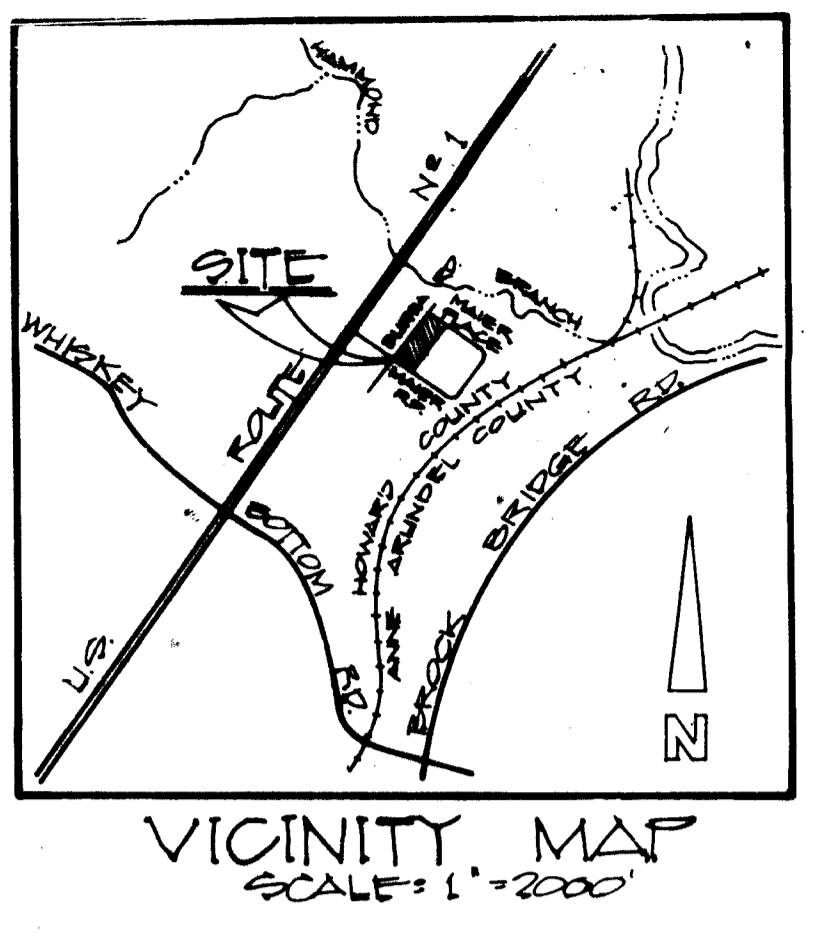


SUBDIVISION NAME	MAIER INDUSTRIAL PARK	SECT. / AREA	SECT. 1	LOT / PARCEL #	PAR. C-4
PLAT # OR L.P. BLOCK #	23	ZONE	M-2	PLU. DIST. CODES	6063
FLAT #	47	MAP	61P		
WATER CODE		SEWER CODE			

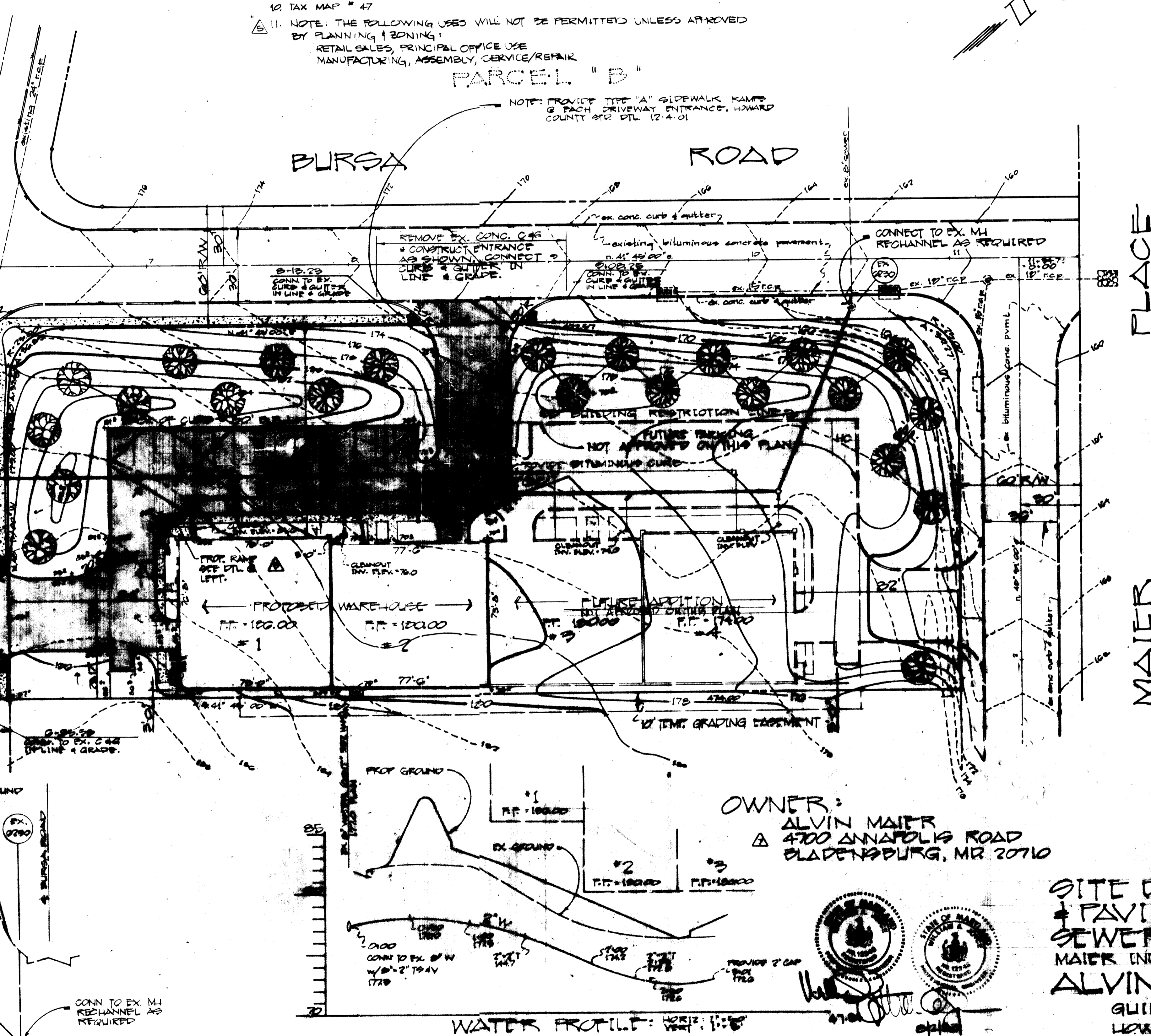
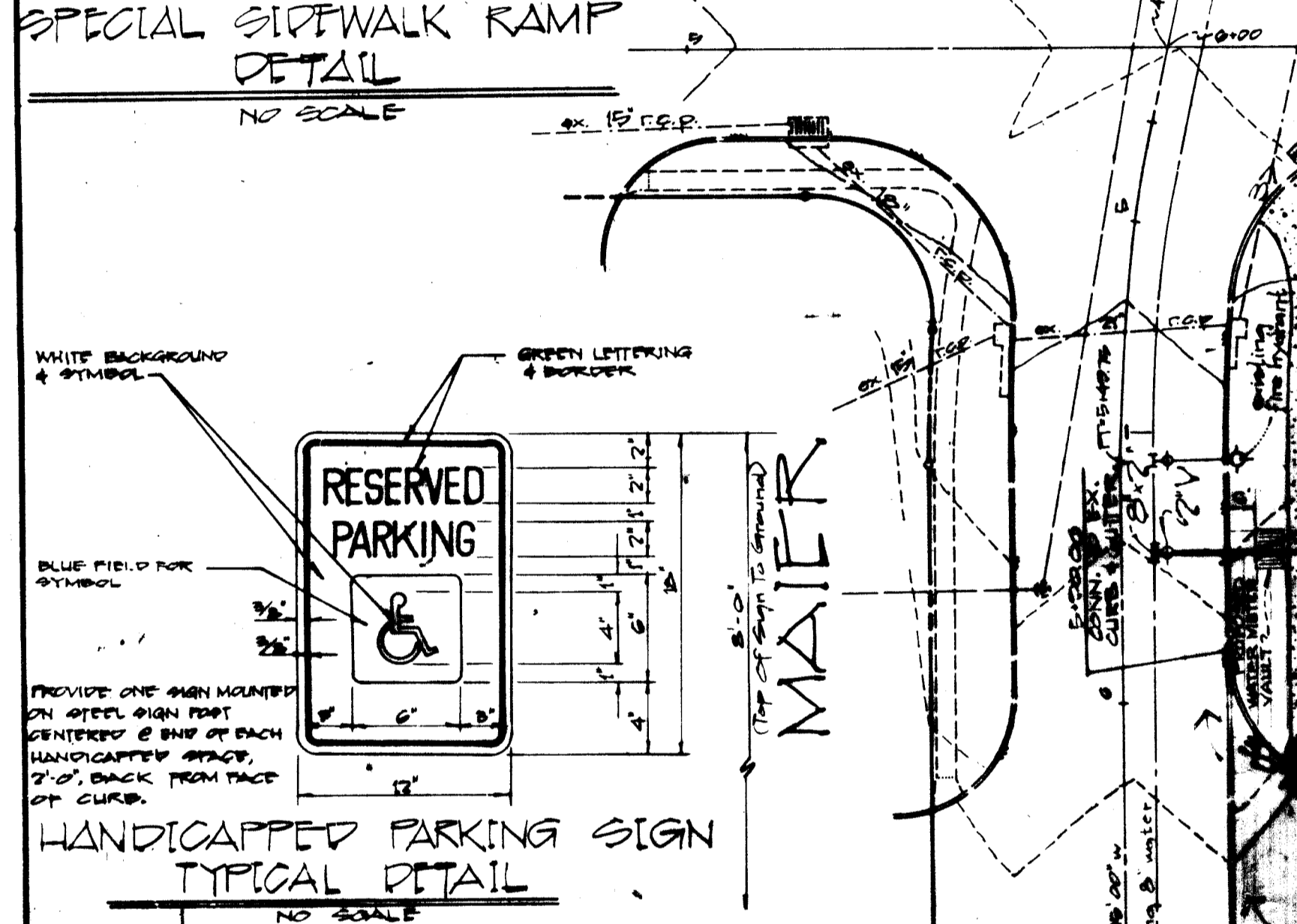
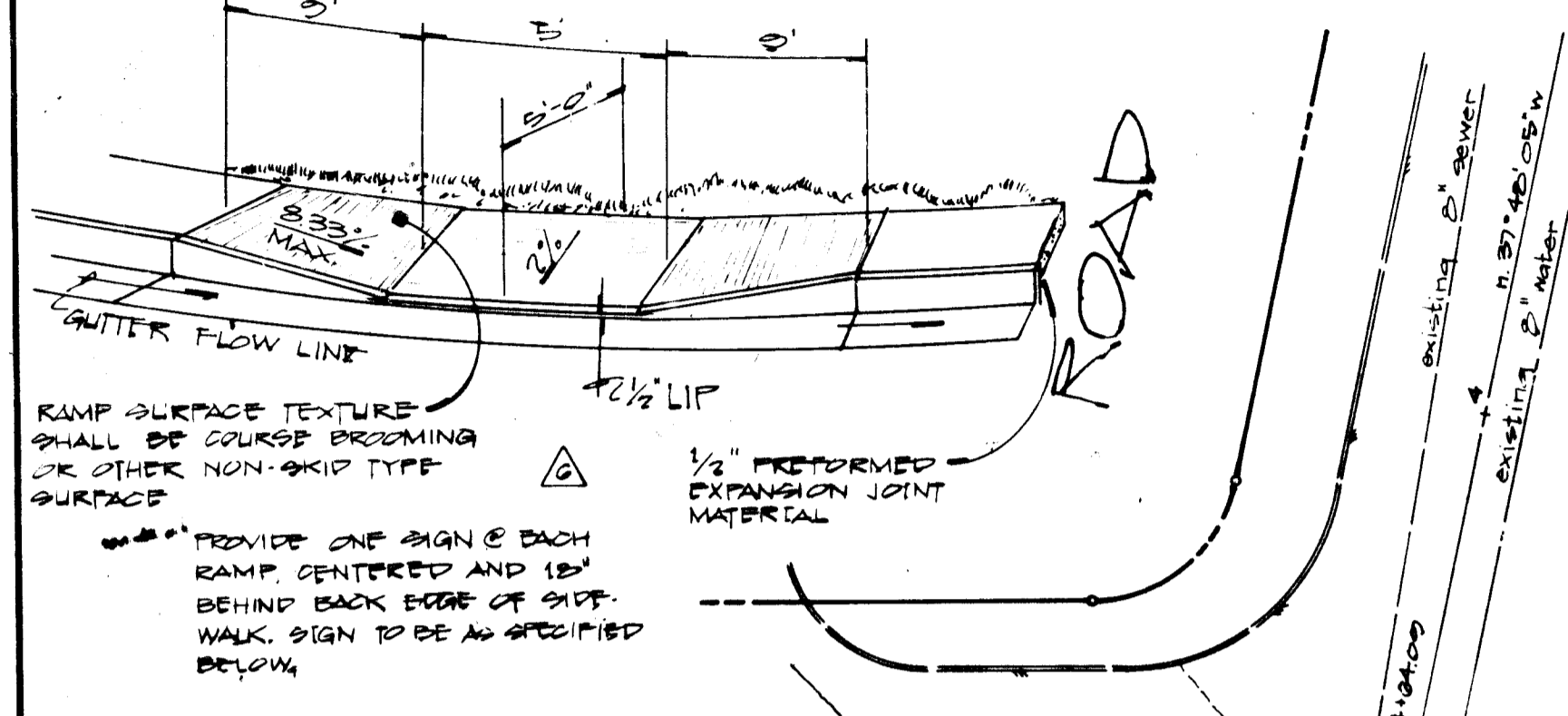
ADDRESS CHART	
LOT NUMBER	STREET ADDRESS
BLDG # 112	9125 BURSA ROAD

### GENERAL NOTES

- THIS SITE AND ALL ADJACENT PROPERTIES ZONED M-2
- TOTAL SITE AREA = 66,000 SF = 1.505 AC.
- TOTAL DISTURBED AREA = 66,000
- TOTAL ON-SITE OPEN SPACE = 62,000
- BUILDING AREA = PROPOSED WAREHOUSE = 11,700 SQ. FT. GROSS, FUTURE WAREHOUSE = 11,700 SQ. FT. GROSS
- DEED REFERENCE: MAIER INDUSTRIAL PARK, PARCEL 'C', LOT C-2
- MAXIMUM NUMBER OF EMPLOYEES / MAJOR SHIFT = 12 / BUILDING # 1 + 12 / BUILDING # 2 = TOTAL OF 24
- REQUIRED PARKING = 1 SPACE / 2 EMPLOYEES PER MAJOR SHIFT = 6 SPACES
- PARKING PROVIDED: 14 REGULAR (10'x18') + 1 HANDICAPPED (12'x18') (PROPOSED WAREHOUSE)  
14 REGULAR (10'x18') + 1 HANDICAPPED (12'x18') (FUTURE WAREHOUSE)
- PAVING TO BE IN ACCORDANCE WITH HOWARD COUNTY STANDARDS & SPECIFICATIONS. ALL EXPOSED CONCRETE TO BE CROWSTILLED & BROOM FINISHED.
- TOPOGRAPHIC SURVEY INFORMATION OBTAINED FROM: GRIMM & PARKER ARCHITECTS, 7600 HANCOCK PKWY, GREENBELT, MD
- ALL SEWER CLEANOUTS ARE TO BE PLACED IN A 24" SQ CONC PIP
- TAX MAP # 47
- NOTE: THE FOLLOWING USES WILL NOT BE PERMITTED UNLESS APPROVED BY PLANNING & ZONING:  
RETAIL SALES, PRINCIPAL OFFICE USE, MANUFACTURING, ASSEMBLY, SERVICE/REPAIR



TYPICAL PAVING SECTION  
40' LRP OR 4" SECTION P-3

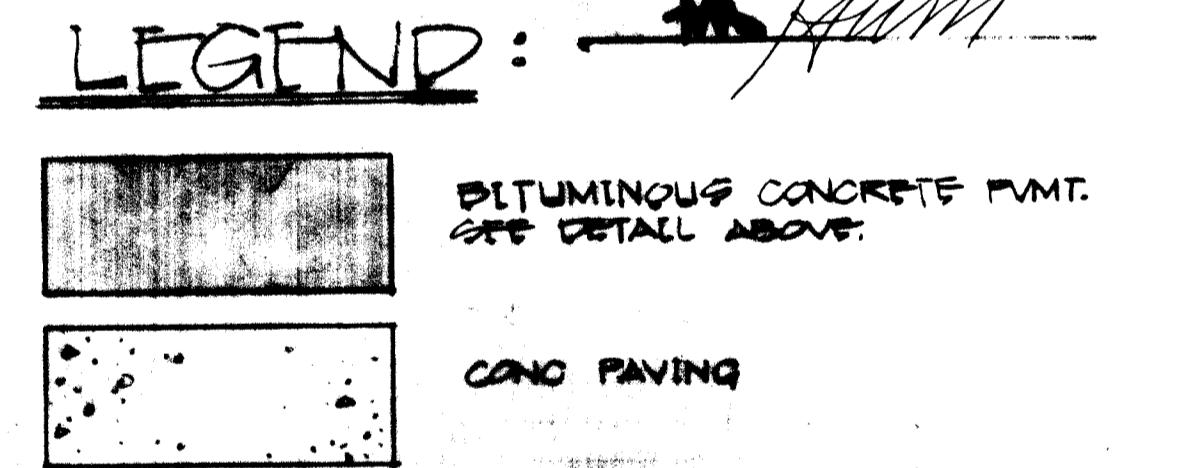


### INDEX-SITE DEVELOPMENT PLANS

SHEET NO.	TITLE
C-1	SITE DEVELOPMENT, ENTRANCE & PAVING, ON-SITE WATER AND SEWER & STORM DRAIN PLAN
C-2	STORM WATER MANAGEMENT PLAN
C-3	SEDIMENT CONTROL PLAN & DETAILS
C-4	SEDIMENT CONTROL NOTES

- NOTE: EXTERIOR LIGHTING SHALL BE DIRECTED OR REFLECTED AWAY FROM ADJACENT PUBLIC ROAD, RIGHT-OF-WAY AND RESIDENTIALLY ZONED PROPERTIES.
- NOTE: FOR DETAILS OF ROOF DRAINS SEE SHEET C-2 AND MECHANICAL PLANS BY ENGINEERS.
- NOTE: PROPOSED 4' WIDE CONC SIDEWALKS HOWARD CO. STD R-305.
- NOTE: ALL PROPOSED CONCRETE CURB & GUTTER SHALL BE HOWARD CO. STD R-201.

APPROVED  
 DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION  
 HOWARD COUNTY, MARYLAND  
 DATE 3-20-84



PROVIDE 2" MIN AS SHOWN TO BE PLACED IN HEIGHT & TO BE PLACED IN THE AS SHOWN. ALSO TO HAVE MIN. THICKNESS OF 2 1/2".

OWNER:  
 ALVIN MAIER  
 4700 ANNAPOLIS ROAD  
 BLADENBURG, MD 20710

WATER PROFILE: 1" = 10'

SEWER PROFILE HORIZ: 1" = 100'

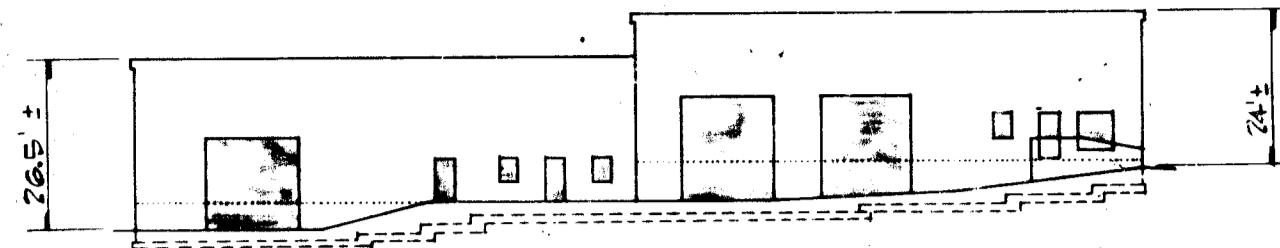
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE & STORM DRAIN SYSTEMS & ROADS  
 HOWARD COUNTY DEPT. OF PUBLIC WORKS  
 DATE 3-28-84  
 CHIEF ENGINEER

APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS  
 HOWARD COUNTY HEALTH DEPT.  
 DATE 6-30-84  
 CHIEF ENGINEER

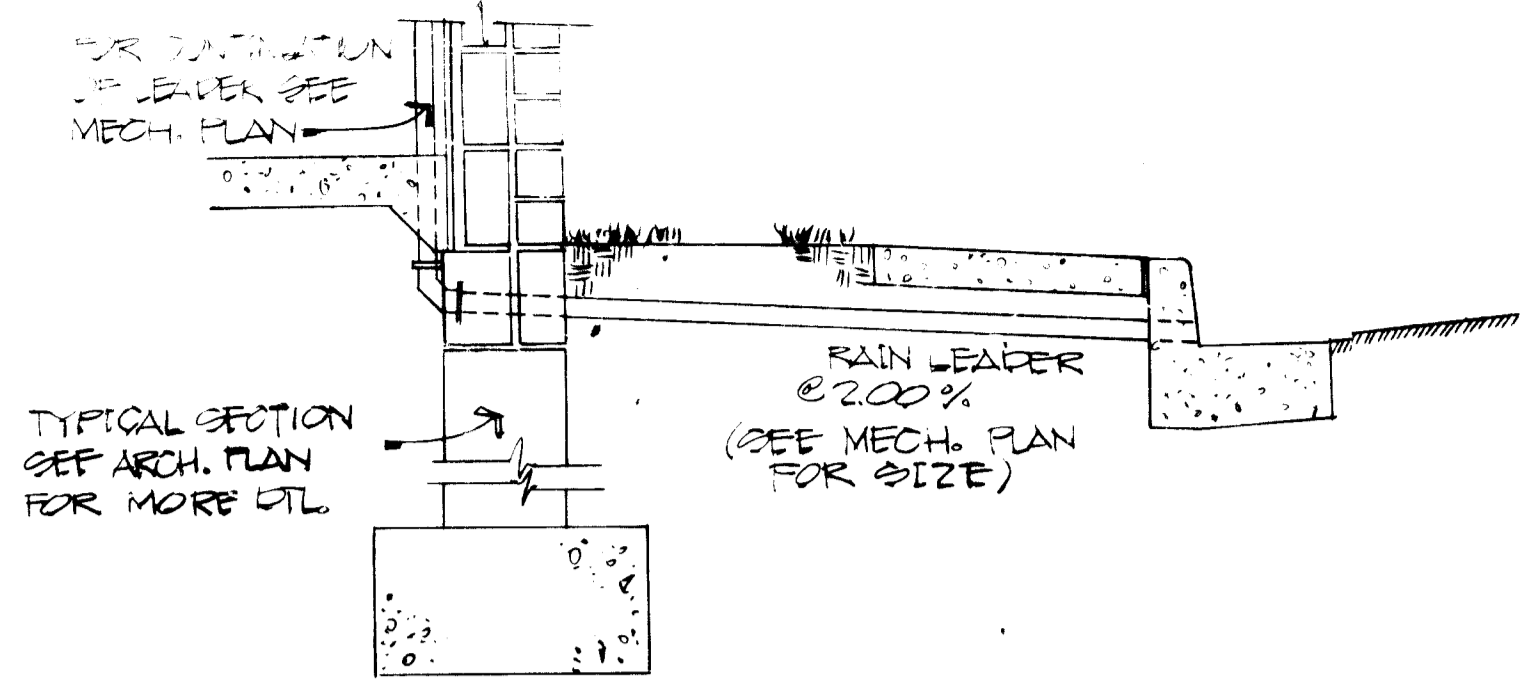
APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING  
 DATE 7-28-84  
 CHIEF ENGINEER

REVISIONS	
NO.	DESCRIPTION

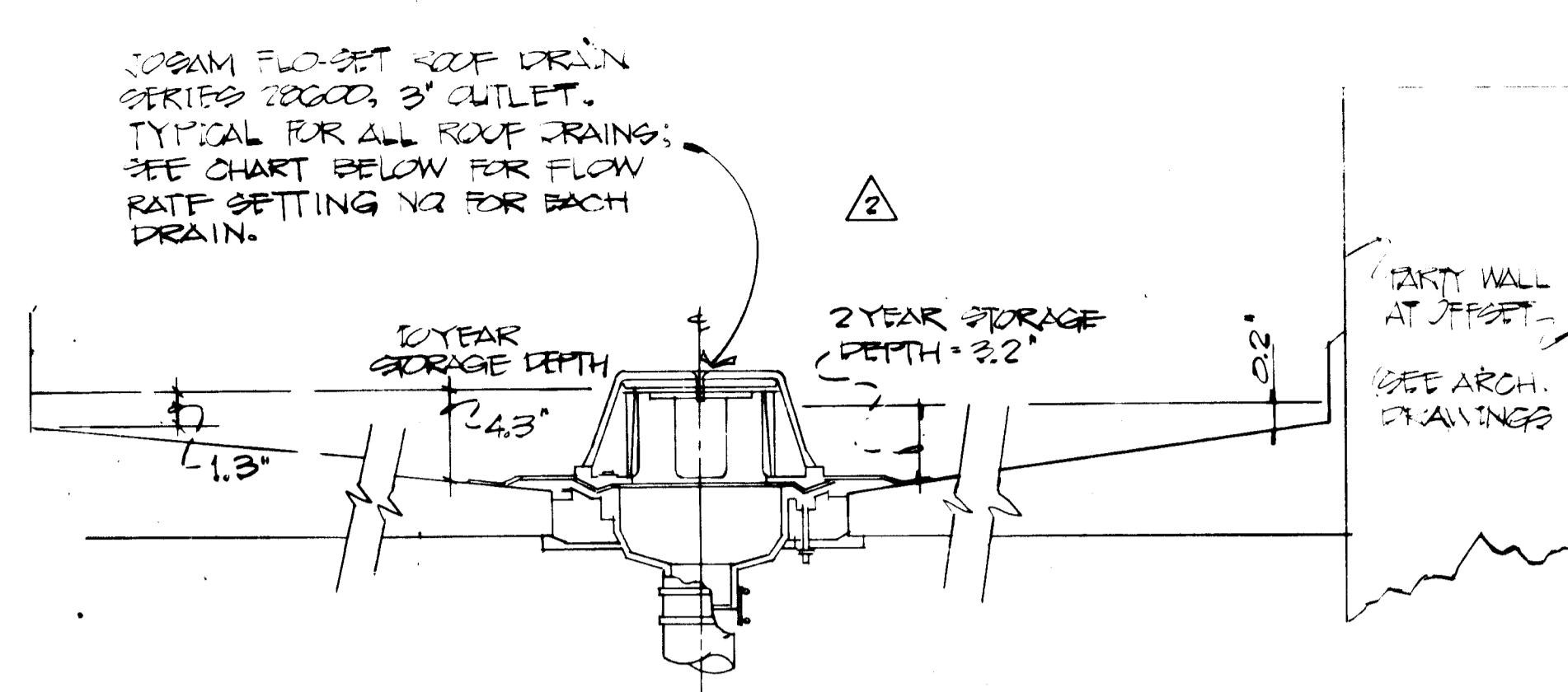
C-1



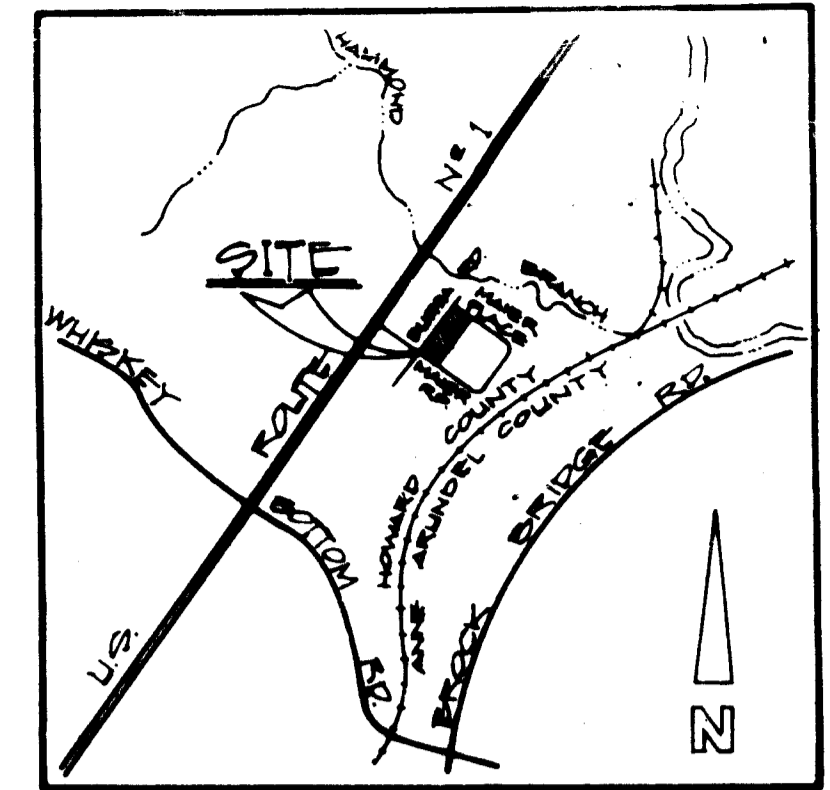
**BUILDING PROFILE  
FRONT ELEVATION**  
NO SCALE



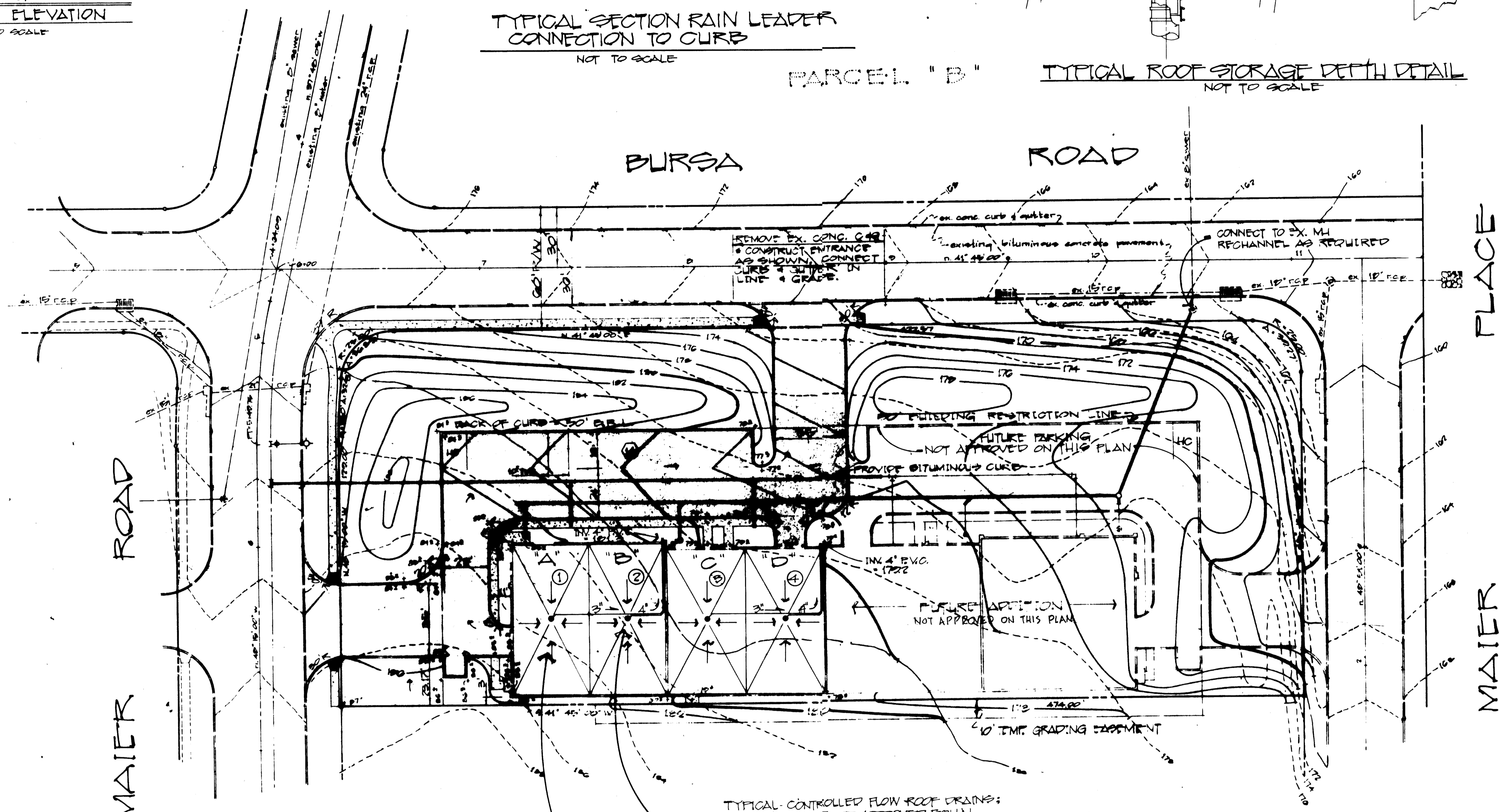
**TYPICAL SECTION RAIN LEADER  
CONNECTION TO CURB**  
NOT TO SCALE



**TYPICAL ROOF STORAGE DEPTH DETAIL**  
NOT TO SCALE



**VICINITY MAP**  
SCALE: 1" = 200'



AREA	NO. OF ROOF PLANES	DRAINAGE AREA (SQ. FT.)	FLOW RATE (GPM)	2 YEARS		10 YEARS	
				FLOW RATE (GPM)	STORAGE (CF)	FLOW RATE (GPM)	STORAGE (CF)
A	1	2050	3	48	375.1	72	618.26
B	2	2690	3	48	375.1	72	618.26
C	3	7850	2	37	332.0	55	547.75
D	4	7850	2	37	332.0	55	547.75
TOTAL		18000		170	1410	254	2332.0

**OWNER:**  
ALVIN MAIER  
4700 ANNAPOLIS ROAD  
BLADENBURG, MD 20710

**APPROVED**  
DIVISION OF LAND DEVELOPMENT &  
ZONING ADMINISTRATION  
HOWARD COUNTY, MARYLAND  
DATE **3-20-84**  
*[Signature]*

	2 YEAR	10 YEAR
<b>EXISTING PEAK DISCHARGE &amp; MAX. RELEASE RATE ALLOWED</b>	1.50 CFS	5.0 CFS
<b>DEVELOPED PEAK DISCHARGE:</b>		
PARKING LOT & GRASS	1.17 CFS	4.5 CFS
BUILDING ROOF	+ 1.03 CFS	+ 2.7 CFS
<b>TOTAL</b>	<b>= 2.20 CFS</b>	<b>= 7.2 CFS</b>
<b>TOTAL SITE</b>		
MAX. RELEASE RATE ALLOWED	1.50 CFS	5.0 CFS
UNCONTROLLED RELEASE RATE FROM PARKING LOT & GRASS	- 1.17 CFS	- 4.5 CFS
<b>MAX. RELEASE RATE FROM ROOF</b>	<b>0.93 CFS</b>	<b>0.5 CFS</b>
MINIMUM STORAGE REQUIRED	1400 CF	2920 CF
TOTAL AREA OF ROOF	= 10,000 SQ. FT.	

TYPICAL - 3' SLOPE FROM RIDGE TO VALLEY OF EACH PLANE OF ROOF; SEE ARCHITECTURAL PLANS FOR DETAILS & EXACT ELEVATIONS.



*[Signature]*  
4-7-84



*[Signature]*  
8/2/84

**STORM WATER MANAGEMENT PLAN**  
MAIER INDUSTRIAL PARK - SECTION 1 PARCEL C-4  
**ALVIN MAIER WAREHOUSE**  
GUILFORD ELECTION DISTRICT #6  
HOWARD COUNTY, MARYLAND  
TAX MAP NO. 47

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE & STORM DRAIN SYSTEMS & ROADS  
HOWARD COUNTY DEPT. OF PUBLIC WORKS  
*[Signature]* 4-28-84  
DATE  
CHIEF BUREAU OF ENGINEERING

APPROVED FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS  
HOWARD COUNTY HEALTH DEPT.  
*[Signature]* 6-30-84  
DATE  
CHIEF HEALTH OFFICER

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING  
*[Signature]* 7-2-84  
DATE  
CHIEF DIVISION OF LAND DEVELOPMENT & ZONING ADMIN. DATE

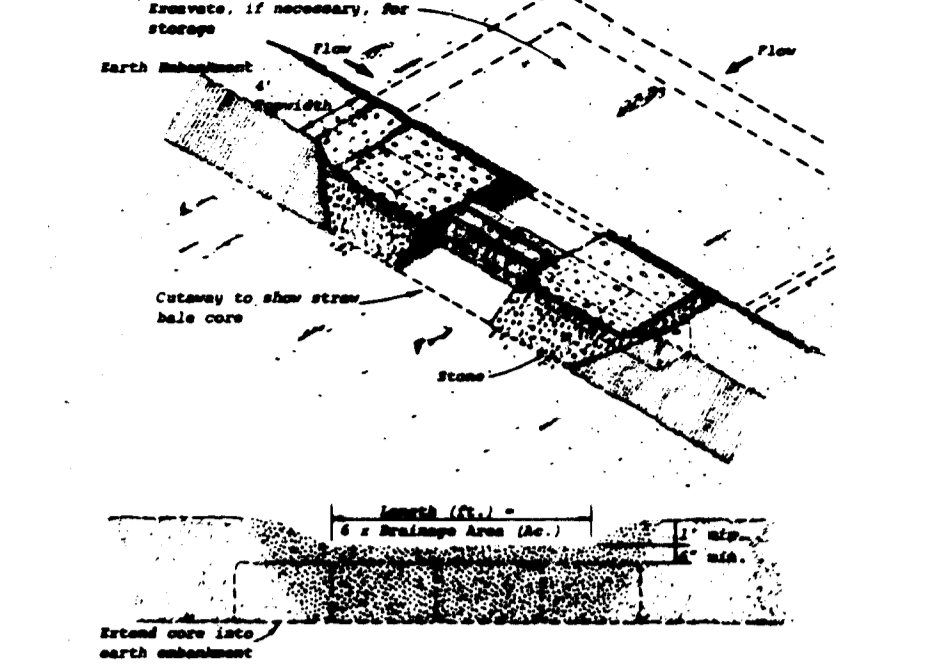
REVISIONS			
DATE	DESCRIPTION	BY	BY
01/11/84	REVISED FIRE WORK	W.A.J.	W.A.J.
11-23-84	REVISED COMPUTATIONS	W.A.J.	W.A.J.

JOYCE ENGINEERING CORPORATION  
Engineers • Planners • Surveyors 801 540-2074  
6000 CHANTRE AVE., BELTSVILLE, MD 20705

500 WAREHOUSE LAMP SHEET 2 OF 4  
SCALE: 1" = 20' L&P NO. 03-030  
3RD FLOOR PLAN FILE NO. 03-030

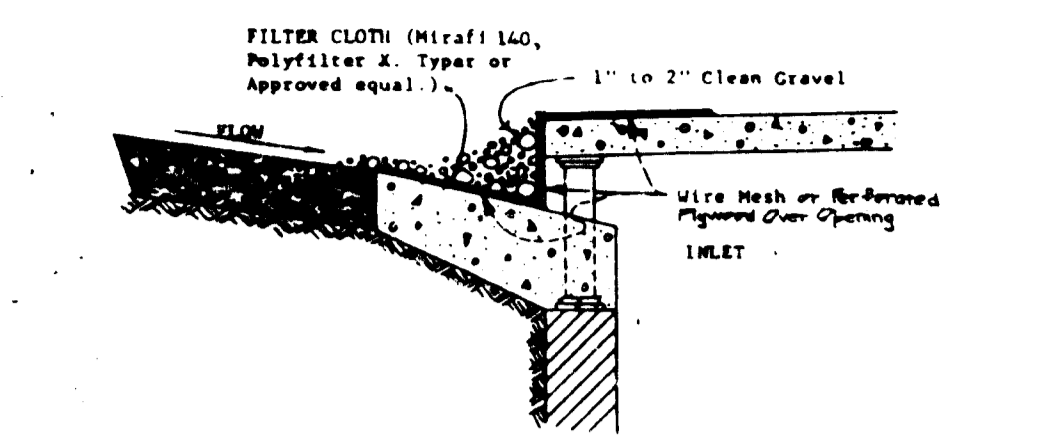
**C-2**

**SILT TRAP DETAIL**

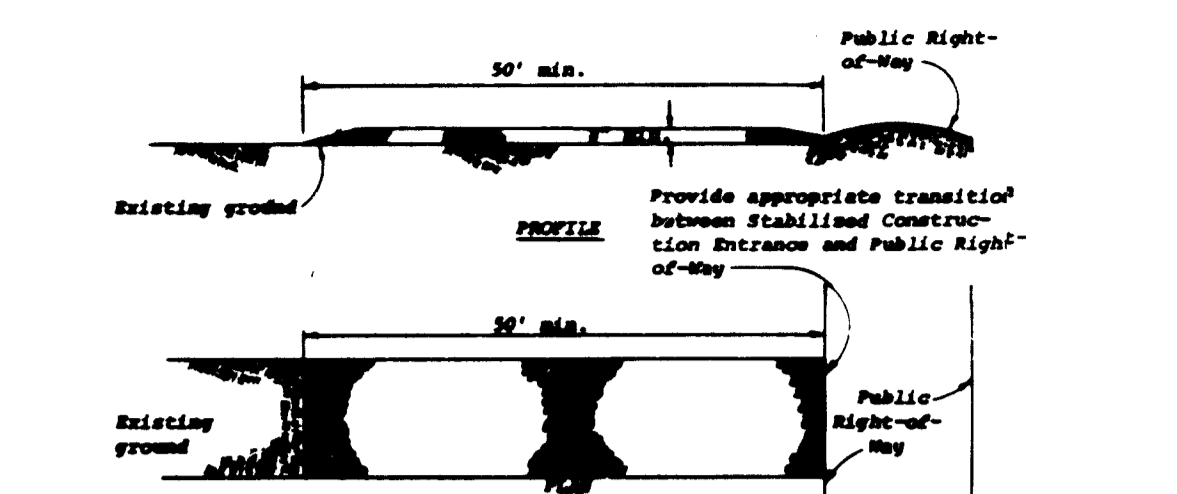


- CONSTRUCTION SPECIFICATIONS**
1. Area under sediment shall be cleared, grubbed and stripped of any vegetation and root mat. The soil area shall be cleaned.
  2. The fill material for the sediment shall be free of roots or other woody vegetation as well as any sized stones, rubble, organic material or other objectionable material. The sediment shall be compacted by treading with equipment while it is being constructed.
  3. Sediment shall be removed and trap returned to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap. Sediment removal shall be done in a suitable area and to such a manner that it will not erode.
  4. The structure shall be lowered after each rain and repairs made as needed.
  5. Construction operations shall be carried out in such a manner that erosion and water pollution is minimized.
  6. The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.
  7. All cut and fill slopes shall be 3:1 or flatter.
  8. The crushed stone used in the walls shall meet ASTM Designation M3, Size No. 2 or 14 or its equivalent such as M33 No. 7. Gravel, meeting the above gradation, may be used if crushed stone is not available. Crushed run is not acceptable.

**CURB INLET PROTECTION DETAIL**

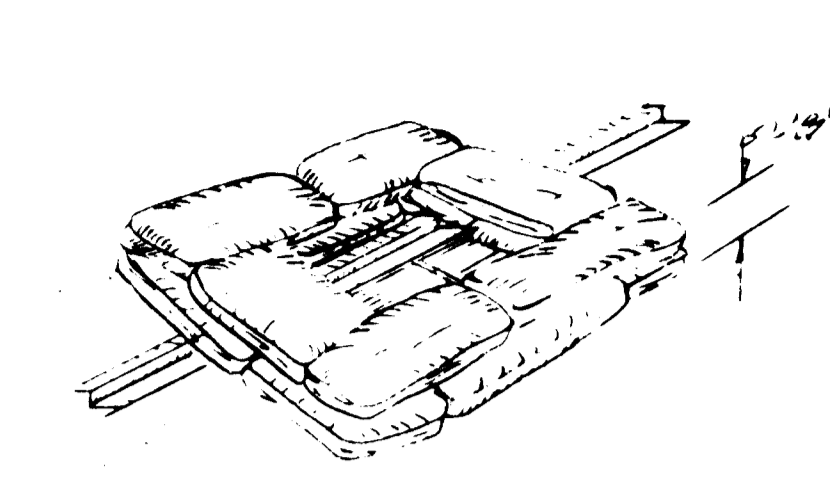


**STABILIZED CONSTRUCTION ENTRANCE**

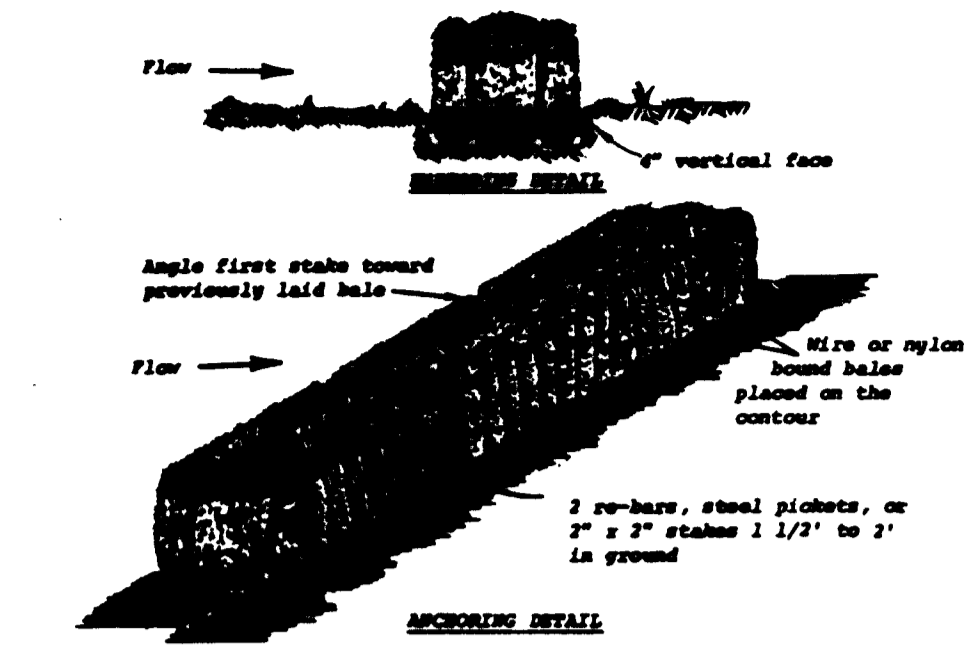


- CONSTRUCTION SPECIFICATIONS**
1. Stone size - Use MMA size No. 2 (2-1/2" to 1") or ASTM Designation M3, size No. 2 (2-1/2" to 1-1/2"). Use crushed stone.
  2. Length - As effective, but not less than 50 feet.
  3. Thickness - Not less than eight (8) inches.
  4. Width - Not less than full width of all points of ingress or egress.
  5. Working - When necessary, wheels shall be cleaned to remove sediment prior to entrance onto public right-of-way. When washing is required, it shall be done on an area stabilized with crushed stone which drains into an approved sediment trap or sediment basin. All sediment shall be prevented from entering any storm drain, ditch, or watercourse through use of sand bags, gravel, boards or other approved methods.
  6. Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public right-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanup of any resources used to trap sediment. All sediment spilled, dropped, washed or tracked onto public right-of-way must be removed immediately.

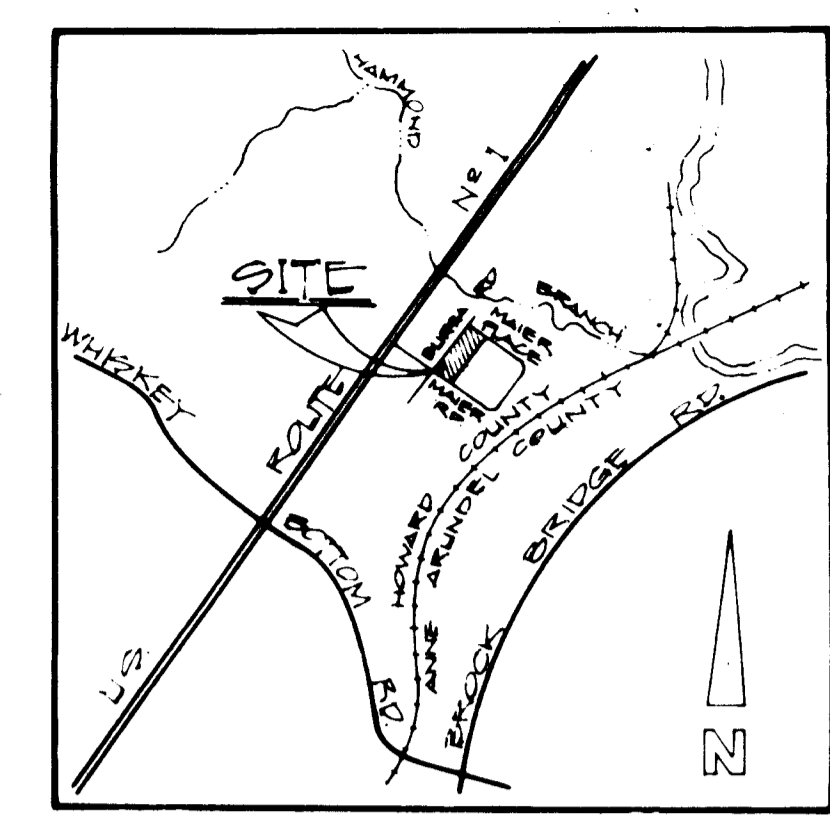
**SAND BAG DETAIL**



**STRAP BALE DETAIL**



- CONSTRUCTION SPECIFICATIONS**
1. Bales shall be placed in a row with ends tightly abutting the adjacent bales.
  2. Each bale shall be embedded in the soil a minimum of 4".
  3. Bales shall be securely embedded in place by stakes or re-bar driven through the bales. The first stake in each bale shall be angled toward previously laid bale to force bales together.
  4. Inspection shall be frequent and repair or replacement shall be made promptly as needed.
  5. Bales shall be removed when they have served their usefulness so as not to block or impede storm flow or drainage.



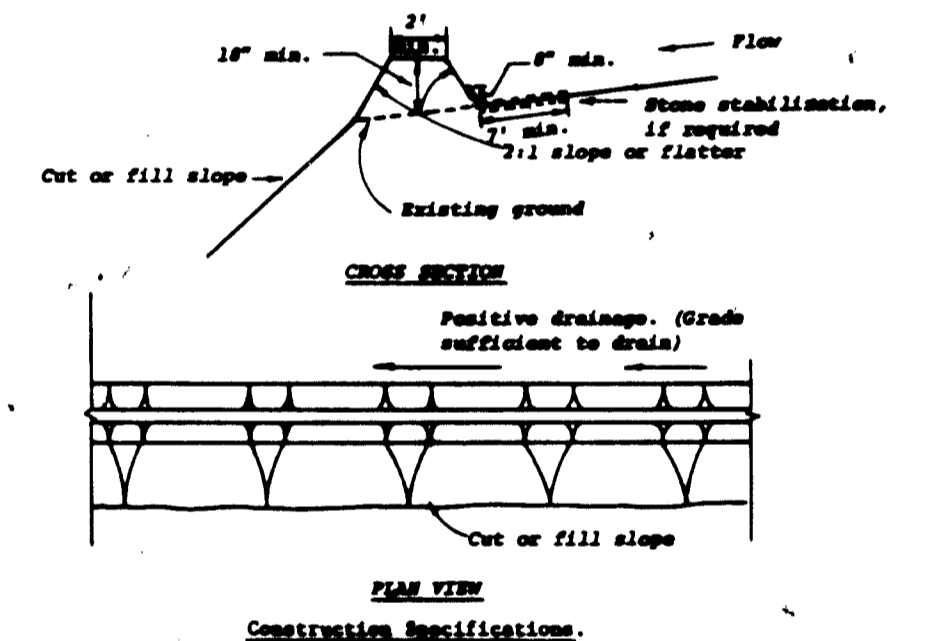
**VICINITY MAP**  
SCALE: 1" = 200'

**SEQUENCE OF CONSTRUCTION**

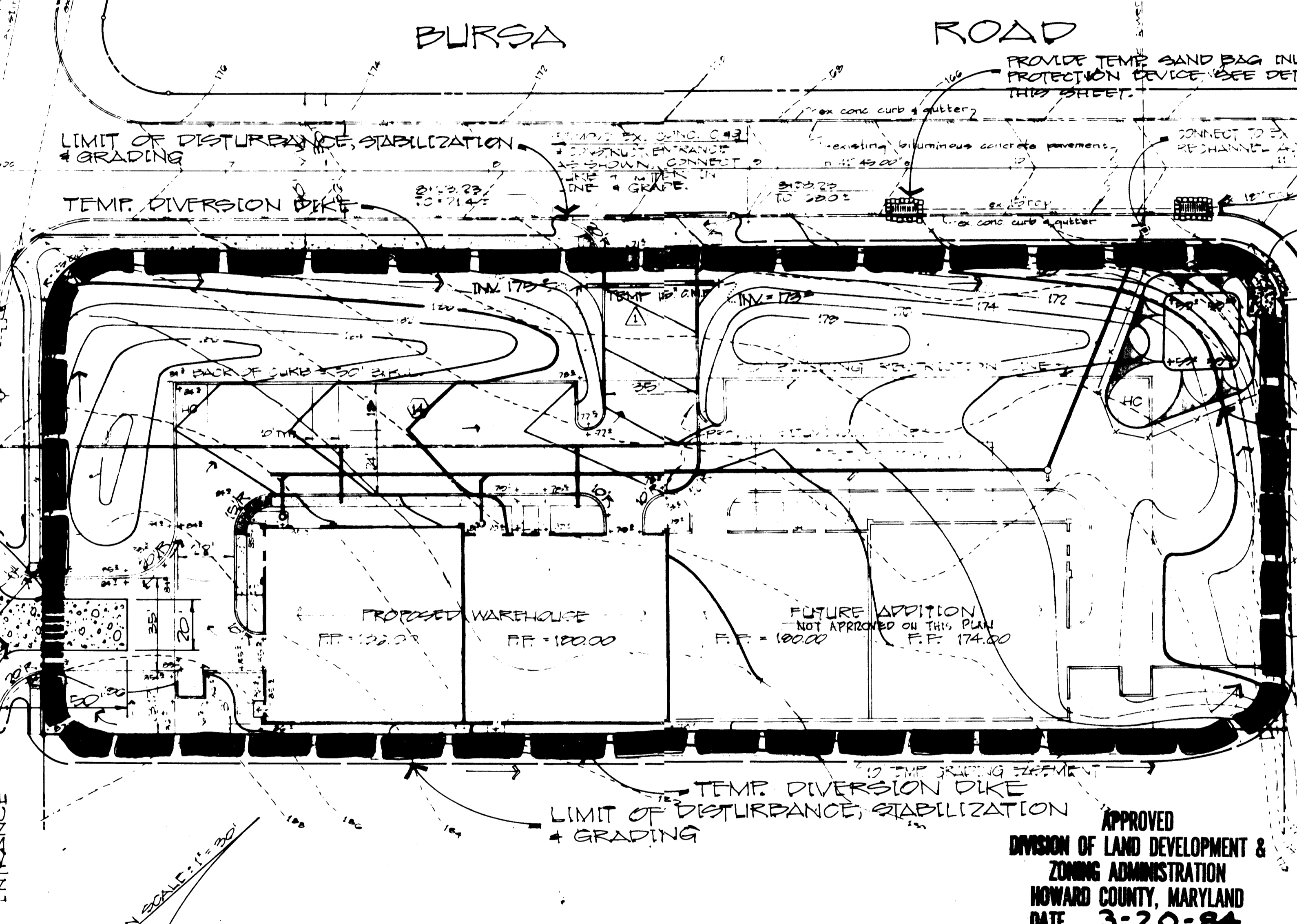
STARTING DATE	FUNCTION	TIME
OCT '83	INSTALL SEDIMENT CONTROL	1 WEEK
OCT '83	ROUGH GRADE SITE	2 WEEKS
NOV '83	START BUILDING CONST.	20 WEEKS
FEB '84	INSTALL WATER & SEWER	1 WEEK
MARCH '84	STABILIZE SITE	1 WEEK
MARCH '84	INSTALL C&G ENTRANCE	2 WEEKS
APRIL '84	FINE GRADE & PAVE SITE	2 WEEKS
MAY '84	RE-STABILIZE BAL. OF SITE	1 WEEK
MAY '84	REMOVE SEDIMENT CONTROL	1 WEEK
	MAINTENANCE CONTINUAL	

NOTE: THE CONTRACTOR MAY BE REQUIRED TO PROVIDE ADDITIONAL CONTROL AROUND THE BUILDING AFTER PAVING AT THE DIRECTION OF ENGINEER.

**TEMP. DIVERSION DIKE**



- CONSTRUCTION SPECIFICATIONS**
1. All dikes shall be machine compacted.
  2. All diversion dikes shall have positive drainage to an outlet.
  3. A. Diverted runoff from a protected or stabilized area shall outlet directly to an undisturbed stabilized area or into a level spreader or grade stabilization structure.
  3. B. Diverted runoff from a disturbed or exposed upland area shall be conveyed to a sediment trapping device such as a sediment trap or a sediment basin or to an area protected by any of these practices.
  4. Stabilization, as specified by the plans, shall be: (1) in accordance with Standard and Specifications for Grassed, Interseed, and the area to be stabilized shall be the channel (flow line); or (2) the flow area shall be lined with stone that meets MMA size No. 1 or ASTM M3 size No. 1 or 24 which is placed in a 3 inch thick layer and pressed into the soil. The area covered by the stone shall be as shown on the drawing above.
  5. Periodic inspection and required maintenance shall be provided.



**OWNER:**  
ALVIN MAIER  
2700 ANNAPOLIS ROAD  
BLADENBURG, MD 20710

**LEGEND:**  
TEMP. DIVERSION DIKE  
TEMP. MOUNTABLE DIV. DIKE  
LIMIT OF DISTURBANCE  
TEMP. 15' G.M.P.

APPROVED  
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION  
HOWARD COUNTY, MARYLAND  
DATE 3-20-84

**SITE ANALYSIS - DISTURBED / IMPERVIOUS AREAS?**

ON-SITE DISTURBED AREA	= 86,900 sq
R/W DISTURBED AREA	= 3,700 sq
TOTAL DISTURBED AREA	= 90,600 sq
ON-SITE IMPERVIOUS AREA (INITIAL)	= 24,000 sq
R/W IMPERVIOUS AREA	= 2,800 sq
TOTAL IMPERVIOUS AREA	= 26,800 sq
ON-SITE STABILIZED W/VEGETATION	= 62,900 sq
R/W STABILIZED W/VEGETATION	= 900 sq
TOTAL AREA STABILIZED W/VEGETATION	= 63,800 sq

**SEDIMENT & EROSION CONTROL PLAN & DETAILS**  
MAIER INDUSTRIAL PARK - SECTION 1 PARCEL C-4  
**ALVIN MAIER WAREHOUSE**  
GUILFORD ELECTION DISTRICT #6  
HOWARD COUNTY, MARYLAND  
TAX MAP NO. 27

**ENGINEER'S CERTIFICATE:**  
I, THE ENGINEER, CERTIFY THAT ALL DEVELOPMENT WILL BE DONE ACCORDING TO THIS PLAN AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION OF THIS PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES TRAINING PROGRAM FOR THE CONTROL OF EROSION & EROSION BEFORE BEGINNING THE PROJECT.  
DATE 7-2-84  
SIGNATURE: [Signature]

**ENGINEER'S CERTIFICATE:**  
I, THE ENGINEER, CERTIFY THAT THIS PLAN FOR SEDIMENT & EROSION CONTROL REPRESENTS A WORKABLE AND PRACTICAL PLAN BASED ON MY PERSONAL KNOWLEDGE OF SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF HOWARD COUNTY SOIL CONSERVATION DISTRICT.  
DATE 8-2-83  
SIGNATURE: [Signature] MR. P.E. #2243

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE & STORM DRAIN SYSTEMS & ROADS  
HOWARD COUNTY DEPT. OF PUBLIC WORKS  
DATE 6-28-84  
SIGNATURE: [Signature] CHIEF BUREAU OF ENGINEERING

APPROVED FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS  
HOWARD COUNTY HEALTH DEPT.  
DATE 6-30-84  
SIGNATURE: [Signature] HEALTH OFFICER

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING  
DATE 7-28-84  
SIGNATURE: [Signature] PLANNING DIRECTOR

**REVISIONS**

DATE	DESCRIPTION	BY
10-11-83	ADDED ENTRANCE	MAJ
10-11-83	ADDED BOUNDARY	MAJ
10-11-83	CHANGED CRUISE AND ADDED NOTE	MAJ

**JOYCE ENGINEERING CORPORATION**  
Engineers • Planners • Surveyors (301) 246-3074  
8090 BUNNYSIDE AVE. BELTFRERE, MD 20705

