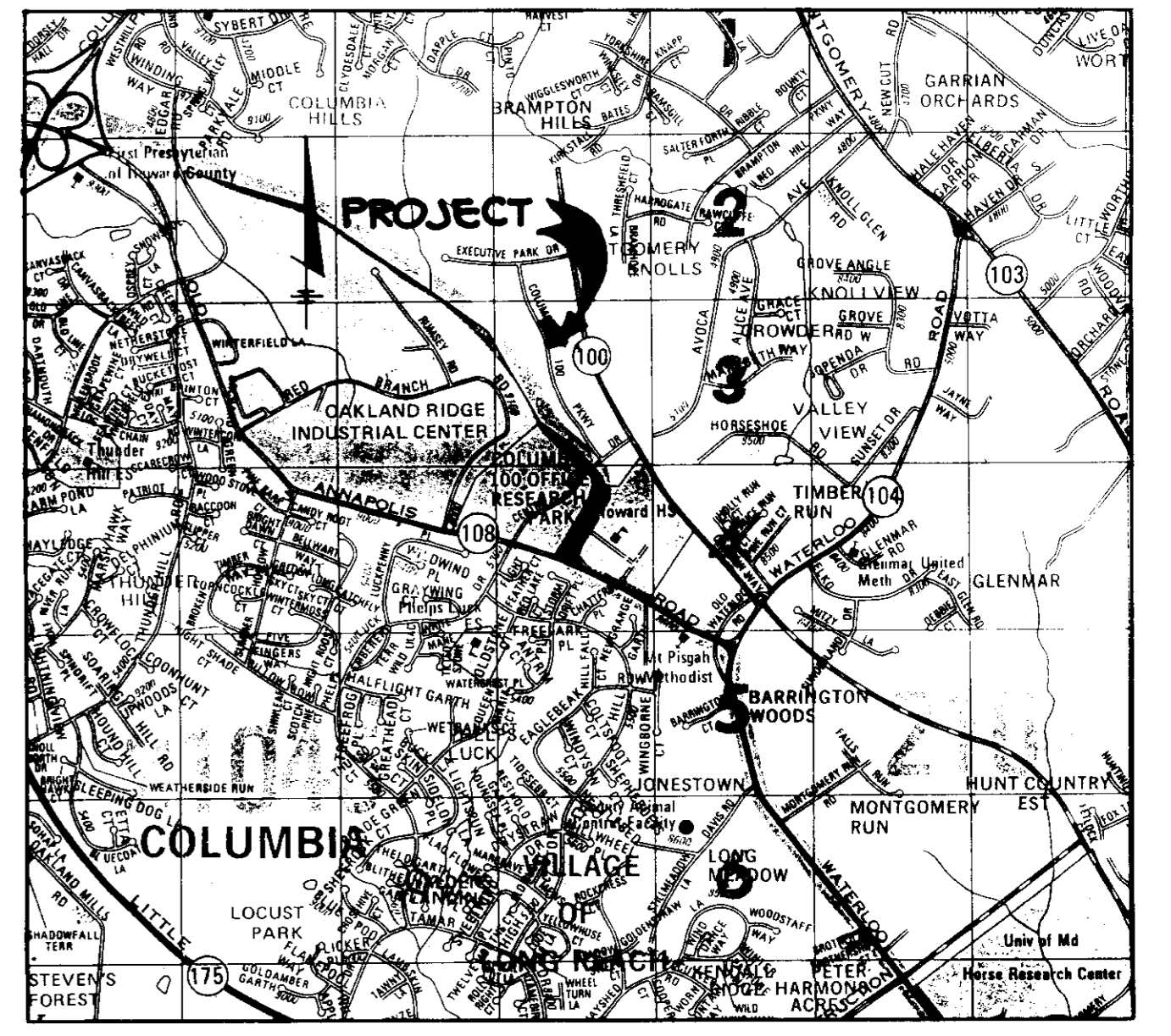


SHEET INDEX	
NO.	DESCRIPTION
1	TITLE SHEET
2	SITE DEVELOPMENT PLAN
3	GRADING, SEDIMENT CONTROL & DRAINAGE AREA MAP
4	SEDIMENT CONTROL NOTES AND DETAILS
5	PROFILES AND DETAILS
6	LANDSCAPE PLAN

SITE DEVELOPMENT PLAN

COLUMBIA 100 OFFICE RESEARCH PARK PARCEL N SECTION 1, AREA 2

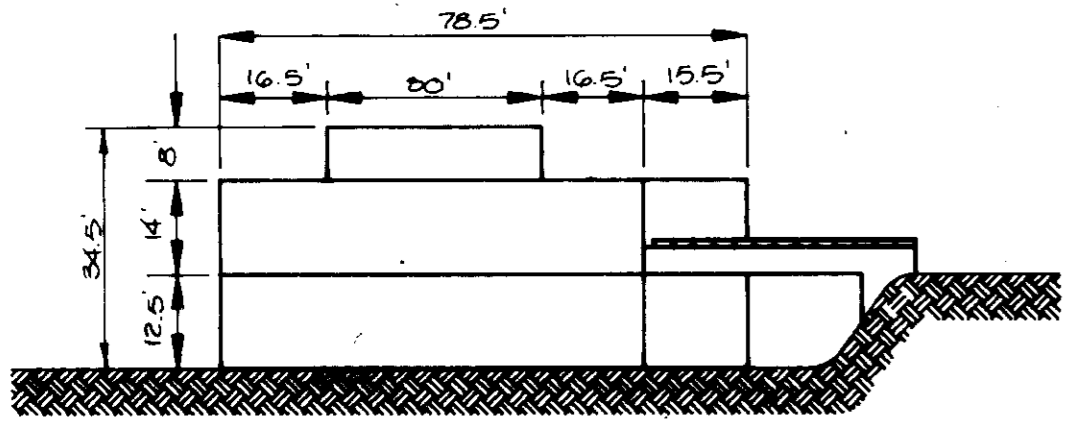
2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND



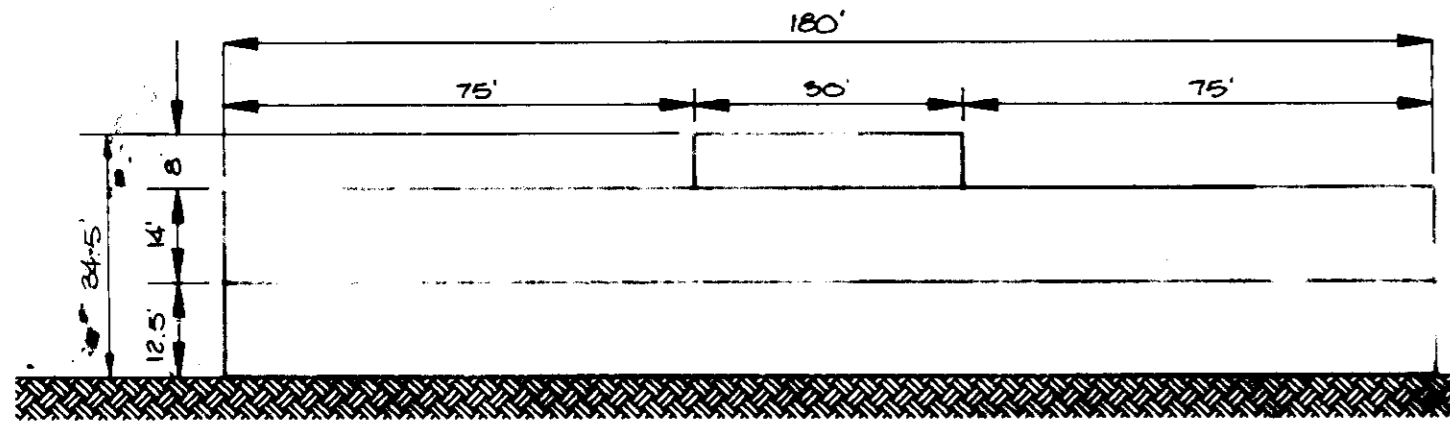
VICINITY MAP
SCALE: 1"=2000'

- GENERAL NOTES**
- ALL WATER LINES SHALL BE CONSTRUCTED A MINIMUM OF 42" COVER BELOW FINISHED GRADE.
 - ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, I.E., STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
 - APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN FROM BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
 - THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES AT LEAST FIVE (5) DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS TO VERIFY THEIR LOCATION AND ELEVATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF LOCATION OF UTILITIES IS OTHER THAN SHOWN.
 - CONTRACTOR TO NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS:

MISS UTILITY	1-800-257-7777
C&P TELEPHONE COMPANY	725-9976
HOWARD COUNTY BUREAU OF UTILITIES	992-2366
WAT. CABLE LOCATION DIVISION	393-3553
BALTIMORE GAS & ELECTRIC COMPANY	685-0123
STATE HIGHWAY ADMINISTRATION	531-5533
HOWARD COUNTY CONSTRUCTION INSPECTION SURVEY DIVISION (24 HOURS NOTICE PRIOR TO COMMENCEMENT OF WORK)	792-7272
 - ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
 - ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
 - THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALLS.
 - PROFILE STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
 - NO PIPE SHALL BE LAID UNTIL LINES OF EXCAVATION HAVE BEEN BROUGHT TO SURGRADE.
 - TOPO TAKEN FROM FIELD RUN SURVEY DATED JUNE, 1989 BY: KUBERK LAUEGG & ASSOCIATES, INC.
 - ALL PLAN DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
 - ALL STORM DRAIN PIPE BENDING SHALL BE AS SHOWN IN DETAIL C2.01 (TRENCH IN ROCK OR TRENCH IN EARTH AS DETERMINED BY FIELD CONDITIONS) IN VOL. IV OF HOWARD COUNTY DESIGN MANUAL UNLESS OTHERWISE DIRECTED BY THE ENGINEER OR AS SHOWN ON THE DRAWINGS.
 - THE DEVELOPER IS RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENTS, RIGHTS AND/OR RIGHTS-OF-WAY THAT MAY BE REQUIRED FOR THE SEDIMENT AND EROSION CONTROL PRACTICES, STORM WATER MANAGEMENT PRACTICES AND THE DISCHARGE OF STORM WATER ONTO OR ACROSS ADJACENT OR DOWNSTREAM PROPERTIES INCLUDED IN THIS PLAN. HE IS ALSO RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENTS, RIGHTS AND/OR WORK ON ADJACENT PROPERTIES INCLUDED IN THIS PLAN.
 - THE OWNER SHALL PROVIDE A SEPARATE AND INDEPENDENT SEWER CONNECTION FOR EACH TENANT OR OCCUPANT OF ANY BUILDING, SHOWN ON THIS SITE DEVELOPMENT PLAN, WHO WILL DISCHARGE NON-DOMESTIC WASTE TO THE PUBLIC SEWERAGE SYSTEM IF THIS WASTE IS REGULATED UNDER SECTION 18.122A OF THE HOWARD COUNTY CODE. EACH SEPARATE AND INDEPENDENT SEWER CONNECTION SHALL INCLUDE A STANDARD MANHOLE AND OTHER WASTE TREATMENT DEVICES AS REQUIRED AND APPROVED BY HOWARD COUNTY. WASTE LINES ON THE INTERIOR OF THE BUILDING SHALL BE DESIGNED, CONSTRUCTED OR MODIFIED SUCH THAT NON-DOMESTIC WASTE WILL BE DISCHARGED TO THE SEPARATE AND INDEPENDENT SEWER CONNECTION. NO TENANT OR OCCUPANT OF ANY BUILDING SHOWN ON THIS SITE DEVELOPMENT PLAN SHALL DISCHARGE REGULATED NON-DOMESTIC WASTE TO THE PUBLIC SEWERAGE SYSTEM PRIOR TO INSTALLATION OF THE SEPARATE AND INDEPENDENT SEWER CONNECTION AND RELATED INTERIOR WASTE LINES. THE ABOVE REQUIREMENTS SHALL APPLY TO ALL INITIAL AND FUTURE OCCUPANTS OR TENANTS.
 - STORMWATER MANAGEMENT FOR THIS DEVELOPMENT IS PROVIDED UNDER F-87-82. THE FACILITY IS A RETENTION POND.
 - THE OWNER SHALL PROVIDE MAINTENANCE FOR THE WATER QUALITY STRUCTURES PROVIDED FOR THIS DEVELOPMENT.
 - PREVIOUS OFFICE OF PLANNING AND ZONING FILE NOS. F-87-82

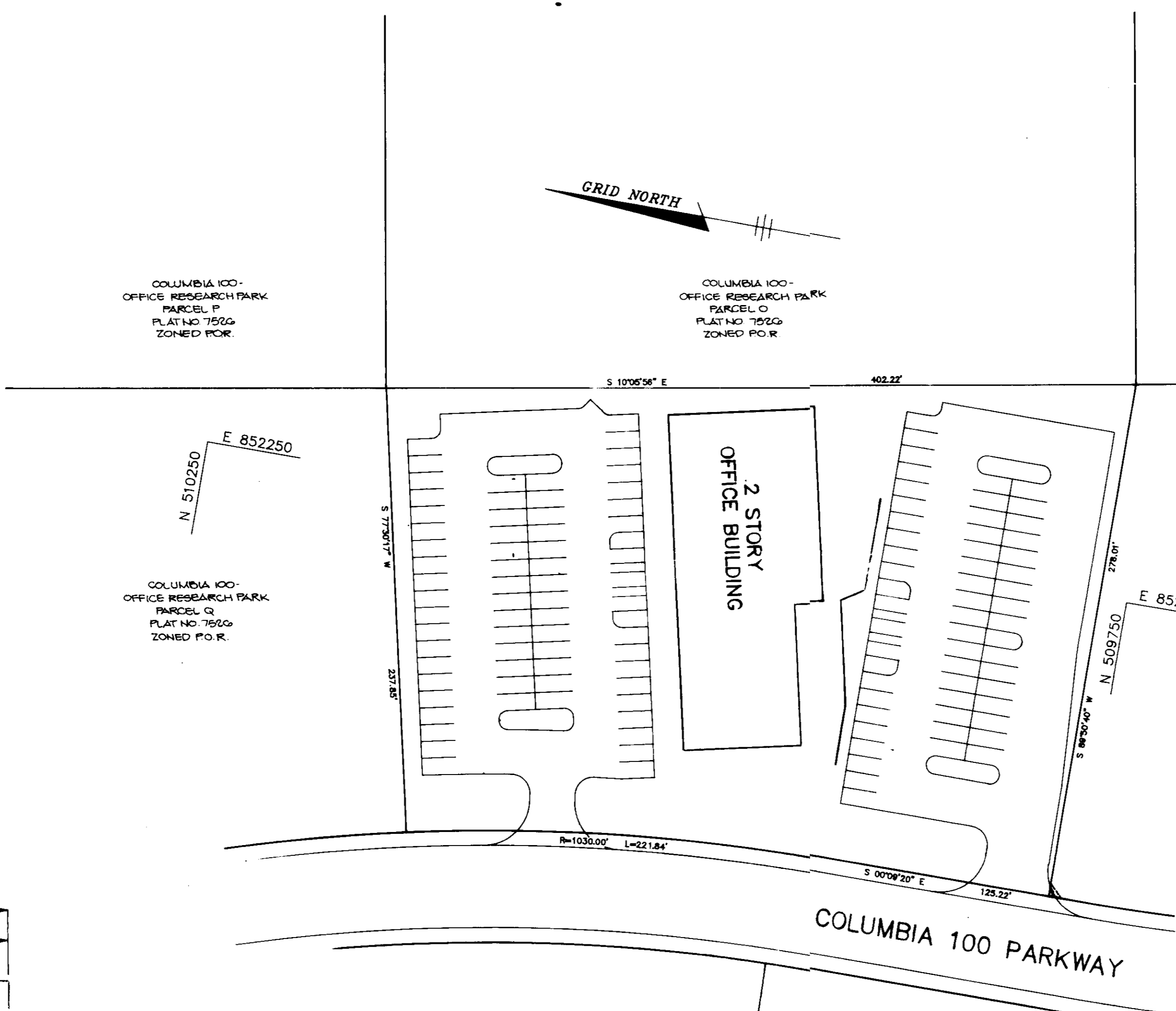


SOUTH ELEVATION
NO SCALE



WEST ELEVATION
NO SCALE

NOTE: 30" x 30" STRUCTURE ON ROOF IS FOR SCREENING OF MECHANICAL EQUIPMENT.



PLAN
SCALE: 1"=50'

SITE TABULATION	
AREA OF PARCEL:	2.145 ACRES 93,425 SQ. FT.
PRESENT ZONING:	P.O.R.
PROPOSED USE:	2 STORY OFFICE BUILDING
BUILDING COVERAGE ALLOWED:	32,899 SQ. FT. (35% OF TOTAL SITE AREA)
PROPOSED BUILDING COVERAGE:	12,952 SQ. FT. (13.86% OF TOTAL SITE AREA)
PROPOSED TOTAL SQUARE FOOTAGE OF OFFICE:	12,952 SQ. FT. 1ST FLOOR - 2ND FLOOR -
TOTAL BUILDING AREA:	25,904 SQ. FT.
NUMBER OF PARKING SPACES REQUIRED:	OFFICE @ 7/10 EMPLOYEES WORKING AT ONE TIME 119 SPACES (170 EMPLOYEES)
NUMBER OF PARKING SPACES PROVIDED:	121 SPACES
NUMBER OF HANDICAP SPACES PROVIDED:	5 SPACES
NUMBER OF HANDICAP SPACES PROVIDED:	6 SPACES
OPEN SPACE REQUIRED:	18,885 SQ. FT. (INCLUDING INTERNAL LANDSCAPED ISLANDS) (20% OF TOTAL SITE AREA)
OPEN SPACE PROVIDED:	26,136 SQ. FT. (28% OF TOTAL SITE AREA)
LANDSCAPED ISLANDS REQUIRED:	2,172 SQ. FT. (5% OF PARKING AREA)
LANDSCAPED ISLANDS PROVIDED:	2,700 SQ. FT. (6.2% OF PARKING AREA)
AREA OF PARKING:	43,440 SQ. FT.

ADDRESS CHART	
LOT NUMBER	STREET ADDRESS
PARCEL N	8880 COLUMBIA 100 PARKWAY

SUBDIVISION NAME	SECT./AREA	LOT/PARCEL #
COLUMBIA 100 OFFICE RESEARCH PARK	1/2	PARCEL N
PLAT # OR L/P	BLOCK #	ZONE
7526	12 & 18	P.O.R.
TAX/ZONE MAP	ELEC. DIST.	CENSUS TR.
30	2ND	6025 02
WATER CODE	SEWER CODE	
GOZ	667400	

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
Josum Bogdan 10-11-89
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING.
Uhl 10-23-89
DIRECTOR DATE
Frank J. Z... 10/19/89
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
James A. ... 9-29-89
DIRECTOR DATE
... 9-29-89
CHIEF, BUREAU OF ENGINEERING DATE

DATE	NO.	REVISION

OWNER/DEVELOPER
PARCEL N ASSOCIATES
10320 LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND 21045

PROJECT: COLUMBIA 100 OFFICE RESEARCH PARK
SECTION 1, AREA 2
A TWO STORY OFFICE BUILDING

AREA TAX MAP 30 ZONED P.O.R. PLAT NO 7526
COLUMBIA 100 OFFICE RESEARCH PARK SECT. 1, AREA 2 PARCEL N
2ND ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

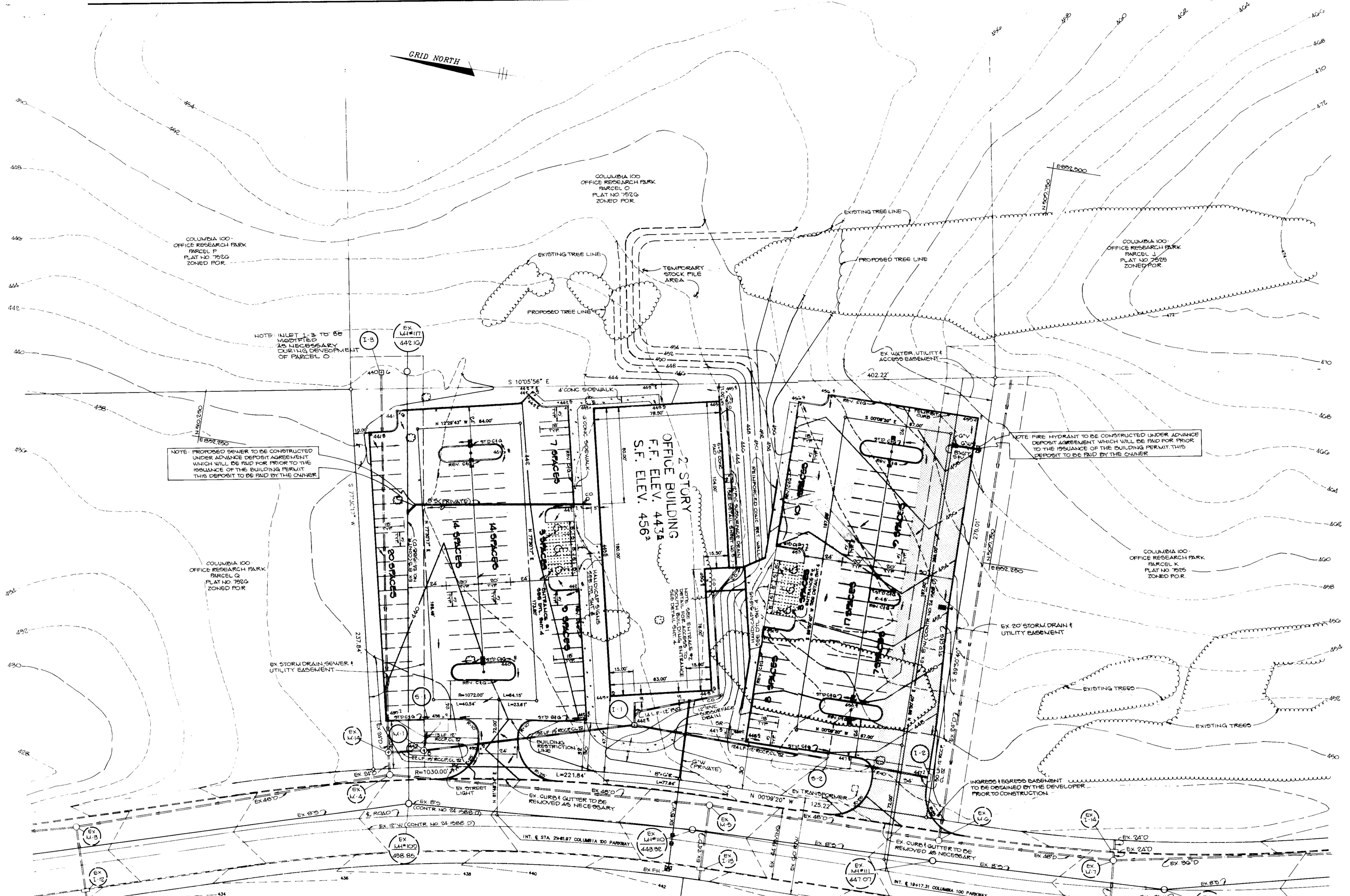
TITLE: TITLE SHEET

RIEMER MUEGGE & ASSOCIATES, INC.
A Land Planning, Engineering and Consulting Firm
3105 North Ridge Road Ellicott City, Maryland 21043
301-461-2690 FAX: 301-750-3176

9-13-89
DATE

DESIGNED BY: W.C.W.
DRAWN BY: G.O.H.
PROJECT NO: 89002
DATE: MAY 18, 1989
SCALE: AS SHOWN
DRAWING NO. 1 OF 6

8-30-89



NOTE: INLET 1-3 TO BE MODIFIED AS NECESSARY DURING DEVELOPMENT OF PARCEL O.

NOTE: PROPOSED SEWER TO BE CONSTRUCTED UNDER ADVANCE DEPOSIT AGREEMENT WHICH WILL BE PAID FOR PRIOR TO THE ISSUANCE OF THE BUILDING PERMIT. THIS DEPOSIT TO BE PAID BY THE OWNER.

NOTE: FIRE HYDRANT TO BE CONSTRUCTED UNDER ADVANCE DEPOSIT AGREEMENT WHICH WILL BE PAID FOR PRIOR TO THE ISSUANCE OF THE BUILDING PERMIT. THIS DEPOSIT TO BE PAID BY THE OWNER.

- LEGEND**
- P-1 PAVING
 - P-2 PAVING
 - BRICK PAVERS (SEE DETAIL SHEET 4)
 - CONCRETE SIDEWALK OR PAVING
 - STANDARD T COMBINATION CURB & GUTTER
 - REVERSE T COMBINATION CURB & GUTTER
 - BITUMINOUS CURB
 - DOUBLE FIXTURE LIGHT POLE
 - SINGLE FIXTURE LIGHT POLE

NOTES:
 1. ALL RADII 5 UNLESS OTHERWISE NOTED.
 2. ALL DIMENSIONS TO FACE OF BUILDING, FACE OF CURB OR CENTERLINE.

COLUMBIA 100 OFFICE RESEARCH PARK PARCEL N, PLAT NO. 752G ZONED FOR R.

COLUMBIA 100 PARKWAY
 A HOWAR COUNTY PUBLIC ROAD (LOCAL ROAD)

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.

Joseph W. Boyle 10-11-89
 COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING.

Walter 10-23-89
 DIRECTOR DATE

Charles J. Taylor 11-13-89
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

James M. ... 9-29-89
 DIRECTOR DATE

William A. Ray 9-29-89
 CHIEF, BUREAU OF ENGINEERING DATE

DATE	NO.	REVISION

OWNER/DEVELOPER
 PARCEL N ASSOCIATES
 10320 LITTLE PATUXENT PARKWAY
 COLUMBIA, MARYLAND 21045

PROJECT COLUMBIA 100 OFFICE RESEARCH PARK
 PARCEL N
 SECTION 1, AREA 2
 A TWO STORY OFFICE BUILDING

AREA TAX MAP 30 ZONED FOR PLAT NO. 752G
 COLUMBIA 100 OFFICE RESEARCH PARK SEC. 1, AREA 2, PARCEL N
 2ND ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

TITLE: SITE DEVELOPMENT PLAN

RIEMER MUEGGE & ASSOCIATES, INC.
 A Land Planning, Engineering and Consulting Firm
 3105 North Ridge Road Ellicott City, Maryland 21043
 301-461-2690 FAX: 301-750-3176

9-13-89
 DATE

DESIGNED BY: W.C.W.

DRAWN BY: C.A.D./M.A.D.

PROJECT NO: 50502

DATE: MAY 18, 1980

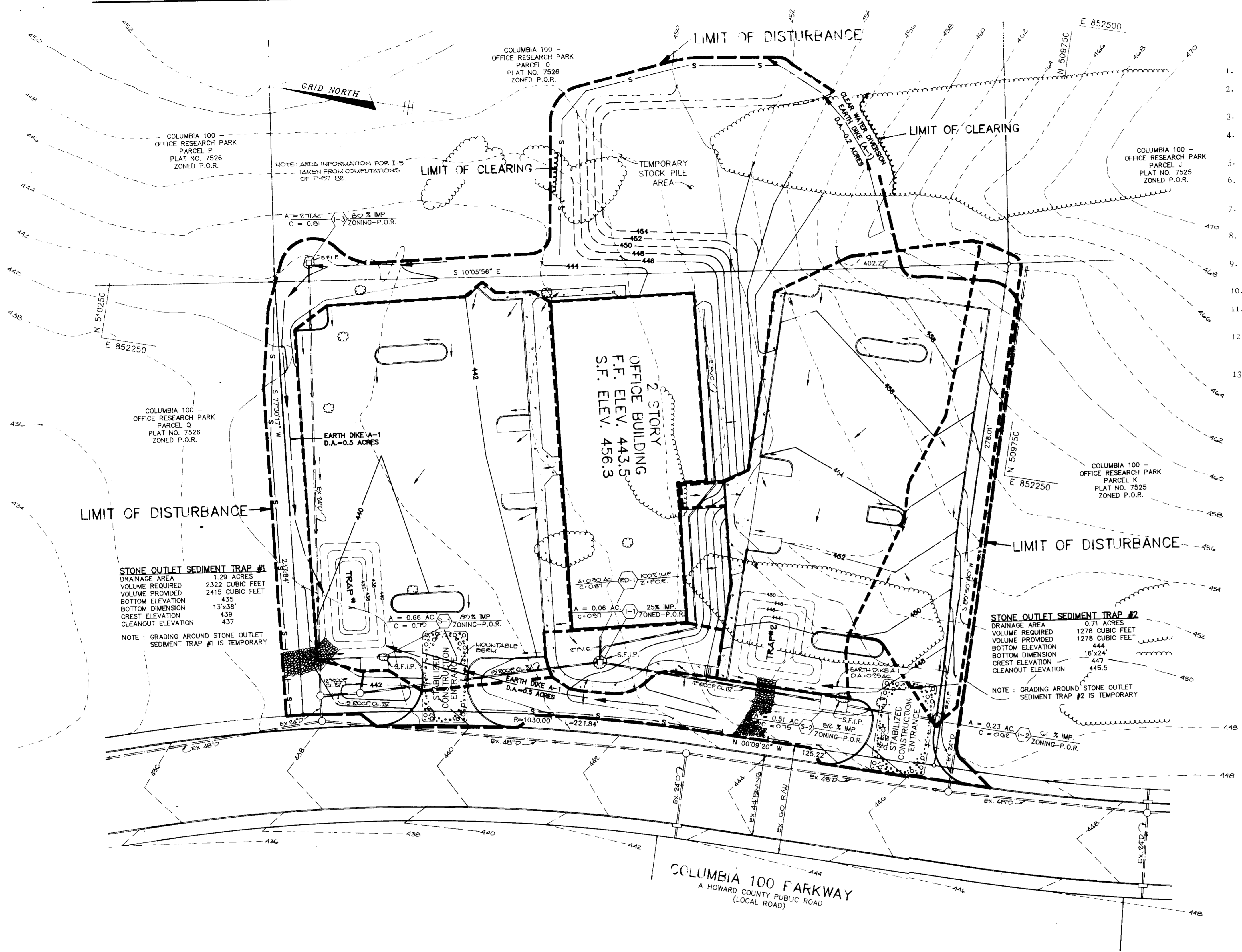
SCALE: 1"=30'

DRAWING NO: 2 OF 6

Arthur E. Muegge
 ARTHUR E. MUEGGE # 5710

SDP-89-230

8-30-89



STONE OUTLET SEDIMENT TRAP #1
 DRAINAGE AREA 1.29 ACRES
 VOLUME REQUIRED 2322 CUBIC FEET
 VOLUME PROVIDED 2415 CUBIC FEET
 BOTTOM ELEVATION 435
 BOTTOM DIMENSION 13'x38'
 CREST ELEVATION 439
 CLEANOUT ELEVATION 437
 NOTE: GRADING AROUND STONE OUTLET SEDIMENT TRAP #1 IS TEMPORARY

STONE OUTLET SEDIMENT TRAP #2
 DRAINAGE AREA 0.71 ACRES
 VOLUME REQUIRED 1278 CUBIC FEET
 VOLUME PROVIDED 1278 CUBIC FEET
 BOTTOM ELEVATION 444
 BOTTOM DIMENSION 16'x24'
 CREST ELEVATION 447
 CLEANOUT ELEVATION 445.5
 NOTE: GRADING AROUND STONE OUTLET SEDIMENT TRAP #2 IS TEMPORARY

LEGEND
 --- SILT FENCE
 --- EARTH DIKE
 --- DRAINAGE AREA LINES
 --- LIMIT OF DISTURBANCE
 --- S.F.I.P. STONE FILTER INLET PROTECTION

NOTE: LETTERS OF PERMISSION TO GRADE IN PARCEL K, PARCEL O AND PARCEL Q TO BE OBTAINED BY THE DEVELOPER.

- SEQUENCE OF CONSTRUCTION
1. Obtain grading permit.
 2. Install stabilized construction entrance at the southern entrance by removing the existing curb and gutter as necessary (1/2 day)
 3. Install all sediment control devices (2 days)
 4. Rough grade site maintaining positive flow to the sediment traps in the designated area on Parcel 10 (10 days)
 5. Begin construction of the retaining wall and the other utilities.
 6. As soon as the retaining wall is constructed, backfill the wall and rough grade area in the upper parking lot (4 days)
 7. Remove curb and gutter at the northern entrance and install a stabilized construction entrance (1/2 day)
 8. Block all the inlets with stone filter inlet protection and remove the two sediment traps (3 days)
 9. Stabilize the disturbed area in accordance with temporary seeding notes.
 10. Begin building and curb and gutter construction.
 11. Upon completion of curb and gutter installation, fine grade the site and begin paving.
 12. Once the paving is completed, upon approval of the Howard County Department of Public Works Sediment Control Inspector, remove all sediment control devices (1 day)
 13. Stabilize all the disturbed area in accordance with permanent seeding notes.

BY THE DEVELOPER:
 "I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES 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."
Joseph J. Hurd
 DEVELOPER 9/13/89 DATE

BY THE ENGINEER:
 "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."
Arthur E. Muegge
 ENGINEER 9/13/89 DATE

REVIEWED FOR **HOWARD** NAME S.C.D.
 AND MEETS TECHNICAL REQUIREMENTS
James M. Helms 9/21/89 DATE
 SOIL CONSERVATION SERVICE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
John A. Robertson 9/21/89 DATE
 HOWARD S.C.D.

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
James W. Brindle 10-11-89 DATE
 COUNTY HEALTH OFFICER

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING
U. R. B. 10-22-89 DATE
 DIRECTOR

Frank J. 2. Taylor 10/19/89 DATE
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

James A. Sten 9-22-89 DATE
 DIRECTOR

James A. Sten 9-22-89 DATE
 CHIEF, BUREAU OF ENGINEERING

DATE	NO	REVISION

OWNER/DEVELOPER
 PARCEL N ASSOCIATES
 10320 LITTLE PATUXENT PARKWAY
 COLUMBIA, MARYLAND 21045

PROJECT COLUMBIA 100 OFFICE RESEARCH PARK
 PARCEL N
 SECTION 1, AREA 2
 A TWO STORY OFFICE BUILDING
 AREA TAX MAP 30 ZONED FOR PLAT NO. 7526
 COLUMBIA 100 OFFICE RESEARCH PARK SECT. 1, AREA 2 PARCEL N
 2ND ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

TITLE **GRADING, SEDIMENT CONTROL AND DRAINAGE AREA MAP**

RIEMER MUEGGE & ASSOCIATES, INC.
 A Land Planning, Engineering and Consulting Firm
 3105 North Ridge Road Ellicott City, Maryland 21043
 301-461-2690 FAX: 301-750-3176

8-30-89
 DATE
 DESIGNED BY W.C.W.
 DRAWN BY C.A.D.
 PROJECT NO 890008
 DATE MAY 18, 1989
 SCALE: 1" = 30'
 DRAWING NO 5 OF 6

9/13/89
 DATE
Arthur E. Muegge
 ARTHUR E. MUEGGE # 8107

57P-89-230

PERMANENT SEEDING NOTES

- A minimum of 24 hours notice must be given to the Howard County Office of Inspections and Permits prior to the start of any construction (992-2437)
- All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- The work shall not disturb or re-disturb, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter ditches and all slopes greater than 3:1; b) 15 days for all other disturbed or graded areas on the project site.
- 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.
- 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 (Sec. 51) and sod (Sec. 54), temporary seeding (Sec. 50) and mulching (Sec. 52). Temporary stabilization with mulch alone can only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
- All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.
- Site Analysis:

Total Area of Site	2.16 acres
Area Disturbed	2.16 acres
Area to be seeded or paved	1.22 acres
Area to be vegetatively stabilized	0.94 acres
Total Sod	5100 sq. yds.
Total Fertilizer	25000 lbs. yds.
- Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- Additional sediment controls must be provided, if deemed necessary by the Howard County DPW sediment control inspector.
- Site grading will begin only after all perimeter sediment control measures have been installed and are in a functioning condition.
- Sediment will be removed from traps when its depth reaches the clean out elevation shown on the plans.

TEMPORARY SEEDING NOTES

Apply to graded or cleared areas likely to be re-disturbed where a short-term vegetative cover is needed.

Seeded Preparation: Loosen upper three inches of soil by raking, disking or other acceptable means before seeding, if not previously loosened.

Soil Amendments: Apply 600 lbs. per acre 10-10-10 fertilizer (14 lbs./1000 sq. ft.).

Seeding: For periods March 1 thru April 30 and from August 15 thru November 15, seed with 2 1/2 bushel per acre of annual ryegrass (3.2 lbs./1000 sq. ft.). For the period May 1 thru August 14, seed with 3 lbs. per acre of weeping lovegrass (.07 lbs./1000 sq. ft.). For the period November 16 thru February 28, protect site by applying 2 tons per acre of well-anchored straw mulch and seed as soon as possible in the spring, or use sod.

Mulching: Apply 1 1/2 to 2 tons per acre (70 to 90 lbs./1000 sq. ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 2 1/8 gal. per acre (5 gal./1000 sq. ft.) of emulsified asphalt on flat areas. On slopes, 8 ft. or higher, use 3/4 gal. per acre (8 gal./1000 sq. ft.) for anchoring.

Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.

PERMANENT SEEDING NOTES

Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.

Seeded Preparation: Loosen upper three inches of soil by raking, disking or other acceptable means before seeding, if not previously loosened.

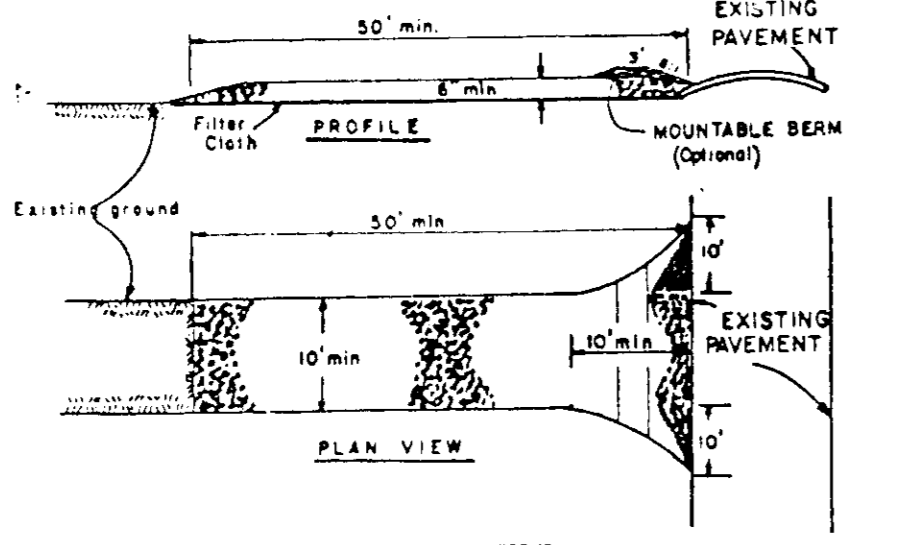
Soil Amendments: In lieu of soil test recommendations, use one of the following schedules:

- Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs./1000 sq. ft.) and 600 lbs. per acre 10-10-10 fertilizer (14 lbs./1000 sq. ft.) before seeding. Harrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs. per acre 30-0-0 urea-form fertilizer (9 lbs./1000 sq. ft.).
- Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs./1000 sq. ft.) and 1000 lbs. per acre 10-10-10 fertilizer (23 lbs./1000 sq. ft.) before seeding. Harrow or disc into upper three inches of soil.

Seeding: For the periods March 1 thru April 30, and August 1 thru October 15, seed with 60 lbs. per acre (1.4 lbs./1000 sq. ft.) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs. Kentucky 31 Tall Fescue per acre and 2 lbs. per acre (.05 lbs./1000 sq. ft.) of weeping lovegrass. During the period of October 16 thru February 28, protect site by: Option (1) 2 tons per acre of well-anchored straw mulch and seed as soon as possible in the spring; Option (2) Use sod; Option (3) Seed with 60 lbs./acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well-anchored straw.

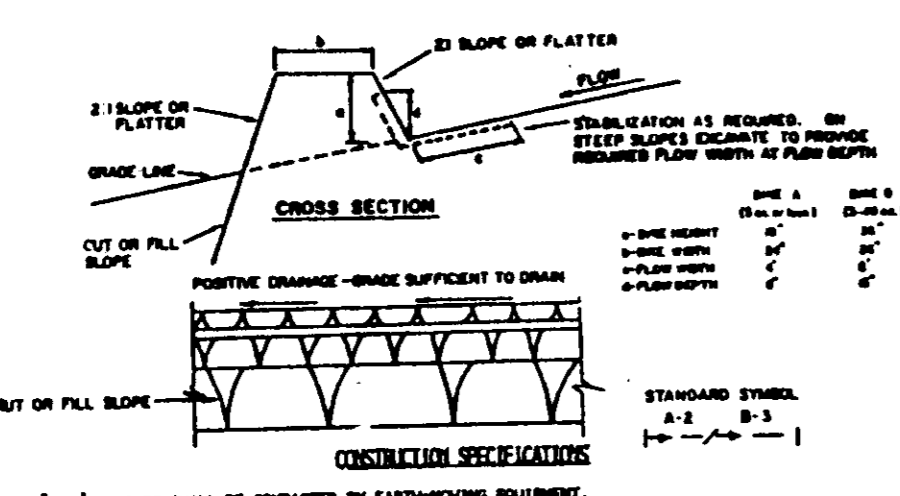
Mulching: Apply 1 1/2 to 2 tons per acre (70 to 90 lbs./1000 sq. ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 2 1/8 gal. per acre (5 gal./1000 sq. ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 3/4 gallons per acre (8 gal./1000 sq. ft.) for anchoring.

Maintenance: Inspect all seeded areas and make needed repairs, replacements and reseedings.



- CONSTRUCTION SPECIFICATIONS**
- Stone size - Use 1" stone, or reclaimed or recycled concrete equivalent.
 - Length - As required, but not less than 30 feet (except on a single residence lot where a 30 foot minimum length would apply).
 - Thickness - Not less than 6" (4" inches).
 - Width - Ten (10) foot minimum, but not less than the full width at points where lapses or splices occur.
 - Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter cloth will not be required on a single family residence lot.
 - Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable beam with 1 1/2" slope will be provided.
 - Maintenance - The entrance shall be maintained in a condition which will prevent tracking or floating of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanup of any measures used to trap sediment. All sediment applied, dropped, washed or tracked onto public rights-of-way must be removed immediately.
 - Washing - Washes shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
 - Periodic inspection and needed maintenance shall be provided after each rain.

STABILIZED CONSTRUCTION ENTRANCE
NO SCALE



- All dikes shall be compacted by earth-vibrating equipment.
- All dikes shall have positive drainage to an outlet.
- All dikes shall have a 2:1 slope on the flatter side and a 3:1 slope on the steeper side.
- Earth dikes shall have an outlet that functions with a minimum of 18" clearance above the dike crown. The outlet shall be a minimum of 18" wide and shall be a minimum of 18" high.
- Stabilization shall be (a) in accordance with the specifications for seed and sod or (b) in accordance with the specifications for mulch and straw.

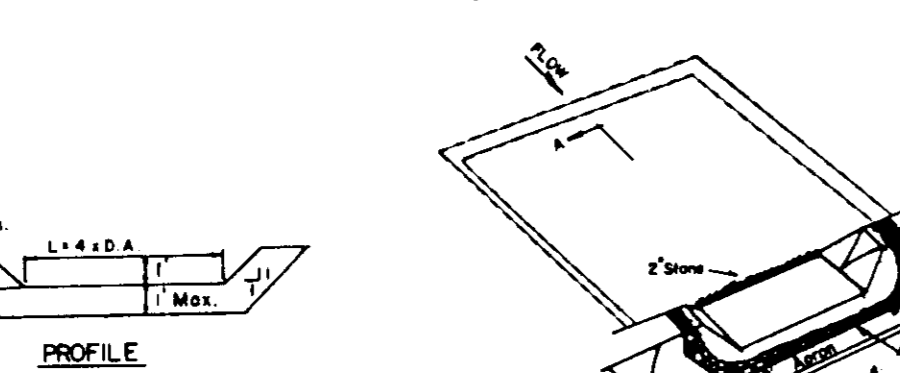
FLOW CHANNEL STABILIZATION

TYPE OF CHANNEL	CHANNEL	DIKE A	DIKE B
1	5-3-0E	Seed and Straw Mulch	Seed and Straw Mulch
2	3-3-0E	Seed and Straw Mulch	Seed and Straw Mulch
3	5-3-0E	Seed with Jute, or Sod	Seed with Jute, or Sod
4	8-1-2E	Line 8 Rip-Rap 4-8"	Line 8 Rip-Rap 4-8"

ENGINEERING DESIGN

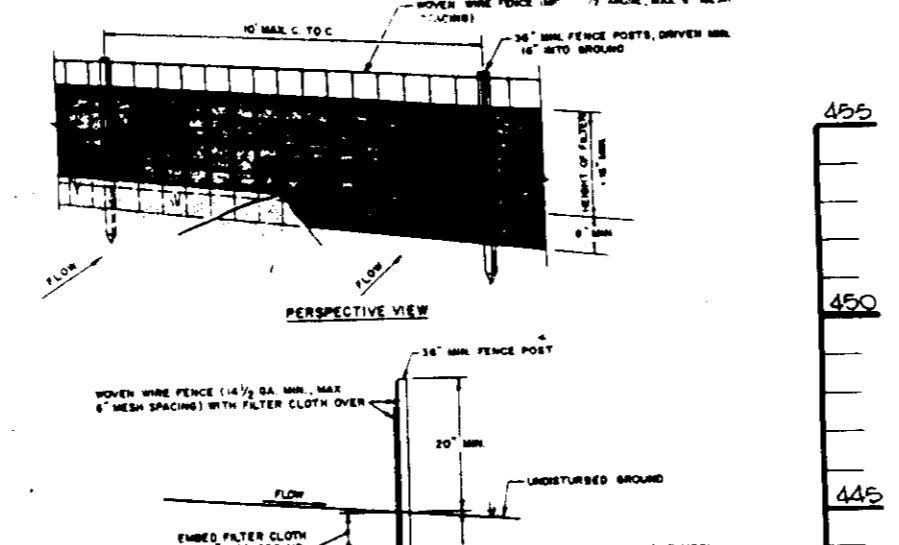
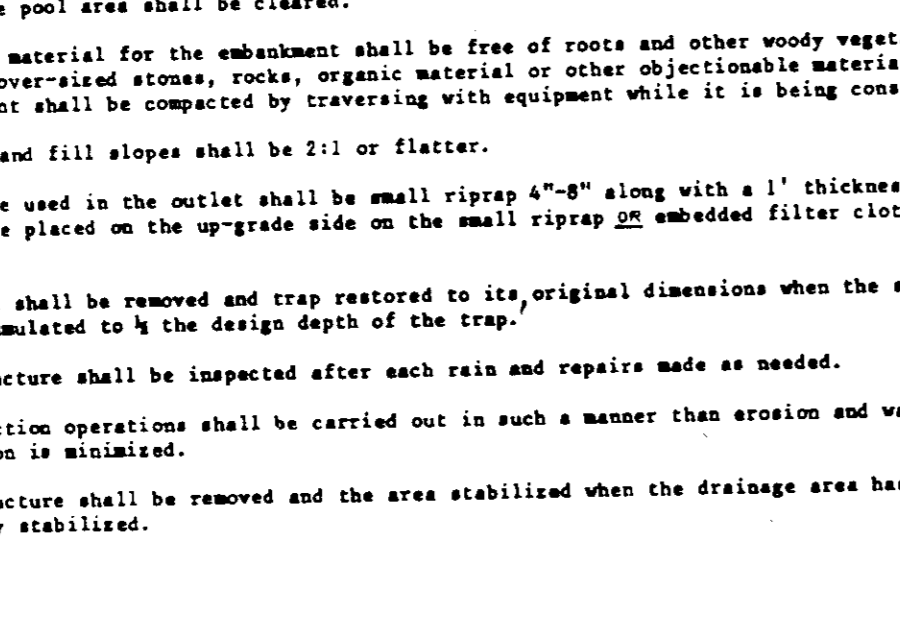
- Stone to be 2 inch stone, or recycled concrete equivalent, in a layer at least 3 inches in thickness and be placed into the dike with construction equipment.
- Rip-rap to be 4 inch stone, or recycled concrete equivalent, in a layer at least 3 inches in thickness and be placed into the dike with construction equipment.
- Approved equivalents can be substituted for any of the above materials.
- Periodic inspection and needed maintenance shall be provided after each rain event.

EARTH DIKE
NO SCALE



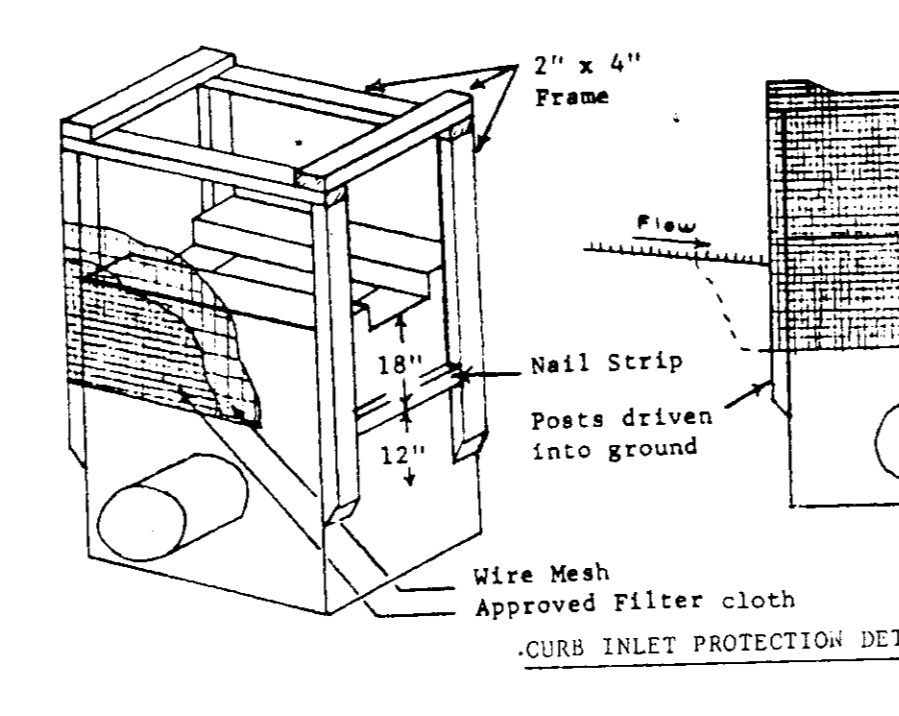
- OPTION: A one foot layer of 2" stone may be placed on the upstream side of the riprap in place of the embedded filter cloth.
- CONSTRUCTION SPECIFICATIONS FOR ST-V**
- Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
 - The fill material for the embankment shall be free of roots and other woody vegetation as well as over-sized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed.
 - All cut and fill slopes shall be 2:1 or flatter.
 - The stone used in the outlet shall be small riprap 4"-8" along with a 1" thickness of 2" aggregate placed on the up-grade side on the small riprap on embedded filter cloth in the riprap.
 - Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to 4" the design depth of the trap.
 - The structure shall be inspected after each rain and repairs made as needed.
 - Construction operations shall be carried out in such a manner that erosion and water pollution is minimized.
 - The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.

STONE OUTLET SEDIMENT TRAP
NO SCALE



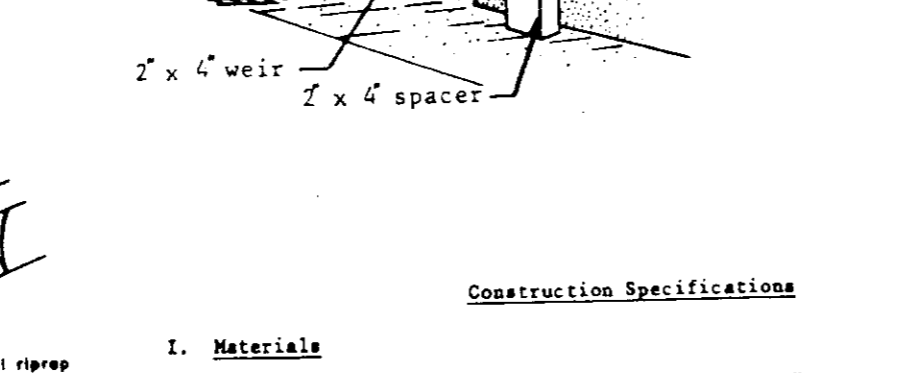
- CONSTRUCTION SPECIFICATIONS FOR SILT FENCE**
- Stone size - Use 1" stone, or reclaimed or recycled concrete equivalent.
 - Length - As required, but not less than 30 feet (except on a single residence lot where a 30 foot minimum length would apply).
 - Thickness - Not less than 6" (4" inches).
 - Width - Ten (10) foot minimum, but not less than the full width at points where lapses or splices occur.
 - Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter cloth will not be required on a single family residence lot.
 - Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable beam with 1 1/2" slope will be provided.
 - Maintenance - The entrance shall be maintained in a condition which will prevent tracking or floating of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanup of any measures used to trap sediment. All sediment applied, dropped, washed or tracked onto public rights-of-way must be removed immediately.
 - Washing - Washes shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
 - Periodic inspection and needed maintenance shall be provided after each rain.

SILT FENCE
NO SCALE

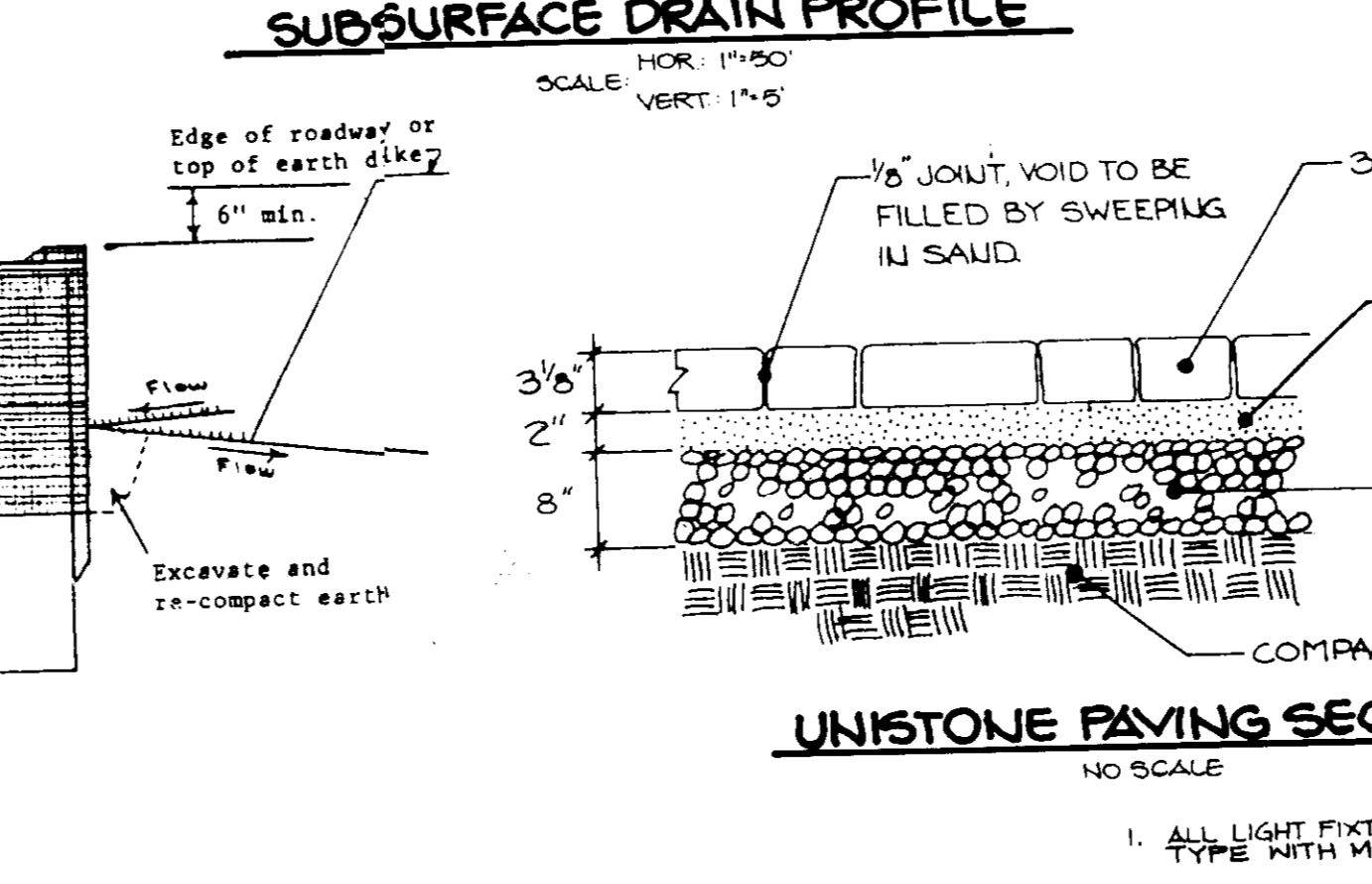
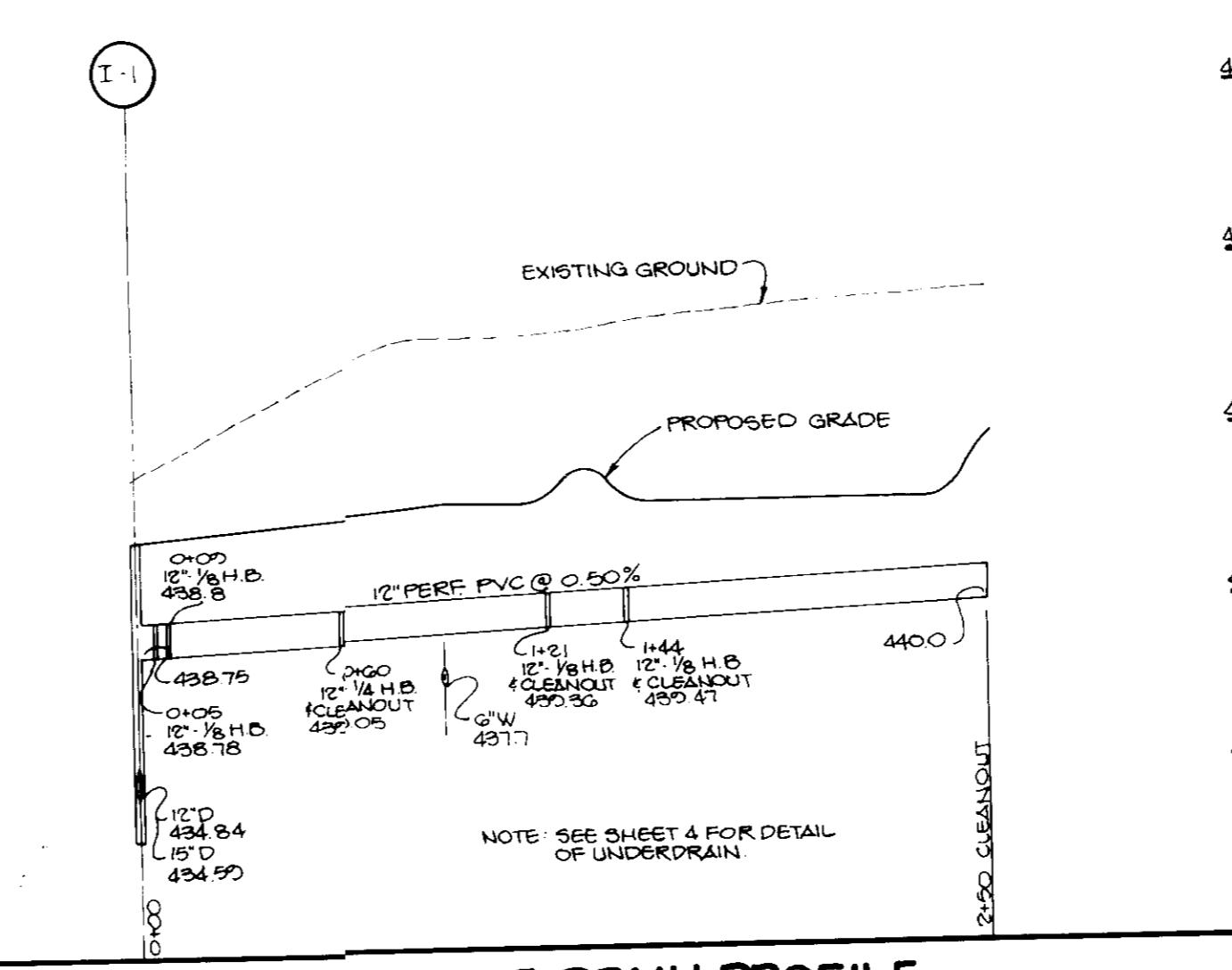


- Excavate and re-compact earth.
- Excavate and re-compact earth.
- Excavate and re-compact earth.

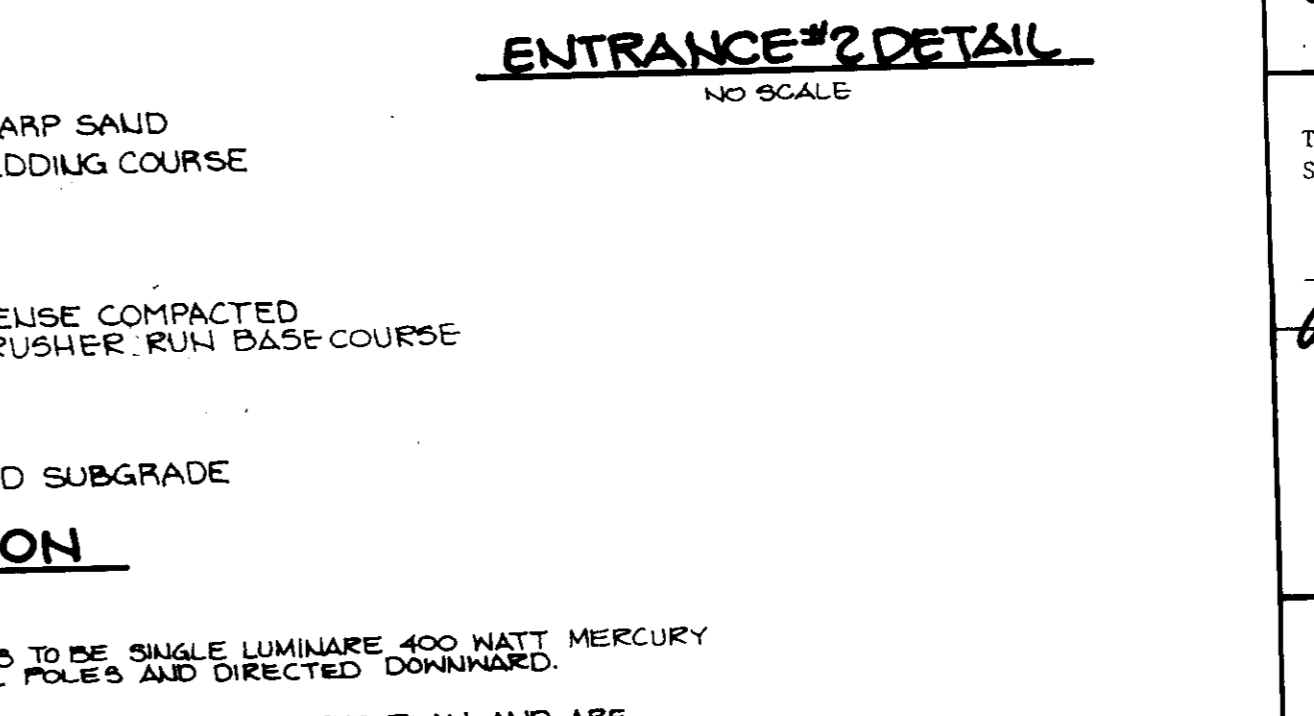
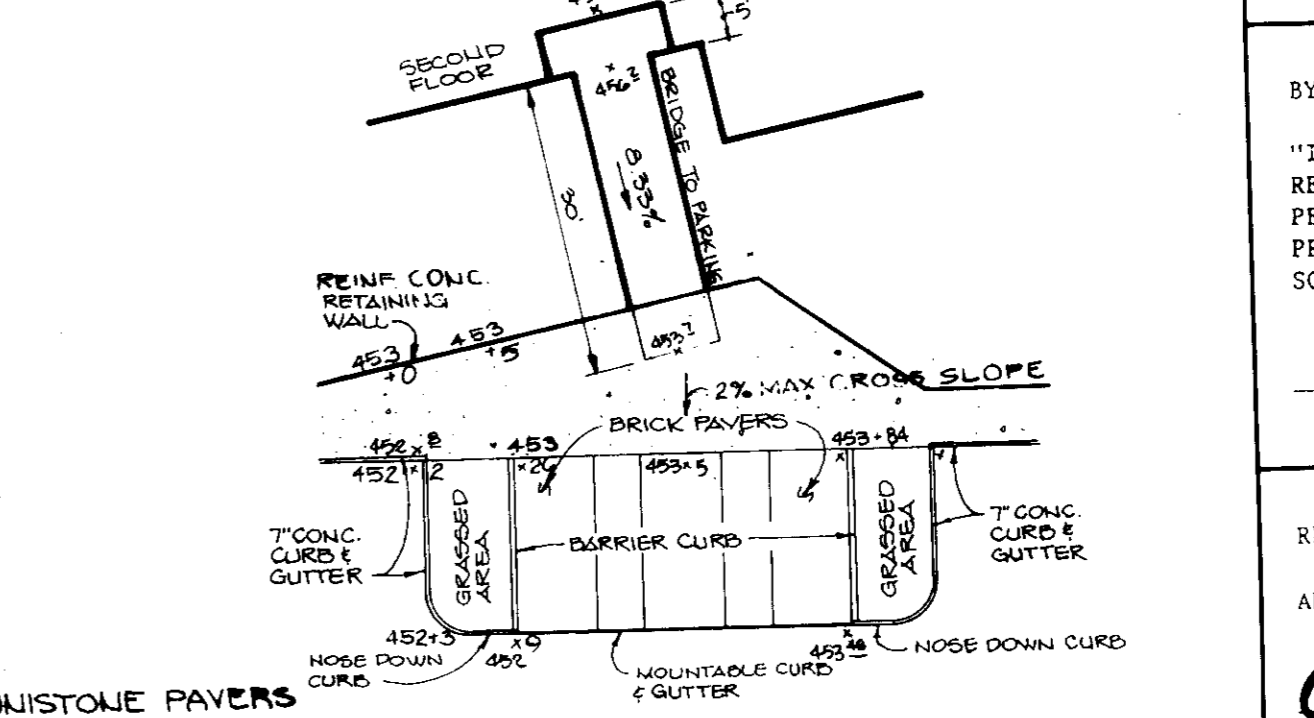
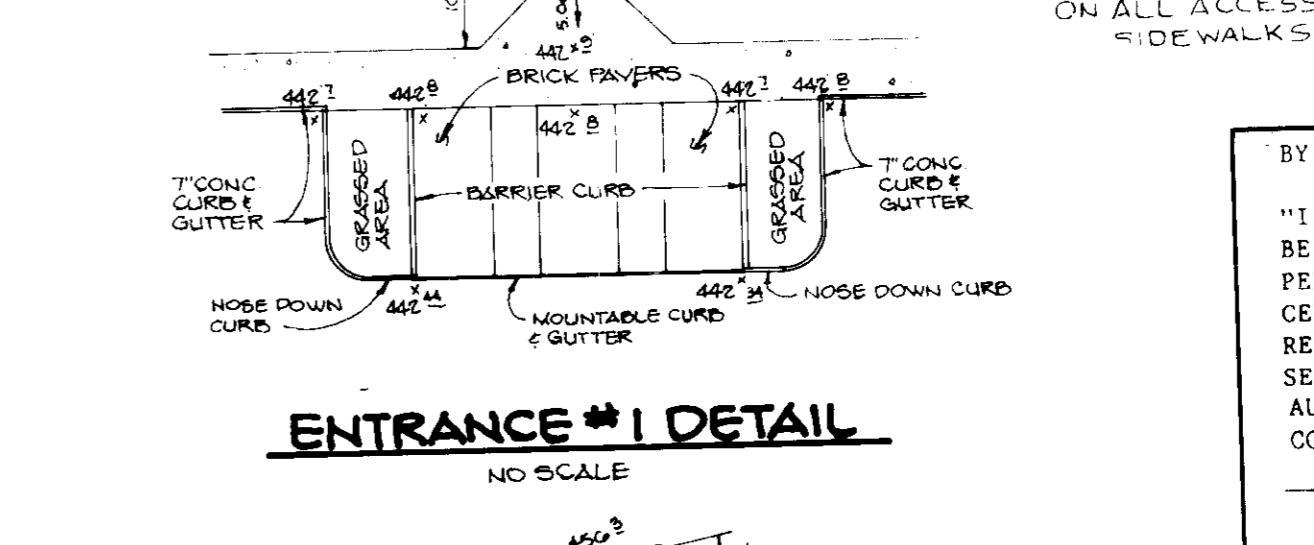
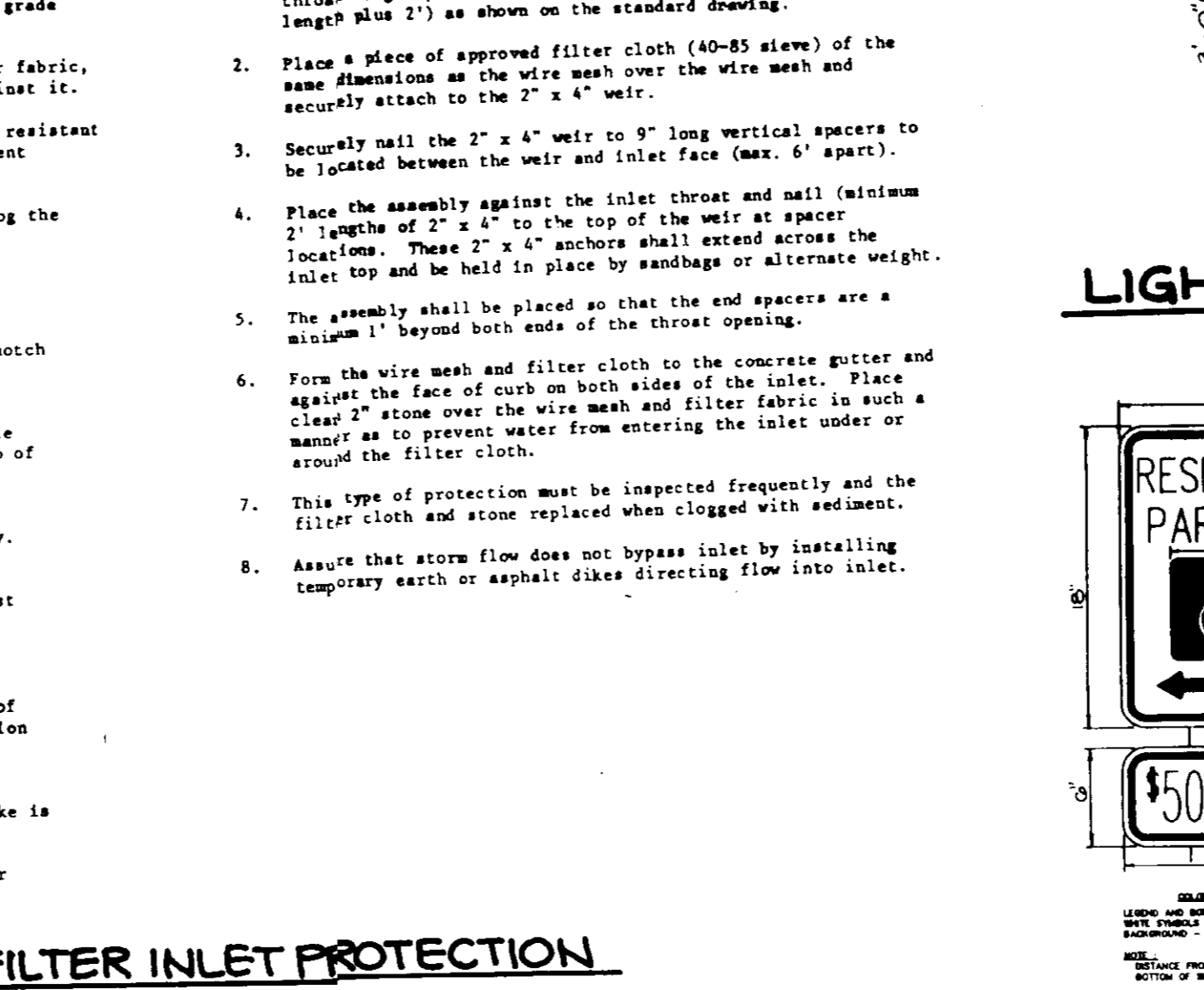
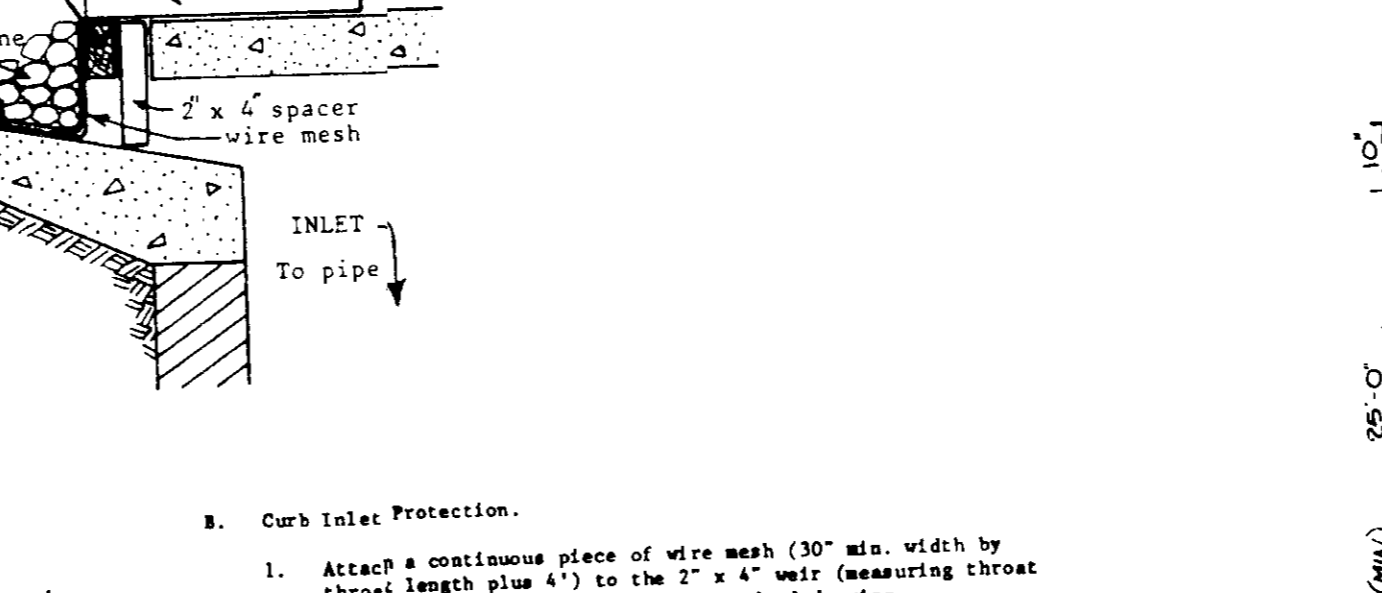
STONE FILTER INLET PROTECTION
NO SCALE



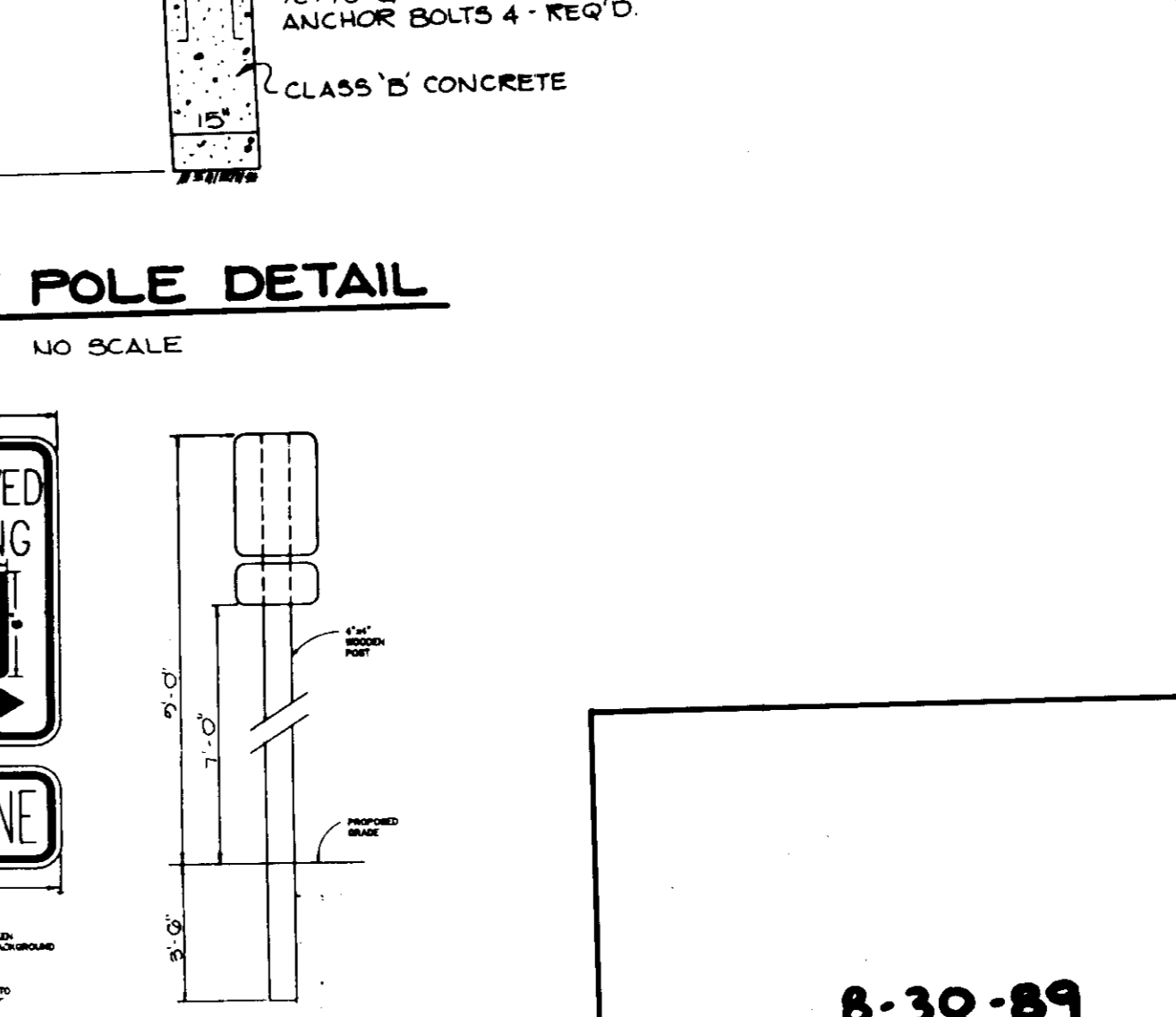
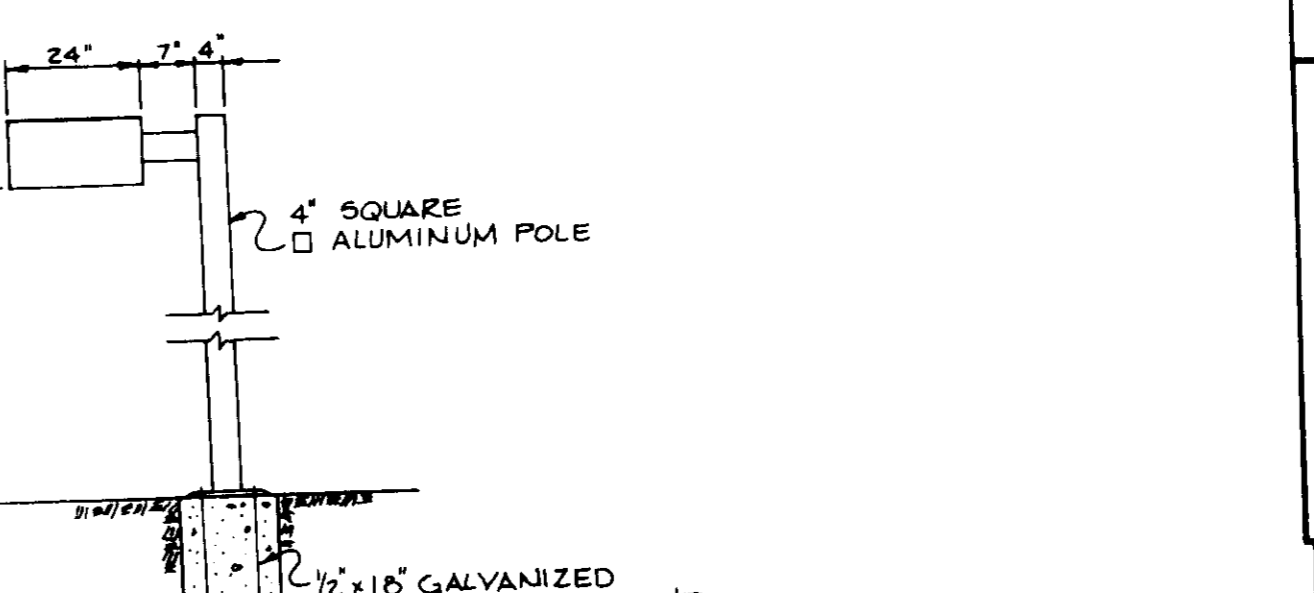
- Materials**
- Wooden frame is to be constructed of 2" x 4" construction grade lumber.
 - Wire mesh must be of sufficient strength to support filter fabric, and stone for curb inlets, with water fully impounded against it.
 - Filter cloth must be of a type approved for this purpose; resistant to sunlight with a minimum of 60% UV protection, to allow sufficient passage of water and removal of sediment.
 - Stone is to be 2" in size and clean, since fines would clog the cloth.
- Procedure**
- A swale, ditchline or yard inlet protection.
 - Excavate completely around inlet to a depth of 18" below notch elevation.
 - Drive 2 x 4 post 1' into ground at four corners of inlet. Place nail strips between posts on ends of inlet. Assemble top portion of 2 x 4 frame using overlap joint shown. Top of frame (weir) must be 6" below edge of roadway adjacent to inlet.
 - Stretch wire mesh tightly around frame and fasten securely. Ends must meet at post.
 - Stretch filter cloth tightly over wire mesh, the cloth must extend from top of frame to 18" below inlet notch elev. Fasten securely to frame. Ends must meet at post, be overlapped and folded, then fastened down.
 - Backfill around inlet in compacted 6" layers until layer of earth is even with notch elevation on ends and top elevation on sides.
 - If the inlet is not in a low point, construct a compacted earth dike in the ditchline below it. The top of this dike is to be at least 6" higher than the top of frame (weir).
 - This structure must be inspected frequently and the filter fabric replaced when clogged.



- ALL LIGHT FIXTURES TO BE SINGLE LUMINAIRE 400 WATT MERCURY TYPE WITH METAL POLLS AND DIRECTED DOWNWARD.
- LOCATIONS OF LIGHT FIXTURES ARE ON THE PLAN AND ARE SHOWN THIS WAY.
- LIGHTS TO BE MODULE II TYPE AS MANUFACTURED BY MOLDCAST OR APPROVED EQUAL.
- POLE AND FIXTURE TO HAVE BLACK POLYESTER ENAMEL FINISH.
- POLE TO BE LOCATED 3' BACK FROM BACK OF CURB.



- Attach a continuous piece of wire mesh (30" min. width by throat length plus 4") to the 2" x 4" weir (measuring throat length plus 2") as shown on the standard drawing.
- Place a piece of approved filter cloth (40-85 sieve) of the same dimensions as the wire mesh over the wire mesh and securely attach to the 2" x 4" weir.
- Securely nail the 2" x 4" weir to 9" long vertical spacers to be located between the weir and inlet face (max. 6" apart).
- Place the assembly against the inlet throat and nail (minimum 2" lengths of 2" x 4" anchors shall extend across the locations. These 2" x 4" anchors shall extend across the inlet top and be held in place by sandbags or alternate weight.
- The assembly shall be placed so that the end spacers are a minimum 1' beyond both ends of the throat opening.
- Form the wire mesh and filter cloth to the concrete gutter and against the face of curb on both sides of the inlet. Place clean 2" stone over the wire mesh and filter fabric in such a manner as to prevent water from entering the inlet under or around the filter cloth.
- This type of protection must be inspected frequently and the filter cloth and stone replaced when clogged with sediment.
- Assure that storm flow does not bypass inlet by installing temporary earth or asphalt dikes directing flow into inlet.



BY THE DEVELOPER:
 I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES 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."
 Signature: _____ DATE: _____

BY THE ENGINEER:
 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: Arthur E. Muegge DATE: 9-13-89
 ENGINEER

REVIEWED FOR HOWARD S.C.D. NAME: _____ DATE: 9/21/89
 AND MEETS TECHNICAL REQUIREMENTS
 Signature: _____ DATE: 9/21/89
 SOIL CONSERVATION SERVICE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 Signature: John R. Rhett DATE: 9/21/89
 HOWARD S.C.D.

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
 Signature: _____ DATE: 10-11-89
 COUNTY HEALTH OFFICER

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING.
 Signature: _____ DATE: 10-22-89
 DIRECTOR

APPROVED: CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT.
 Signature: _____ DATE: 11/1/89
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.
 Signature: _____ DATE: 9-29-89
 DIRECTOR

Signature: _____ DATE: 9-29-89
 CHIEF, BUREAU OF ENGINEERING

DATE	NO	REVISION

OWNER / DEVELOPER
 PARCEL ASSOCIATES
 10320 LITTLE PATUXENT PARKWAY
 COLUMBIA, MARYLAND 21046

PROJECT: COLUMBIA 100 OFFICE RESEARCH PARK
 PARCEL N
 SECTION 1, AREA 2
 A TWO STORY OFFICE BUILDING

AREA TAX MAP 50 ZONED FOR PLAT NO 7875
 COLUMBIA 100 OFFICE RESEARCH PARK SEC 1, AREA 2, PARCEL N
 2ND ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

TITLE
 SEDIMENT CONTROL NOTES AND DETAILS

RIEMER MUEGGE & ASSOCIATES, INC.
 A Land Planning, Engineering and Consulting Firm
 3105 North Ridge Road Ellicott City, Maryland 21043
 301-461-2690 FAX: 301-750-3176

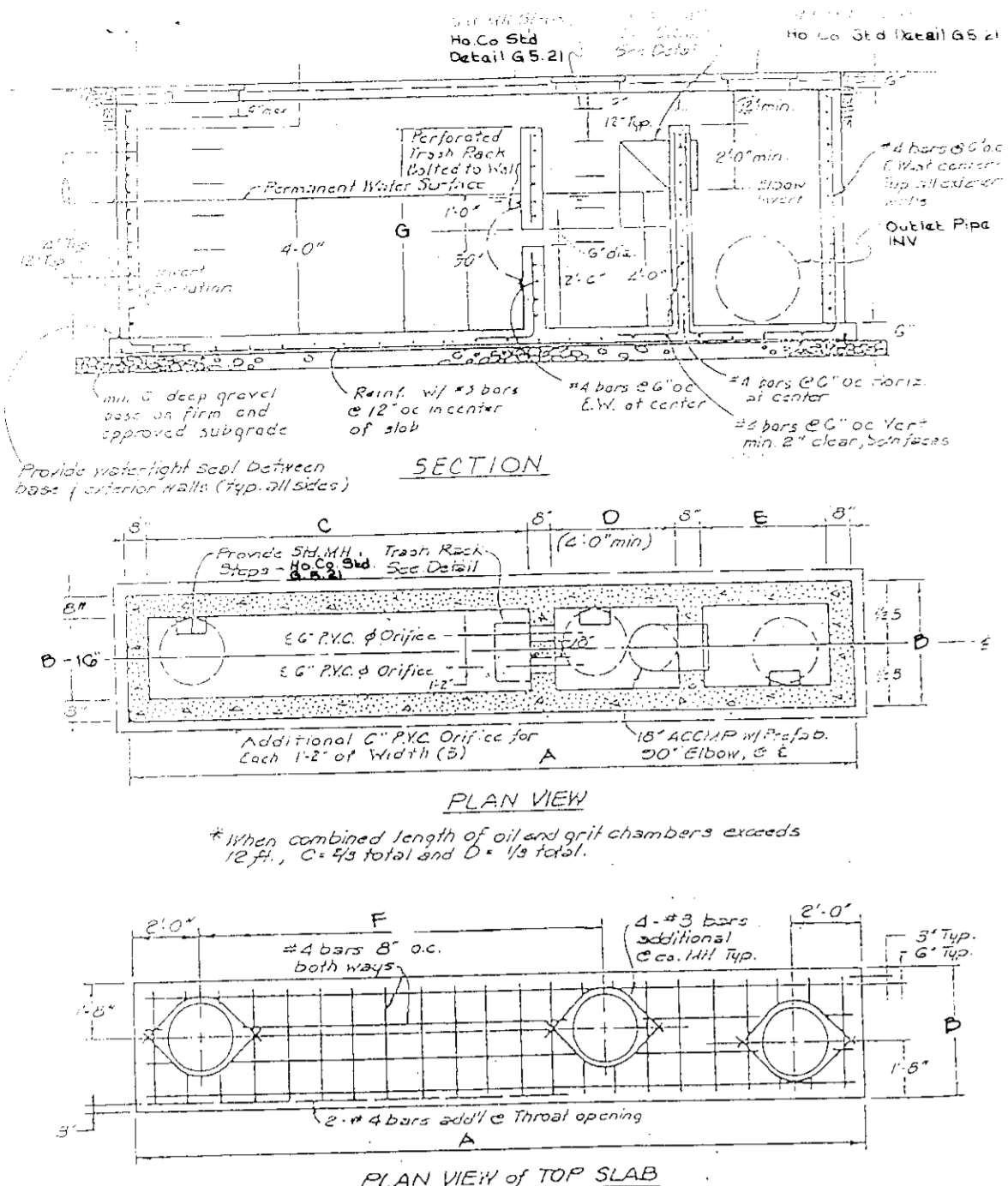
DATE: 7-15-89

DESIGNED BY W.C.W.
 DRAWN BY W.A.D.
 PROJECT NO 50902
 DATE MAY 18, 1989
 SCALE AS SHOWN
 DRAWING NO 4 OF

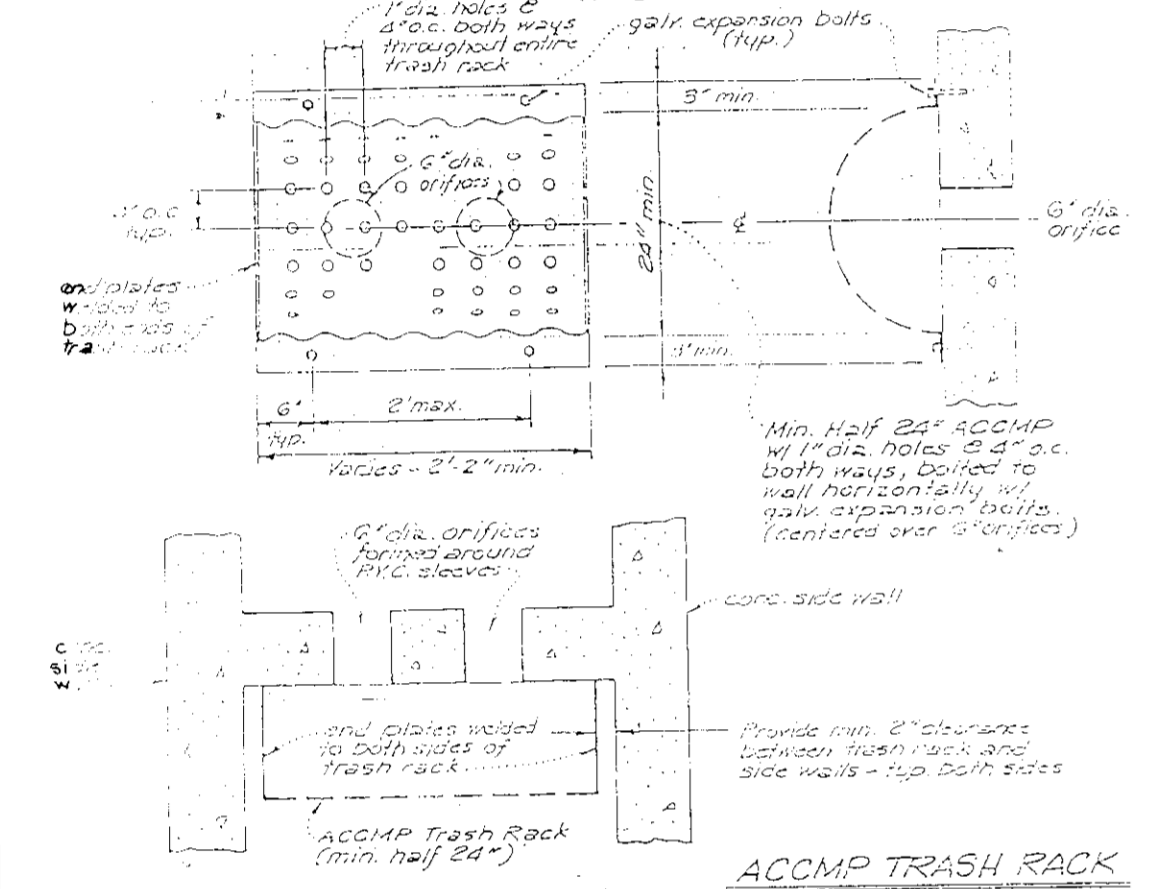
8-30-89

Signature: Arthur E. Muegge #8100

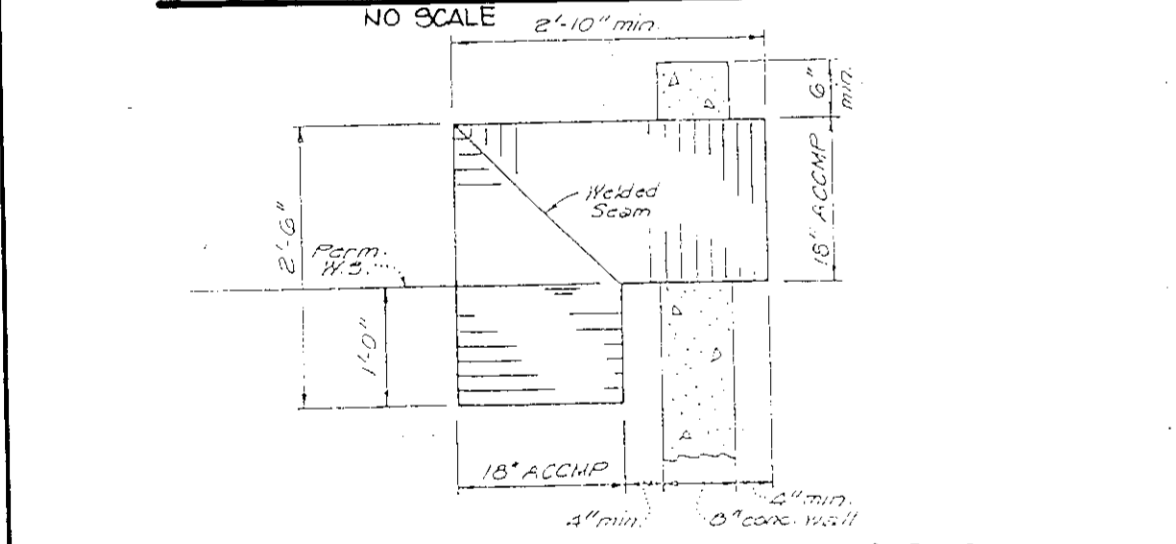
SOP-89-230



WATER QUALITY CONTROL STRUCTURE S-1+S-2



ACCMP TRASH RACK S-1+S-2



90°-ACCMP ELBOW S-1+S-2

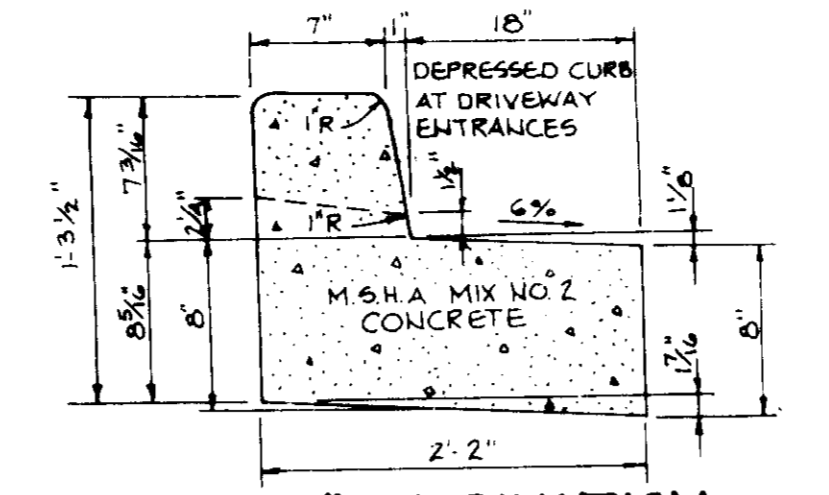
STRUCTURE NO.	DIMENSIONS							FLOOR SLAB ELEV.	18" ACCMP ELBOW INV.	OUTLET PIPE INV.
	A	B	C	D	E	F	G			
S-1	14.17	7.98	3.50	4.00	4.00	4.17	491.1	435.1	431.1	
S-2	14.17	7.98	3.50	4.00	4.00	4.17	430.08	440.08	430.08	

- DESIGN AND GENERAL NOTES:**
- Use poured-in-place concrete for the entire structure.
 - Refer to Maryland State Highway Administration for materials and methods of construction.
 - Reinforcing steel shall be as follows:
 - Minimum 8 inches thick for the first 4'-0" of depth, 12 inch thick walls between 4'-0" and 12'-0" of depth and 16 inch thick walls for depth greater than 12'-0". Depth to be measured from top of top slab to crown of outgoing pipe.
 - f'c = 3,500 psi at 28 days.
 - All reinforcing steel to be ASTM A615, GR.60.
 - For details concerning throat openings, refer to Howard County Standard Detail SD.4.01.
 - For details not noted in this standard, refer to Howard County Standard Detail SD.4.01.
 - The top 4 inches of walls may be brick masonry for leveling, if required. Brick masonry shall comply with the latest SMA specification.
 - When grate opening is used, refer to the appropriate SMA Standard for details. Details shall be shown on the plans.
 - When inside width of structure is greater than 4'-0", reinforcing shall be revised as needed.
 - When structure is subject to traffic loading, reinforcing shall be designed for the appropriate traffic loads. Design loads shall be indicated on the plans.
 - All inlets and manholes shall be checked for possible backflow or tailwater problems.

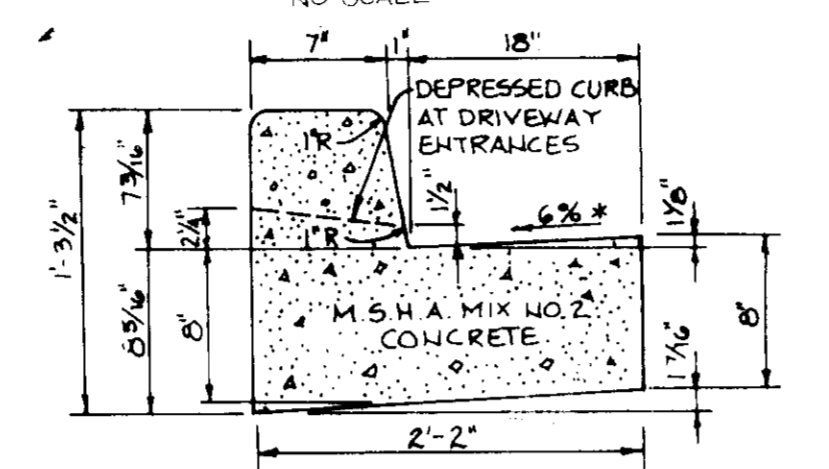
- CONSTRUCTION NOTES:**
- Soil and debris shall not be allowed to enter the structure. Contributing drainage areas have been permanently stabilized.
 - All openings to structures shall be protected with the appropriate sediment control measures during construction.

- INSPECTION NOTES:**
- Prior to start of construction on water quality structure, the Howard County Department of Public Works Inspector must be called 48 hours in advance at 752-2630.
 - The Howard County Department of Public Works Inspector must be notified (752-2630) at each of the following stages:
 - Approval of subgrade for footings.
 - Forming and steel set prior to pouring.
 - Structure sides formed and steel set prior to pouring.
 - Prior to top slab and manholes being set, Howard County Department of Public Works Inspector must check structures and all debris and silt in structure removed.
 - When site is permanently stabilized and sediment control measures to protect inlet are to be removed.

- MAINTENANCE NOTES (WATER QUALITY STRUCTURE WASTE):**
- Water Quality Structures will require periodical cleaning. Owners of these facilities will have to clean them as needed or on a frequency that the County determines is appropriate. Owners of water quality structures will be notified by the County of the frequency of maintenance.
 - Maintenance of these facilities will consist of cleaning out the separator and disposal of the waste and the repair of the facility as needed. Periodic inspections of these facilities will be made by the County Stormwater Management Group.
 - The disposal of the liquid and solid matter should be as follows:
 - All liquid material in the separator inlet shall be pumped into a suitable tank truck and disposed of at an approved sanitary district discharge manhole or be taken to an approved sewage treatment plant for discharge.
 - The solid material shall be landfilled in an approved sanitary landfill.
 - The inlet pipes, trash racks, grates, and structural parts shall be repaired as needed.

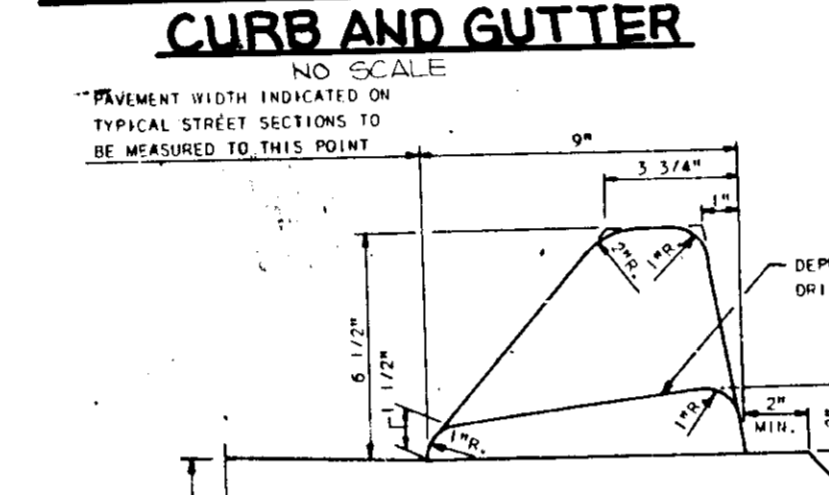


REVERSE 7" COMBINATION CURB AND GUTTER

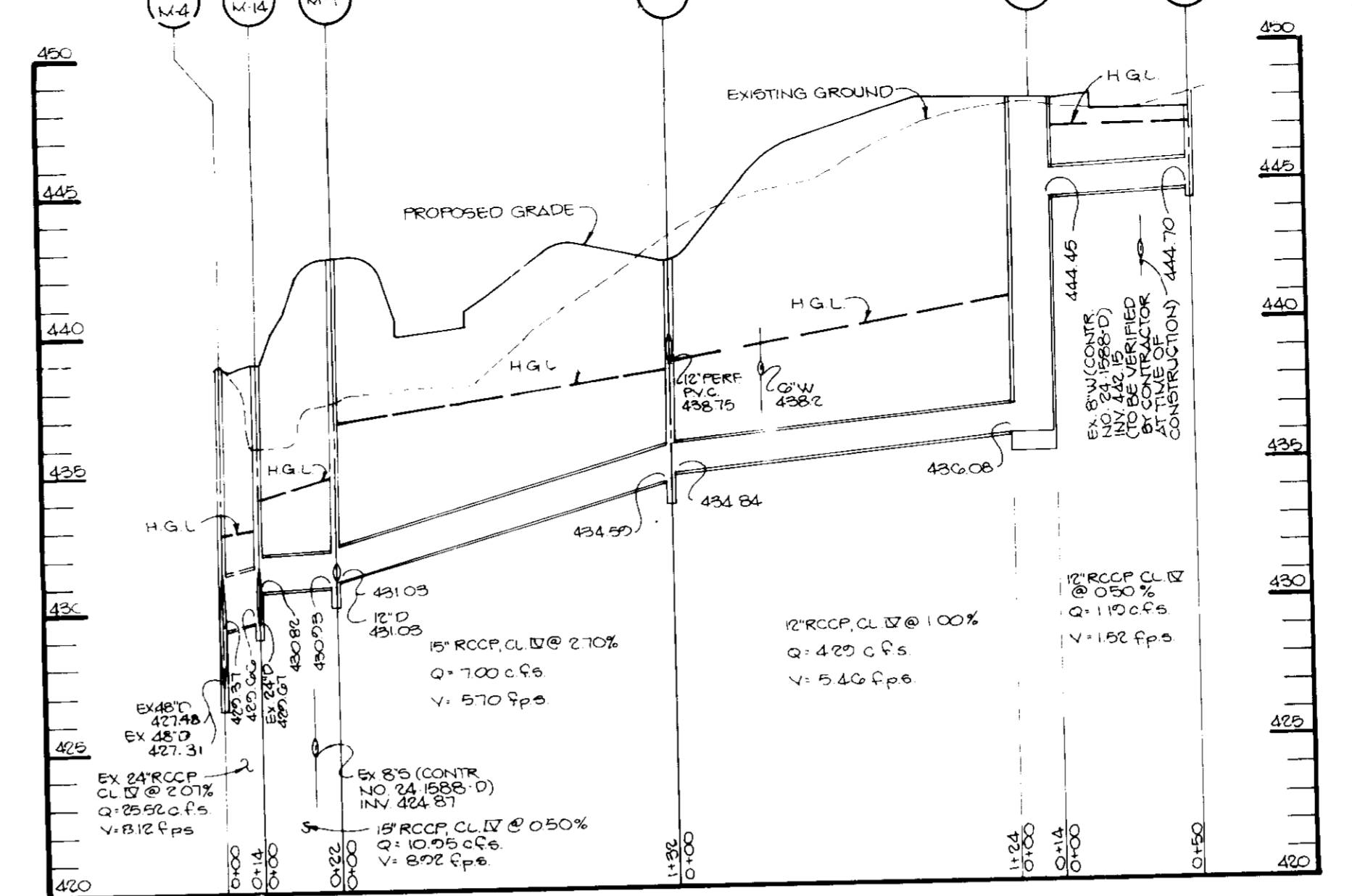
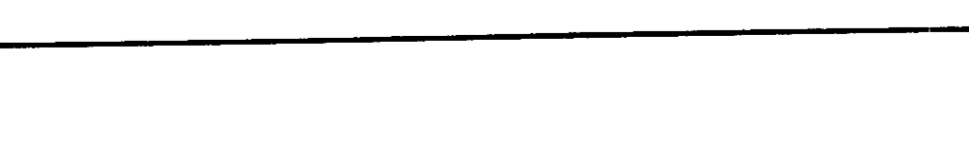
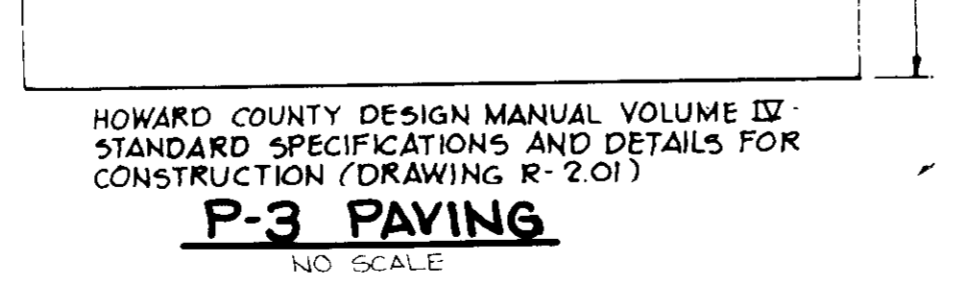
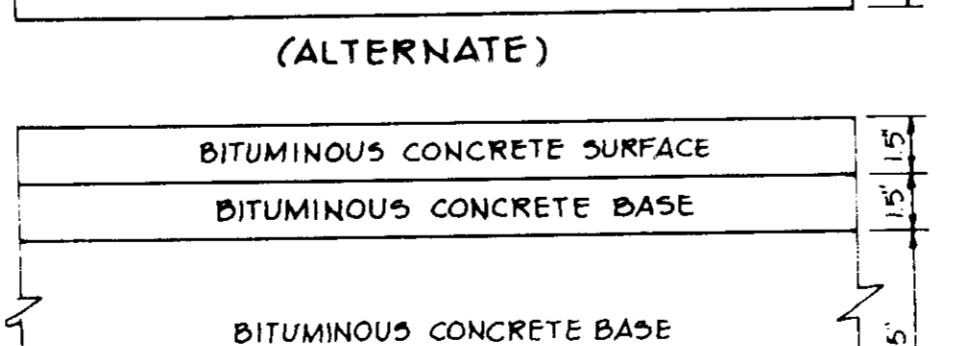
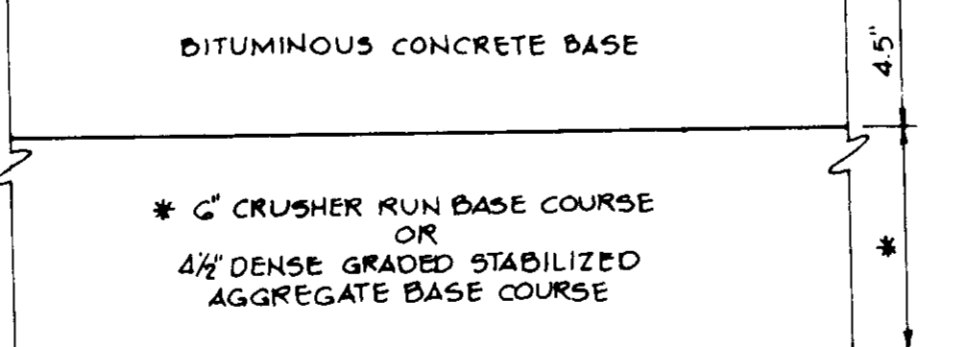
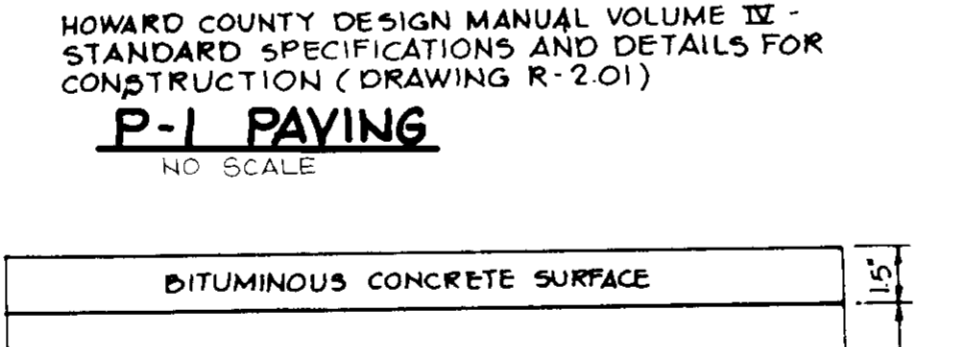
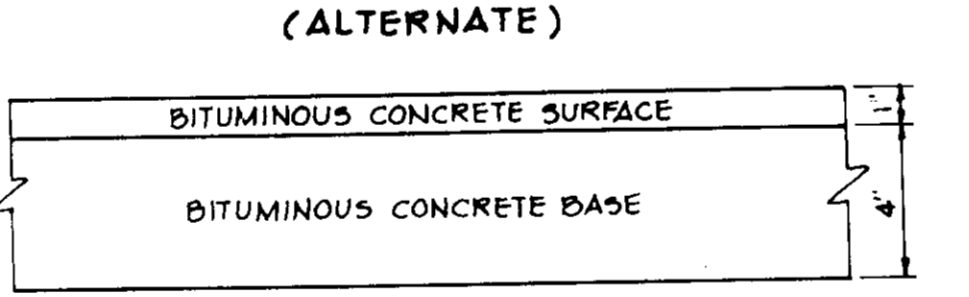
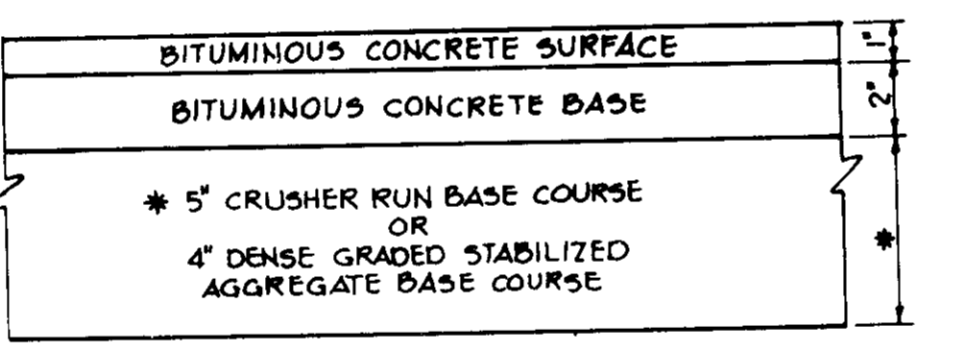


STANDARD 7" COMBINATION CURB AND GUTTER

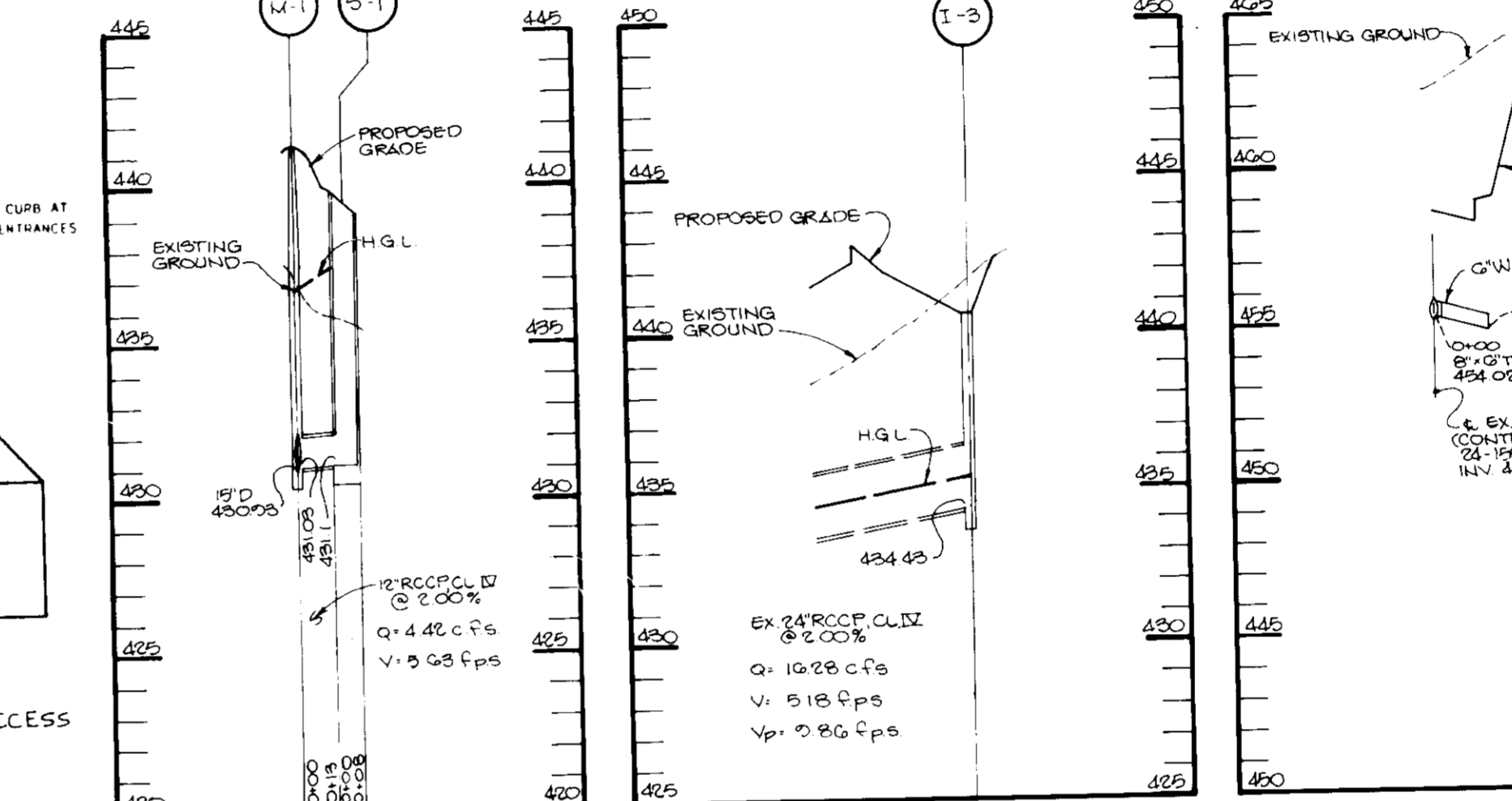
BITUMINOUS CURB



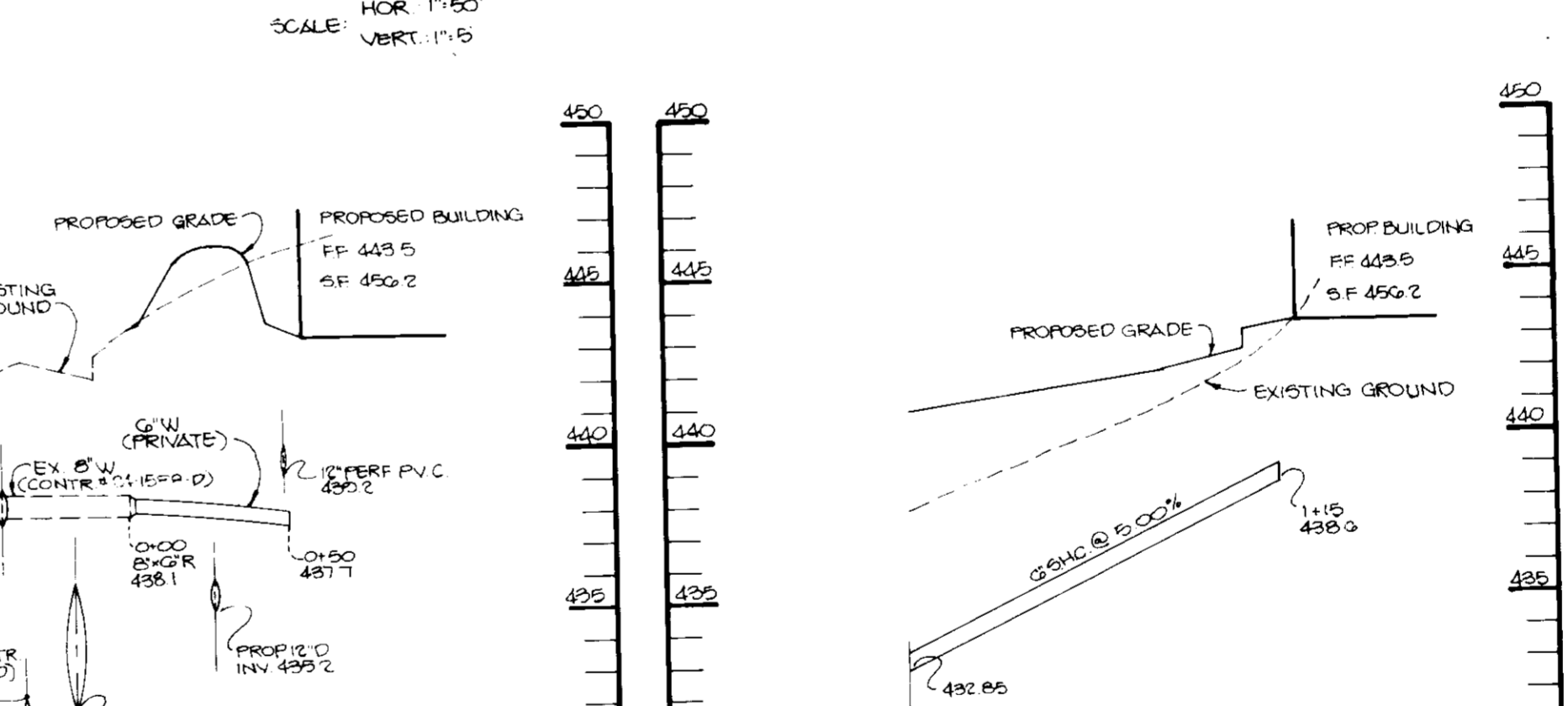
BITUMINOUS CURB



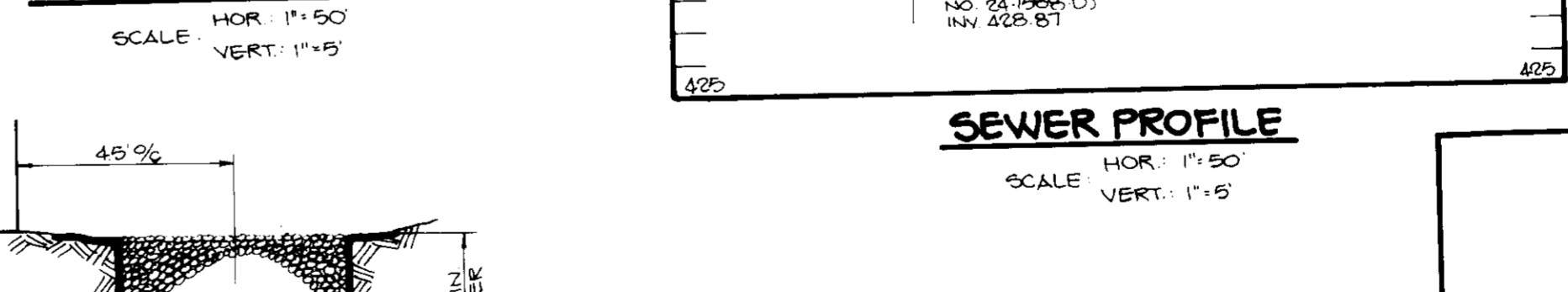
STORM DRAIN PROFILE



STORM DRAIN PROFILE



WATER PROFILE



SEWER PROFILE

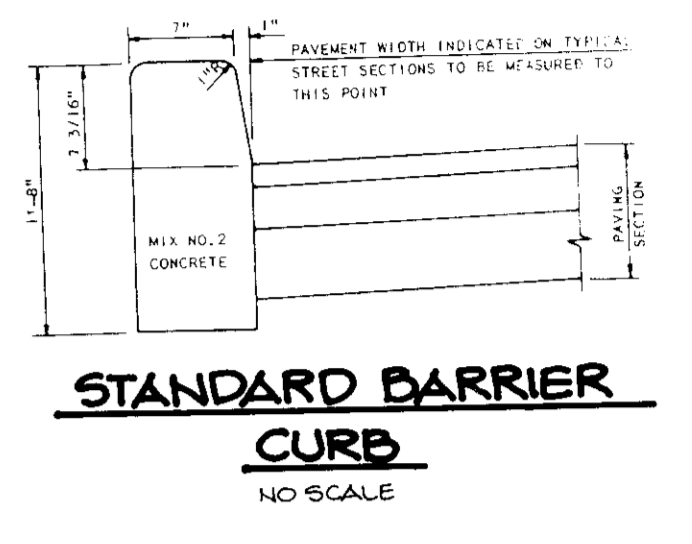


DETAIL OF UNDERDRAIN

STRUCTURE SCHEDULE

NO.	TYPE	T. S. ELEV.	INV. IN	INV. OUT	REMARKS
I-1	YARD INLET A-5	442.2	434.84	434.59	HO. CO. STD. DTL. SD 4.14
I-2	"K" TYPE	448.28	---	444.70	HO. CO. STD. DTL. SD 4.11
I-3	STAND. 4' MANHOLE	440.0*	---	434.43	HO. CO. STD. DTL. SD 4.12
M-1	WATER QUALITY STRUCTURE	438.58	---	431.10	SEE DETAIL
S-2	WATER QUALITY STRUCTURE	448.58	444.45	436.08	SEE DETAIL

* TOP OF GRATE OR LID



STANDARD BARRIER CURB

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.

James J. ... 10-11-89
 COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING.

U. ... 10.23.89
 DIRECTOR DATE

James J. ... 10/23/89
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

James J. ... 9.29.89
 DIRECTOR DATE

James J. ... 9.29.89
 CHIEF, BUREAU OF ENGINEERING DATE

DATE	NO.	REVISION

OWNER/DEVELOPER
 PARCEL N
 10320 LITTLE PATRIOT PARKWAY
 COLUMBIA, MARYLAND 21045

PROJECT COLUMBIA 100 OFFICE RESEARCH PARK
 PARCEL N
 SECTION 1, AREA 2
 A TWO-STORY OFFICE BUILDING

AREA TAX MAP 30 DIVISION FOR
 COLUMBIA 100 OFFICE RESEARCH PARK (S.E. 1/4) (S. 1/4) (S. 1/4)
 2ND FLOOR PLAN DISTRICT 1, HOWARD COUNTY, MARYLAND

TITLE
 PROFILES AND DETAILS

RIEMER MUEGGE & ASSOCIATES, INC.
 A Land Planning, Engineering and Consulting Firm
 3105 North Ridge Road, Ellicott City, Maryland 21043
 301-461-2690 FAX: 301-750-3176

9.13.89
 DATE

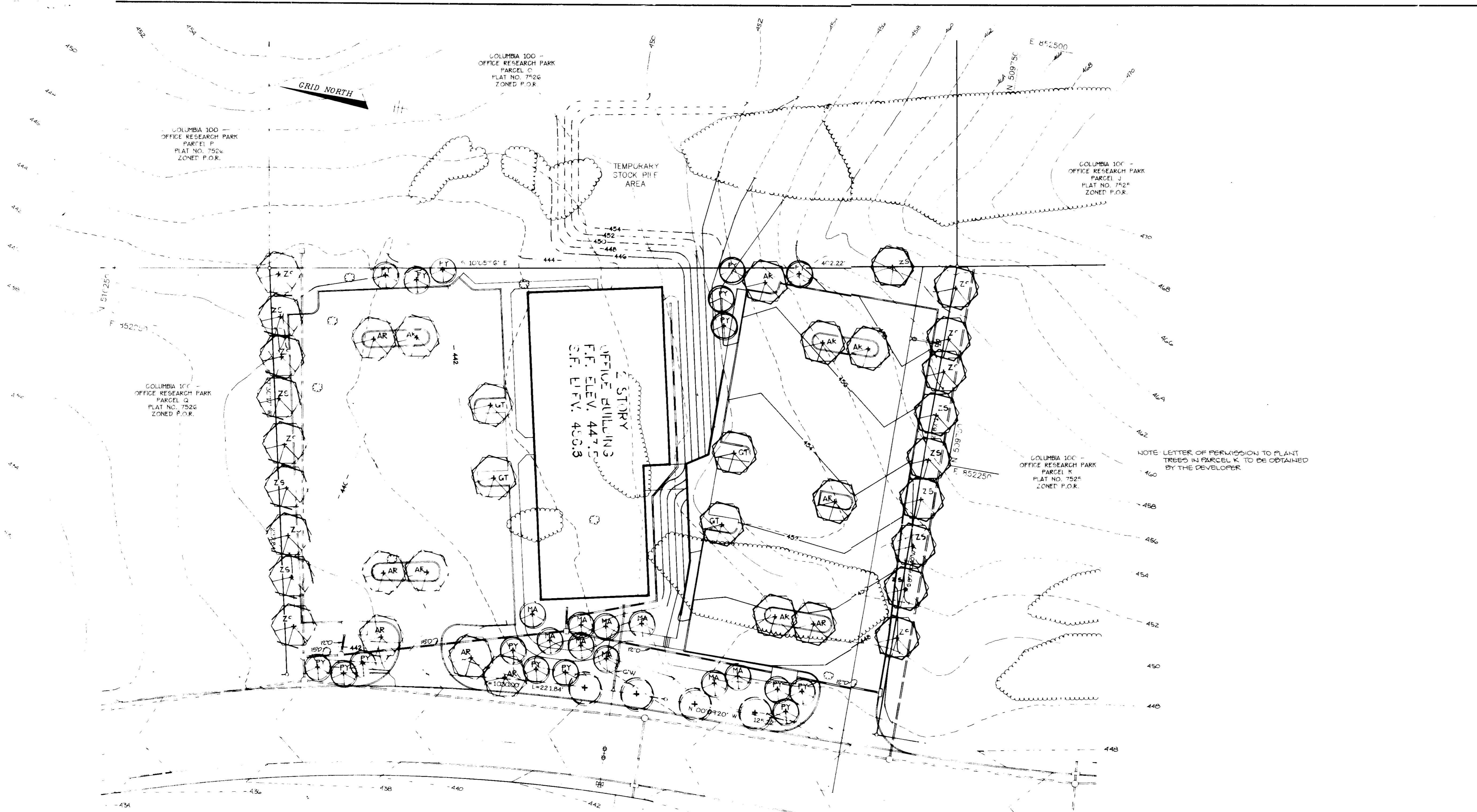
DESIGNED BY
 DRAWN BY

PROJECT NO.
 DATE MAY 18, 1989

SCALE AS SHOWN
 DRAWING NO. 5 OF 5

ARTHUR E. MUEGGE

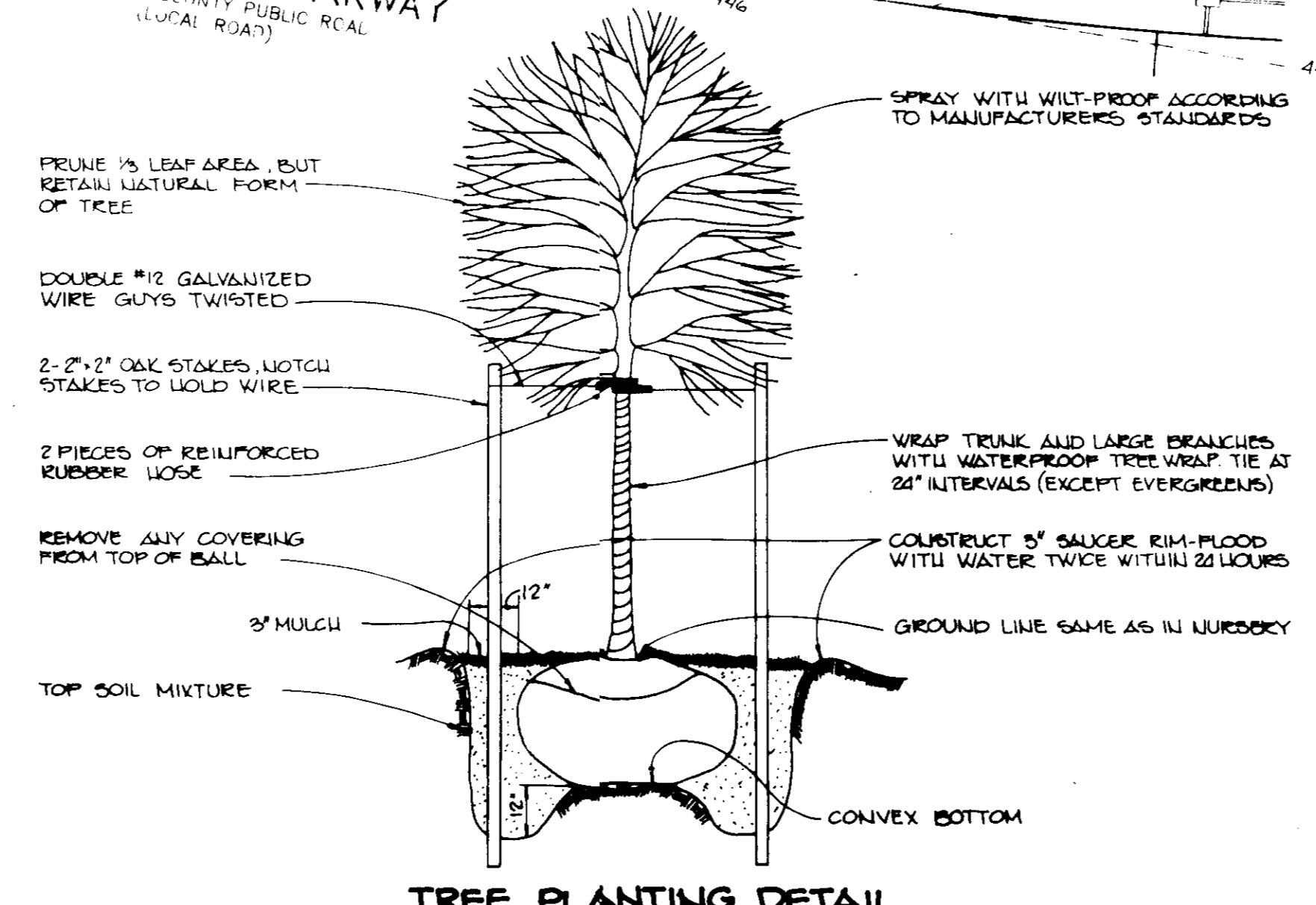
5DP-89-230



PLAN
SCALE: 1/8" = 1'-0"

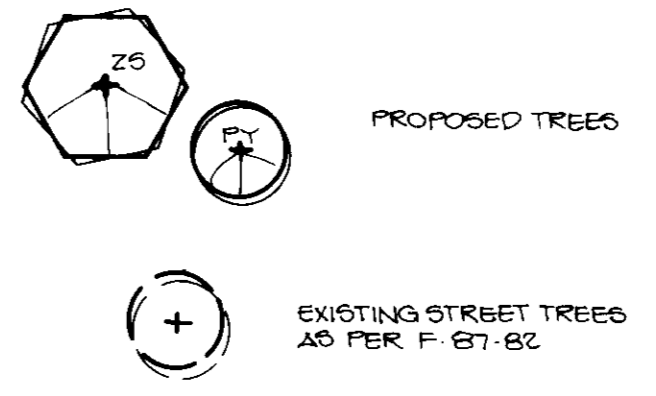
PLANT LIST

QUANTITY	KEY	NAME	SIZE
14	AR	ACER RUBRUM 'OCTOBER GLORY'	2-1/2" - 3" GAL FULL CROWN BTR
4	GT	QUERCUS TRIACANTHOS 'AR. NERMIS 'MORANE' MORANE THORNLESS COMMON HONEY LOCUST	2-1/2" - 3" GAL FULL CROWN BTR
1	MA	MAIUS FLORIBUNDA JAPANESE FLOWERING CRABAPPLE	1-1/2" GAL BTR
16	PY	FRAXINUS YELLOENSIS YOSHINO CHEEKY	1-1/2" GAL BTR
20	TC	ZEIKOKIA SERATA JAPANESE ZEIKOKIA	2-1/2" - 3" GAL FULL CROWN BTR



TREE PLANTING DETAIL
NO SCALE

LEGEND



APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
Jay L. Boylan 10-11-89
 COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING.
W. J. ... 10-22-89
 DIRECTOR DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
James P. ... 9-29-89
 DIRECTOR DATE

W. ... 9-29-89
 CHIEF, BUREAU OF ENGINEERING DATE

DATE	NO.	REVISION

OWNER - DEVELOPER
 PARCEL N ASSOCIATES
 10320 LITTLE PATIENCE RD
 COLUMBIA, MARYLAND 21046

PROJECT: COLUMBIA 100 OFFICE RESEARCH PARK
 PARCEL N
 SECTION 1, AREA 2
 A TWO STORY OFFICE BUILDING

AREA TAX MAP KEY: ZONED FOR
 COLUMBIA 100 OFFICE RESEARCH PARK
 8th ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

TITLE: LANDSCAPE PLAN

RIEMER MUEGGE & ASSOCIATES, INC.
 A Land Planning, Engineering and Consulting Firm
 3105 North Ridge Road, Ellicott City, Maryland 21043
 301-461-2690 FAX: 301-750-3176

September 13, 1989
 DATE

DESIGNED BY: MEM
 DRAWN BY: CAC
 PROJECT NO: 89008
 DATE: MAY 18, 1988
 SCALE: AS SHOWN
 DRAWING NO: 1 OF 2

Michael G. Remer #201

8-30-89