

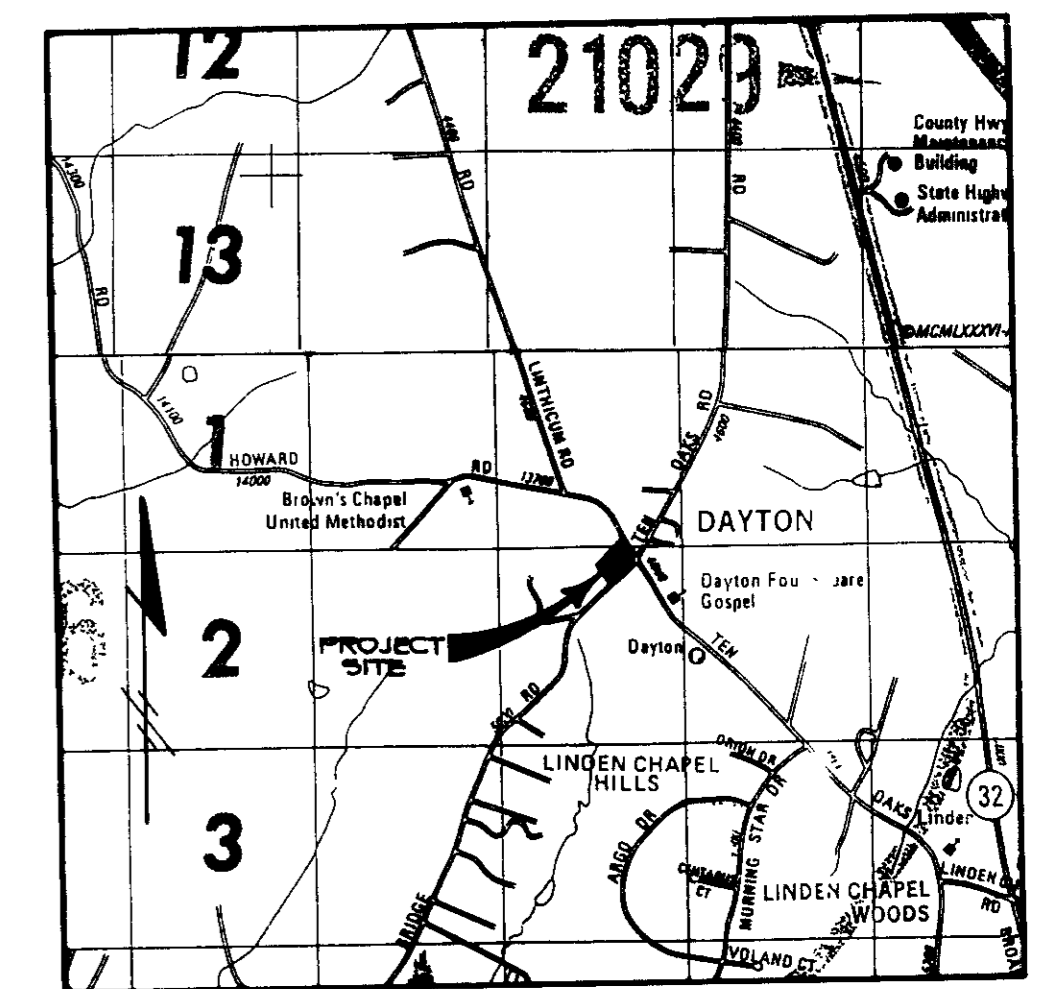
SHEET INDEX	
NO.	DESCRIPTION
1	TITLE SHEET
2	SITE DEVELOPMENT PLAN
3	DRAINAGE AREA MAP
4	PROFILES AND DETAILS
5	SEDIMENT CONTROL PLAN, NOTES AND DETAILS
6	PLANTING PLAN

SITE DEVELOPMENT PLAN

R.L.O. SERVICE CENTER

5TH ELECTION DISTRICT

HOWARD COUNTY, MARYLAND

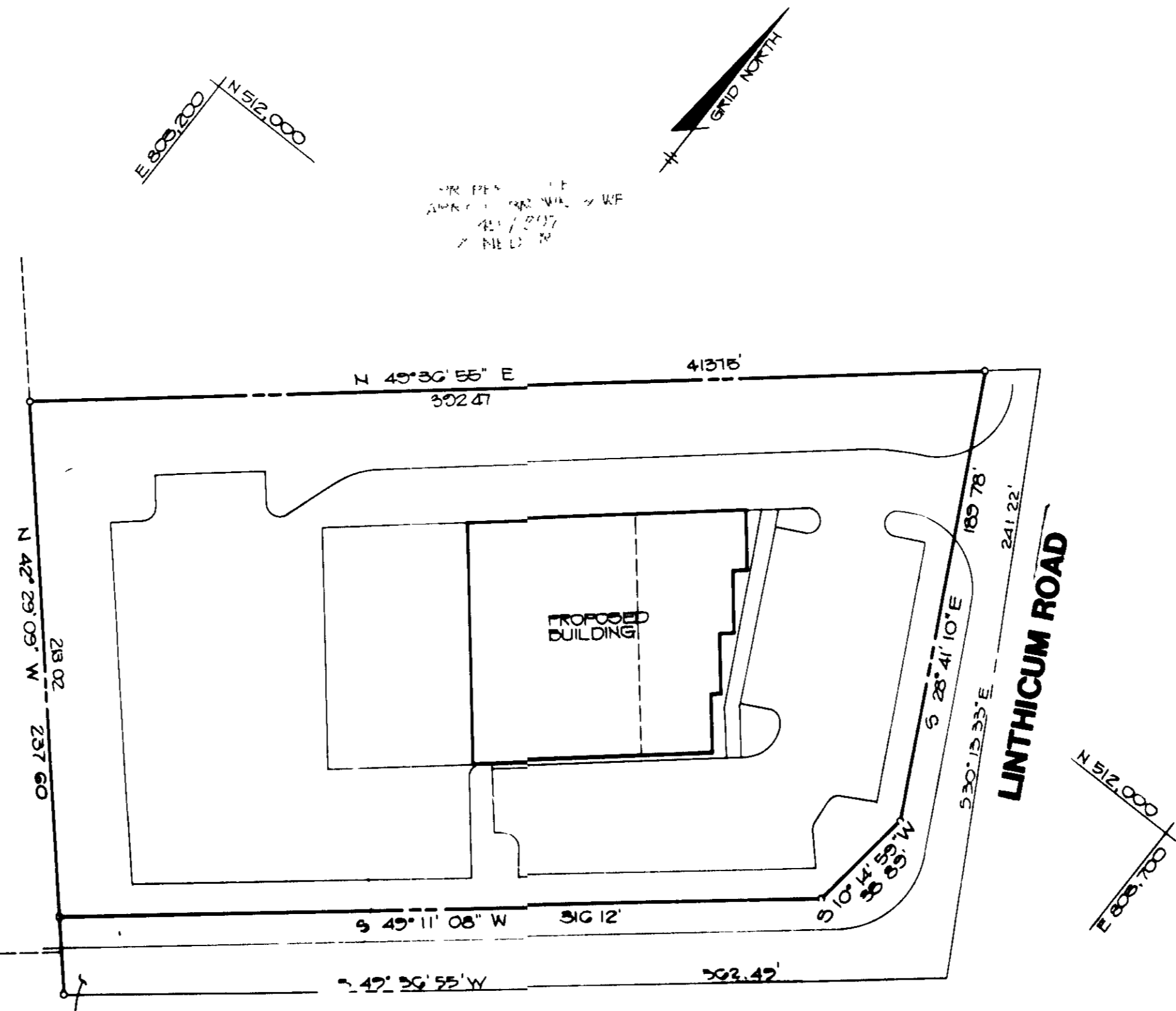


VICINITY MAP
SCALE 1" = 2000'

GENERAL NOTES

- 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 AND/OR ELEVATION OF UTILITIES ARE OTHER THAN SHOWN.
- CONTRACTOR TO NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS:

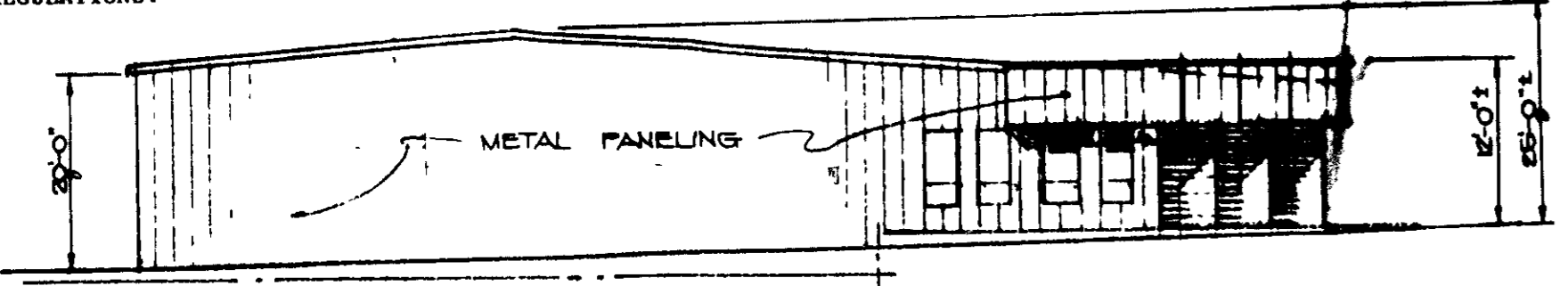
MISS UTILITY	1-800-257-7777
CAP TELEPHONE COMPANY	725-9976
HOWARD COUNTY BUREAU OF UTILITIES	992-2366
AT&T CABLE LOCATION DIVISION	393-3553
BALTIMORE GAS & ELECTRIC COMPANY	685-0123
STATE HIGHWAY ADMINISTRATION	531-5533
HOWARD COUNTY CONSTRUCTION/INSPECTION SURVEY DIVISION (24 HOURS NOTICE PRIOR TO COMMENCEMENT OF WORK)	792-7272
- ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- 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 SUBGRADE.
- TOPO TAKEN FROM FIELD RUN SURVEY DATED MAY 1985 BY THE RIEMER GROUP, INC.
- ALL PLAN DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED. ALL BUILDING DIMENSIONS ARE FROM OUTSIDE TO OUTSIDE OF THE WALLS.
- ALL STORM DRAIN PIPE BEDDING SHALL BE AS SHOWN IN DETAIL 02.01 (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.
- HOWARD COUNTY HEALTH DEPARTMENT TO DETERMINE LENGTH AND DEPTH OF FIELDS BY REGULATIONS.
- THE DEVELOPER IS RESPONSIBLE FOR THE PERIODIC CLEANING AND MAINTENANCE OF THE STORMWATER MANAGEMENT FACILITIES.
- STORAGE OF COMMERCIAL VEHICLES AND EQUIPMENT IS NOT PERMITTED ON THIS SITE IN ACCORDANCE WITH SECTION 116 OF THE HOWARD COUNTY ZONING REGULATIONS.



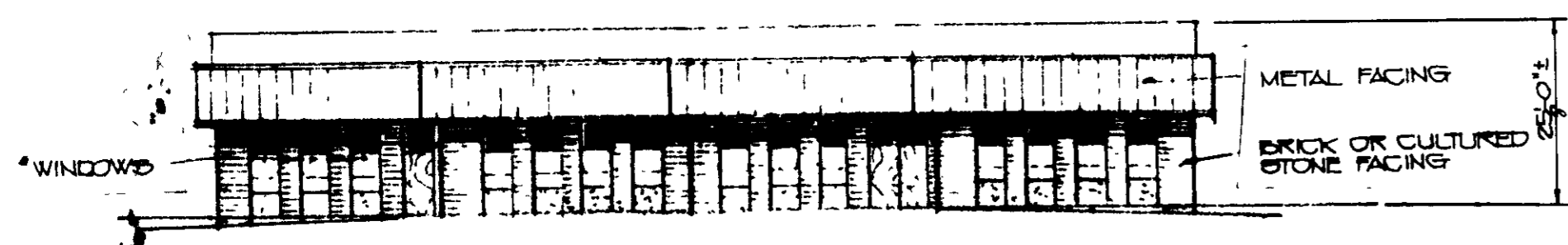
SITE TABULATION

Total Area of Property	2.1156 Ac. (92,156 S.F.)
Area of Submission	2.1156 Ac. (92,156 S.F.)
Area Reserved for Road R.O.W.	0.3444 Ac. (14,872 S.F.)
Present Zoning:	B-2
Proposed Use:	Office, Sales, Repair and Service of Construction Equipment in a One Story Building
Building Area by Use	3,750 S.F. Office 7,000 S.F. Sales/Repair/Service
Building Coverage Permitted (B-2)	50 % (46,078 S.F.)
Building Coverage Proposed:	11.49 % (10,750 S.F.)
Open Space Required	20 % (18,431 S.F.)
Open Space Proposed	26 % (24,081 S.F.)
Parking Required	14 Spaces
@ 1 per 500 S.F. Service Area.	11 Spaces
@ 7 per 10 Office Employees	
Total Parking Spaces Required	25 Spaces
Total Parking Spaces Proposed:	37 Spaces (Includes 2 Handicapped Spaces)
Area of Parking	13,000 S.F.
Landscaped Islands Required	650 S.F. (5 %)
Landscaped Islands Proposed:	918 S.F. (8 %)

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT	
<i>John M. Boyle</i> COUNTY HEALTH OFFICER	12-19-88 DATE
APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.	
<i>James H. Boyle</i> PLANNING DIRECTOR	12/21/88 DATE
<i>Mark S. McLaughlin</i> CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT	12-21-88 DATE
APPROVED: FOR STORM DRAINAGE SYSTEMS AND PUBLIC ROADS	
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
<i>John M. Boyle</i> DIRECTOR	DATE
<i>William S. Ryan</i> CHIEF, BUREAU OF ENGINEERING	11-29-88 DATE



LEFT SIDE ELEVATION



FRONT ELEVATION

PROPOSED BUILDING EXTERIOR ELEVATIONS
NOT TO SCALE

PLAN
SCALE 1" = 50'

NOT: ARMY CORPS OF ENGINEERS PERMIT 401 & 404 ARE NOT REQUIRED FOR THIS CONSTRUCTION WITHIN THE LIMIT OF DISTURBANCE AS SHOWN ON THIS SET OF DRAWINGS.

ADDRESS CHART

LOT NUMBER	STREET ADDRESS
PARCEL 36	4700 LINTICUM RD

SUBDIVISION NAME	SECT./AREA	LOT/PARCEL #
R.L.O. SERVICE CENTER		36
PLAT # OR L/F	BLOCK #	ZONE
1927/110	6	B-2
TAX/ZONE MAP	ELEC. DIST.	CENSUS TR
26	5TH	6051
WATER CODE	SEWER CODE	
N/A	N/A	

APPROVED
DATE: 9-12-88
LKS

THE RIEMER GROUP, INC.
The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm
3106 North Ridge Road, Ellicott City, Maryland 21043 (301) 481-2890

DESIGNED BY	DOB
DRAWN BY	RAW
PROJECT NO	53201
DATE	JUNE 30, 1988
SCALE	AS SHOWN
DRAWING NO	1 OF 6

AS-BUILT 11-17-89

SDP-89-04

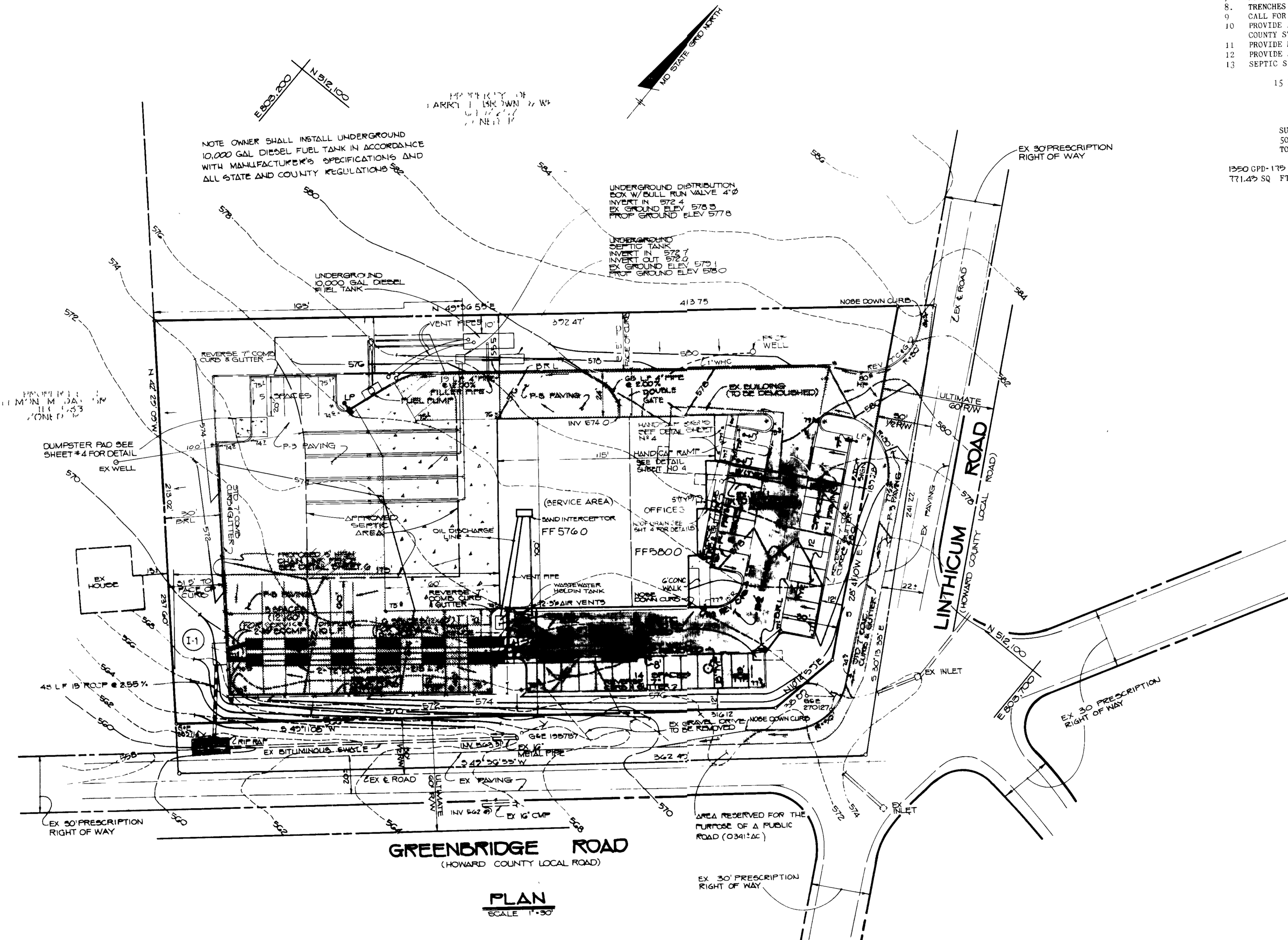
DRAINFIELD SPECIFICATIONS

- 1 TRENCH SHALL BE 2 FEET WIDE.
- 2 INLET TO TRENCHES SHALL BE 4 FEET BELOW GRADE.
- 3 BOTTOM OF TRENCH SHALL BE MAXIMUM DEPTH 9 FEET BELOW GRADE.
- 4 STONE SHALL EXTEND 5 FEET BELOW TRENCH DISTRIBUTION BOX.
- 5 SEPTIC TANK SHALL BE 2000 GALLON PRECAST TANK AND SHALL CONFORM TO HOWARD COUNTY PLUMBING CODE REQUIREMENTS.
- 6 DISTRIBUTION BOX WITH BULL RUN VALVE SHALL BE 3' x 3' PRECAST BOX CONFORMING TO HOWARD COUNTY PLUMBING CODE REQUIREMENTS.
- 7 NO TRENCH TO EXCEED 100 FEET IN LENGTH.
- 8 TRENCHES TO BE INSTALLED ON LEVEL GROUND.
- 9 CALL FOR INSPECTIONS OF TRENCH BEFORE GRAVEL IS INSTALLED.
- 10 PROVIDE 2 FOOT DIAMETER MANHOLE ON SEPTIC TANK TO GRADE, SEE HOWARD COUNTY STANDARD DETAIL SD-3 91
- 11 PROVIDE MONITORING PORTS AT ENDS OF TRENCHES.
- 12 PROVIDE 4" DIAMETER CLEANOUT AND CAP TO GRADE.
- 13 SEPTIC SYSTEM DESIGN

15 EMPLOYEES x 60 GPD = 900 GPD

SUBTOTAL 900 GPD
50 % MAXIMUM FLOW FACTOR 450 GPD
TOTAL 1350 GPD

1350 GPD - 175 GAL/SQ. FT./DAY = 771.43 SQ. FT. OF SIDEWALL AREA REQUIRED
771.43 SQ. FT. OF SIDEWALL - 5 FT DEEP TRENCH = 150 50 L.F.



GREENBRIDGE ROAD
(HOWARD COUNTY LOCAL ROAD)

LINTICUM ROAD
(HOWARD COUNTY LOCAL ROAD)

PLAN
SCALE 1" = 30'

NOTE: INTERNAL ACCESS WILL BE PROVIDED TO MEET ALL STATE AND COUNTY HANDICAP REGULATIONS

NOTE: PROPOSED FENCE TO BE 5 FT HIGH (OPEN CHAIN LINK TYPE) SEE HOWARD COUNTY DETAIL NO 68 01

LEGEND

- CONCRETE
- ▨ P-1 PAVING
- ▩ P-2 PAVING
- ▧ P-3 PAVING
- D.R.L. BUILDING RESTRICTION LINE
- L.P. LIGHT POLE

NOTE: ALL RADII ARE 5' UNLESS OTHERWISE NOTED.
* DENOTES TRANSITION FROM REVERSE CURB AND GUTTER TO STANDARD CURB AND GUTTER

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS,
HOWARD COUNTY HEALTH DEPARTMENT
Joseph M. Boyd 12-14-88
COUNTY HEALTH OFFICER DATE

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING.
Joseph M. Boyd 12/21/88
PLANNING DIRECTOR DATE
Marsha J. McCaughy 12-21-88
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

APPROVED FOR STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Robert J. ... DATE
DIRECTOR
William S. Ray 11-29-88
CHIEF, BUREAU OF ENGINEERING DATE

DATE	NO	REVISION

OWNER/DEVELOPER
DAYTON DEVELOPMENT GROUP
C/O MR ROBERT ORNDORFF
PO BOX 57
DAYTON, MARYLAND 21036

PROJECT
R.L.O. SERVICE CENTER

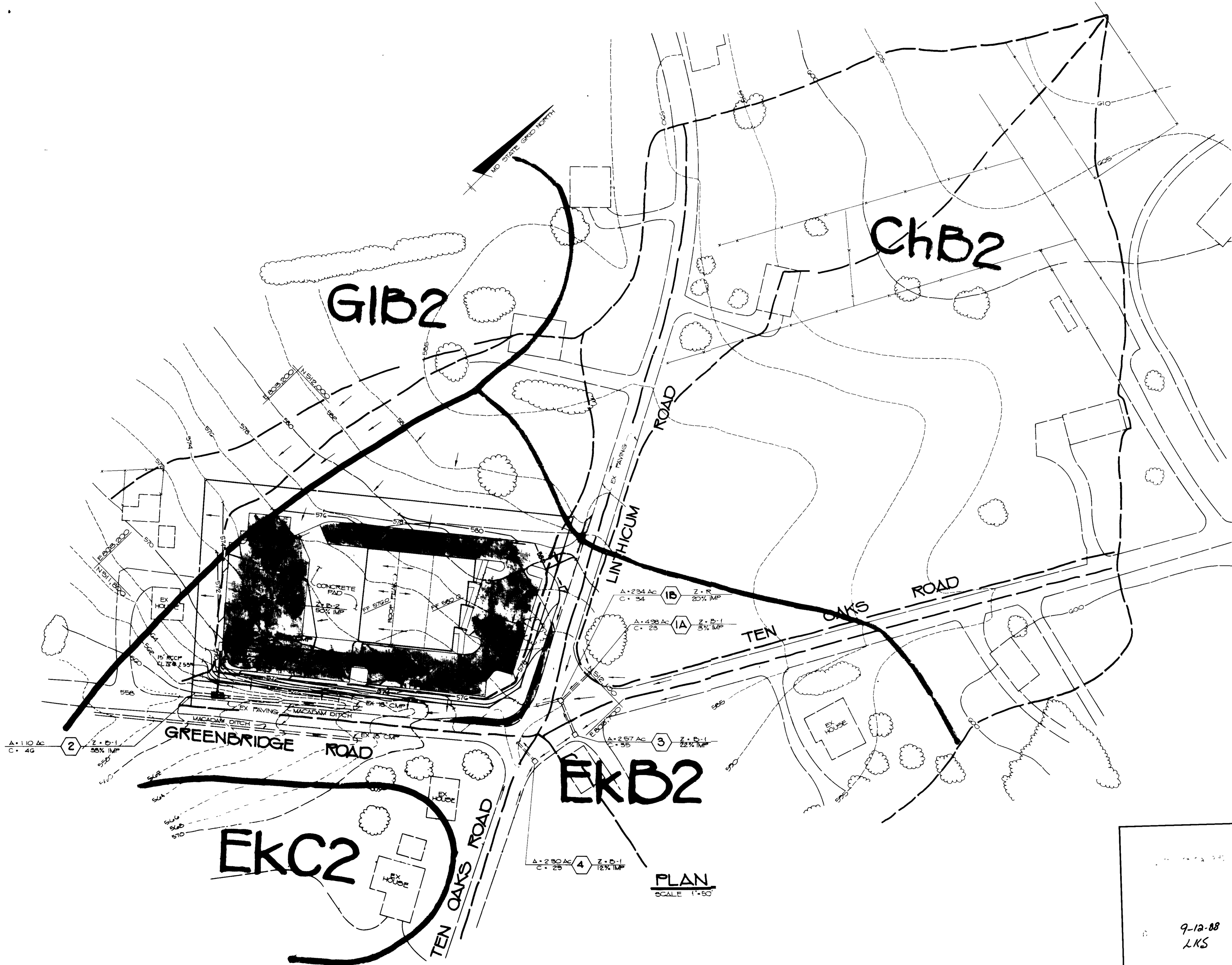
AREA TAX MAP 26 ZONED B-2 PARCEL 98
5TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
LIBER 1627 FOLIO 110

TITLE
SITE DEVELOPMENT PLAN

THE RIEMER GROUP, INC.
The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm
3105 North Ridge Road, Ellicott City, Maryland 21043 (301) 461-2690

11-15-88
DATE
DESIGNED BY DDB
DRAWN BY DDB/RAW
PROJECT NO 88201
DATE JUNE, 1988
SCALE AS SHOWN
DRAWING NO 2 OF 4
Arthur E. Muegge
ARTHUR E. MUEGGE #6707

9-12-88
LKS



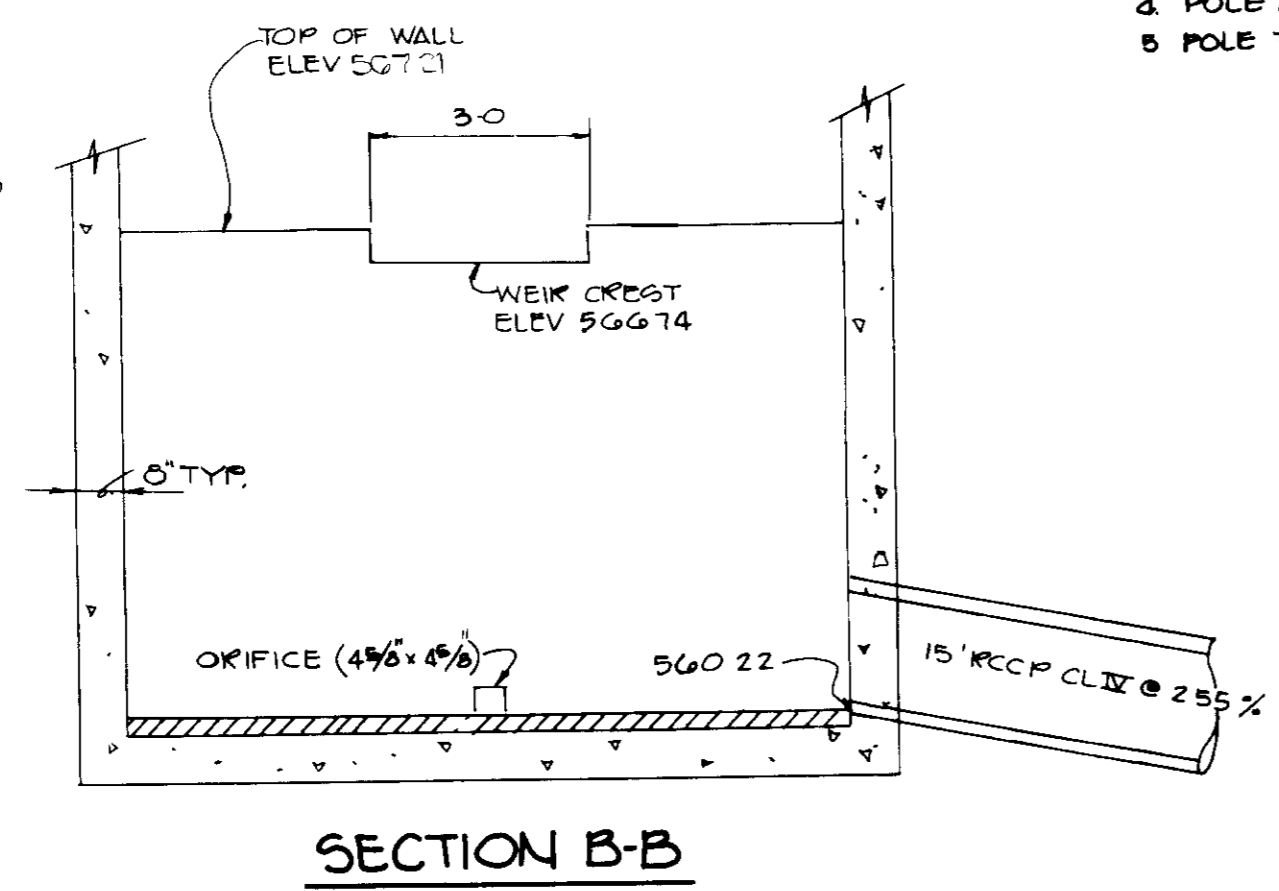
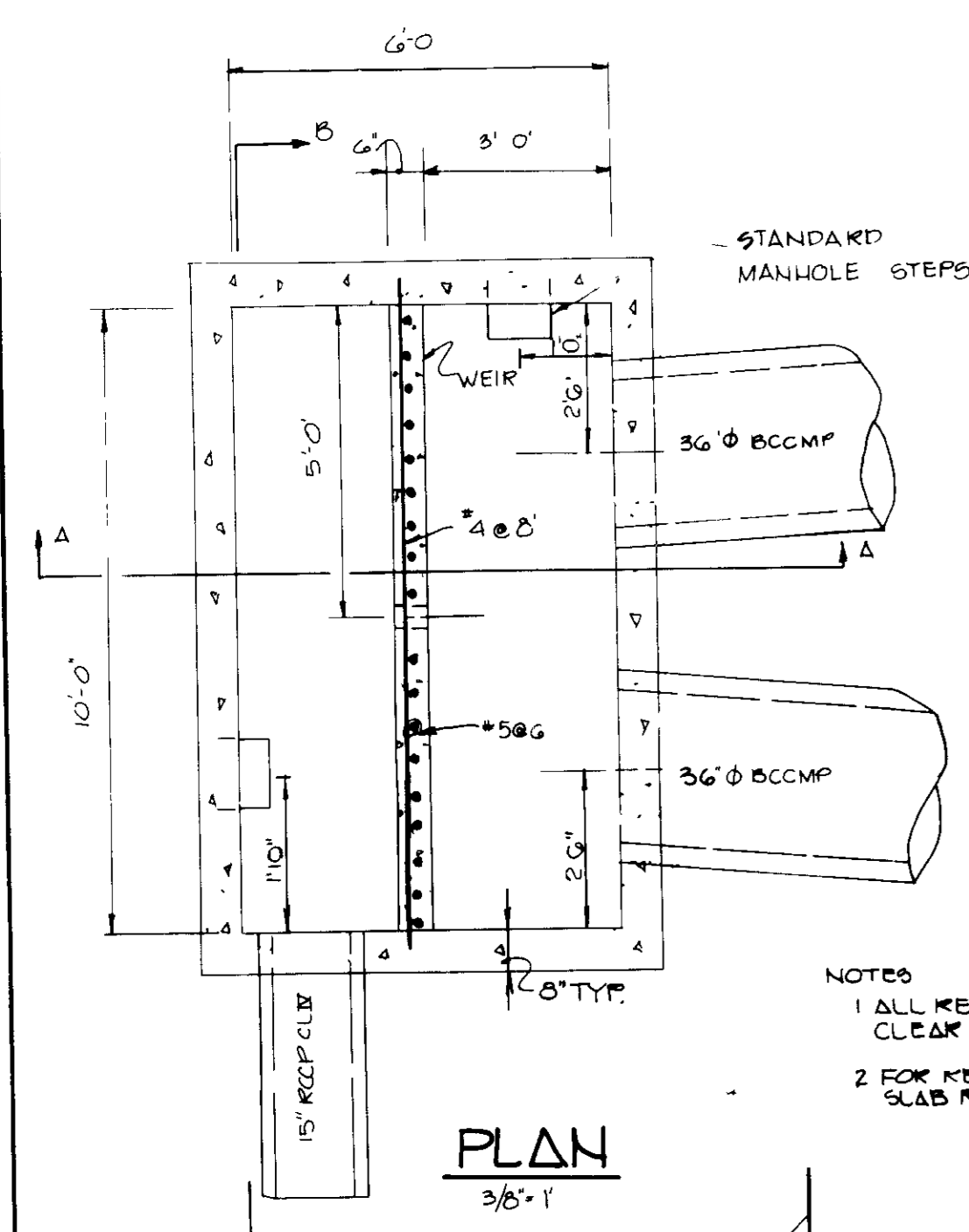
PLAN
SCALE 1"=50'

9-12-88
LKS

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT	<i>Joseph M. McManis</i> COUNTY HEALTH OFFICER	12-14-88 DATE
APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING	<i>Joseph Heath</i> PLANNING DIRECTOR	12/21/88 DATE
	<i>Walter S. DeCough</i> CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT	12-20-88 DATE LKS
APPROVED FOR STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	<i>Robert Orndorff</i> DIRECTOR	12/21/88 DATE
	<i>Robert Orndorff</i> CHIEF, BUREAU OF ENGINEERING	11-29-88 DATE
DATE	NO.	REVISION
OWNER/DEVELOPER DAYTON DEVELOPMENT GROUP C/O ROBERT ORNDORFF P.O. BOX 57 DAYTON, MARYLAND 21036		
PROJECT R.I.O. SERVICE CENTER		
AREA TAX MAP 25 ZONED B-2 PARCEL 35 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND LIBER 1927 FOLIO 110		
TITLE DRAINAGE AREA MAP		
THE RIEMER GROUP, INC. The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm 3105 North Ridge Road, Ellicott City, Maryland 21043 (301) 461-2690		
DATE 11-15-88	DESIGNED BY DBS	
	DRAWN BY RAW	
	PROJECT NO 53201	
	DATE JUNE 30, 1988	
	SCALE AS SHOWN	
	DRAWING NO 3 OF 2	

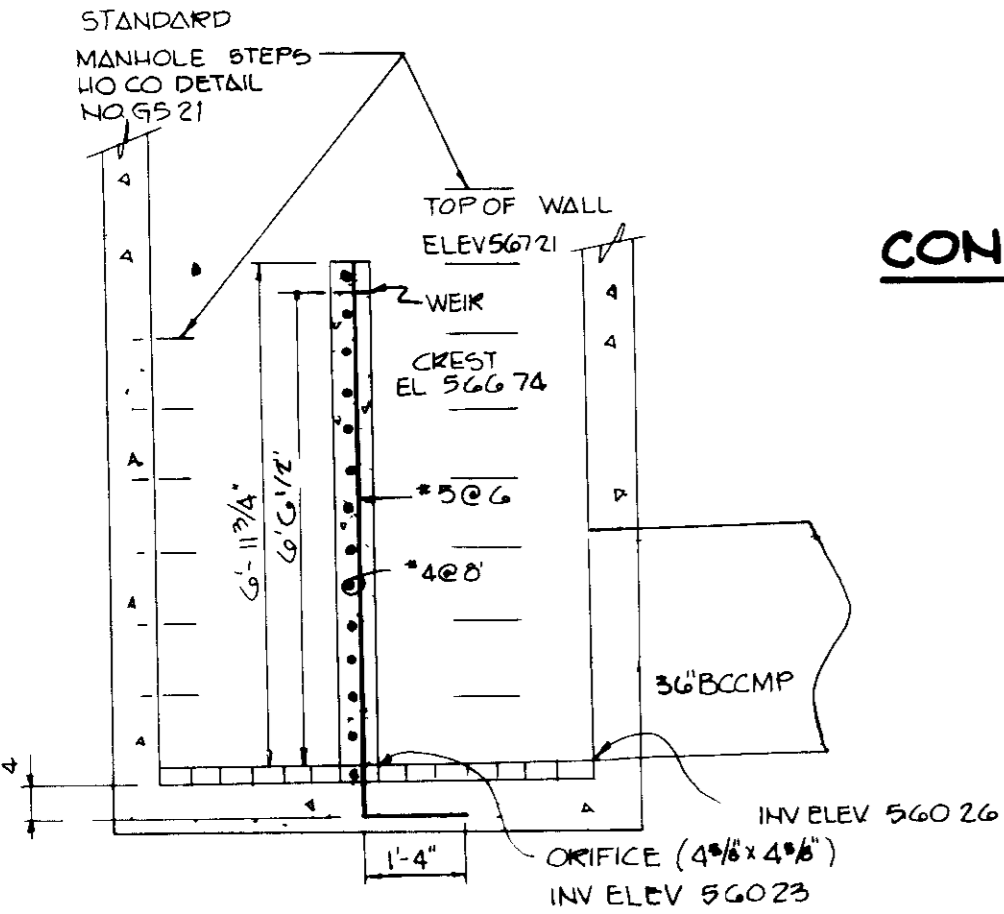
AS-BUILT 11-17-89

SDP 87-04



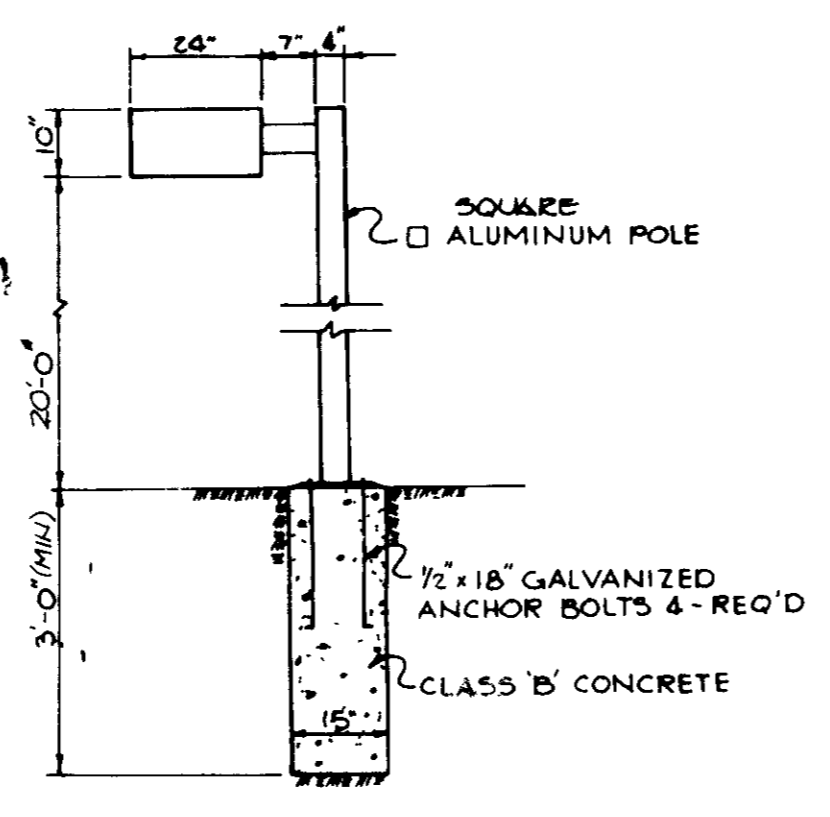
NOTES
 1 ALL REBAR'S SHALL HAVE A 2" MIN CLEAR COVER UNLESS OTHERWISE NOTED
 2 FOR REINFORCEMENT DETAILS FOR THE SLAB REFER TO STD HOWARD CO DETAIL

MODIFIED A-10 INLET-I-1



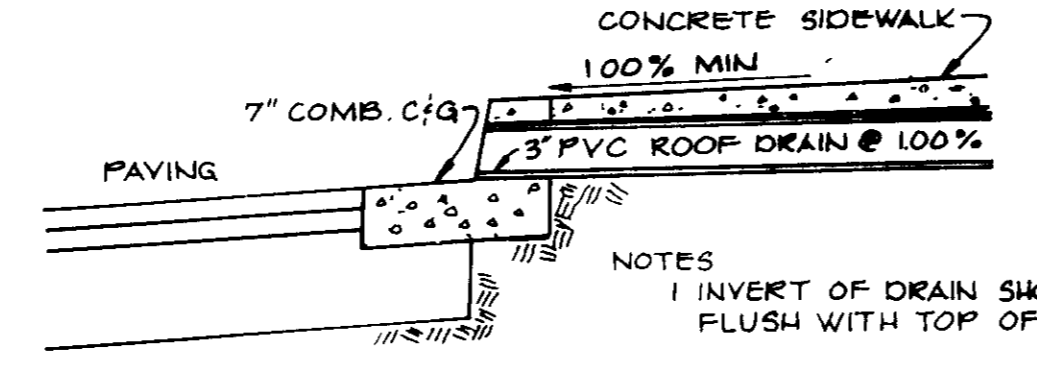
SECTION A-A

- NOTES
 1 ALL LIGHT FIXTURES TO BE SINGLE LUMINAIRE 400 WATT MERCURY TYPE 20" HIGH WITH METAL POLES AND DIRECTED DOWNWARD
 2 LOCATIONS OF LIGHT FIXTURES ARE ON THE PLAN AND ARE SHOWN THIS WAY
 3 LIGHTS TO BE MODULE II TYPE 113 MANUFACTURED BY MOLDCAST OR APPROVED EQUAL
 4 POLE AND FIXTURE TO HAVE BLACK POLYESTER ENAMEL FINISH
 5 POLE TO BE LOCATED 3' BACK FROM BACK OF CURB

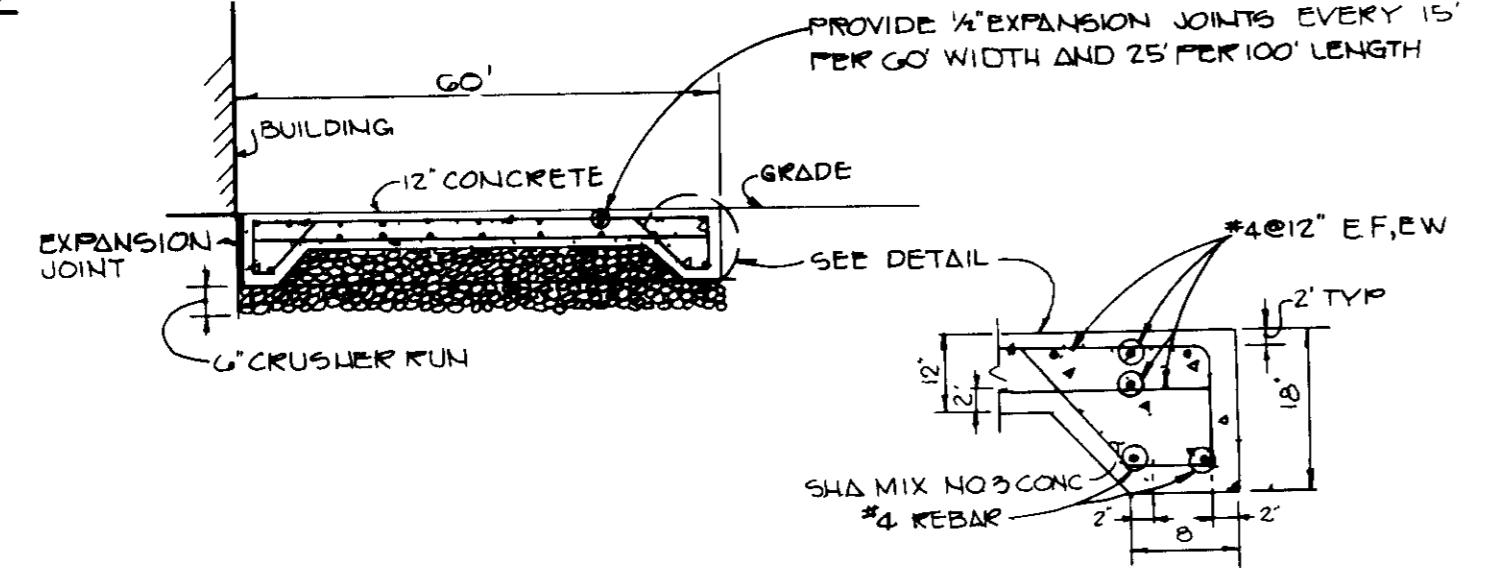


LIGHT DETAIL
 No Scale

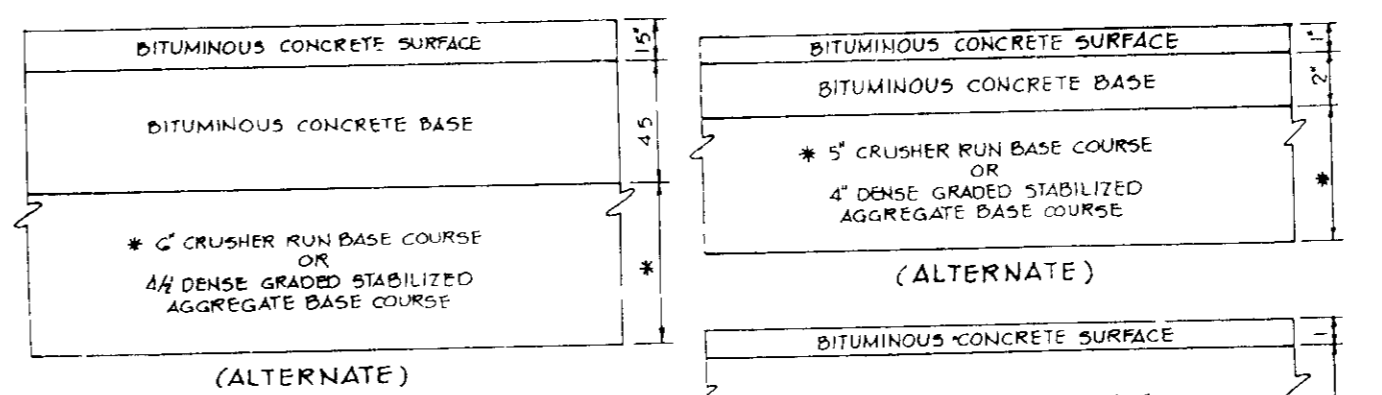
* SEE ARCHITECT'S PLANS FOR LOCATIONS AND TURN-UP DETAILS



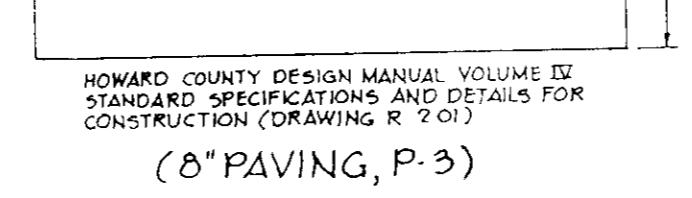
TYPICAL ROOF DRAIN DETAIL
 NO SCALE



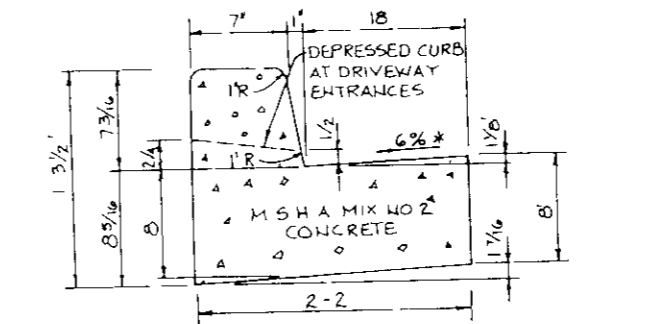
CONCRETE PAVING DETAIL
 NO SCALE



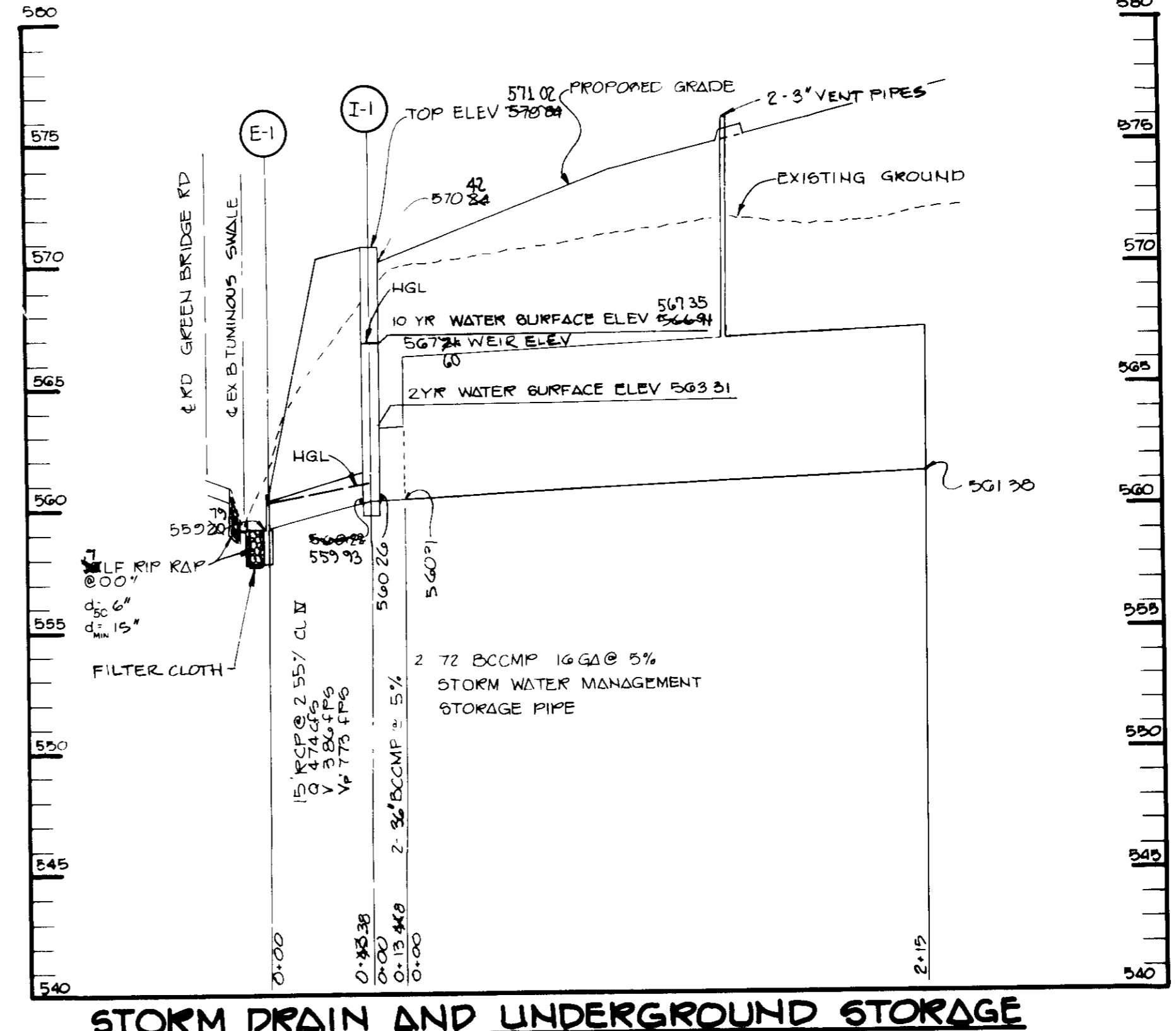
SIDEWALK DETAIL
 No Scale



STANDARD 7" COMBINATION CURB AND GUTTER
 No Scale

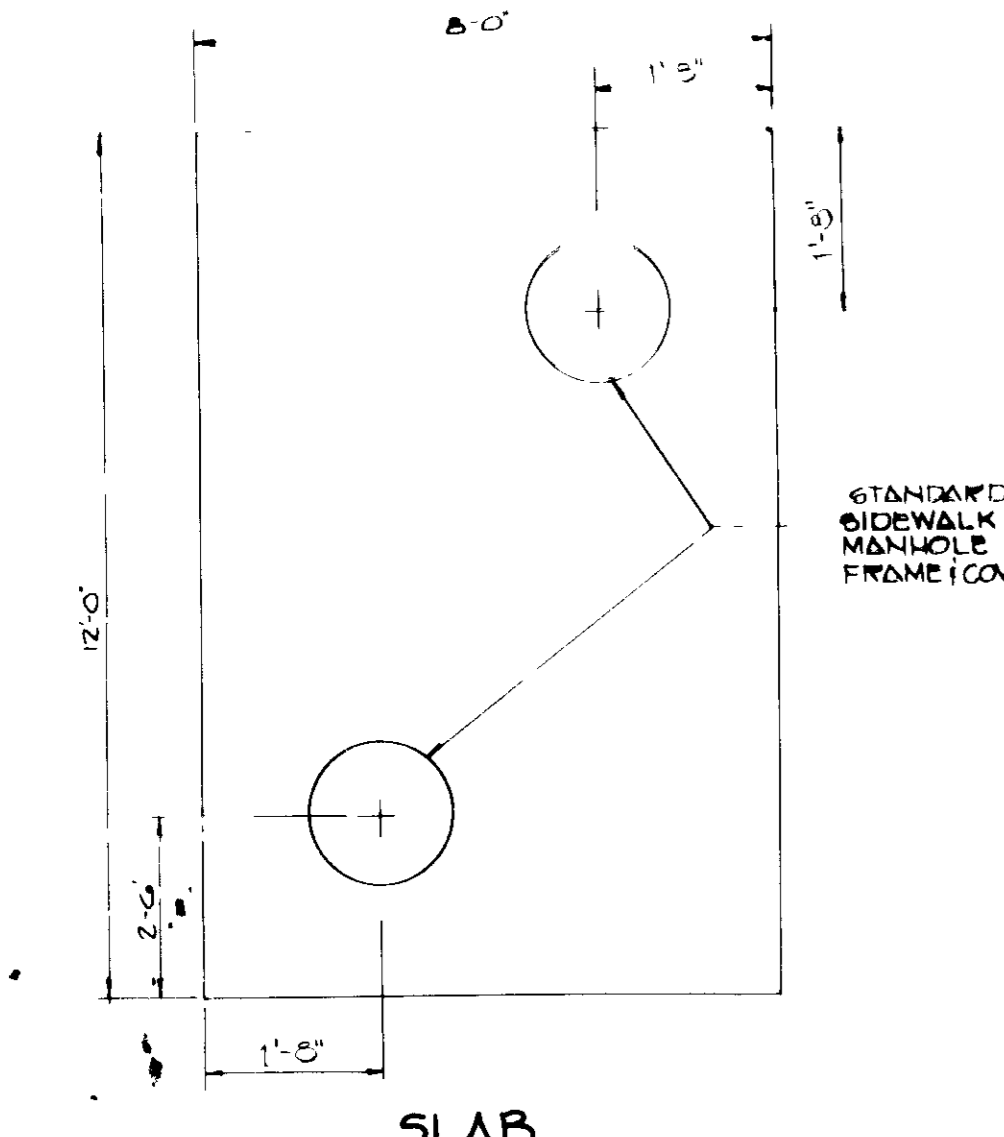


REVERSE 7" COMBINATION CURB AND GUTTER
 No Scale

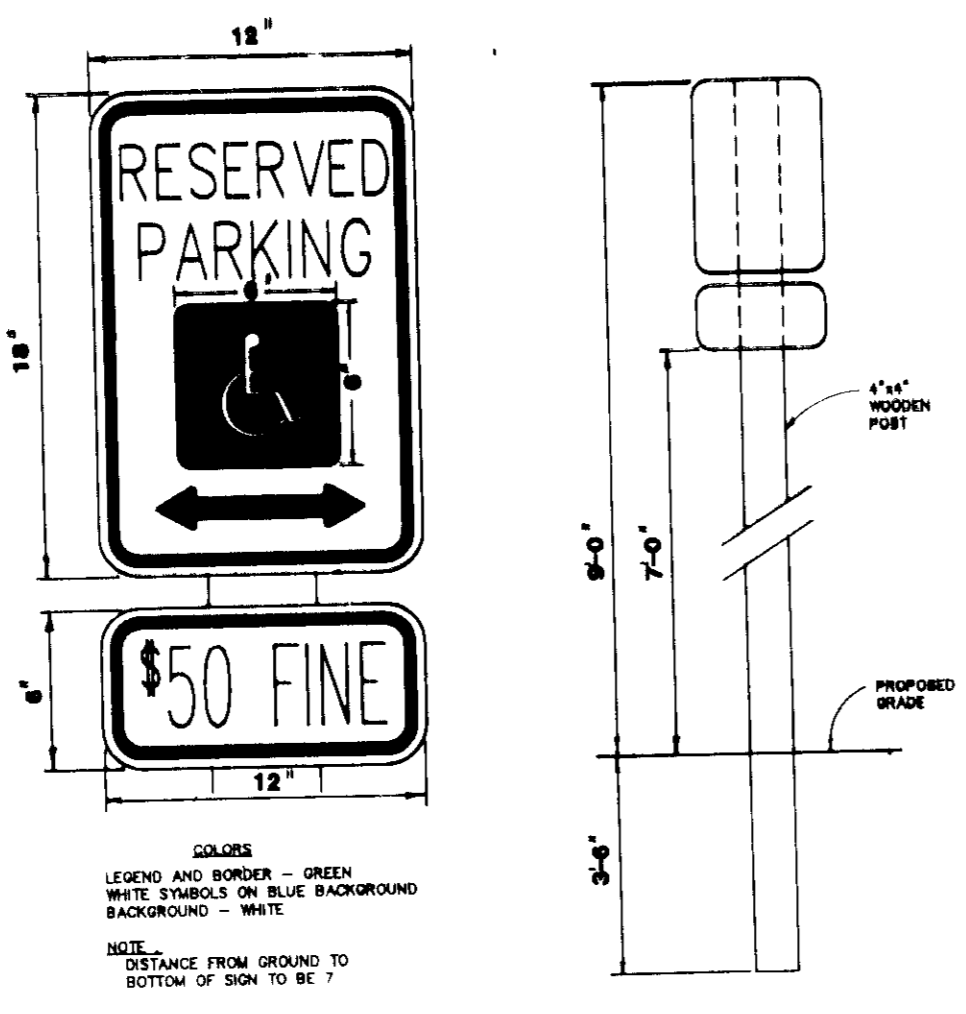


STORM DRAIN AND UNDERGROUND STORAGE
 SCALE HORIZ 1"=50' VERT 1"=5'

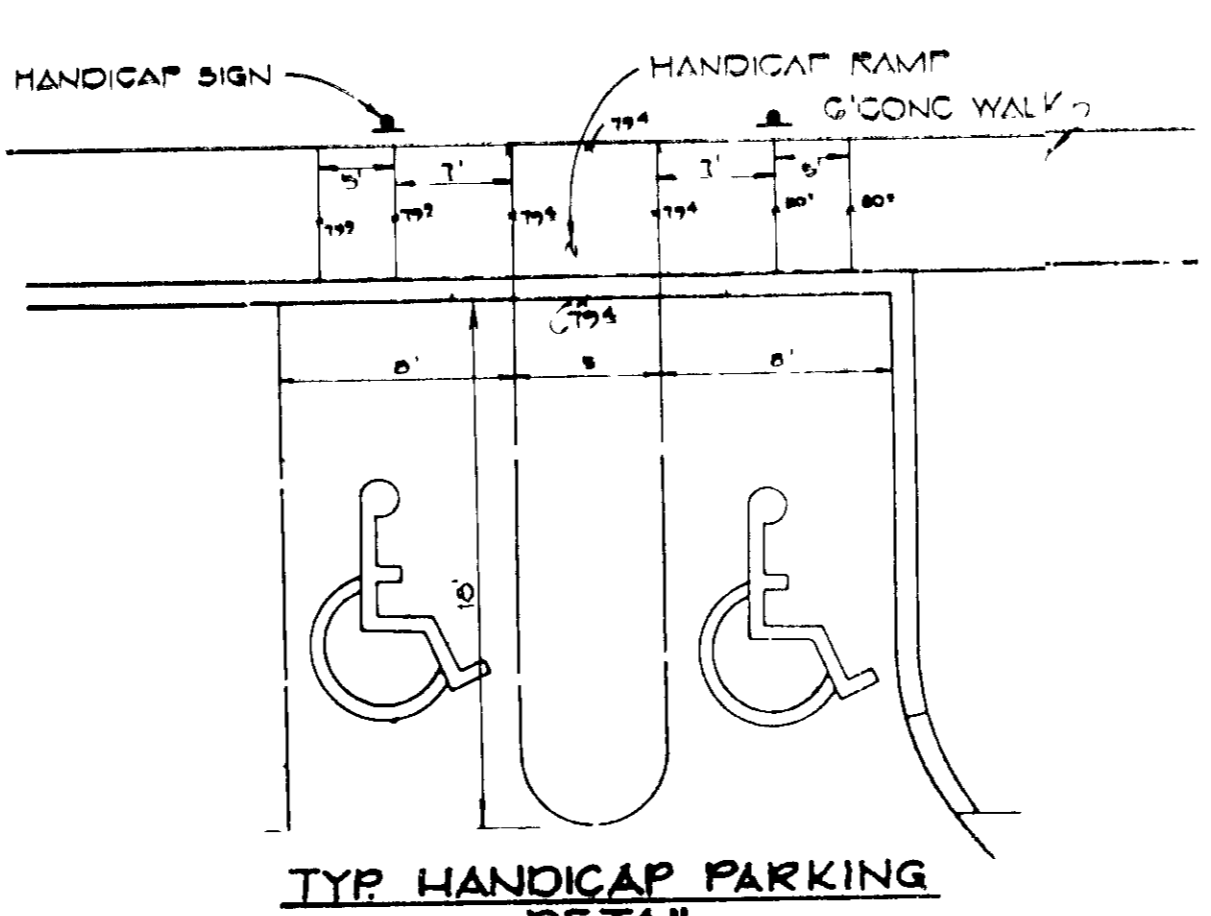
Location	Top Elev.	Inv. In.	Inv. Out.	Remarks
I-1 Southwest corner of paved area	576.41	560.30	559.93	Modified to 10' dia. See Sheet 4 for Modification
E-2 See Plan Sheet 2	-	560.79	-	No Co. Std. 6"



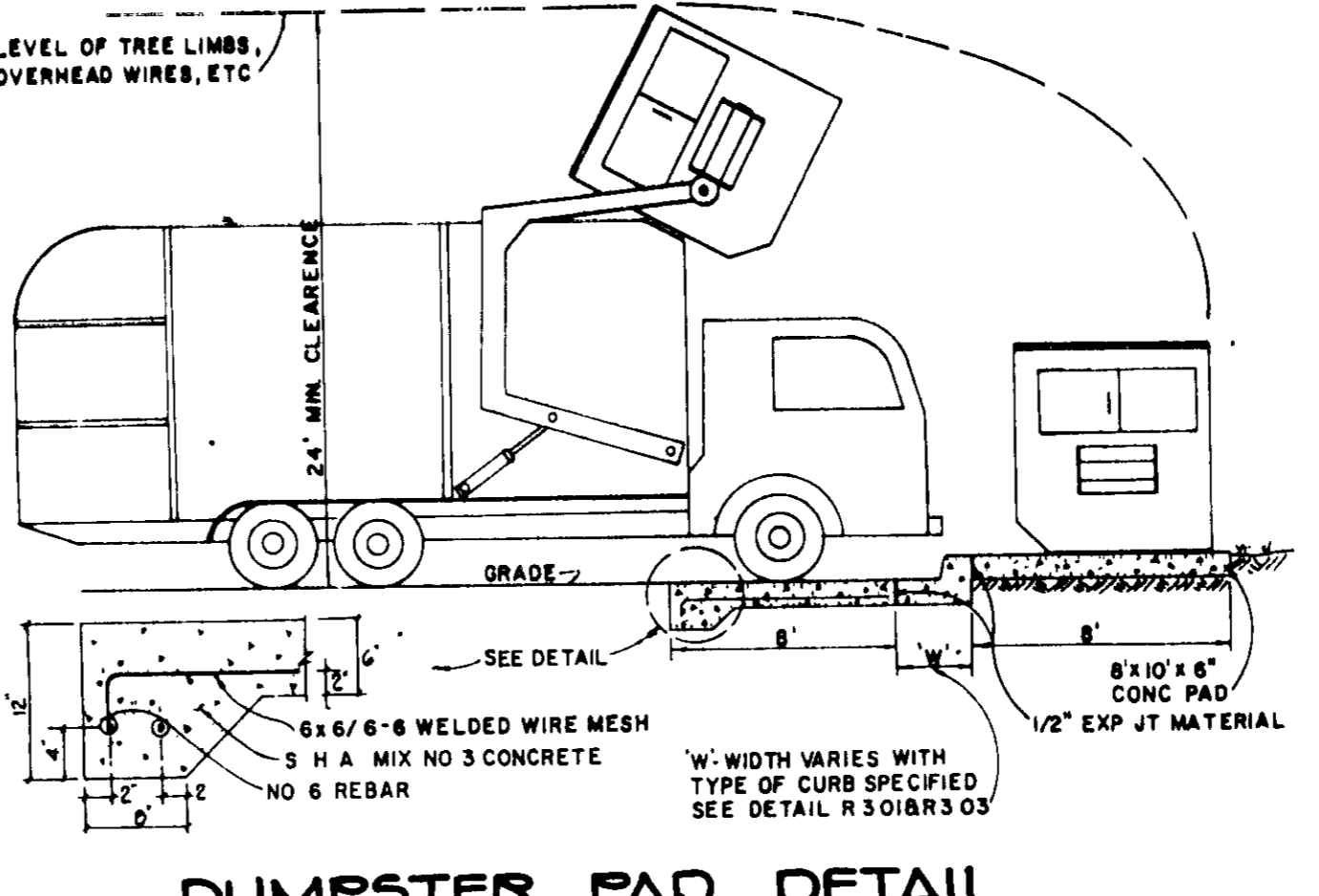
SLAB



HANDICAP SIGN DETAIL
 NO SCALE



TYP HANDICAP PARKING DETAIL
 NO SCALE



DUMPSTER PAD DETAIL
 NO SCALE

AS-BUILT SURVEY CERTIFIED BY
 ARTHUR E. MUEGGE III, MD P.E.
 NO. 6707 ON 11-17-89

9-12-88
 LK1

BY THE DEVELOPER
 I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION THEREOF WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEMONSTRATION OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.
 DATE 11/17/89

BY THE ENGINEER
 I CERTIFY THAT THIS PLAN FOR POND AND EROSION CONTROL AND SEDIMENT CONTROL REPRESENTS A PROFESSIONAL AND CORRECT PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.
 DATE 11-21-88

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL EROSION CONTROL STRUCTURES AND SEDIMENT CONTROL.
 DATE 11-21-88

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
 DATE 11-18-88

APPROVED FOR STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DATE 12-14-88

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING
 DATE 12/21/88

CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT
 DATE 12-21-88

APPROVED FOR STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DATE 11/29/88

CHIEF, BUREAU OF ENGINEERING
 DATE 11-29-88

OWNER/DEVELOPER
 DAYTON DEVELOPMENT GROUP
 C/O ROBERT ORNDORFF
 P.O. BOX 87
 DAYTON, MARYLAND 21036

PROJECT
R.L.O. SERVICE CENTER

TITLE
PROFILES AND DETAILS

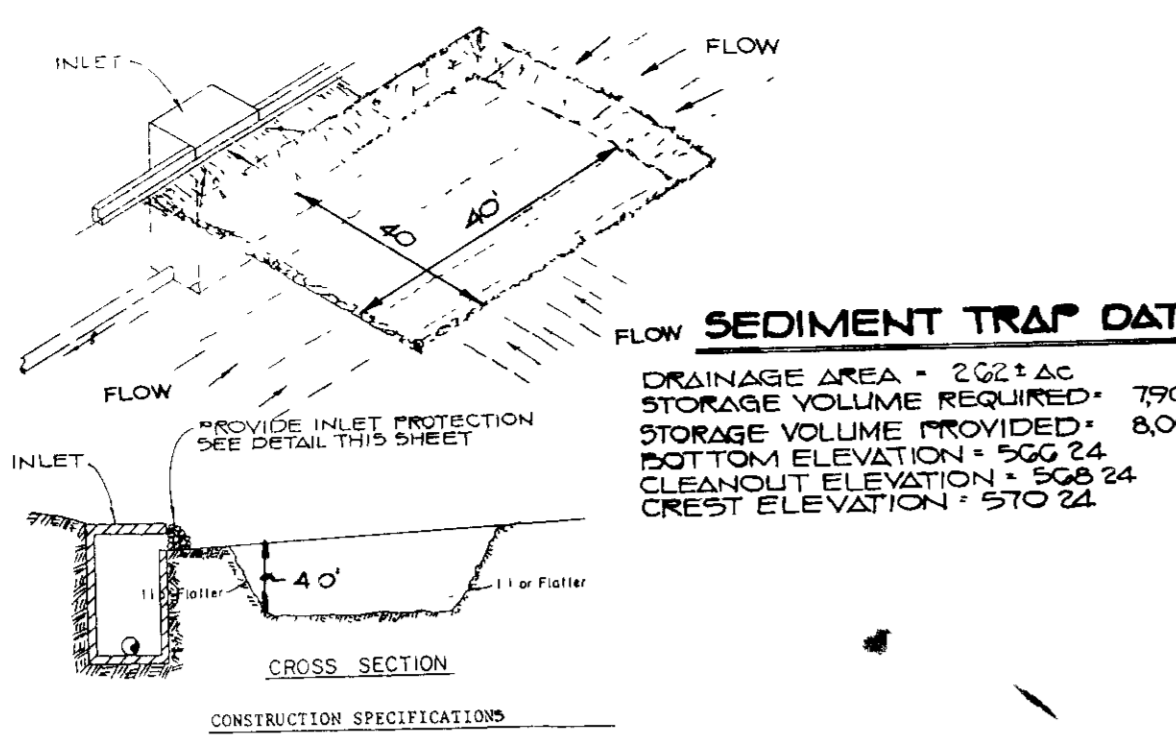
THE RIEMER GROUP, INC.
 The Riemer Group, Inc. A Land Planning, Design & Civil Engineering Firm
 3106 North Ridge Road, Ellicott City, Maryland 21043 (301) 461-2690
 DATE 11-15-88
 DESIGNED BY DBS
 DRAWN BY R.A.W.
 PROJECT NO 53201
 DATE JUNE 30, 1988
 SCALE AS SHOWN
 DRAWING NO 4 OF 6

Structure Specifications

- I. Materials**
1. Wooden frame is to be constructed of 2" x 4" construction grade lumber.
 2. Wire mesh must be of sufficient strength to support filter fabric, and stone for curb inlets, with water fully ponded against it.
 3. Filter cloth must be of a type approved for this purpose resistant to sunlight with stone size, 100, 40-85, to allow sufficient passage of water and removal of sediment.
 4. Stone to be 2" in size and clean, since fines would clog the cloth.

II. Procedure

- A. Swale, ditchline or yard inlet protection.**
1. Excavate completely around inlet to a depth of 18" below notch elevation.
 2. 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.
 3. Stretch wire mesh tightly around frame and fasten securely. Ends must meet at post.
 4. 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.
 5. Backfill around inlet in compacted 6" layers until layer of earth is even with notch elevation on ends and top elevation on side.
 6. 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).
 7. This structure must be inspected frequently and the filter fabric replaced when clogged.
- B. Curb Inlet Protection.**
1. 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.
 2. 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.
 3. Securely nail the 2" x 4" weir to 9" long vertical spacers to be located between the weir and inlet face (max. 6' apart).
 4. Place the assembly against the inlet throat and nail (minimum 2" lengths of 2" x 4" to the top of the weir at spacer locations. These 2" x 4" anchors shall extend across the inlet top and be held in place by sandbags or alternate weight.
 5. The assembly shall be placed so that the end spacers are a minimum 1' beyond both ends of the throat opening.
 6. 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.
 7. This type of protection must be inspected frequently and the filter cloth and stone replaced when clogged with sediment.
 8. Assume that storm flow does not bypass inlet by installing temporary earth or asphalt dikes directing flow into inlet.



- SEDIMENT TRAP DATA**
- DRAINAGE AREA = 2.02 AC
 STORAGE VOLUME REQUIRED = 7900 CU FT
 STORAGE VOLUME PROVIDED = 8,000 CU FT
 BOTTOM ELEVATION = 506.24
 CLEANOUT ELEVATION = 508.24
 CREST ELEVATION = 510.24
1. Sediment shall be removed and the trap restored to its original condition when the sediment has accumulated to the design depth of the trap. Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.
 2. The volume of sediment storage shall be 1800 cubic feet per acre of contributing drainage.
 3. The structure shall be inspected after each rain and repairs made as needed.
 4. Construction operations shall be carried out in such a manner that erosion and water pollution shall be minimized.
 5. The sediment trap shall be removed and the area stabilized when the constructed drainage area has been properly stabilized.
 6. All cut slopes shall be 1:1 or flatter.

MODIFIED STORM INLET SEDIMENT TRAP

NO SCALE

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, tilling or other acceptable means before seeding.

Soil Amendments Apply 0-20-20 fertilizer at the rate of 600 lbs per acre. Narrow or disc lime and 0-20-20 fertilizer into the soil to a minimum depth of 3". Lawns or high maintenance areas will be dragged and leveled with a work rake. At the time of seeding apply 600 lbs of 10-0-0 ureaform fertilizer and 500 lbs of 10-20-20 or equivalent fertilizer per acre.

Seeding For the periods March 1 thru April 30 and August 1 thru October 15, seed with 40 lbs per acre (1 lb/1000 sq ft) of a mixture of certified, medium Kentucky Bluegrass, common Kentucky Bluegrass @ 50 lbs per acre (1 lb/1000 sq ft) and Red Fescue, Pennlawn or Jamestown @ 20 lbs per acre (0.5 lb/1000 sq ft) for the period May 1 thru July 31, seed with 40-40-20 mix as specified above and 2 lbs per acre 10-0-5 lbs/1000 sq ft of seeding lovagegrass. 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) the sod (Option 3) Seed with 40-40-20 mix specified above and mulch with 2 tons/acre well-anchored straw.

Mulching Apply 15 to 2 tons per acre (70 to 90 lb/1000 sq ft) of certified small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes, 8 ft or higher, use 348 gallons per acre (8 gal/1000 sq ft) for anchoring.

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

TEMPORARY SEEDING NOTES

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

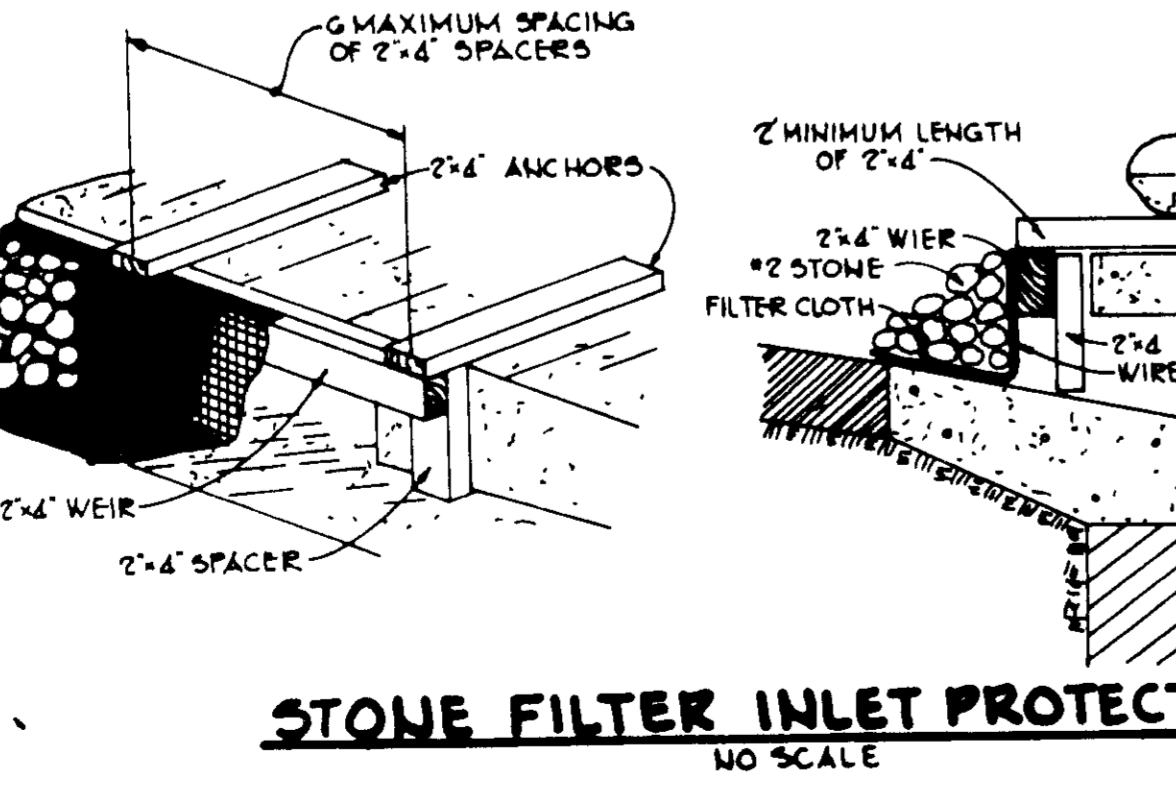
Seeded Preparation Loosen upper three inches of soil by raking, tilling or other acceptable means before seeding.

Soil Amendments Apply 600 lbs per acre 10-10-10 fertilizer (14 lb/1000 sq ft) where soil is highly acidic, apply dolomitic limestone at the rate of 1 ton per acre.

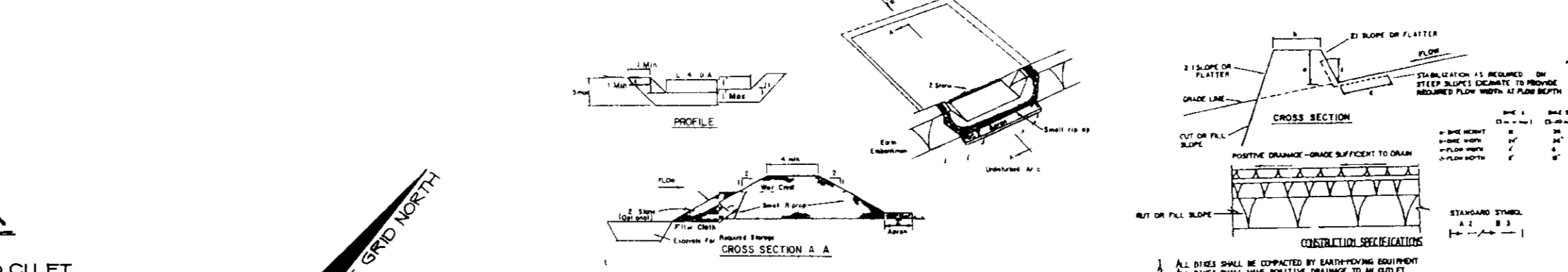
Seeding For periods March 1 thru April 30 and from August 15 thru November 15, seed with 140 lbs per acre of annual ryegrass (3.2 lb/1000 sq ft). For the period May 1 thru August 14, seed with 3 lbs per acre of seeding lovagegrass (0.7 lb/1000 sq ft). For the period November 16 thru February 28, protect 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 15 to 2 tons per acre (70 to 90 lb/1000 sq ft) of untreated small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes, 8 ft or higher, use 348 gal per acre (8 gal/1000 sq ft) for anchoring.

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

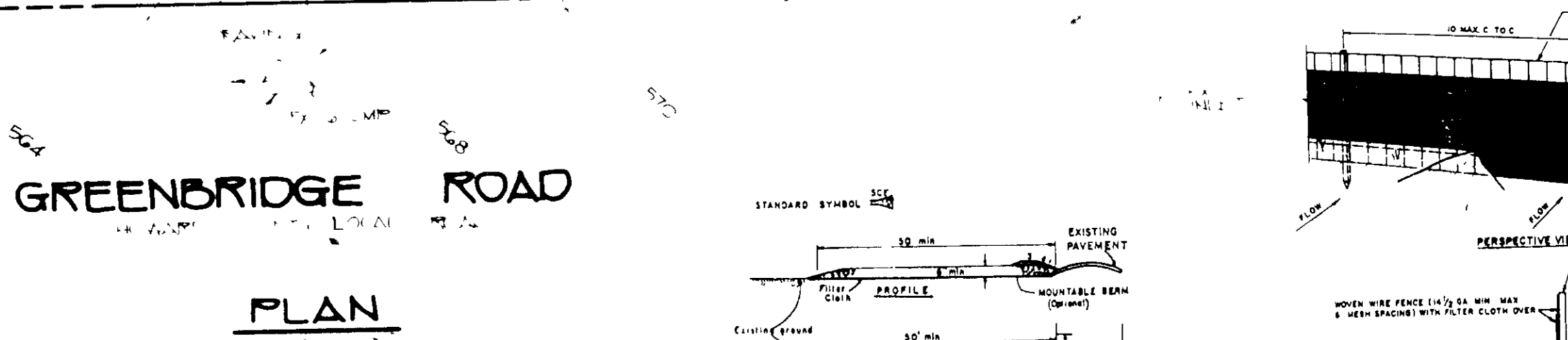
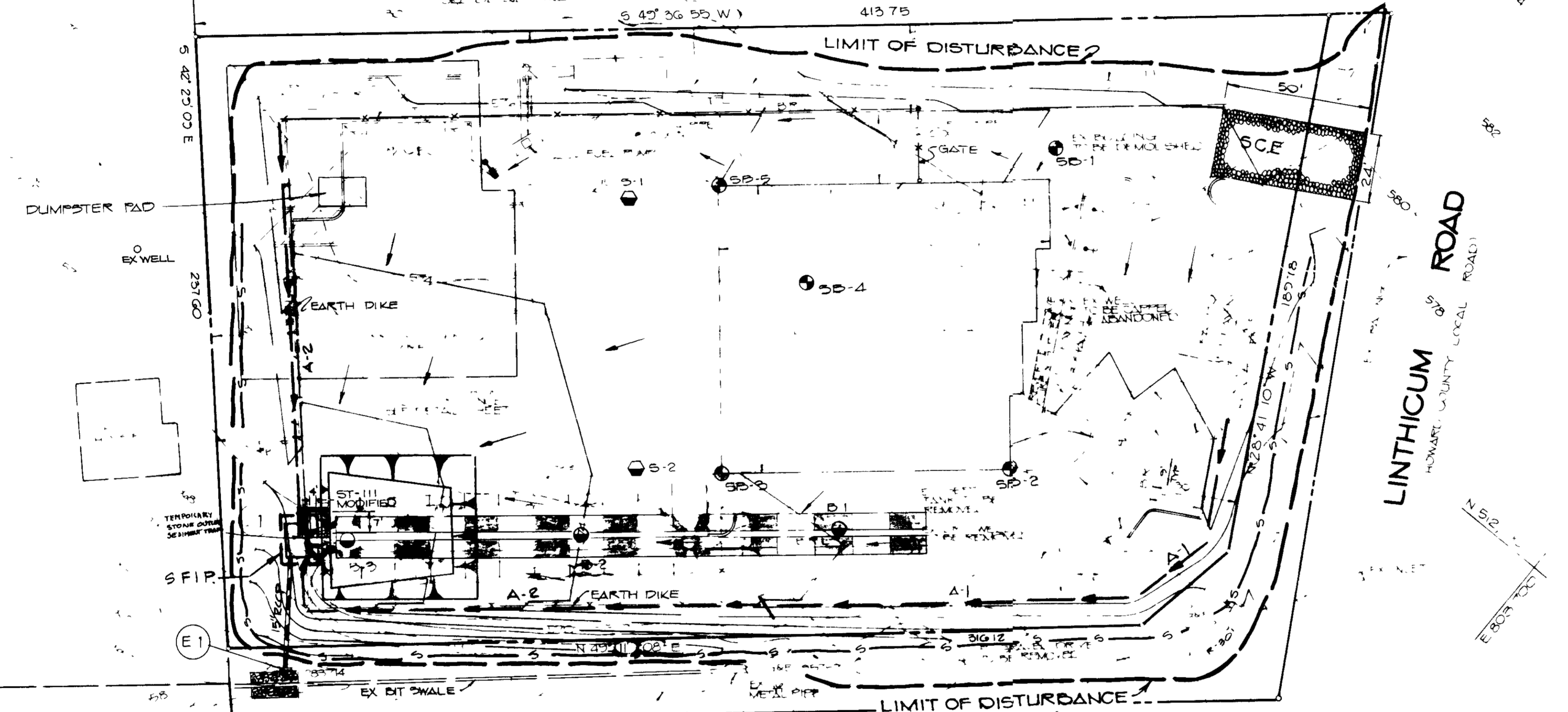


NO SCALE



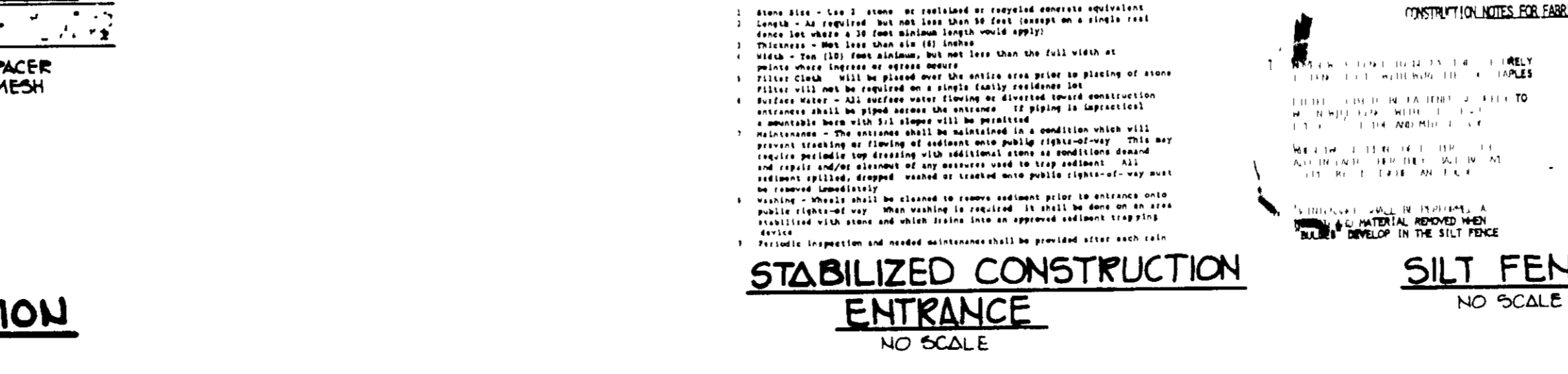
EARTH DIKE

NO SCALE



STABILIZED CONSTRUCTION ENTRANCE

NO SCALE



SILTY FENCE

NO SCALE

SEDIMENT CONTROL NOTES

1. A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits prior to the start of any construction (192-2533).
2. 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.
3. Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within (a) 7 calendar days for all perimeter sediment control structures, ditches, permanent slopes and all slopes greater than 3:1, (b) 15 days as to all other disturbed or graded areas on the project site.
4. All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
5. All disturbed areas must be stabilized within the time period specified above in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seedings (Sec. 51) and (Sec. 54), temporary seedings (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.
6. All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.
7. Site Analysis

Total Area of Site	2.1903 acres
Area Disturbed	1.032 acres
Area to be roofed or paved	0.757 acres
Area to be vegetatively stabilized	2.125 Cu yds
Total Cut	1062 Cu yds
Total Fill	
8. Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
9. Additional sediment controls must be provided, if deemed necessary by the Howard County DPM sediment control inspector.
10. Site grading will begin only after all perimeter sediment control measures have been installed and are in a functioning condition.
11. Sediment will be removed from traps when its depth reaches the clean out elevation shown on the plans.

FLANK DRAINAGE COMBINATIONS

LINE	NO.	TYPE	AREA	LINE NO.	TYPE	AREA
1	5-5	See Note 1	See Note 1	1	5-5	See Note 1
2	5-5	See Note 1	See Note 1	2	5-5	See Note 1
3	5-5	See Note 1	See Note 1	3	5-5	See Note 1
4	5-5	See Note 1	See Note 1	4	5-5	See Note 1

FOR SEPTIC SYSTEM EXCAVATION REFER TO SHEET 2 OF 6

LEGEND

- SB-1 STRUCTURAL BORING
- B-1 BORING FOR SWM
- G-1 CBX TEST BORING

CONSTRUCTION NOTES FOR EXHAUSTED SILT FENCE

1. Silt fence shall be constructed of approved concrete or plastic pipe.
2. Silt fence shall be installed on a firm, level surface.
3. Silt fence shall be installed in a line with the slope of the disturbed area.
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BY THE DEVELOPER

"I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES AND EROSION BEFORE BEGINNING THE PROJECT. I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN 'AS-BUILT' PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."

[Signature] 11/15/88 DATE

BY THE ENGINEER

"I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN 'AS-BUILT' PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION."

[Signature] 11/15/88 DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL LOT DEVELOPMENT SOIL EROSION AND SEDIMENT CONTROL.

[Signature] 11-21-88 DATE

APPROVED *[Signature]* 11/15/88 DATE

HOWARD'S, C.D.

APPROVED FOR PRIVATE WATER AND PRIVATE CONSTRUCTION

[Signature] 12-14-88 DATE

COUNTY HEALTH OFFICER

APPROVED HOWARD COUNTY OFF.

[Signature] 12/21/88 DATE

PLANNING AND LAND DEVELOPMENT

APPROVED FOR STORM DRAINAGE SYSTEMS AND PUBLIC ROADS

[Signature] 11-29-88 DATE

HOWARD COUNTY ENGINEER

OWNER DEVELOPER

LANTON DEVELOPMENT GROUP
 1400 W. ROBERT CRONIN
 11111 LANTON, MARYLAND 20786

PROJECT

R.I.O. SERVICE CENTER

ARI A TAX MAP 20 ZONED R-2 PARCEL 503

5TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 LIDER 1027 FOLIO 110

SEDIMENT CONTROL PLAN, NOTES & DETAILS

THE RIEMER GROUP, INC

The Riemer Group, Inc. A Land Planning Division
 1105 North Ridge Road, Ellicott City, Maryland 21042

11/15/88 DATE

DESIGNED BY

DRAWN BY S.L.C.

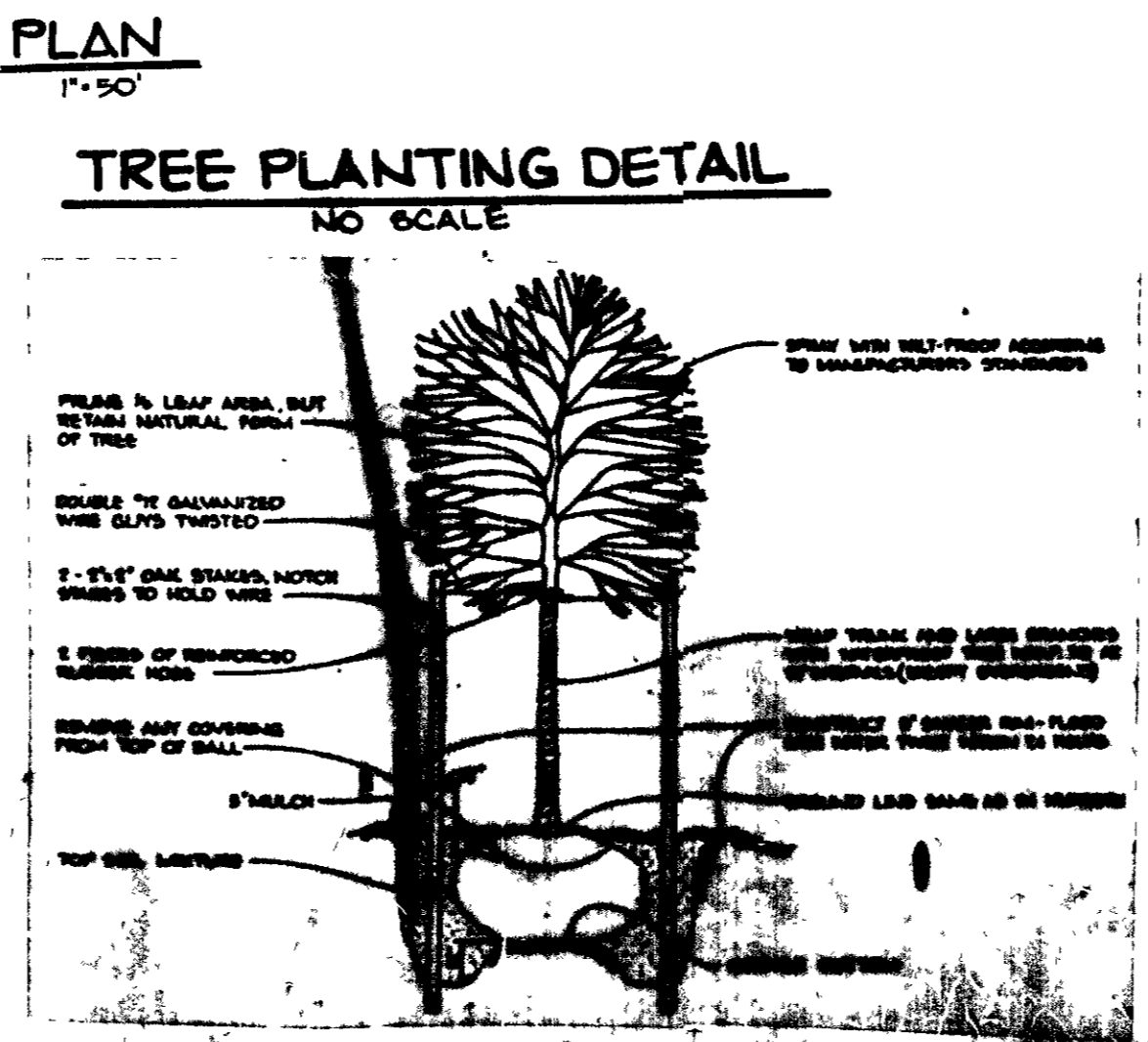
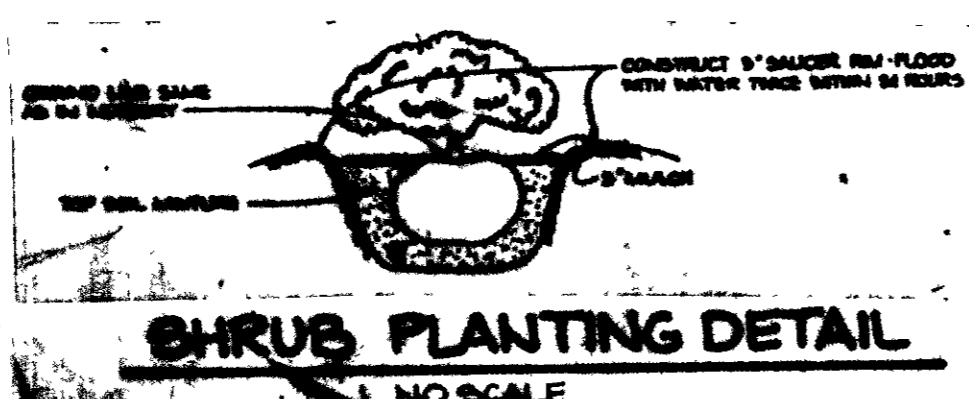
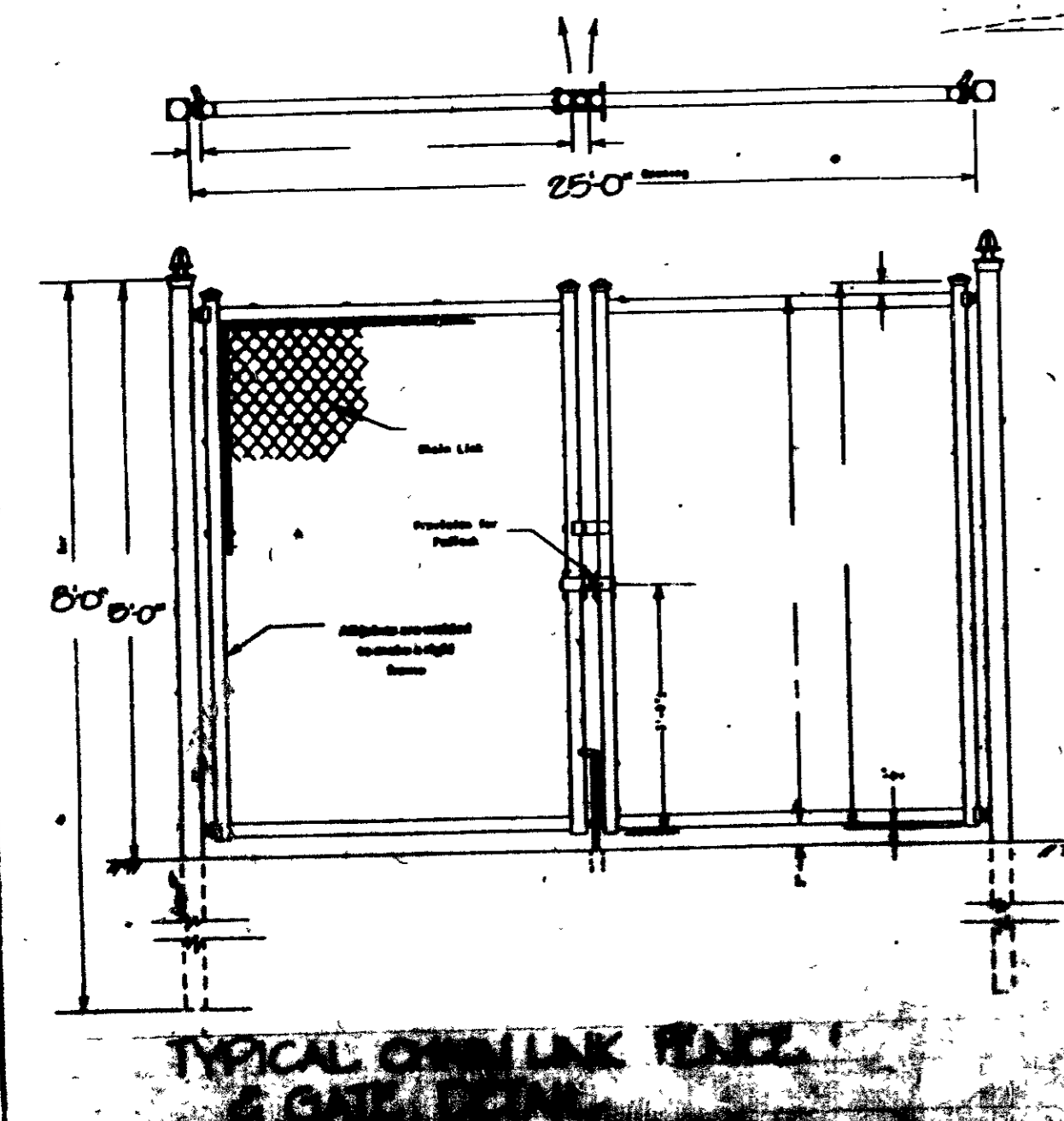
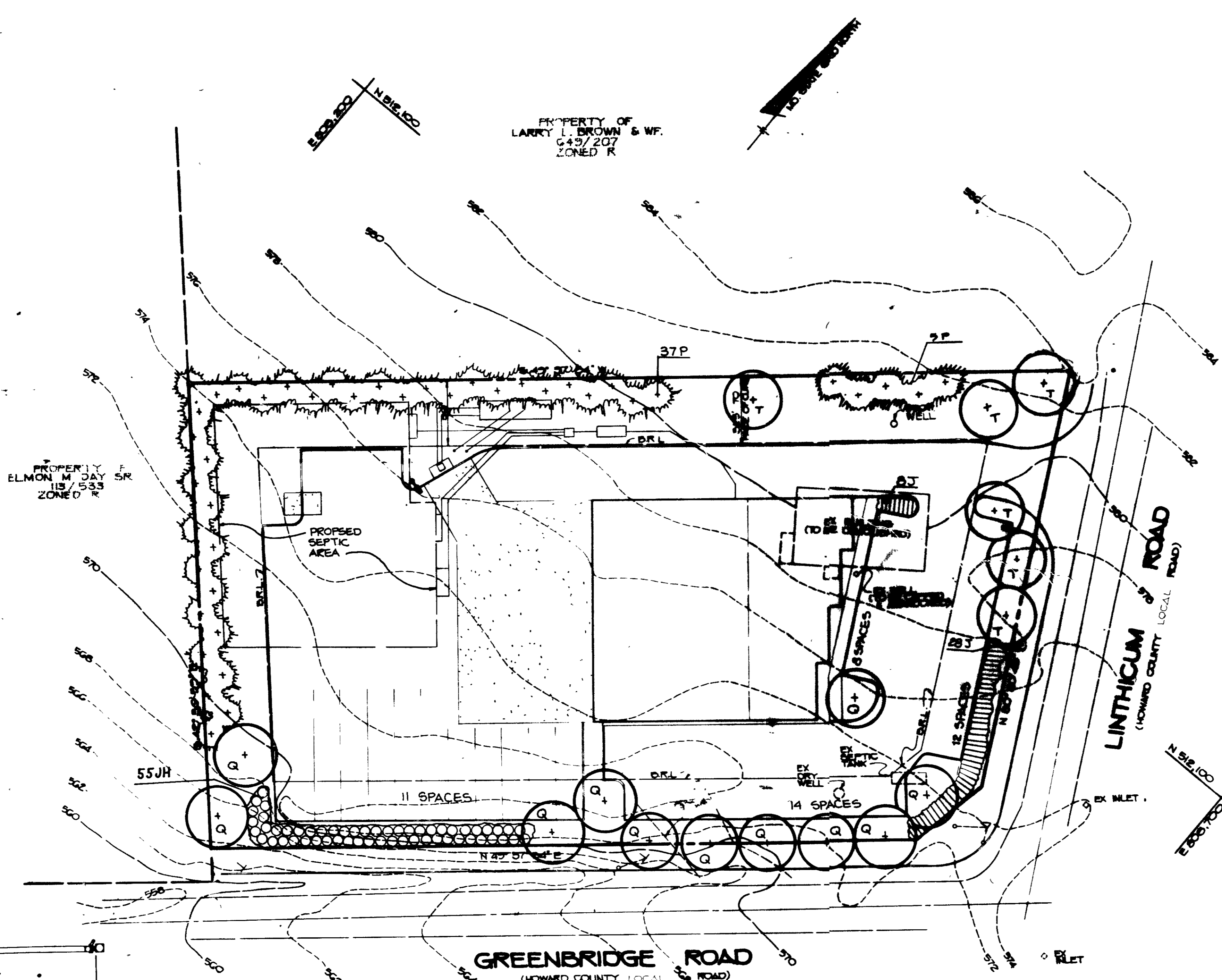
PROJECT NO.

DATE 11-30-88

SCALE 1/4" = 1'-0"

DRAWING NO. S.U. 6

AS-BUILT 11-17-89 SDF 89-04



Qty.	Tree	Remarks
11	QUERCUS COCCINEA Scarlet Oak	8' x 8' Full Seed
42	QUERCUS STROBUS White Pine	6' x 8' Unseeded
6	TILIA CORDATA Littleleaf Linden	8' x 8' Full Seed
55	JUNIPERUS CHIN. 'GLAUCA HETZELI' Hetz Blue Juniper	30" Spd. Cap.
36	JUNIPERUS HORIZ. PLUMOSA (Dep.) Andorra Juniper	18" Spd. Cap.

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

James H. ... 12-14-88
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.

James H. ... 12/14/88
PLANNING DIRECTOR DATE

Marsha S. ... 12-20-88
CHIEF, DIVISION OF COMMUNITY
PLANNING AND LAND
DEVELOPMENT DATE

APPROVED: FOR STORM DRAINAGE SYSTEMS AND
PUBLIC ROADS

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

James H. ... 11/29/88
DIRECTOR DATE

James H. ... 11-29-88
CHIEF, BUREAU OF ENGINEERING DATE

DATE	NO.	REVISION

OWNER/DEVELOPER *

DAYTON DEVELOPMENT GROUP
C/O MR. ROBERT ORNDORFF
PO BOX 5
DAYTON, MARYLAND 21036

PROJECT
A.L.O. SERVICE CENTER

AREA TAX MAP 20 ZONED B-2 PARCEL 25
5TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
LINDER DIST. 2010110

TITLE
PLANTING PLAN AND DETAILS

APPROVED

DIVISION of
COMMUNITY PLANNING
AND LAND DEVELOPMENT

HOWARD COUNTY,
MARYLAND

DATE 9-12-88

Melanie Mober

11-14-88
DATE

DESIGNED BY MM

DRAWN BY CDD

PROJECT NO 88001

SHEET NO 001

Melanie Mober
MELANIE MOBER