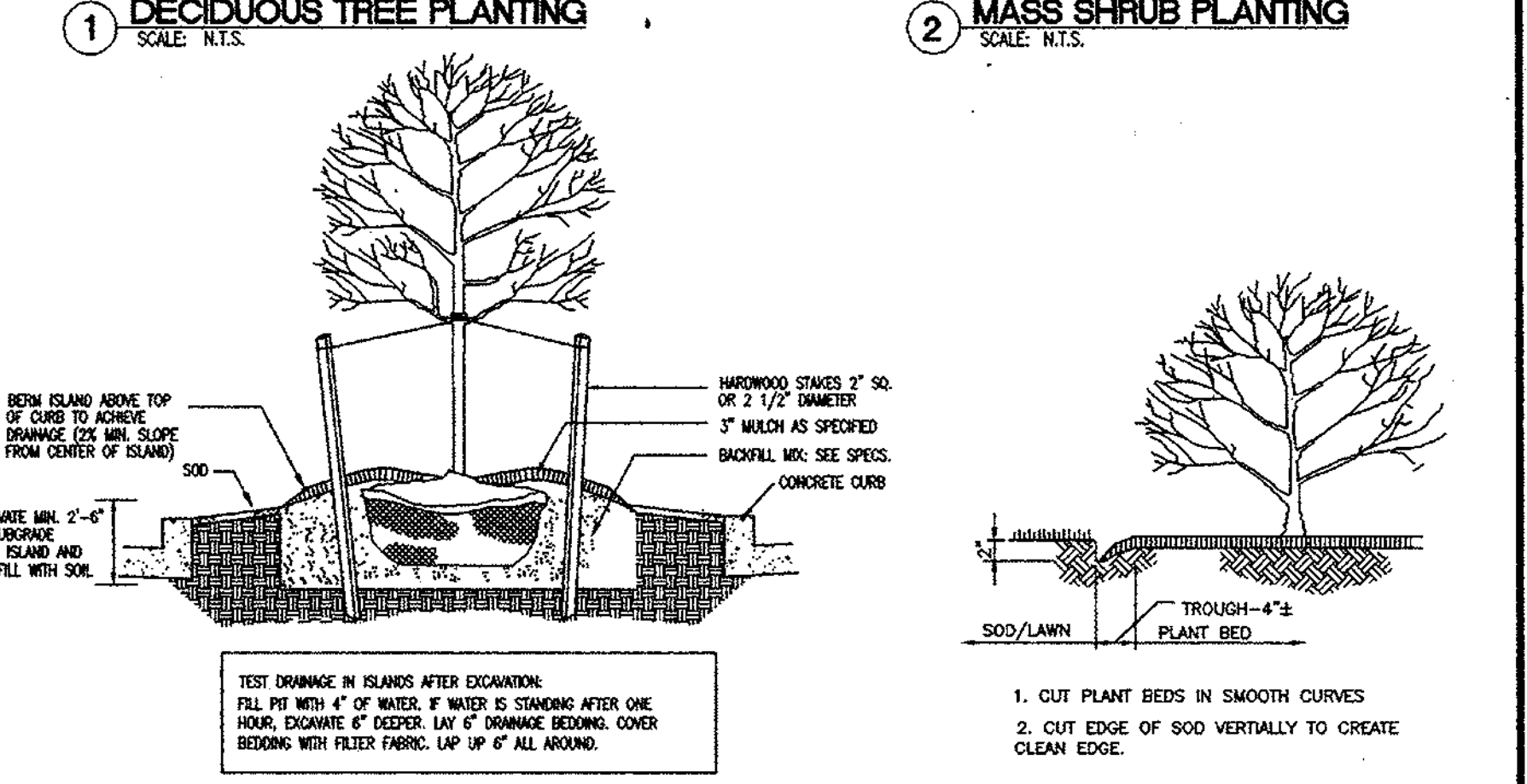
COLUMBIA 100  
OFFICE RESEARCH PARK  
SECTION 1, AREA 2  
RECORDED PLAT No. 11943  
PARCEL K-1  
(ZONE POR)

COLUMBIA 100  
OFFICE RESEARCH PARK  
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COLUMBIA 100  
OFFICE RESEARCH PARK  
SECTION 1, AREA 2  
RECORDED PLAT No. 11943  
PARCEL K-1  
(ZONE POR)



1. REMOVE DEAD OR BROKEN BRANCHES, RETAINING NATURAL SHAPE.
  2. NEVER CUT CENTRAL LEADER.
  3. SET TREE WITH 1/8" ROOT BALL ABOVE GRADE.
  4. STAKES, WIPES & HOSES SHALL BE REMOVED AFTER ONE YEAR.
  5. SCARIFY SUBSOIL TO A MIN. 4" DEPTH.
  6. PLACE STAKES PARALLEL TO WALKS.
- TREE SUPPORT SCHEDULE - EVERGREEN & DECIDUOUS**
- | TREE HEIGHT | TREE CALIPER | STAKE      |
|-------------|--------------|------------|
| 6-8'        | 1 - 1 1/2"   | 2 @ 5'     |
| 8-10'       | 1 1/2 - 2"   | 2 @ 5'     |
| 10-12'      | 1 1/2 - 2"   | 2 @ 7 - 8' |
| 12-14'      | 2 1/2 - 3"   | 3 @ 8'     |
| 14-16'      | 3 - 4"       | 3 @ 8'     |
1. 1/4" OF ROOT BALL TO BE SET ABOVE GRADE
  2. SCARIFY SIDES OF PIT TO 4"
  3. FOR CONTAINER MATERIAL, SLASH ROOT BALL FROM TOP TO BOTTOM, 1" DEEP MIN.
  4. REMOVE DEAD OR BROKEN BRANCHES, RETAIN NATURAL FORM.



1. CUT PLANT BEDS IN SMOOTH CURVES
2. CUT EDGE OF SOD VERTICALLY TO CREATE CLEAN EDGE.

**TREES**

KEY	QUAN	SIZE	PLANT NAME	REMARKS
MAP	1	2 1/2-3" CAL.	CRIMSON QUEEN LACELEAF MAPLE	SPACE AS SHOWN
BIR	5	2 1/2-3" CAL.	ACER PALMATUM 'CRIMSON QUEEN'	SINGLE STEM
DOG	1	1 1/2" - 2" CAL.	RIVER BIRCH	SPACE AS SHOWN
COR	1	7' - 8'	KOUSSA DOGWOOD	SPACE AS SHOWN
HAW	4	1 1/2-2" CAL.	CORNUS KOUSSA	SPACE AS SHOWN
AMO	3	5' - 6'	CORNELIANCHERRY DOGWOOD	12" O.C.
OAK	5	2 1/2 - 3"	CORNUS MAS	SPACE AS SHOWN
LIL	5	1 1/2 - 2" CAL.	WINTER KING HAWTHORN	SPACE AS SHOWN
ZEL	11	2 1/2-3" CAL.	CRATAEGUS VIRIDIS 'WINTER KING'	SPACE AS SHOWN
			MISS HELEN AMERICAN HOLLY	
			ILEX OPACA 'MISS HELEN'	
			PIN OAK	
			QUERCUS PALUSTRIS	
			JAPANESE LILAC TREE	
			SYRINGA RETICULATA	
			VILLAGE GREEN ZELKOVA	
			ZELKOVA SERRATA 'VILLAGE GREEN'	

**SHRUBS**

KEY	QUAN	SIZE	PLANT NAME	REMARKS
AZL	27	5 GAL.	DELAWARE VALLEY WHITE AZALEA	3" O.C.
HOL	5	5 GAL.	AZALEA 'DELAWARE VALLEY WHITE'	3" O.C.
INS	9	5-6'	HELLER HOLLY	6" O.C.
OLJ	26	5 GAL.	HELLER HOLLY	6" O.C.
JUN	18	3 GAL.	NELLIE STEVENS HOLLY	3 1/2" O.C.
LAU	100	5 GAL.	ILEX X 'NELLIE R. STEVENS'	4" O.C.
YEW	30	5 GAL.	OLD GOLD JUNIPER	4" O.C.
			JUNIPERUS CHINENSIS 'OLD GOLD'	
			BLUE PACIFIC JUNIPER	
			JUNIPERUS CONFERTA 'BLUE PACIFIC'	
			OTTO LUKYEN CHERRY LAUREL	
			PRUNUS LAUROCERASUS 'OTTO LUKYEN'	
			DEMBE YEW	
			XANTHEA 'DRENSFORMIS'	

**GROUNDCOVERS**

KEY	QUAN	SIZE	PLANT NAME	REMARKS
IVY	290	4" POT	THORNDALE ENGLISH IVY	8" O.C.
VLI	122	1 GAL.	HEDERA HELIX 'THORNDALE'	18" O.C.
SEED	8644	SO. FT.	VARIEGATED LIRIOPE	QUANTITIES ARE APPROXIMATE
SOD	10650	SO. FT.	LIRIOPE MUSCARI 'SILVER SUN PROOF'	
			MD CERTIFIED TURF TYPE TALL PESCUE	
			MD CERTIFIED TURF TYPE TALL PESCUE	

**NOTE:** THE PLANT SIZE SHALL TAKE PRECEDENCE OVER THE CONTAINER SIZE, WHERE BOTH ARE GIVEN.

**APPROVED: DEPARTMENT OF PLANNING AND ZONING**

DATE: 10/30/98  
DATE: 11/3/98  
DATE: 11/3/98

**PERMIT INFORMATION CHART**

SUBDIVISION NAME	SECTION/AREA	LOT/PARCEL #			
COLUMBIA 100 OFFICE RESEARCH PARK	SECTION 1, AREA 2	PARCEL H-1			
PLAT NO.	BLOCK NO.	ZONING	TAX MAP	ELECTION DIST.	GENUS TRACT
11943	N/A	POR	30	2nd	6023.02
WATER CODE	SEWER CODE				
007	5750639				

**SCHEDULE A PERIMETER LANDSCAPE EDGES**

CATEGORY	ADJACENT TO ROADWAYS	ADJACENT TO PERIMETER PROPERTIES
LANDSCAPE TYPE	E	A
LINEAR FEET OF ROADWAY FRONTAGE/PERIMETER	PERIMETER 4 365'	PERIMETERS 1,2,3 = 843'
CREDIT FOR EXISTING VEGETATION	0	0
CREDIT FOR WALL, FENCE OR BERM	0	0
NUMBER OF PLANTS REQUIRED		
SHADE TREES	9	14
EVERGREEN TREES		
SHRUBS	91	
NUMBER OF PLANTS PROVIDED		
SHADE TREES	7	10
EVERGREEN TREES		
OTHER TREES (2:1 SUBSTITUTION)	4*	8**
SHRUBS (10:1 SUBSTITUTION)	91	

\* 4 ORNAMENTAL TREES (HAW) ARE SUBSTITUTED FOR 2 SHADE TREES.  
\*\* 5 ORNAMENTAL TREES (LIL) AND 3 EVERGREEN TREES (AMO) ARE SUBSTITUTED FOR 4 SHADE TREES.

**SCHEDULE B PARKING LOT INTERNAL LANDSCAPING**

NUMBER OF PARKING SPACES	79
INTERNAL ISLANDS REQUIRED (1/20)	4
INTERNAL ISLANDS PROVIDED	4
SHADE TREES REQUIRED (1/20)	4
SHADE TREES PROVIDED	4

**GENERAL NOTES**

1. THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL.
2. FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING HAS BEEN POSTED AS PART OF THE DPW DEVELOPER'S AGREEMENT IN THE AMOUNT OF \$ 9,630.00.

**LANDSCAPE PLANTING NOTES AND SPECIFICATIONS**

ALL PLANTS TO BE NURSERY GROWN AND FURNISHED IN ACCORDANCE WITH ASN. "AMERICAN STANDARDS FOR NURSERY STOCK" ANSI Z60.1 LATEST EDITION.

ALL TREES TO BRANCH SYMMETRICALLY AROUND CENTRAL LEADER NO FORKED LEADER STOCK WILL BE ACCEPTED.

ANY SUBSTITUTIONS ARE TO BE OF EQUIVALENT TYPE AND SIZE AND MUST BE APPROVED IN WRITING BY THE LANDSCAPE ARCHITECT/ENGINEER PRIOR TO INSTALLATION.

CONTAINER STOCK MAY BE SUBSTITUTED FOR BALLED AND BURLAPPED STOCK UPON APPROVAL BY THE LANDSCAPE ARCHITECT/ENGINEER.

INSTALLATION OF PINES AND OAKS SHALL BE DURING SPRING PLANTING SEASON ONLY UNLESS OTHERWISE APPROVED BY LANDSCAPE ARCHITECT/ENGINEER.

THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES FIVE (5) DAYS PRIOR TO INSTALLATION AND/OR CONSTRUCTION.

ANY DAMAGE TO EXISTING UTILITIES, BUILDINGS, PAVING, CURB, WALKS, AND EXISTING VEGETATION SHALL BE REPAIRED TO PREVIOUS CONDITION OR REPLACED BY THE CONTRACTOR AT HIS EXPENSE.

ALL AREAS TO BE PLANTED SHOULD BE FINISHED WITH 2 - 3" FINE TEXTURED, SHREDDED HARDWOOD MULCH UNLESS OTHERWISE NOTED ON PLAN.

POTABLE WATER SHALL BE MADE AVAILABLE TO ALL PLANT MATERIALS AS REQUIRED FOR GROWTH.

IF PLANT MATERIAL CANNOT BE INSTALLED IN ACCORDANCE WITH THIS PLAN, THE CONTRACTOR SHALL CONTACT THE LANDSCAPE ARCHITECT/ENGINEER FOR RESOLUTION PRIOR TO INSTALLATION.

OWNER: NATIONAL ASSOCIATION OF CREDIT MANAGEMENT REALTY CORPORATION  
885 CENTRE PARK DRIVE  
SUITE 200  
COLUMBIA, MARYLAND 21045-2158  
(410) 740-5560

DEVELOPER: NACM HEADQUARTERS  
COLUMBIA 100 OFFICE RESEARCH PARK  
SECTION 1, AREA 2, PARCEL H-1  
HOWARD COUNTY, MARYLAND

**RBA**  
ARCHITECTS & PLANNERS  
7100 Columbia Gateway Drive, Suite 200  
Columbia, MD 21046  
Phone (410) 312-0886, Fax 312-0897

**REVISIONS**

06/01/98 COUNTY COMMENTS

09/28/98 TRANSFORMER, LIGHTS, NOTES, TREES, ETC.

12/18/98 REVISED PER OWNER'S REQUEST

**BOARD OF EXAMINERS OF LANDSCAPE ARCHITECTS**

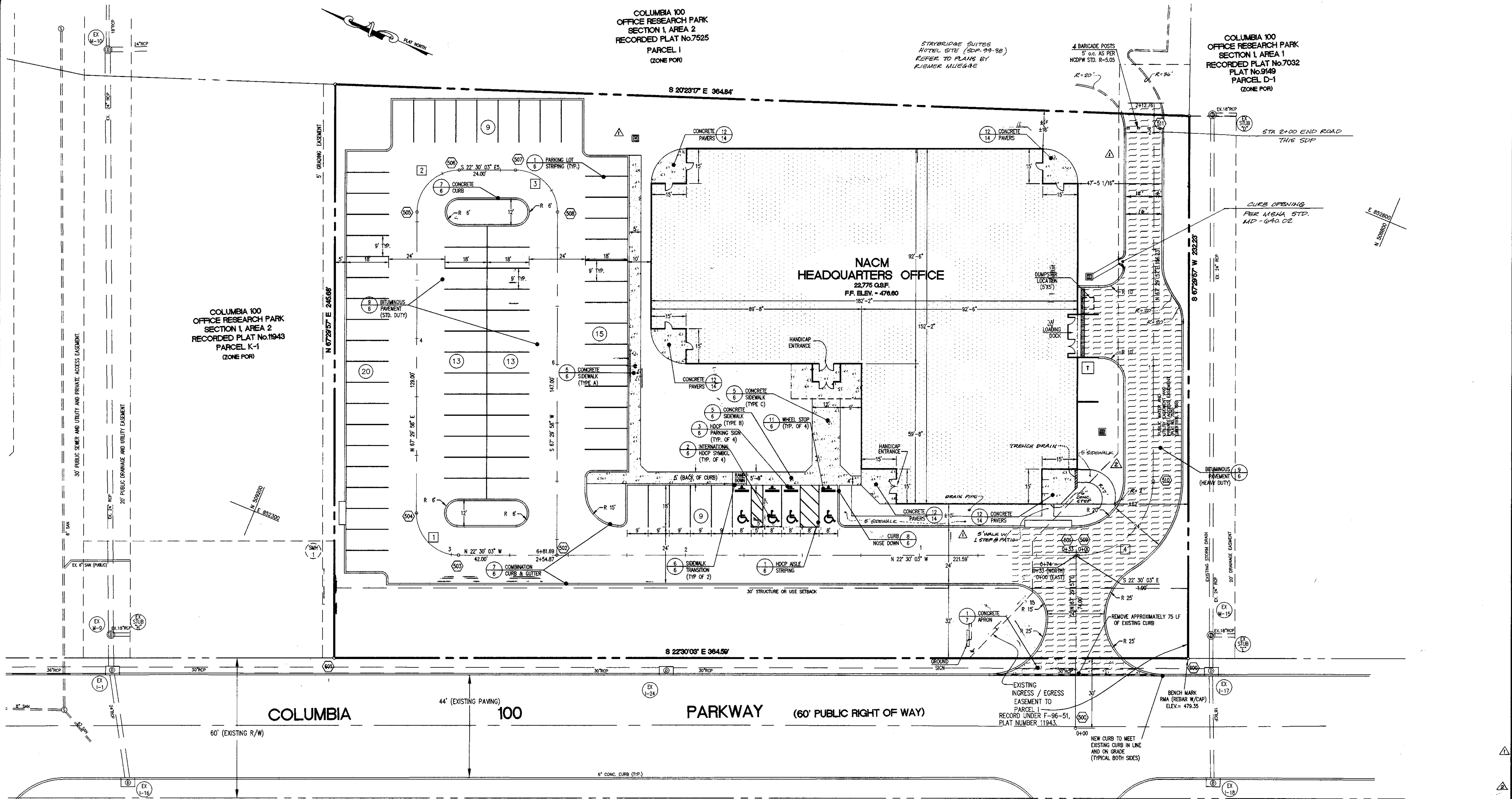
STATE OF MARYLAND

JAMES C. CLARK  
STATE BOARD OF EXAMINERS OF LANDSCAPE ARCHITECTS

DATE: 03/05/98  
JOB NUMBER: M2141.00  
FILE NUMBER: 2141BASE  
PLOTTED: 09/28/98  
DRAWN BY: Chip/RJ

**LANDSCAPE PLAN**

SHEET L-1  
15 OF 15



COLUMBIA 100  
OFFICE RESEARCH PARK  
SECTION 1, AREA 2  
RECORDED PLAT No. 7525  
PARCEL 1  
(ZONE POR)

STAYBRIDGE SUITES  
HOTEL SITE (SDP-99-98)  
REFER TO PLANS BY  
REIMER HUEGARE

COLUMBIA 100  
OFFICE RESEARCH PARK  
SECTION 1, AREA 1  
RECORDED PLAT No. 7032  
PLAT No. 9149  
PARCEL D-1  
(ZONE POR)

COLUMBIA 100  
OFFICE RESEARCH PARK  
SECTION 1, AREA 2  
RECORDED PLAT No. 11943  
PARCEL K-1  
(ZONE POR)

NACM  
HEADQUARTERS OFFICE  
22,775 GSF.  
F.F. ELEV. = 478.60

COLUMBIA 100 PARKWAY (60' PUBLIC RIGHT OF WAY)

**STAKING NOTES**

- DISTANCE FROM CORNER MARKER TO POINT POINT 600 IS 0 FEET.
- DIRECTION AND DISTANCE FROM CORNER MARKER TO POINT 601 IS S48° 51' 44" W, 0.17'

**COORDINATE DATA TABLE**

POINT NO.	NORTHING	EASTING	REMARKS
500	508840.50	852348.52	STA. 0+00
501	508868.82	852416.89	STA 0+74=0+00 (EAST) = 0+33 (NORTH)
502	509073.54	852332.09	2+54.59 = 6+81.41
503	509112.34	852316.01	PC 2+96.59
504	509135.86	852325.76	PT 3+24.87
505	509185.23	852444.94	PC 4+53.87
506	509175.49	852468.45	PT 4+82.14
507	509153.31	852477.64	PC 5+06.14
508	509129.80	852467.90	PT 5+34.41
509	508867.89	852417.27	PC 0+01.00
510	508850.57	852459.08	PT 0+51.27
511	508910.36	852603.42	R 2+07.50
600	508807.63	852394.61	PROPERTY CORNER
601	509144.47	852255.08	PROPERTY CORNER

**CURVE DATA TABLE**

CURVE NO.	DELTA	RADIUS	ARC	TAN	CHD. BRG.	CHD. LEN.
1	90° 00' 00"	18.00'	28.27'	18.00'	N 22° 29' 57" E	25.46'
2	90° 00' 00"	18.00'	28.27'	18.00'	S 67° 30' 03" E	25.46'
3	90° 00' 00"	18.00'	28.27'	18.00'	S 22° 29' 57" W	25.46'
4	90° 00' 00"	32.00'	50.27'	32.00'	S 67° 30' 03" E	45.25'

**PERMIT INFORMATION CHART**

SUBDIVISION NAME	SECTION/AREA	LOT/PARCEL #
COLUMBIA 100 OFFICE RESEARCH PARK	SECTION 1, AREA 2	PARCEL H-1
PLAT NO.	BLOCK NO.	ZONING
11943	N/A	POR
TAX MAP	ELECTION DIST.	CENSUS TRACT
30	2nd	6023.02
WATER CODE	SEWER CODE	
607	57506.39	

**APPROVED DEPARTMENT OF PLANNING AND ZONING**

CHIEF, DEVELOPMENT ENGINEERING DIVISION  
 DATE: 10/30/98

CHIEF, DIVISION OF LAND DEVELOPMENT  
 DATE: 11/5/98

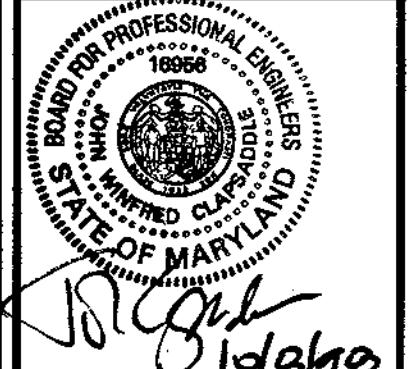
DIRECTOR  
 DATE: 11/3/98

SITE DEVELOPMENT PLANS FOR:  
**NACM HEADQUARTERS**  
COLUMBIA 100 OFFICE RESEARCH PARK  
SECTION 1, AREA 2, PARCEL H-1  
HOWARD COUNTY, MARYLAND

OWNER:  
**NATIONAL ASSOCIATION OF CREDIT  
MANAGEMENT REALTY CORPORATION**  
8815 CENTRE PARK DRIVE  
SUITE 200  
COLUMBIA, MARYLAND 21045-2158  
(410) 740-5560

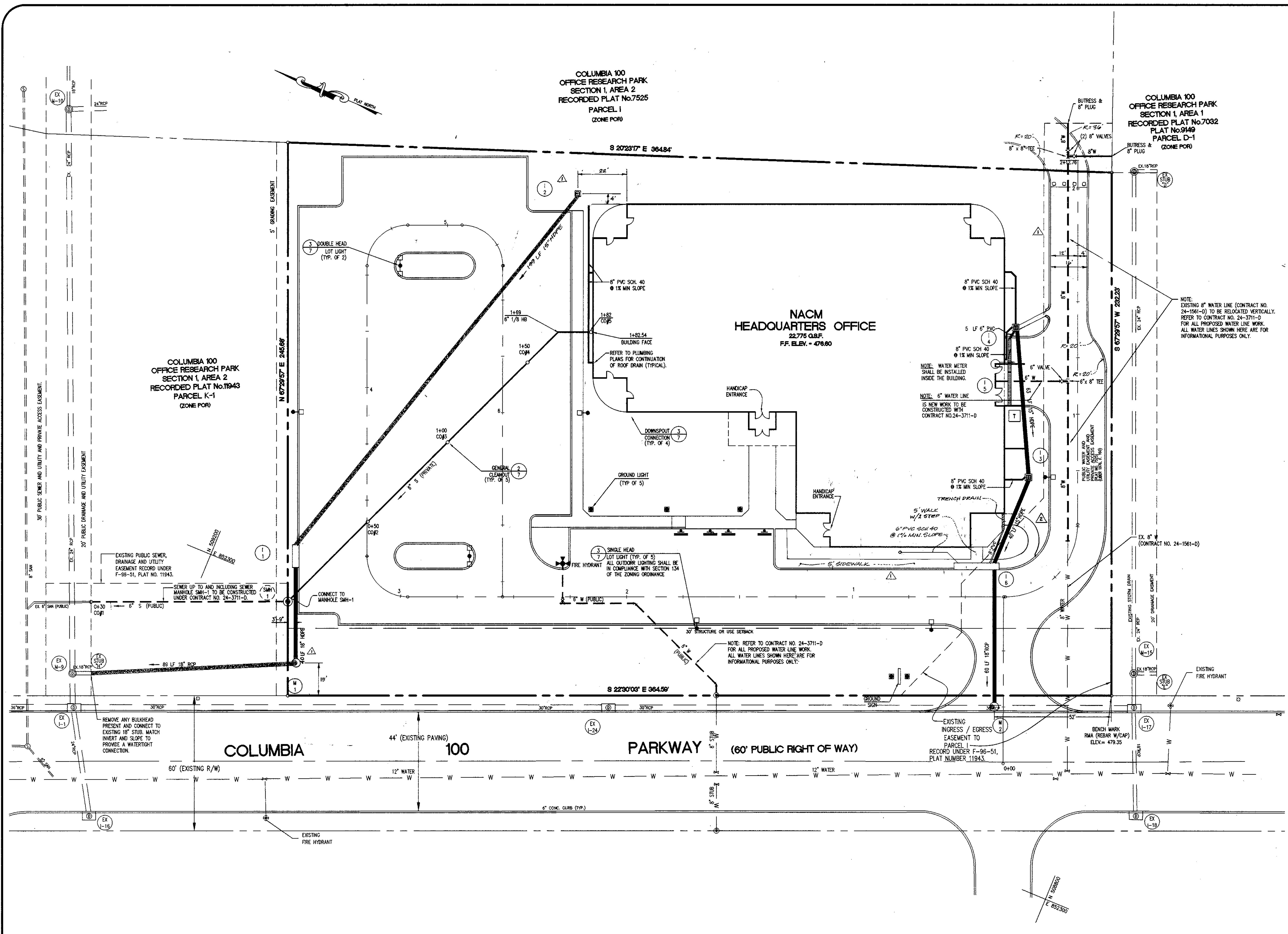
**RBA**  
Group  
ENGINEERS • ARCHITECTS • PLANNERS  
7164 Columbia Gateway Drive  
Suite 205, Columbia, Maryland 21046  
Phone (410) 312-0866, Fax 312-0897

REVISIONS  
06/01/98 COUNTY COMMENTS  
09/28/98 TRANSFORMER  
12/10/98 SIDEWALK,  
SIDEWALK ASLE,  
STREAM DRAIN  
10/10/99 REVISED  
SIDEWALK @ ENTRANCE  
AND ADDED TRENCH DRAIN



DATE: 03/05/98  
JOB NUMBER: M2141  
FILE NUMBER: 2141BASE  
PLOTTED: 09/28/98  
DRAWN BY: Chip/RJ

**STAKING AND STRIPING PLAN**  
SHEET C-3  
3 of 15



COLUMBIA 100  
OFFICE RESEARCH PARK  
SECTION 1, AREA 2  
RECORDED PLAT No.7525  
PARCEL I  
(ZONE POR)

COLUMBIA 100  
OFFICE RESEARCH PARK  
SECTION 1, AREA 1  
RECORDED PLAT No.7032  
PLAT No.9149  
PARCEL D-1  
(ZONE POR)

COLUMBIA 100  
OFFICE RESEARCH PARK  
SECTION 1, AREA 2  
RECORDED PLAT No.11943  
PARCEL K-1  
(ZONE POR)

NACM  
HEADQUARTERS OFFICE  
22,775 G.S.F.  
F.F. ELEV. = 478.60

COLUMBIA 100 PARKWAY (60' PUBLIC RIGHT OF WAY)

NOTE: EXISTING 8" WATER LINE (CONTRACT NO. 24-1561-D) TO BE RELOCATED VERTICALLY. REFER TO CONTRACT NO. 24-3711-D FOR ALL PROPOSED WATER LINE WORK. ALL WATER LINES SHOWN HERE ARE FOR INFORMATIONAL PURPOSES ONLY.

NOTE: REFER TO CONTRACT NO. 24-3711-D FOR ALL PROPOSED WATER LINE WORK. ALL WATER LINES SHOWN HERE ARE FOR INFORMATIONAL PURPOSES ONLY.

NOTE: ALL OUTDOOR LIGHTING SHALL BE IN COMPLIANCE WITH SECTION 134 OF THE ZONING ORDINANCE

PERMIT INFORMATION CHART					
SUBDIVISION NAME COLUMBIA 100 OFFICE RESEARCH PARK	SECTION/AREA SECTION 1, AREA 2	LOT/PARCEL # PARCEL H-1			
PLAT NO. 11943	BLOCK NO. N/A	ZONING POR	TAX MAP 30	ELECTION DIST. 2nd	CENSUS TRACT 6023.02
WATER CODE 607	SEWER CODE 5750639				

APPROVED DEPARTMENT OF PLANNING AND ZONING

*Chip Hamilton* 10/30/98  
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

*Chip Hamilton* 11/3/98  
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

*James S. Butler* 11/3/98  
DIRECTOR DATE

SITE DEVELOPMENT PLANS FOR:  
**NACM HEADQUARTERS**  
COLUMBIA 100 OFFICE RESEARCH PARK  
SECTION 1, AREA 2, PARCEL H-1  
HOWARD COUNTY, MARYLAND

OWNER:  
**NATIONAL ASSOCIATION OF CREDIT MANAGEMENT REALTY CORPORATION**  
885 CENTRE PARK DRIVE  
SUITE 200  
COLUMBIA, MARYLAND 21045-2158  
(410) 740-5560

**RBA**  
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REVISIONS

06/01/98 COUNTY COMMENTS

09/21/98 COUNTY COMMENTS

09/28/98 TRANSFORMER, LIGHTS

12/18/98 SIDEWALK, DRIVEWAY AISLE, STORM DRAIN

10/18/99 REVISED SIDEWALK AND ADDED TRENCH

PROFESSIONAL ENGINEER  
STATE OF MARYLAND  
No. 10966  
D. J. [Signature]

DATE: 03/05/98

JOB NUMBER: 4341.00

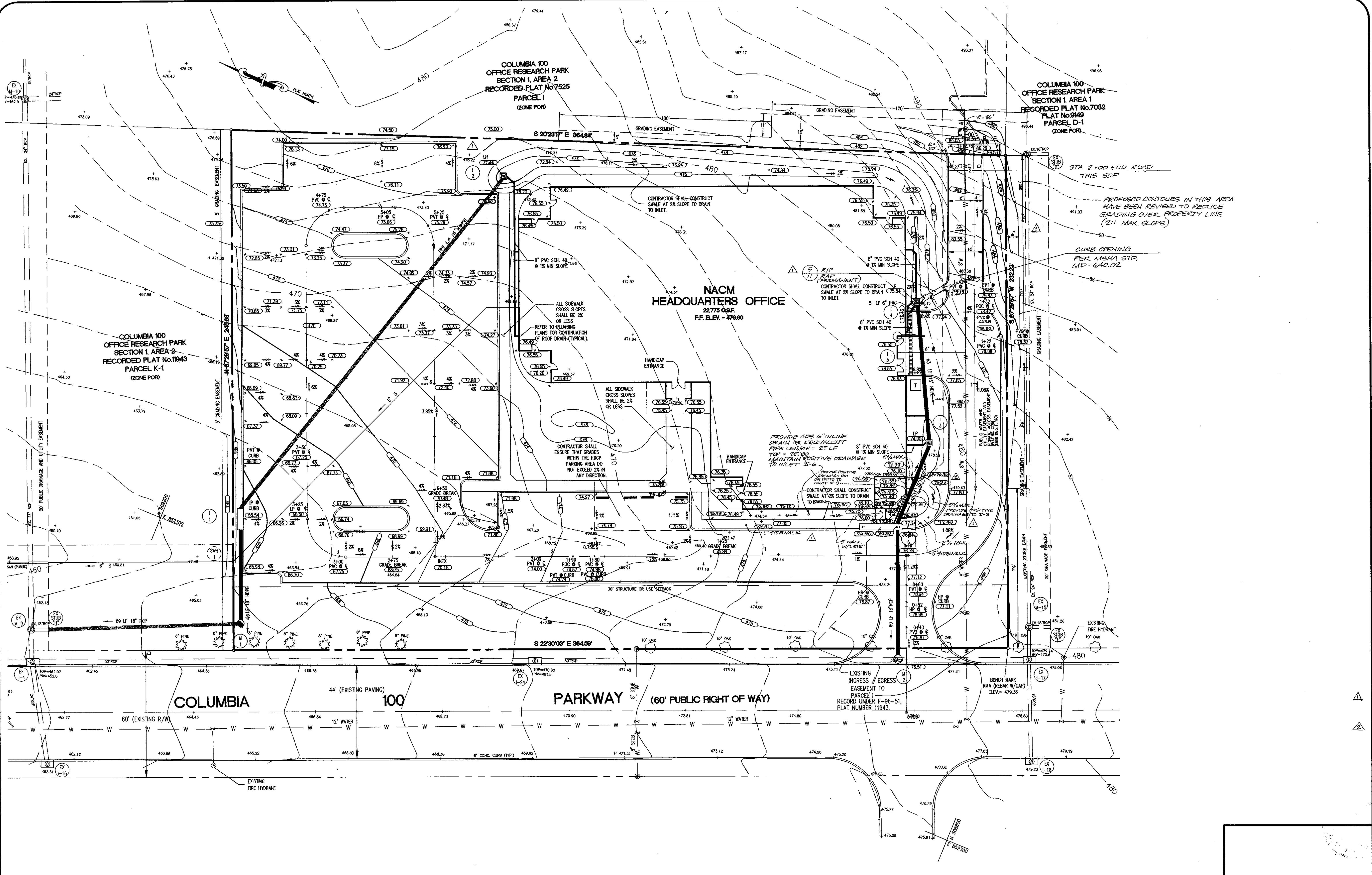
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PLOTTED: 09/28/98

DRAWN BY: Chip/RJ

UTILITY PLAN

SHEET C-4  
4 of 15

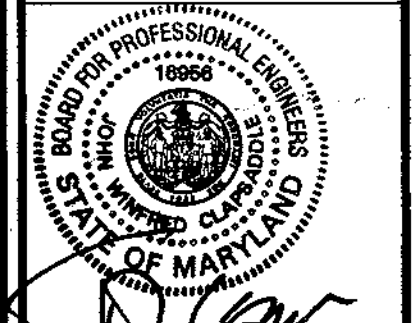


SITE DEVELOPMENT PLANS FOR:  
**NACM HEADQUARTERS**  
 COLUMBIA 100 OFFICE RESEARCH PARK  
 SECTION 1, AREA 2, PARCEL H-1  
 HOWARD COUNTY, MARYLAND

OWNER:  
**NATIONAL ASSOCIATION OF CREDIT  
 MANAGEMENT REALTY CORPORATION**  
 885 CENTRE PARK DRIVE  
 SUITE 200  
 COLUMBIA, MARYLAND 21045-2188  
 (410) 740-5560

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 Group  
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 7164 Columbia Gateway Drive  
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 Phone: (410) 312-0888, Fax: 312-0897

REVISIONS  
 06/01/98 COUNTY COMMENTS  
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 STORM DRAIN, GRADING  
 10/18/99 REVISED  
 SIDEWALK & GRADES  
 @ ENTRANCE AND  
 ADDED TRENCH DRAIN



DATE: 03/05/98  
 JOB NUMBER: M2141.00  
 FILE NUMBER: 2141BASE  
 PLOTTED: 09/28/98  
 DRAWN BY: Chip/RJ

**GRADING AND DRAINAGE PLAN**  
 SHEET C-5  
 5 of 15

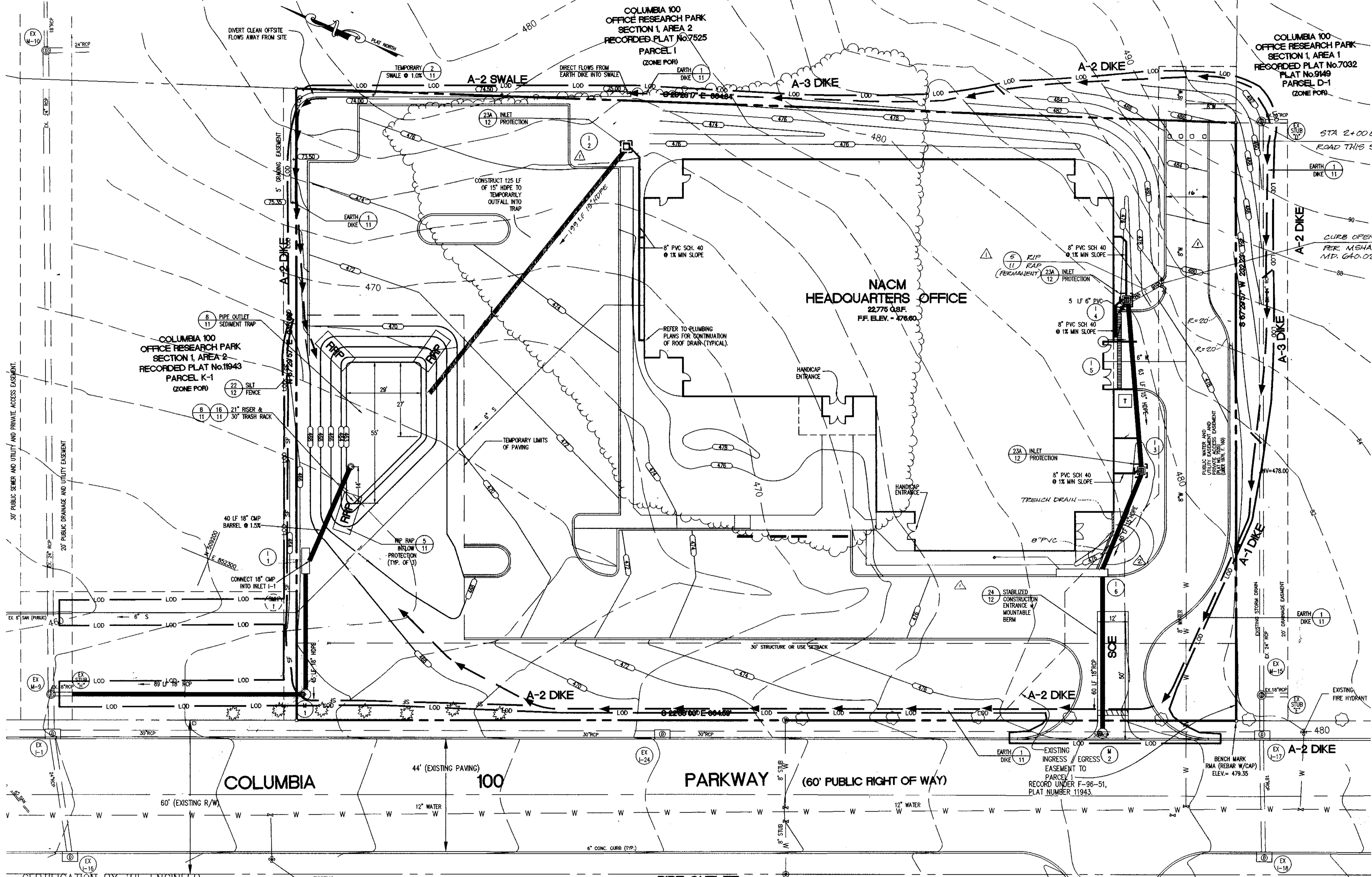
PERMIT INFORMATION CHART					
SUBDIVISION NAME COLUMBIA 100 OFFICE RESEARCH PARK	SECTION/AREA SECTION 1, AREA 2	LOT/PARCEL # PARCEL H-1			
PLAT NO. 11943	BLOCK NO. N/A	ZONING POR	TAX MAP 30	ELECTION DIST. 2nd	CENSUS TRACT 6023.02
WATER CODE 607	SEWER CODE 5750639				

APPROVED: DEPARTMENT OF PLANNING AND ZONING

*Chip/RJ* 10/30/98  
 CHIEF, DEVELOPMENT ENGINEERS DIVISION DATE

*Cindy Hamilla* 11/3/98  
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

*James S. Rutter* 11/3/98  
 DIRECTOR DATE



**SEQUENCE OF CONSTRUCTION**

- OBTAIN ALL PERMITS REQUIRED TO BEGIN CONSTRUCTION. SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE ASSIGNED INSPECTOR TO REVIEW ALL SITE ISSUES (5 DAYS).
- CLEAR ALL UTILITIES BY CALLING MISS UTILITY. LOCATE ANY REMAINING UTILITIES THROUGH A PRIVATE LOCATING COMPANY TO INSURE ALL EXISTING UTILITIES HAVE BEEN FOUND AND MARKED (2 DAYS).
- INSTALL STABILIZED CONSTRUCTION ENTRANCE (1/2 DAY).
- INSTALL INLETS I-1, AND MANHOLES M-1, AS WELL AS CONNECTING PIPES. INSTALL INLET PROTECTION OR BLOCK INLET I-1, TO AVOID FLOW ENTERING (3 DAYS).
- CONSTRUCT SEDIMENT TRAP (3 DAYS).
  - INSTALL SILT FENCE AS SHOWN ON PLANS.
  - CONSTRUCT 18-INCH CMP BARREL, ANTI-SEEP COLLAR AND RISER. CONNECT BARREL INTO INLET I-1.
  - CONSTRUCT EMBANKMENT AND EXCAVATE TRAP AS PER PLANS.
  - CONSTRUCT RIP-RAP INFLOW PROTECTION DEVICES.
- CONSTRUCT EARTH DIKES AND SWALES. DIRECT FLOWS FROM REAR LOT INTO TEMPORARY SWALE (2 DAYS).
- SCHEDULE AN INSPECTION AND OBTAIN APPROVAL OF ALL SEDIMENT CONTROL DEVICES BEFORE CONTINUING (2 DAYS).
- BEGIN ROUGH GRADING. MAINTAIN ALL SEDIMENT CONTROL DEVICES AS NEEDED. PROVIDE POSITIVE DRAINAGE TO ALL SEDIMENT CONTROL DEVICES (2 WEEKS).
- UPON COMPLETION OF ROUGH GRADING BEGIN BUILDING CONSTRUCTION (4 MONTHS).
- BEGIN UTILITY CONSTRUCTION INCLUDING WATER, SEWER AND STORM DRAIN. DELAY CONSTRUCTION OF PIPE WITHIN SEDIMENT TRAP. INSTALL INLET PROTECTION IMMEDIATELY UPON CONSTRUCTION OF INLETS (2 WEEKS).
- UPON COMPLETION OF UTILITIES, OBTAIN APPROVALS AND BACKFILL. BEGIN CURB AND GUTTER CONSTRUCTION (1 WEEK).
- FINE GRADE PARKING LOT AND APPLY BASE PAVING. DELAY SURFACE PAVING UNTIL ALL HEAVY EQUIPMENT HAS LEFT THE SITE (2 WEEKS).
- CHECK SEDIMENT CONTROL DEVICES DAILY AND AFTER EACH RAINSTORM. MAKE ANY REPAIRS NECESSARY TO BRING DEVICES TO ORIGINAL SPECIFICATIONS (DAILY).
- STABILIZE ALL AREAS UPON COMPLETION OF GRADING IN THAT AREA. INSTALL FINAL LANDSCAPING UPON COMPLETION OF BUILDING EXTERIOR (2 WEEKS).
- UPON COMPLETE STABILIZATION OF SITE, OBTAIN INSPECTOR'S APPROVAL AND REMOVE TRAP. INSTALL REMAINING STORM DRAIN, BACKFILL TRAP AND STABILIZE IMMEDIATELY WITH PAVEMENT OR VEGETATION (2 DAYS).
- INSTALL SURFACE COURSE PAVING AND STABILIZE ANY REMAINING AREAS. REMOVE ANY REMAINING SEDIMENT CONTROL DEVICES UPON APPROVAL OF INSPECTOR (1 WEEK).

**LEGEND**

- Stabilized Construction Entrance
- Inlet Protection
- Silt Fence
- Drainage Divide
- Limit of Disturbance
- Temporary Diversion
- Soil Boundary
- Soil Type
- Rip Rap Protection

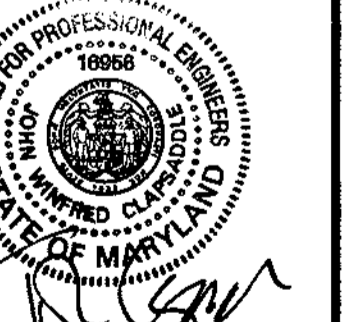
SITE DEVELOPMENT PLANS FOR:  
**NACM HEADQUARTERS**  
 COLUMBIA 100 OFFICE RESEARCH PARK  
 SECTION 1, AREA 2, PARCEL H-1  
 HOWARD COUNTY, MARYLAND

OWNER:  
**NATIONAL ASSOCIATION OF CREDIT MANAGEMENT REALTY CORPORATION**  
 885 CENTRE PARK DRIVE  
 SUITE 200  
 COLUMBIA, MARYLAND 21045-2158  
 (410) 740-6560

**RBA**  
 GROUP  
 ENGINEERS • ARCHITECTS • PLANNERS  
 Suite 200, Columbia Gateway Drive  
 Columbia, Maryland 21046  
 Phone (410) 321-0866, Fax 321-0867

**REVISIONS**

06/01/98	COUNTY COMMENTS
09/28/98	TRANSFORMER
11/18/98	SIDEWALK, DRIVEWAY AISLE, STORM DRAIN
10/18/99	REVISED SIDEWALK AND ADDED TRENCH DRAIN



DATE: 03/05/98  
 JOB NUMBER: M2141.00  
 FILE NUMBER: 2141BASE  
 PLOTTED: 09/28/98  
 DRAWN BY: Chip/RJ  
**SEDIMENT AND EROSION CONTROL**  
 SHEET **C-10**  
 10 of 15

**PIPE OUTLET SEDIMENT TRAP ST-1**

DRAINAGE AREA = 2.10 AC  
 REQUIRED STORAGE:  
 WET = 3,780 CF  
 DRY = 3,780 CF  
 TOTAL = 7,560 CF  
 PROVIDED STORAGE:  
 WET = 3,800 CF  
 DRY = 3,850 CF  
 TOTAL = 7,650 CF  
 BOTTOM ELEV = 463.00  
 TOP OF EMBANKMENT ELEV = 468.00  
 RISER CREST ELEV = 467.00  
 RISER DIAMETER = 21"  
 BARREL DIAMETER = 18"  
 BARREL INVERTS:  
 UPSTREAM = 463.00  
 DOWNSTREAM = 462.40  
 CLEAN OUT ELEVATION = 465.40  
 TRASH RACK DIAMETER = 30"  
 STORAGE DEPTH = 4.0'  
 BOTTOM DIMENSIONS: SEE PLAN

**PERMIT INFORMATION CHART**

SUBDIVISION NAME COLUMBIA 100 OFFICE RESEARCH PARK	SECTION/AREA SECTION 1, AREA 2	LOT/PARCEL # PARCEL H-1
PLAT NO. 11943	BLOCK NO. N/A	ZONING POR
TAX MAP 30	ELECTION DIST. 2nd	CONSENT TRACT 6023.02
WATER CODE 607	SEWER CODE 5750639	

**APPROVED DEPARTMENT OF PLANNING AND ZONING**

[Signature] 10/30/98  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

[Signature] 11/3/98  
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

[Signature] 11/3/98  
 DIRECTOR DATE

I HEREBY CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION 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.

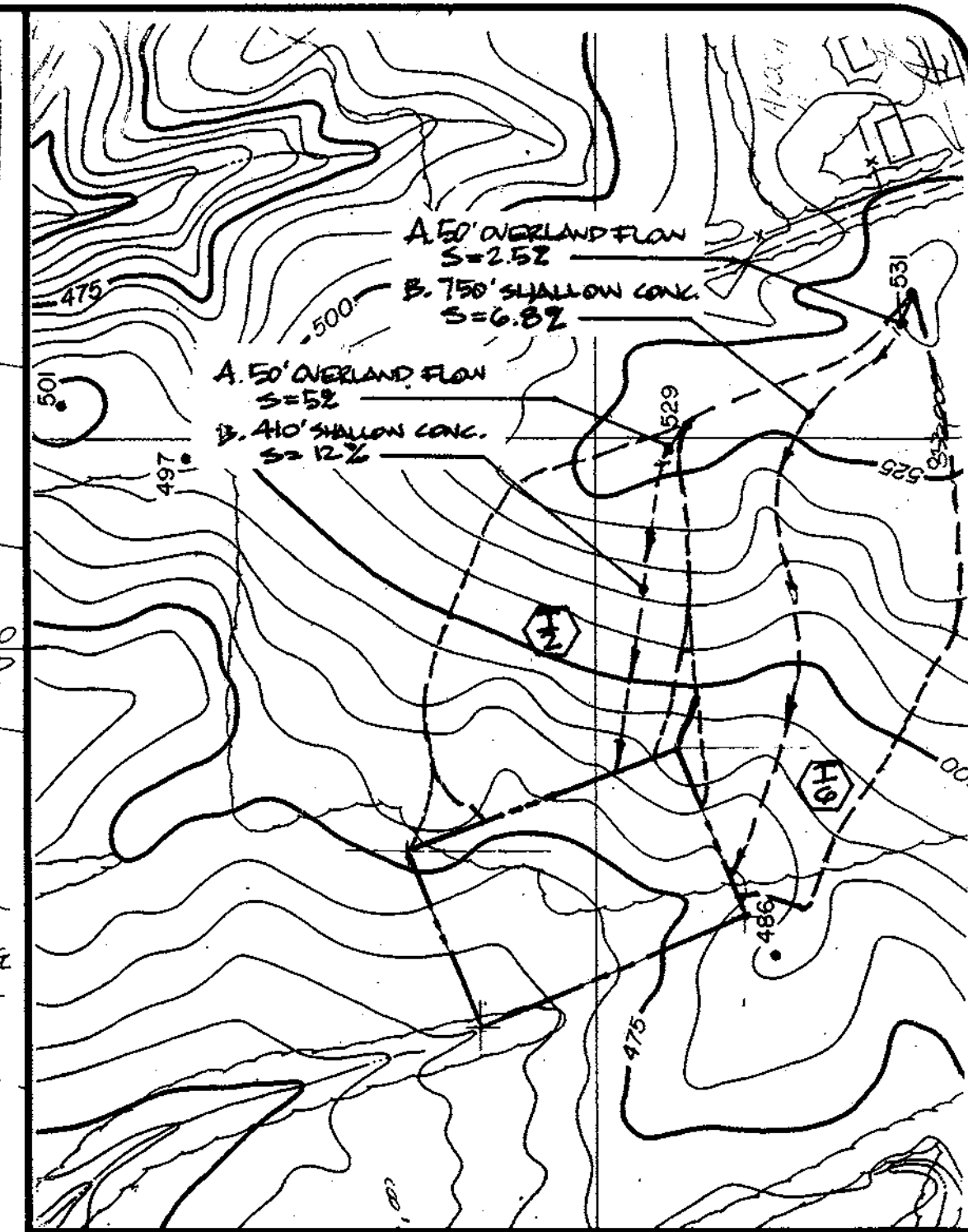
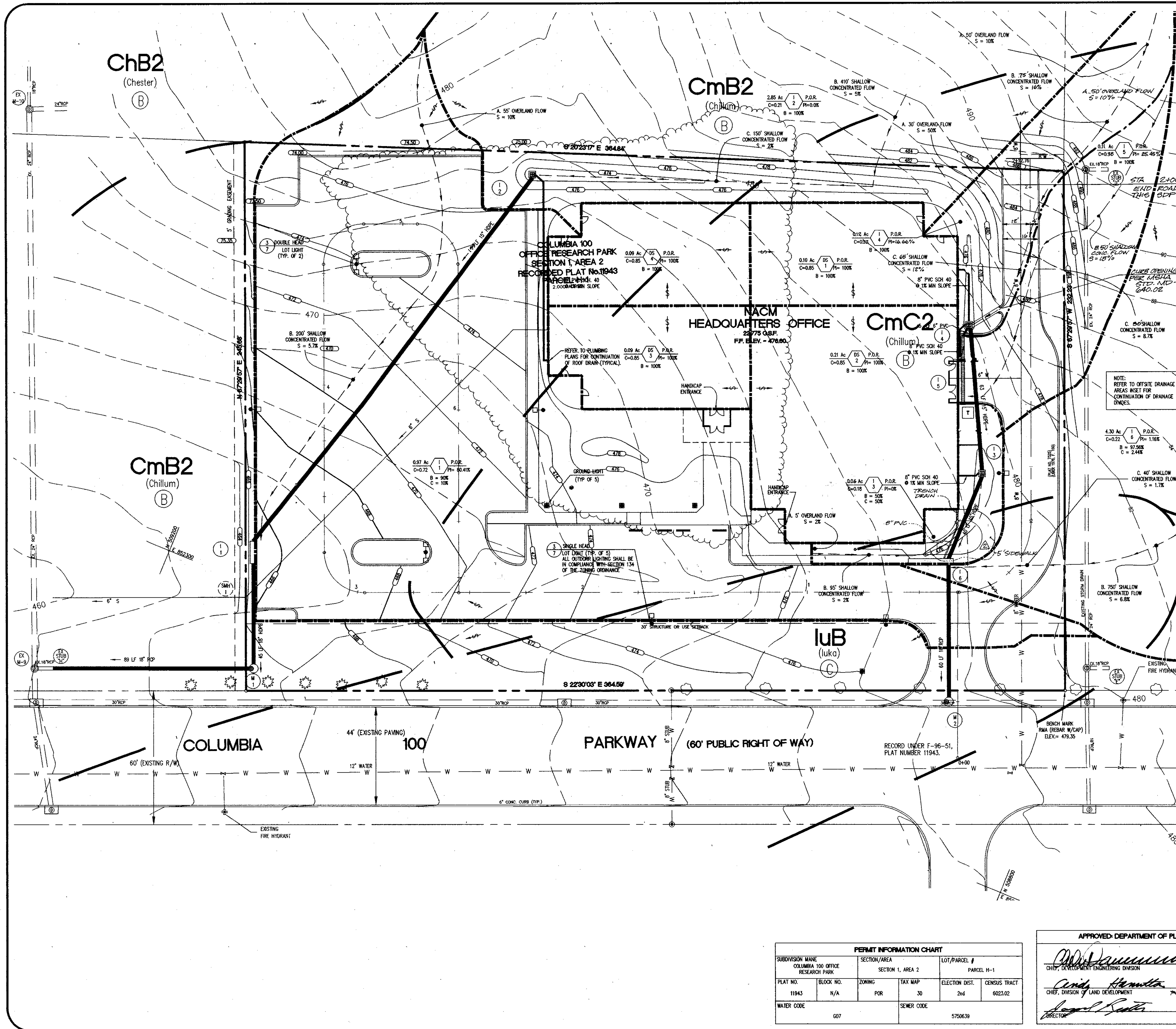
**CERTIFICATION BY THE ENGINEER**  
 [Signature] 10/29/98  
 NAME: **JOHN W. CLARSONE, P.E.** DATE

REVIEWED FOR HOWARD COUNTY S.C.D. AND MEETS TECHNICAL REQUIREMENTS.  
 [Signature] 10/29/98  
 SIGNATURE: **U.S. NATURAL RESOURCES CONSERVATION SERVICE** DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
 [Signature] 10/29/98  
 APPROVED: **John R. Denton** DATE

**CERTIFICATION BY THE DEVELOPER/BUILDER**

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS DEVELOPMENT AND PLAN FOR SEDIMENT AND EROSION CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."  
 [Signature] 10-21-98  
 NAME: **James E. Vanghel** DATE



OFFSITE DRAINAGE AREAS  
SCALE: 1" = 200'

### LEGEND

Drainage Area 1 Zone  
C Value 2 Percent Impervious  
Soil Typ. Percentages

--- DRAINAGE SUMMARY TAG  
--- DRAINAGE DIVIDE  
--- SOIL BOUNDARY  
--- HYDROLOGIC SOIL GROUP  
--- FLOW PATH

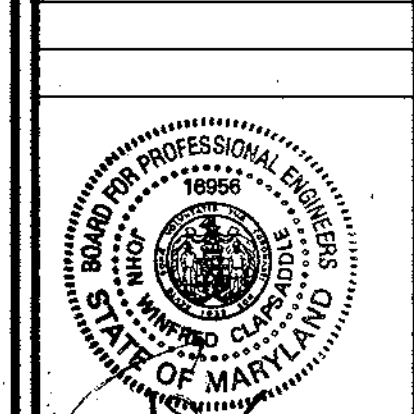
SITE DEVELOPMENT PLANS FOR:  
**NACM HEADQUARTERS**  
COLUMBIA 100 OFFICE RESEARCH PARK  
SECTION 1, AREA 2, PARCEL H-1  
HOWARD COUNTY, MARYLAND

OWNER:  
**NATIONAL ASSOCIATION OF CREDIT  
MANAGEMENT REALTY CORPORATION**  
8815 CENTRE PARK DRIVE  
SUITE 200  
COLUMBIA, MARYLAND 21045-2158  
(410) 740-5560

**RBA** Group, Inc.  
ARCHITECTS & PLANNERS  
ENGINEERS  
Suite 200, Columbia, Maryland 21046  
Phone (410) 312-0886, Fax 312-0897

REVISIONS

06/01/98	COUNTY COMMENTS
11/18/98	DRAINAGE AREAS AND FLOWS
10/18/99	REVISED SIDEWALK AND ADDED TERRACE DRAIN



DATE: 03/05/98  
JOB NUMBER: M2141.00  
FILE NUMBER: 2141BASE  
PLOTTED: 09/28/98  
DRAWN BY: Chip/RJ

**DRAINAGE AREA MAP**

SHEET C-14  
14 of 15

PERMIT INFORMATION CHART

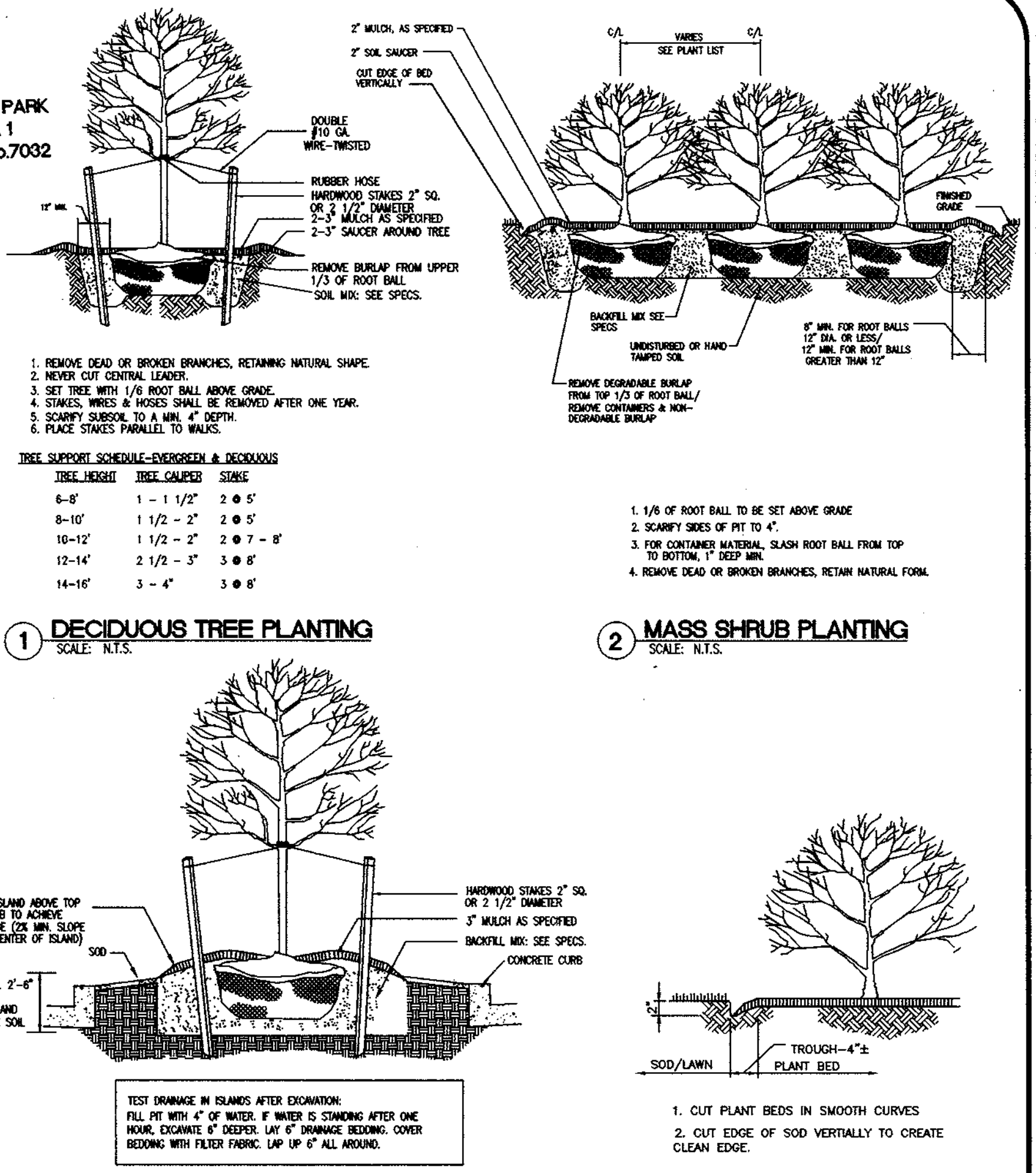
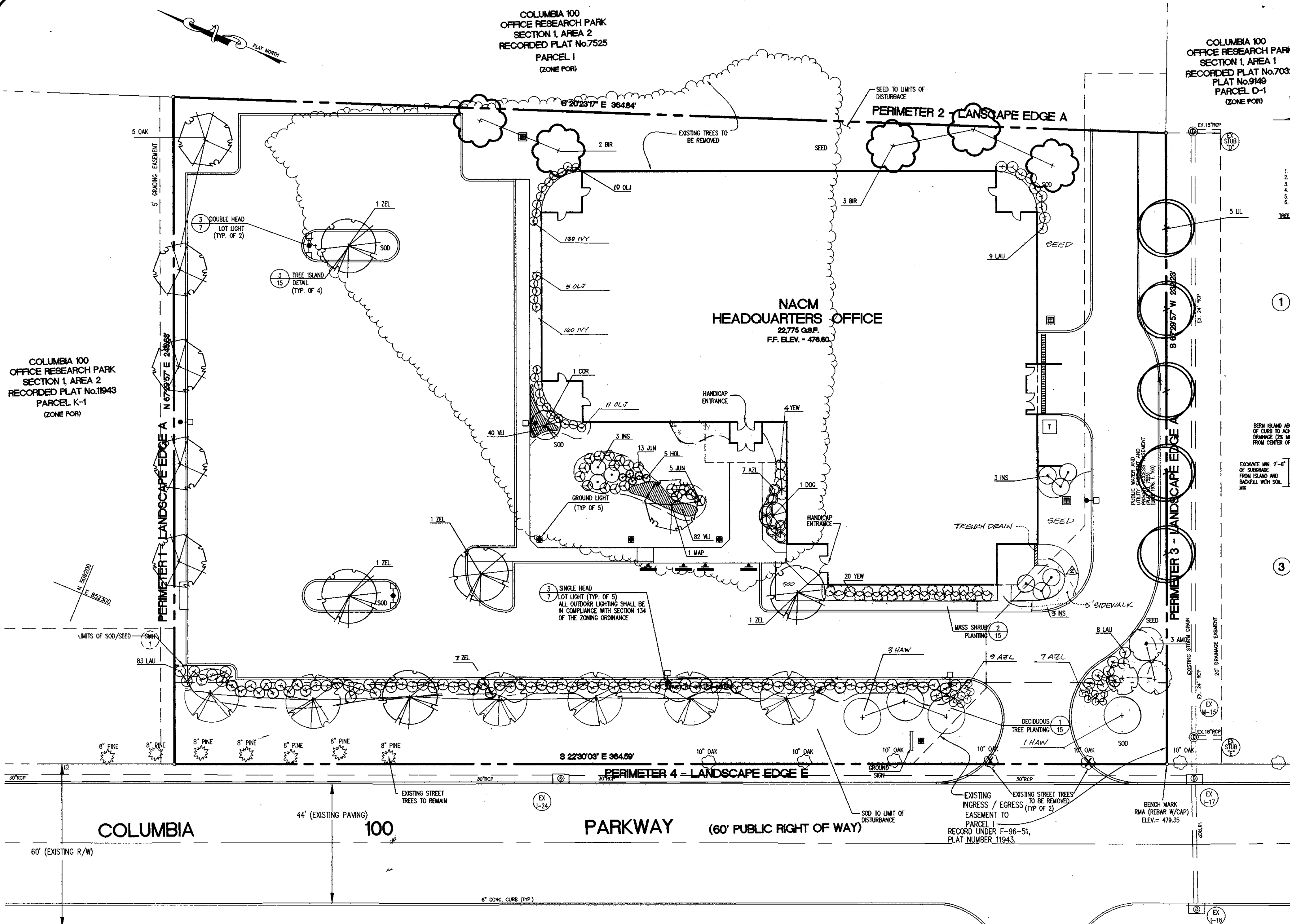
SUBDIVISION NAME COLUMBIA 100 OFFICE RESEARCH PARK	SECTION/AREA SECTION 1, AREA 2	LOT/PARCEL # PARCEL H-1
PLAT NO. 11943	BLOCK NO. N/A	ZONING POR
TAX MAP 30	ELECTION DIST. 2nd	CENSUS TRACT 6023.02
WATER CODE 007	SEWER CODE 57506.39	

APPROVED: DEPARTMENT OF PLANNING AND ZONING

*Chip R. Johnson* 10/20/98  
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

*Andy Hamilton* 11/3/98  
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

*Joseph R. Smith* 11/3/98  
DIRECTOR DATE



1. REMOVE DEAD OR BROKEN BRANCHES, RETAINING NATURAL SHAPE.  
 2. NEVER CUT CENTRAL LEADER.  
 3. SET TREE WITH 1/8 ROOT BALL ABOVE GRADE.  
 4. STAKES, TIES & HOSES SHALL BE REMOVED AFTER ONE YEAR.  
 5. SCARIFY SOIL TO A MIN. 4" DEPTH.  
 6. PLACE STAKES PARALLEL TO WALKS.

1. 1/8 OF ROOT BALL TO BE SET ABOVE GRADE  
 2. SCARIFY SIDES OF PIT TO 4".  
 3. FOR CONTAINER MATERIAL, SLASH ROOT BALL FROM TOP TO BOTTOM, 1" DEEP MIN.  
 4. REMOVE DEAD OR BROKEN BRANCHES, RETAIN NATURAL FORM.

**TREES**

KEY	QUAN	SIZE	PLANT NAME	REMARKS
MAP	1	2 1/2-3" CAL.	CRIMSON QUEEN LACELEAF MAPLE	SPACE AS SHOWN
BIR	5	2 1/2-3" CAL.	ACELEA PALMATUM 'CRIMSON QUEEN'	SINGLE STEM
DOG	1	1 1/2-2" CAL.	RIVER BIRCH	SPACE AS SHOWN
COR	1	7' - 8'	KOUSSA DOGWOOD	SPACE AS SHOWN
HAW	4	1 1/2-2" CAL.	CORNUS KOUSSA	SPACE AS SHOWN
AMO	3	5' - 6'	CORNELIANCHERRY DOGWOOD	12" O.C.
AOK	5	2 1/2 - 3"	CORNUS MAS	SPACE AS SHOWN
LIL	5	1 1/2 - 2" CAL.	WINTER KING HAWTHORN	SPACE AS SHOWN
ZEL	11	2 1/2-3" CAL.	CRATAEGUS VIRIDIS 'WINTER KING'	SPACE AS SHOWN
			MISS HELEN AMERICAN HOLLY	
			ILEX OPACA 'MISS HELEN'	
			PIN OAK	
			QUERCUS PALUSTRIS	
			JAPANESE LILAC TREE	
			SYRINGA RETICULATA	
			VILLAGE GREEN ZELKOVA	
			ZELKOVA SERRATA 'VILLAGE GREEN'	

**SHRUBS**

KEY	QUAN	SIZE	PLANT NAME	REMARKS
AZL	27	5 GAL.	DELAWARE VALLEY WHITE AZALEA	3" O.C.
HOL	5	5 GAL.	DELAWAR VALLEY WHITE	3" O.C.
INS	9	5-6'	HELLERI HOLLY	6" O.C.
OLJ	26	5 GAL.	ILLEX CRENATA 'HELLERI'	6" O.C.
JUN	18	3 GAL.	NELLIE STEVENS HOLLY	3" O.C.
LAU	100	5 GAL.	ILLEX X 'NELLIE R. STEVENS'	4" O.C.
YEW	30	5 GAL.	OLD GOLD JUNIPER	4" O.C.
			JUNIPERUS CHINENSIS 'OLD GOLD'	
			BLUE PACIFIC JUNIPER	
			JUNIPERUS CONFERTA 'BLUE PACIFIC'	
			OTTO LUKYEN CHERRY LAUREL	
			PRUNUS LAUROCERASUS 'OTTO LUKYEN'	
			DEWEY YEW	
			KALDIYA 'DENSI-FORMIS'	

**GROUNDCOVERS**

KEY	QUAN	SIZE	PLANT NAME	REMARKS
IVY	290	4" POT	THORNDALE ENGLISH IVY	8" O.C.
VLI	122	1 GAL.	HEDERA HELIX 'THORNDALE'	18" O.C.
SEED	6,694	SQ. FT.	VARIEGATED LIRIOPE	QUANTITIES ARE APPROXIMATE.
SOD	10,650	SQ. FT.	LIRIOPE MUSCARI 'SILVERLY SUN PROOF'	
			MD CERTIFIED TURF TYPE TALL FESCUE	
			MD CERTIFIED TURF TYPE TALL FESCUE	

**NOTE:** THE PLANT SIZE SHALL TAKE PRECEDENCE OVER THE CONTAINER SIZE, WHERE BOTH ARE GIVEN.

**APPROVED: DEPARTMENT OF PLANNING AND ZONING**

Chief, Development Engineering Division: *[Signature]* 10/30/98  
 Chief, Division of Land Development: *[Signature]* 11/3/98  
 Director: *[Signature]* 11/3/98

**PERMIT INFORMATION CHART**

SUBDIVISION NAME	SECTION/AREA	LOT/PARCEL #			
COLUMBIA 100 OFFICE RESEARCH PARK	SECTION 1, AREA 2	PARCEL H-1			
PLAT NO.	BLOCK NO.	ZONING	TAX MAP	ELECTION DIST.	CENSUS TRACT
11943	N/A	FOR	30	2nd	6023.02
WATER CODE	SEWER CODE				
007	5750639				

**SCHEDULE A PERIMETER LANDSCAPE EDGES**

CATEGORY	ADJACENT TO ROADWAYS	ADJACENT TO PERIMETER PROPERTIES
LANDSCAPE TYPE	E	A
LINEAR FEET OF ROADWAY FRONTAGE/PERIMETER	PERIMETER 4 365'	PERIMETERS 1,2,3 = 843'
CREDIT FOR EXISTING VEGETATION	0	0
CREDIT FOR WALL, FENCE OR BERM	0	0
NUMBER OF PLANTS REQUIRED		
SHADE TREES	9	14
EVERGREEN TREES		
SHRUBS	91	
NUMBER OF PLANTS PROVIDED		
SHADE TREES	7	10
EVERGREEN TREES		
OTHER TREES (2:1 SUBSTITUTION)	4*	8**
SHRUBS (10:1 SUBSTITUTION)	91	

\* 4 ORNAMENTAL TREES (HAW) ARE SUBSTITUTED FOR 2 SHADE TREES.  
 \*\* 5 ORNAMENTAL TREES (LIL) AND 3 EVERGREEN TREES (AMO) ARE SUBSTITUTED FOR 4 SHADE TREES.

**SCHEDULE B PARKING LOT INTERNAL LANDSCAPING**

CATEGORY	NUMBER OF PLANTS REQUIRED	NUMBER PROVIDED
NUMBER OF PARKING SPACES	79	
INTERNAL ISLANDS REQUIRED (1/20)	4	
INTERNAL ISLANDS PROVIDED	4	
SHADE TREES REQUIRED (1/20)	4	
SHADE TREES PROVIDED	4	

**GENERAL NOTES**

- THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL.
- FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING HAS BEEN POSTED AS PART OF THE DPW DEVELOPER'S AGREEMENT IN THE AMOUNT OF \$ 9,630.00.

**LANDSCAPE PLANTING NOTES AND SPECIFICATIONS**

ALL PLANTS TO BE NURSERY GROWN AND FURNISHED IN ACCORDANCE WITH ASN. "AMERICAN STANDARDS FOR NURSERY STOCK" ANSI 260.1 LATEST EDITION.

ALL TREES TO BRANCH SYMMETRICALLY AROUND CENTRAL LEADER NO FORKED LEADER STOCK WILL BE ACCEPTED.

ANY SUBSTITUTIONS ARE TO BE OF EQUIVALENT TYPE AND SIZE AND MUST BE APPROVED IN WRITING BY THE LANDSCAPE ARCHITECT/ENGINEER PRIOR TO INSTALLATION.

CONTAINER STOCK MAY BE SUBSTITUTED FOR BALLED AND BURLAPPED STOCK UPON APPROVAL BY THE LANDSCAPE ARCHITECT/ENGINEER.

INSTALLATION OF PINES AND OAKS SHALL BE DURING SPRING PLANTING SEASON ONLY UNLESS OTHERWISE APPROVED BY LANDSCAPE ARCHITECT/ENGINEER.

THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES FIVE (5) DAYS PRIOR TO INSTALLATION AND/OR CONSTRUCTION.

ANY DAMAGE TO EXISTING UTILITIES, BUILDINGS, PAVING, CURB, WALKS, AND EXISTING VEGETATION SHALL BE REPAIRED TO PREVIOUS CONDITION OR REPLACED BY THE CONTRACTOR AT HIS EXPENSE.

ALL AREAS TO BE PLANTED SHOULD BE FINISHED WITH 2 - 3" FINE TEXTURED, SHREDED HARDWOOD MULCH UNLESS OTHERWISE NOTED ON PLAN.

ALL AREAS DISTURBED DURING INSTALLATION SHALL BE SEEDED UNLESS OTHERWISE NOTED.

POTABLE WATER SHALL BE MADE AVAILABLE TO ALL PLANT MATERIALS AS REQUIRED FOR GROWTH.

IF PLANT MATERIAL CANNOT BE INSTALLED IN ACCORDANCE WITH THIS PLAN, THE CONTRACTOR SHALL CONTACT THE LANDSCAPE ARCHITECT/ENGINEER FOR RESOLUTION PRIOR TO INSTALLATION.

**OWNER:** NATIONAL ASSOCIATION OF CREDIT MANAGEMENT REALTY CORPORATION  
 885 CENTRE PARK DRIVE  
 SUITE 200  
 COLUMBIA, MARYLAND 21045-2158  
 (410) 740-5560

**OWNER'S DEVELOPMENT PLANS FOR:** NACM HEADQUARTERS  
 COLUMBIA 100 OFFICE RESEARCH PARK  
 SECTION 1, AREA 2, PARCEL H-1  
 HOWARD COUNTY, MARYLAND

**REVISIONS**

DATE	DESCRIPTION
06/01/98	COUNTY COMMENTS
09/28/98	TRANSFORMER, LIGHTS, NOTES, TREES, ETC.
12/18/98	REVISED PER OWNER'S REQUEST
10/18/99	REVISED SIDEWALK AND ADDED TRENCH DRAIN

**DATE:** 03/05/98  
**JOB NUMBER:** M2141.00  
**FILE NUMBER:** 2141BASE  
**PLOTTED:** 09/28/98  
**DRAWN BY:** Chip/RJ

**LANDSCAPE PLAN**  
 SHEET L-1  
 15 OF 15