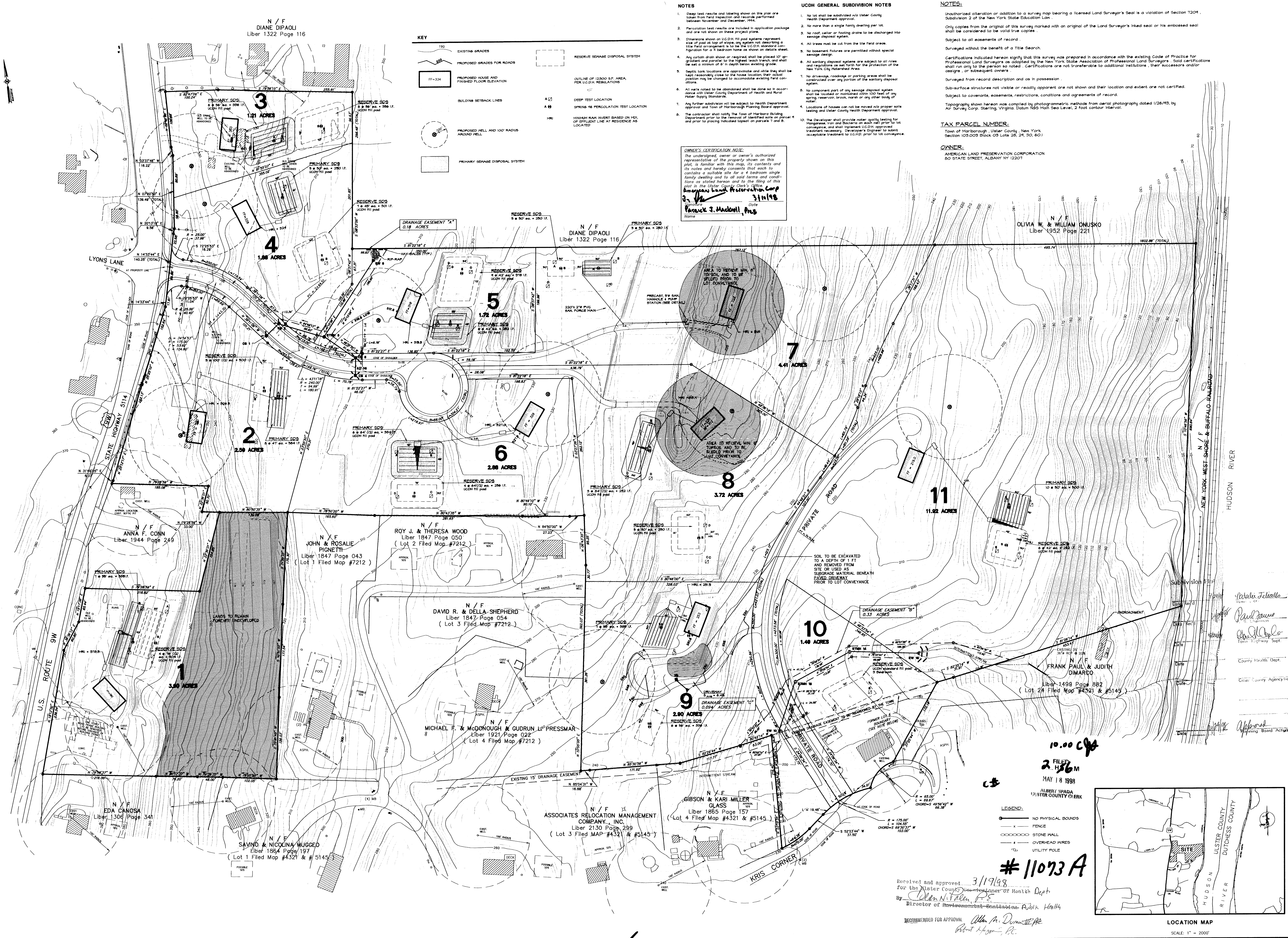


#11073A



- NOTES:**
1. Deep test results and labeling shown on the plan are taken from field inspection and records performed between November and December, 1988.
  2. Percolation test results are included in application package and are not shown on this project plan.
  3. Dimensions shown on U.C.D.H. fill pad systems represent the size of pad at top of slope, any system not exceeding a 1:1 slope arrangement to be used for U.C.D.H. disposal is not shown on this project plan.
  4. Any certain drain shown or required shall be placed 10' up gradient and parallel to the highest trench and shall be set a minimum of 6" in depth below existing grade.
  5. Septic tank locations are approximate and while they shall be kept reasonably close to the house location, their actual position may be changed to accommodate existing field conditions.
  6. All notes noted to be abandoned shall be done so in accordance with Ulster County Department of Health and Rural Water Supply Standards.
  7. Any further subdivision will be subject to Health Department approval and Town of Marlborough Planning Board approval.
  8. The contractor shall notify the Town of Marlborough Building Department prior to the removal of identified wells on parcels 1 and 2 and prior to placing indicated disposal on parcels 1 and 2.
- UCDH GENERAL SUBDIVISION NOTES**
1. No lot shall be subdivided into Ulster County Health Department approved.
  2. No more than a single family dwelling per lot.
  3. No roof cellar or footing drains to be discharged into sewage disposal system.
  4. All trees must be cut from the site field area.
  5. No basement fixtures are permitted without special sewage design.
  6. All sanitary disposal systems are subject to all rules and regulations as set forth for the protection of the New York City Watershed Area.
  7. No drainage, roadways or parking areas shall be constructed over any portion of the sanitary disposal system.
  8. No component part of any sewage disposal system shall be located or maintained within 100' of any existing, proposed, creek, marsh or any other body of water.
  9. Location of houses can not be moved into proper soils testing and Ulster County Health Department approval.
  10. The Developer shall provide water quality testing for hydrogen, iron and bacteria on each well prior to lot conveyance, and shall implement U.C.D.H. approved treatment necessary. Developer's Engineer to submit acceptable treatment to U.C.D.H. prior to lot conveyance.

**OWNER'S CERTIFICATION NOTE:**

The undersigned, owner or owner's authorized representative of the property shown on this plan, is familiar with this map, its contents and its notes and hereby certifies that each lot contains a suitable site for a 4 bedroom single family dwelling and to all said terms and conditions as stated herein and to the filing of this plan in the Ulster County Clerk's Office.

*American Land Preservation Corp.*  
*Frank J. Macdonell, Pres.*  
Date: 3/19/98

**NOTES:**

Unauthorized alteration or addition to a survey map bearing a licensed Land Surveyor's Seal is a violation of Section 1209, Subdivision 2 of the New York State Education Law.

Only copies from the original of this survey marked with an original of the Land Surveyor's linked seal or his embossed seal shall be considered to be valid true copies.

Subject to all easements of record.

Surveyed without the benefit of a Title Search.

Certifications indicated hereon signify that this survey was prepared in accordance with the existing Code of Practice for Professional Land Surveyors as adopted by the New York State Association of Professional Land Surveyors. Said certifications shall not only to the person so noted. Certifications are not transferable to additional institutions, their successors and/or assigns, or subsequent owners.

Surveyed from record description and as in possession.

Sub-surface structures not visible or readily apparent are not shown and their location and extent are not certified. Subject to covenants, easements, restrictions, conditions and agreements of record.

Topography shown hereon was compiled by photogrammetric methods from aerial photography dated 1/26/83, by Air Survey Corp., Sterling, Virginia. Datum: NAD 83 Mean Sea Level, 2 foot contour interval.

**TAX PARCEL NUMBER:**

Town of Marlborough, Ulster County, New York  
Section 129.029 Block 03 Lots 25, 24, 30, 601

**OWNER:**

AMERICAN LAND PRESERVATION CORPORATION  
80 STATE STREET, ALBANY NY 12201

**LEGEND:**

- NO PHYSICAL BOUNDS
- FENCE
- STONE WALL
- OVERHEAD WIRES
- UTILITY POLE

**#11073A**

Received and approved 3/19/98  
For the Ulster County Department of Health Dept.  
By *Allen N. Peller, P.E.*  
Director of Environmental Sanitation & Public Health

RECOMMENDED FOR APPROVAL *Allen M. Donnell, Jr.*  
*Robert H. Hagan, Jr.*

**LOCATION MAP**

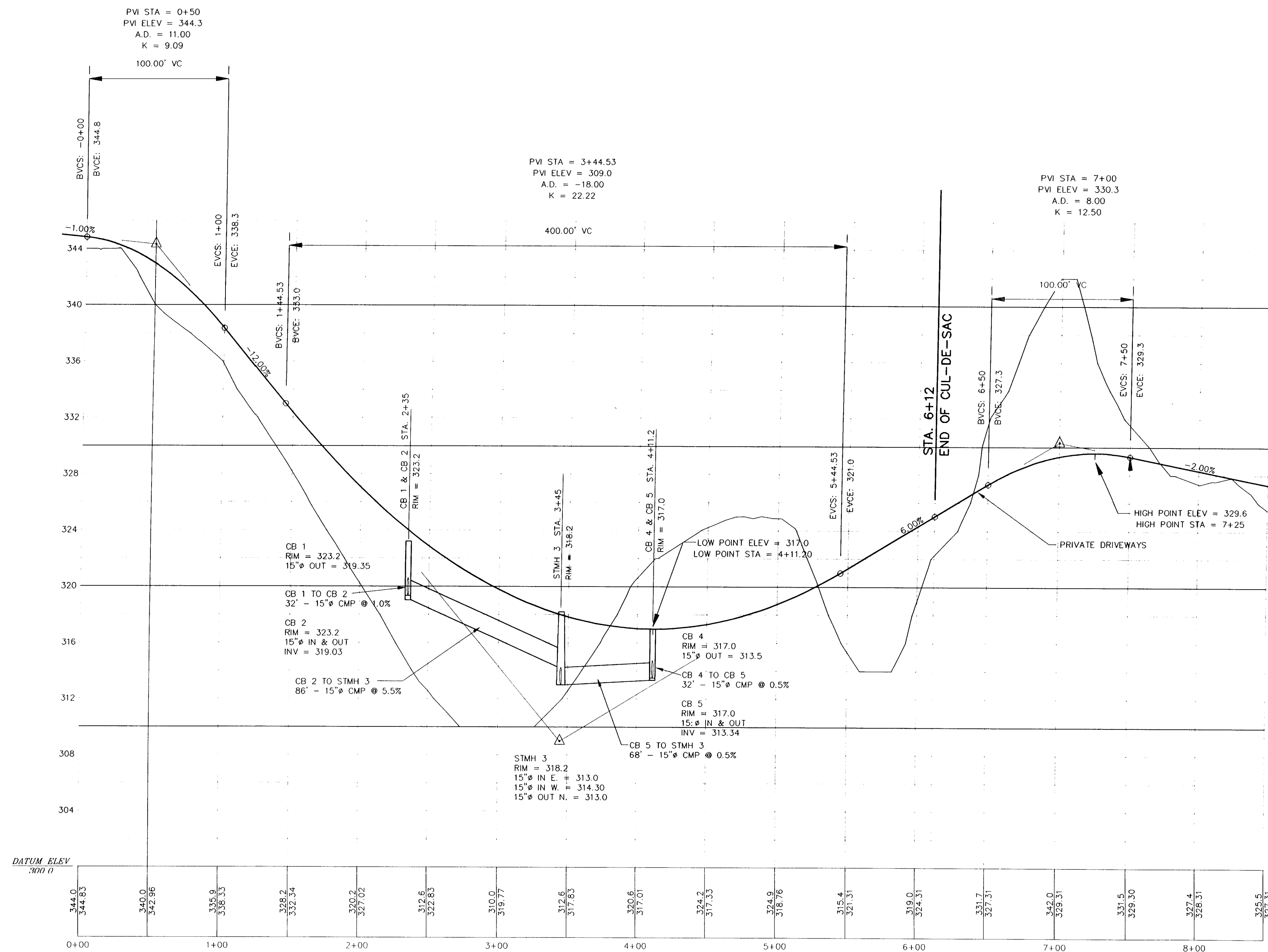
SCALE: 1" = 2000'

**1 OF 4**

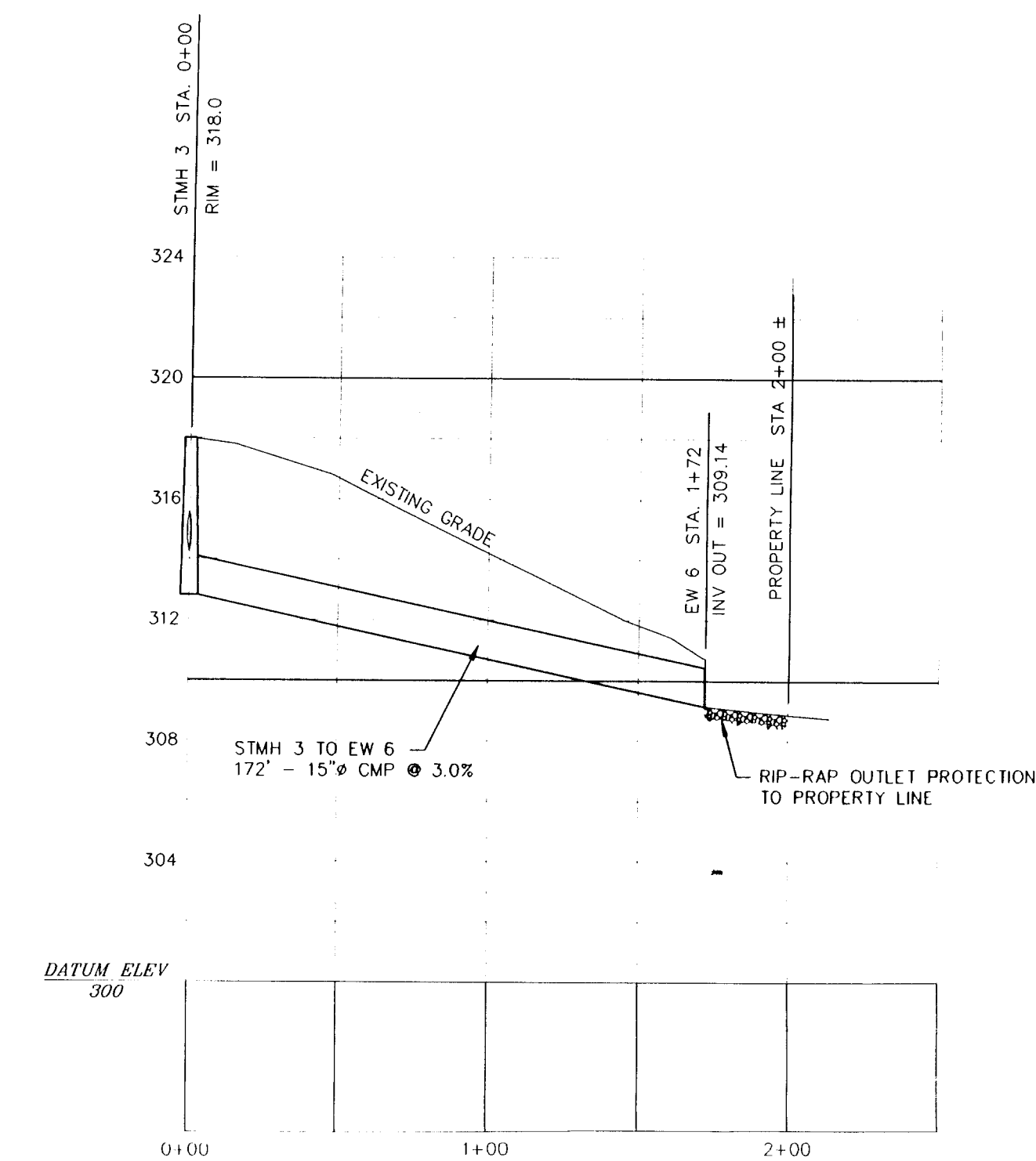
designed by: R.E.M. 5/14/96  
checked by: R.M. 5/8/96  
drawn by: M.L.M. 5/8/96  
project no: 59237



#11073 B



ROAD A & DRAINAGE - PROFILE

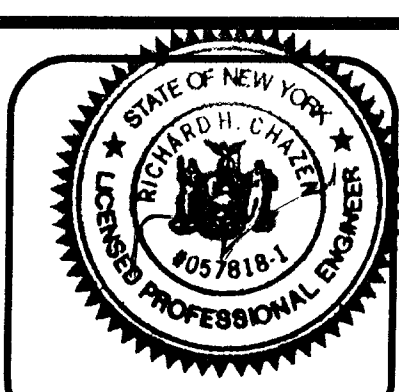
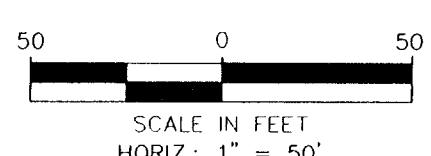


DRAINAGE EASEMENT PROFILE  
STMH 3 TO EW 6

FILED  
2-15-96  
MAY 18 1996  
ALBERT SPADA  
ULSTER COUNTY CLERK

#11073 B

10.00 cfs



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THE  
Chazen  
COMPANIES  
Engineers/Surveyors  
Planners  
Environmental Scientists

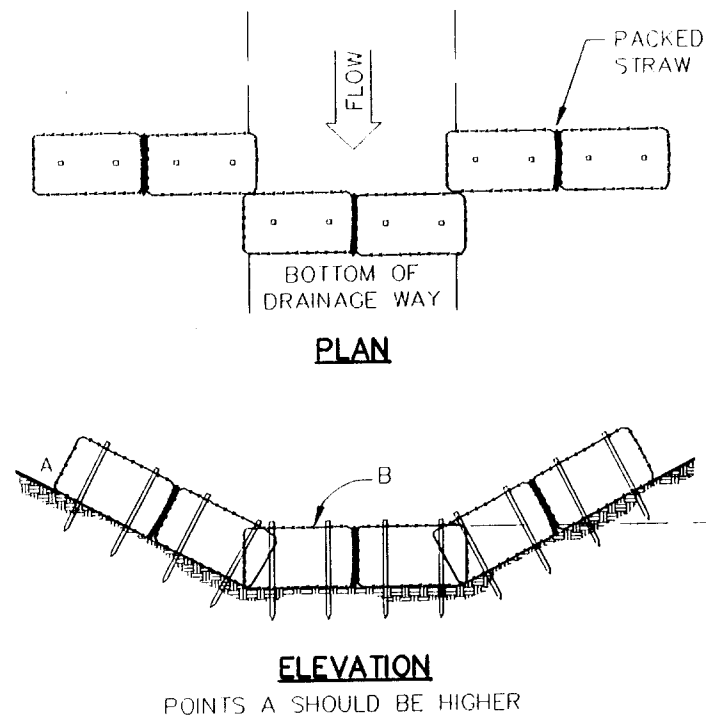
CHAZEN ENGINEERING & LAND SURVEYING CO., P.C.  
Ulster County Office  
1401 Route 9, Box 2  
Poughkeepsie, New York 12601  
Phone: (518) 854-3300  
Ulster County Office  
1401 Route 9, Box 2  
Poughkeepsie, New York 12601  
Phone: (518) 854-3300  
Capital District Office  
1401 Route 9, Box 2  
Poughkeepsie, New York 12601  
Phone: (518) 854-3300

rev.	date	description
1	02/21/97	PER PLANNING BOARD REVIEW
2	12/03/96	PER USDA REVIEW
3	8/8/96	PER USDA REVIEW
4	6/18/96	NEW SHEET

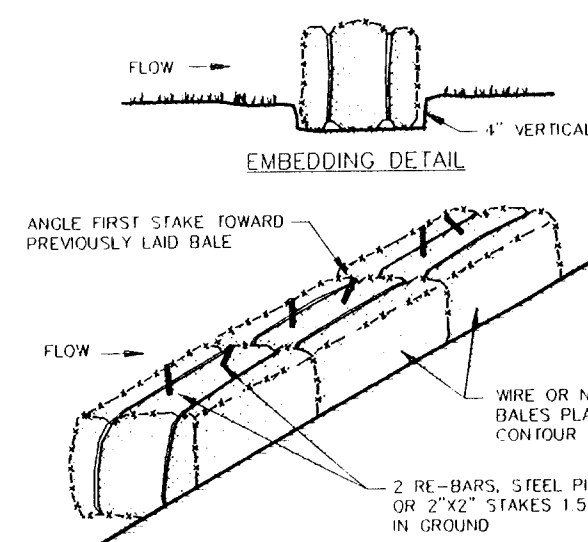
AMERICAN LAND PRESERVATION CORPORATION  
ROAD & DRAINAGE PROFILES  
ROUTE 9W, MARLBOROUGH, ULSTER COUNTY, NEW YORK

sheet no	2 OF 4
designed by	R.H.C.
checked by	R.H.C.
drawn by	K.M.H.
project no	59237

#11073C

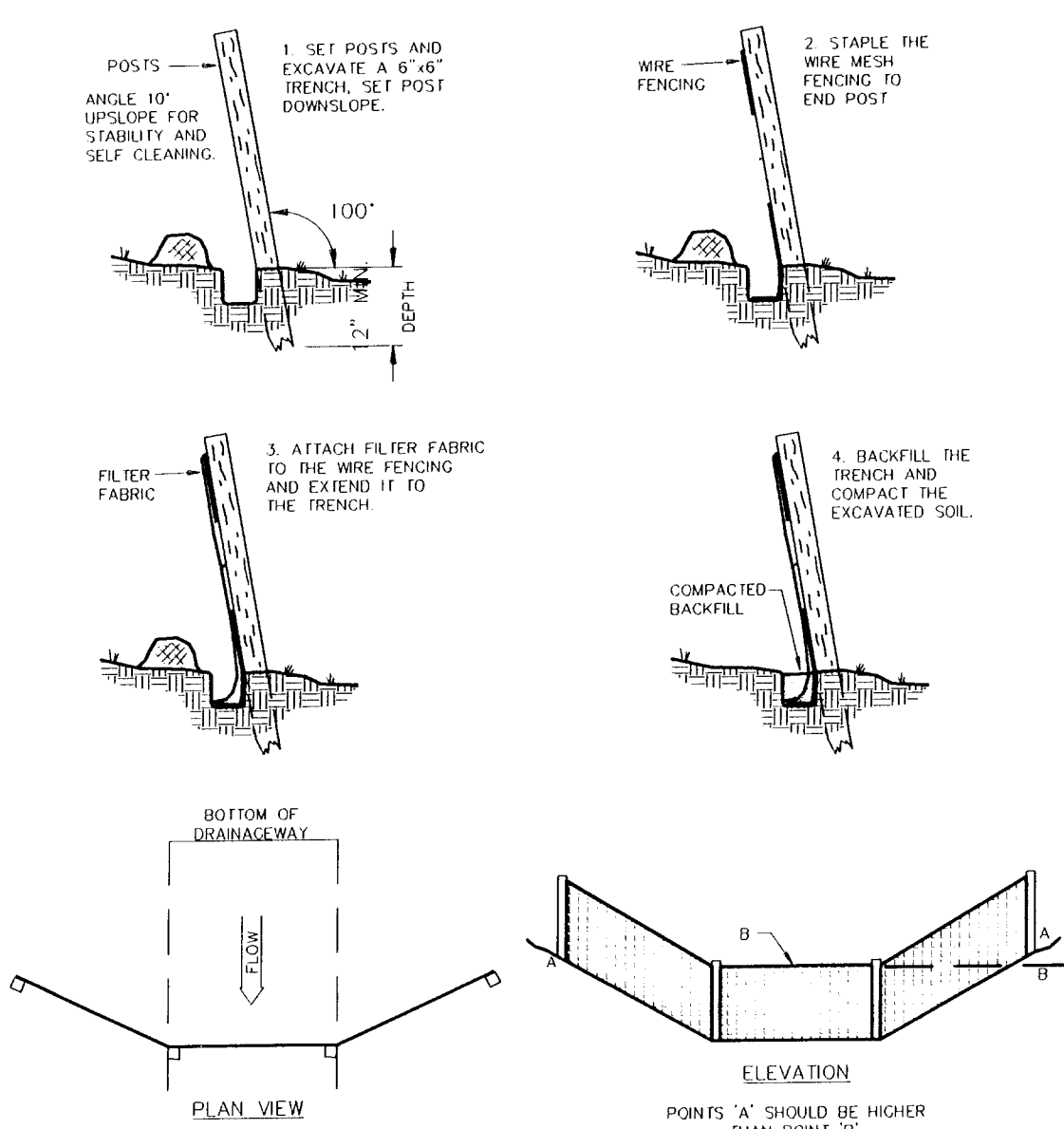


PLACEMENT AND CONSTRUCTION OF A STRAW BALE BARRIER

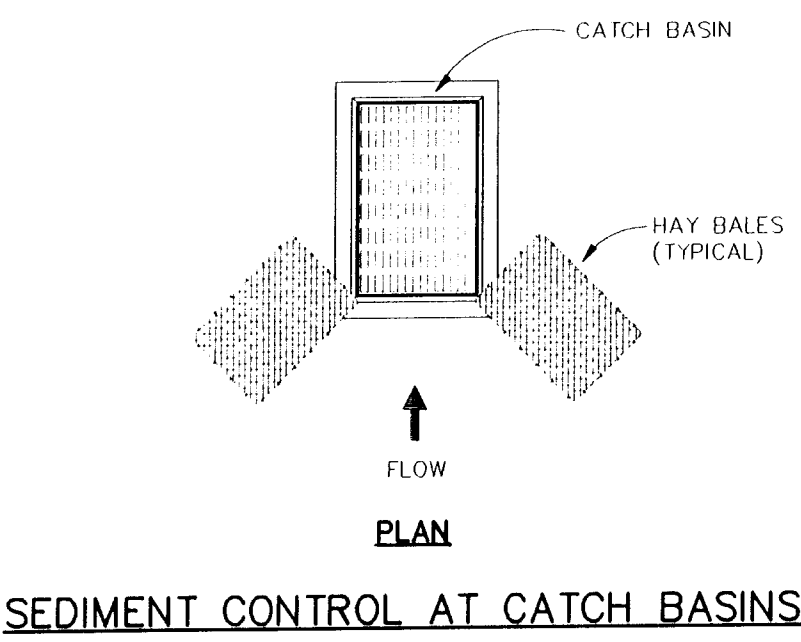


- CONSTRUCTION SPECIFICATIONS
1. BALES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
  2. EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 4".
  3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY STAKES OR REBAR DRIVEN THROUGH THE BALES. THE FIRST STAKE IN EACH BALE SHALL BE ANGED 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 IMPED STORM FLOW OR DRAINAGE.

HAY BALE DETAIL © 1991/DELS  
STRAW BALE SEDIMENT BARRIERS



PLACEMENT AND CONSTRUCTION OF A SYNTHETIC FILTER BARRIER © 1991/DELS

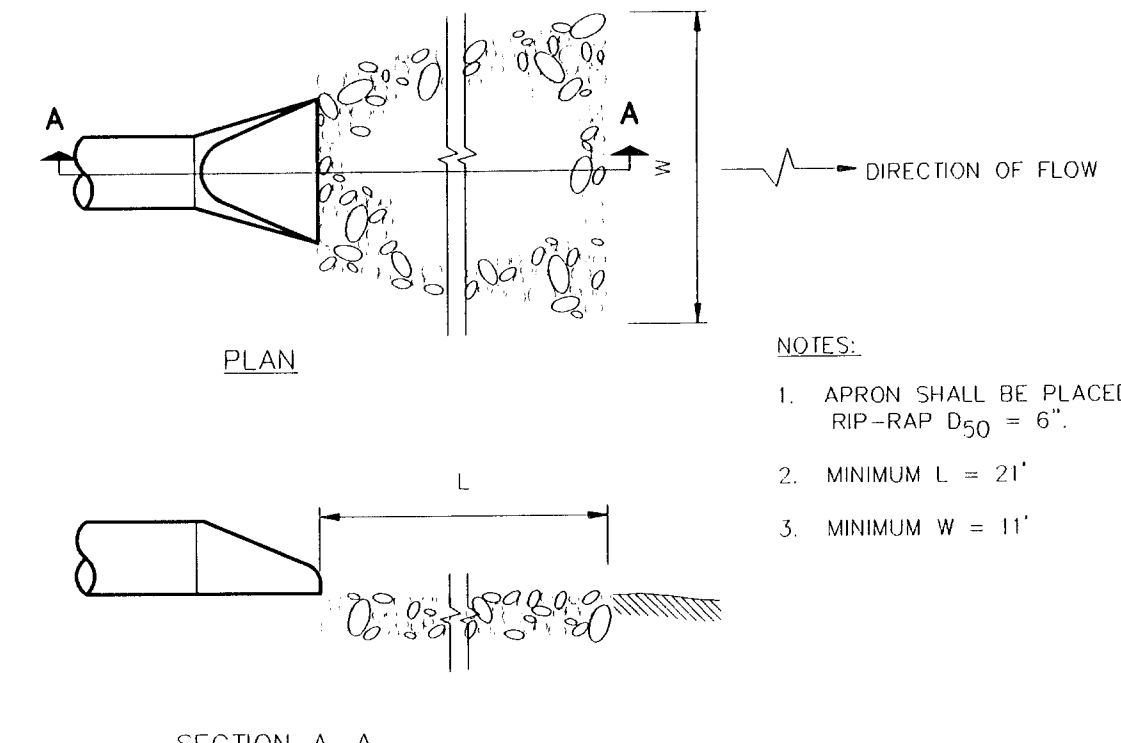


SEDIMENT CONTROL AT CATCH BASINS

1. MINIMUM DEPTH OF SWALE SHALL BE 12".
2. SWALE SHALL BE AT LEAST 4 FEET WIDE AT TOP.
3. SWALE SHALL BE SEEDED AND MULCHED WITH FAST GERMINATING RYE 15 LBS. TO 25 LBS. PER 1,000 SQ. FT.
4. SLOPE OF SWALE SHALL BE MINIMUM 2%.

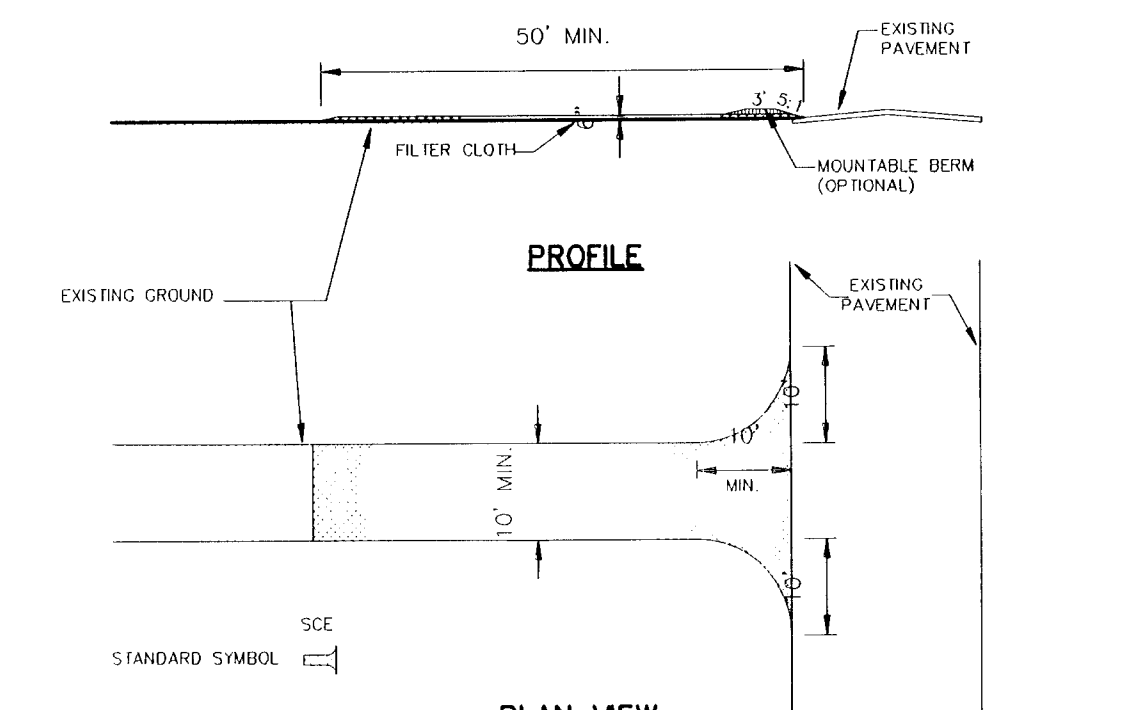
TYPICAL DRAINAGE SWALE DETAIL

SCALE: 1/2" = 1'



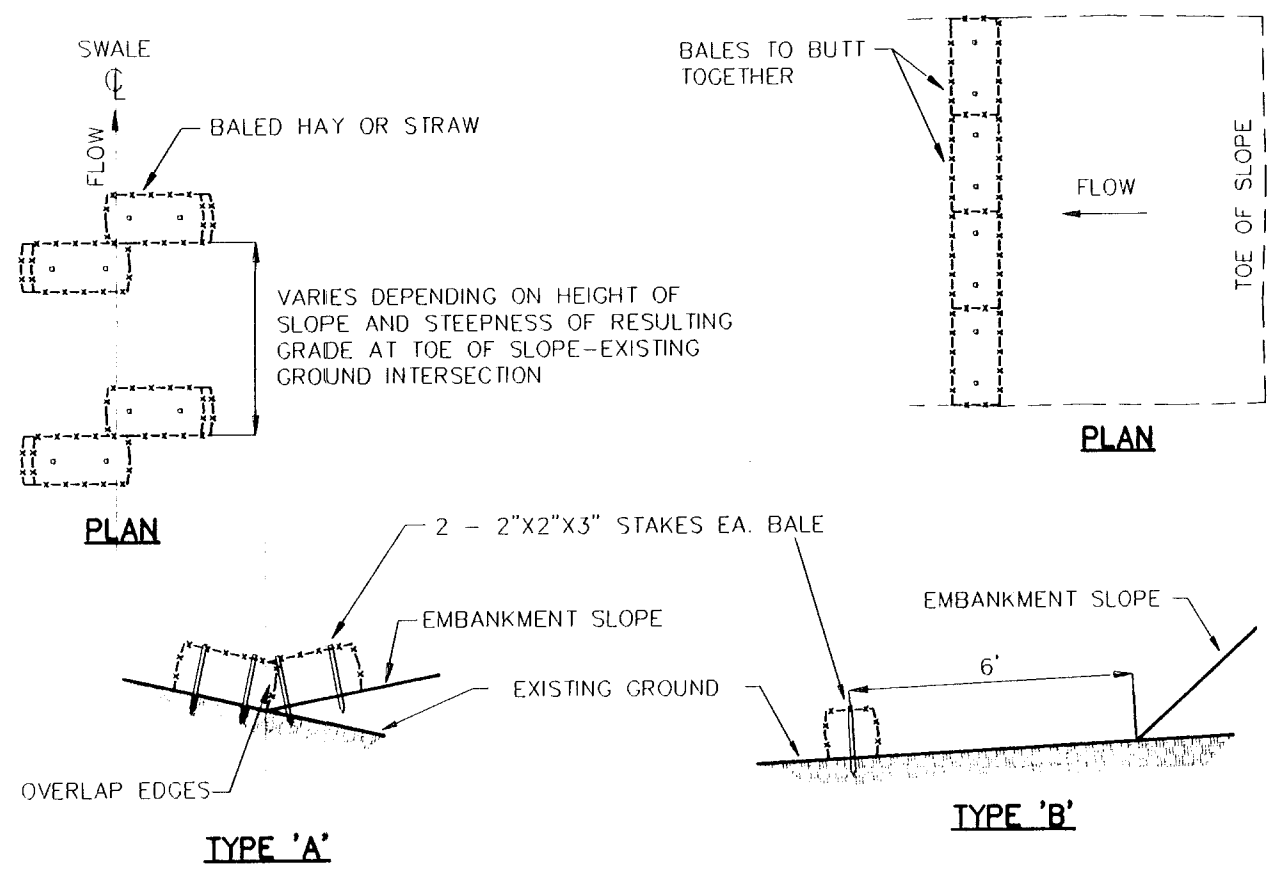
PIPE OUTLET CONDITIONS

NOT TO SCALE

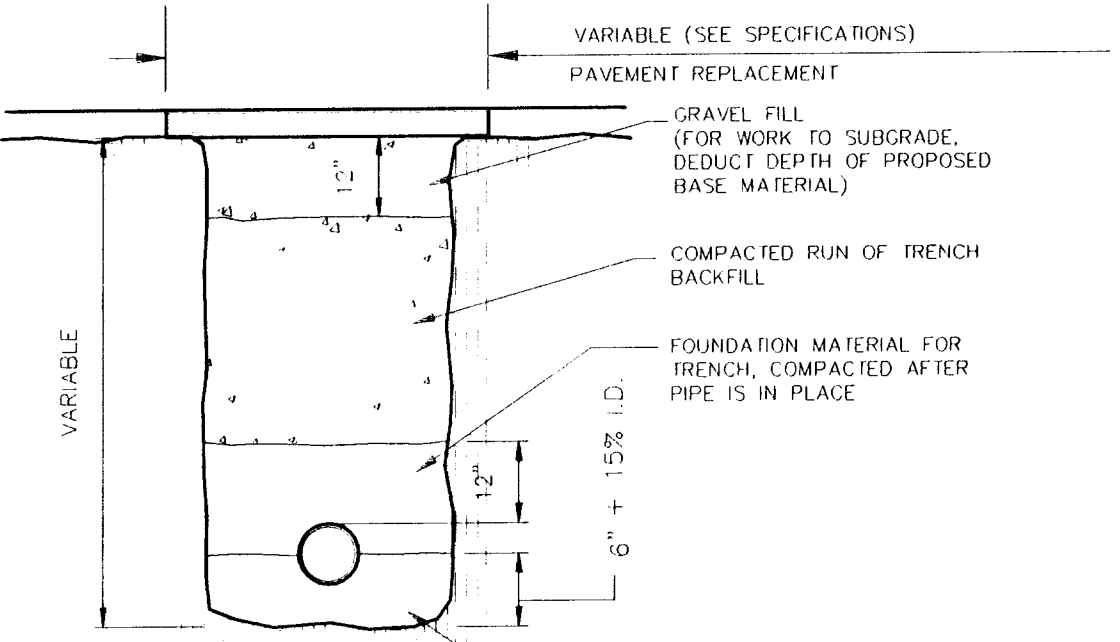


STABILIZED CONSTRUCTION ENTRANCE

- CONSTRUCTION SPECIFICATIONS
1. Stone Size - Use 2" stone, or reconditioned or recycled concrete equivalent.
  2. Length - As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply).
  3. Thickness - Not less than six (6) inches.
  4. Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.
  5. Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a single family residence lot.
  6. Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes will be permitted.
  7. Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or clearing of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
  8. Washing - Wheels 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.
  9. Periodic inspection and needed maintenance shall be provided after each rain.

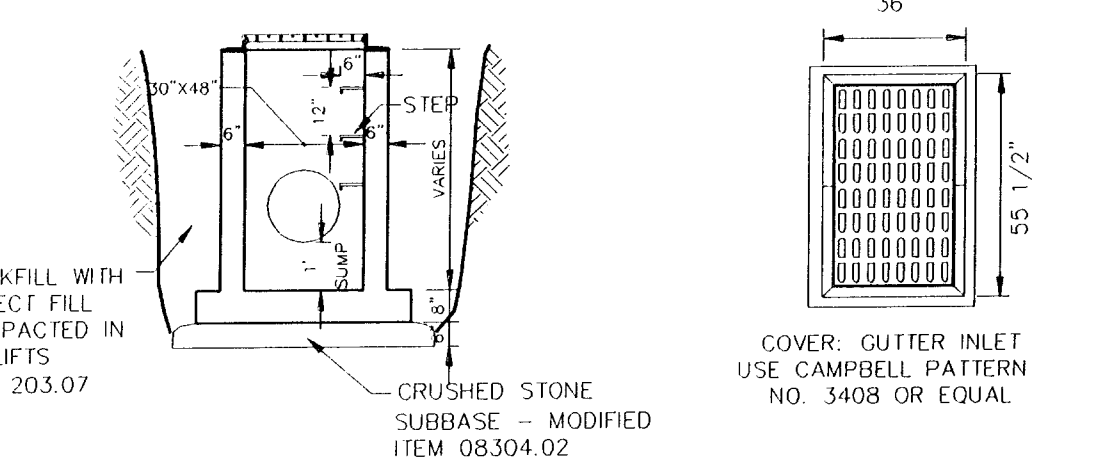


BALED HAY OR STRAW EROSION CHECKS © 1991/DELS



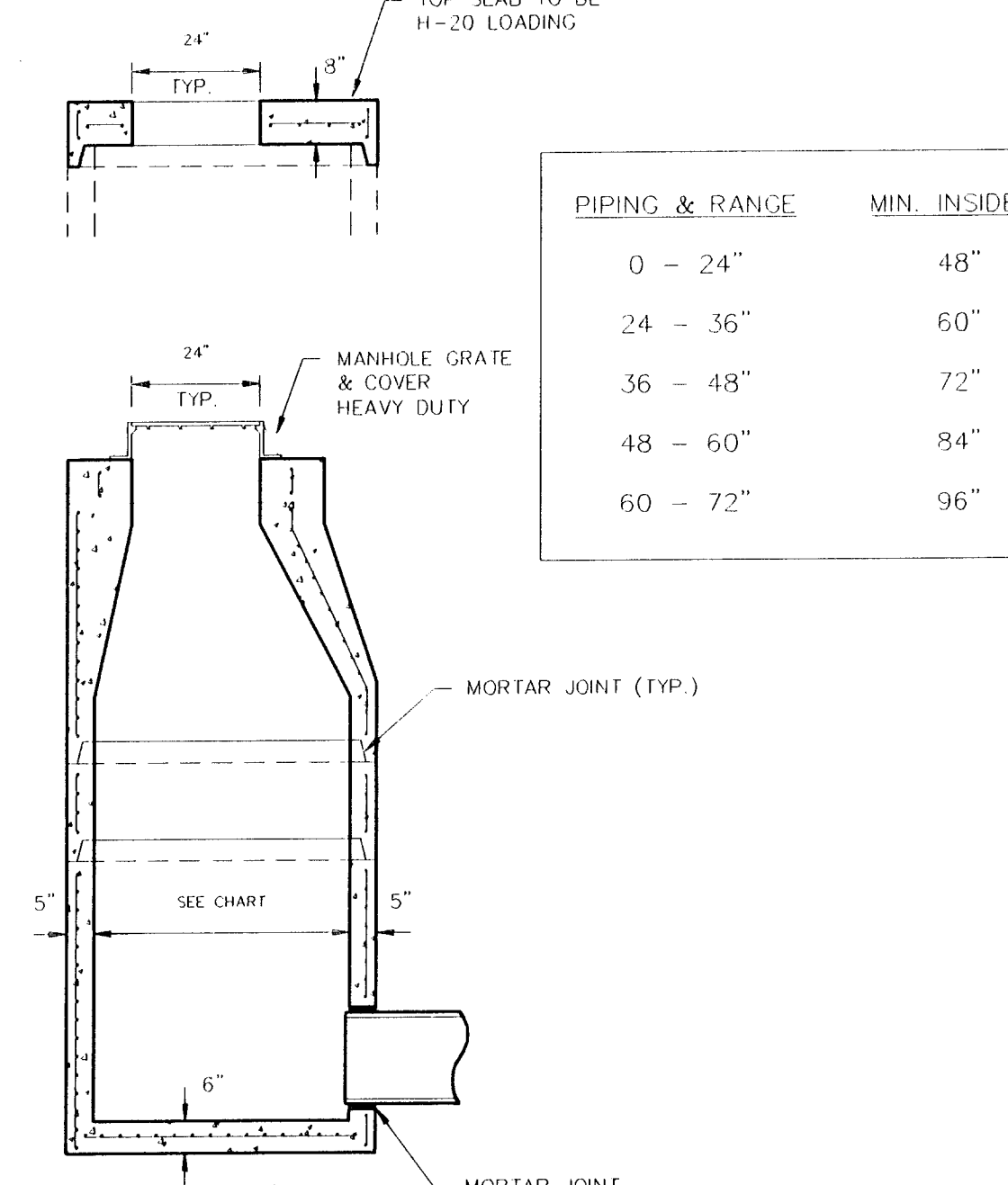
TYPICAL TRENCH SECTION

© 1991/DELS



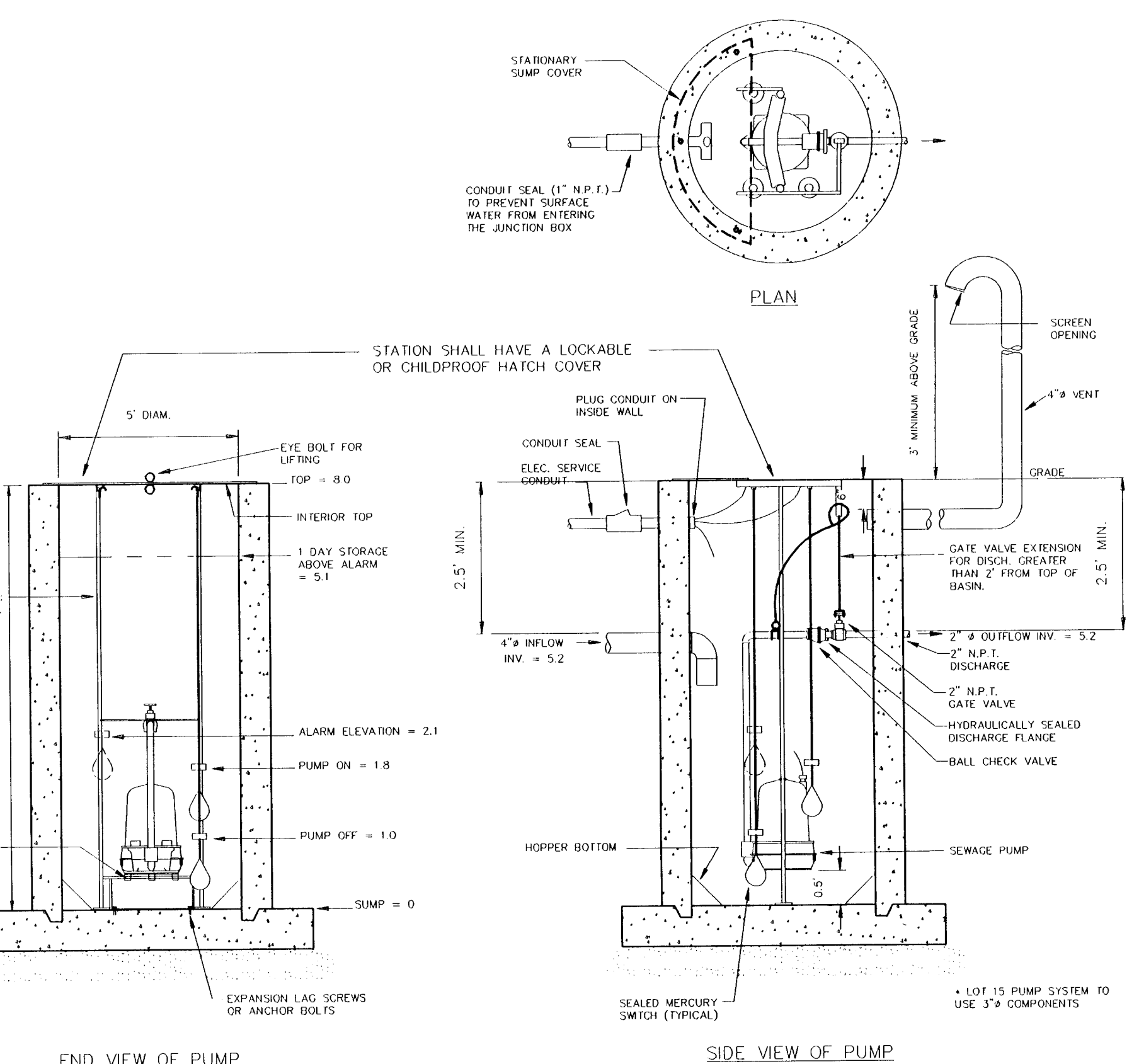
CATCH BASIN 30"x48" N.T.S.

© 1991/DELS



TYPICAL STORM SEWER MANHOLE

SCALE: 3/8" = 1'



LOT 7 PUMP STATION

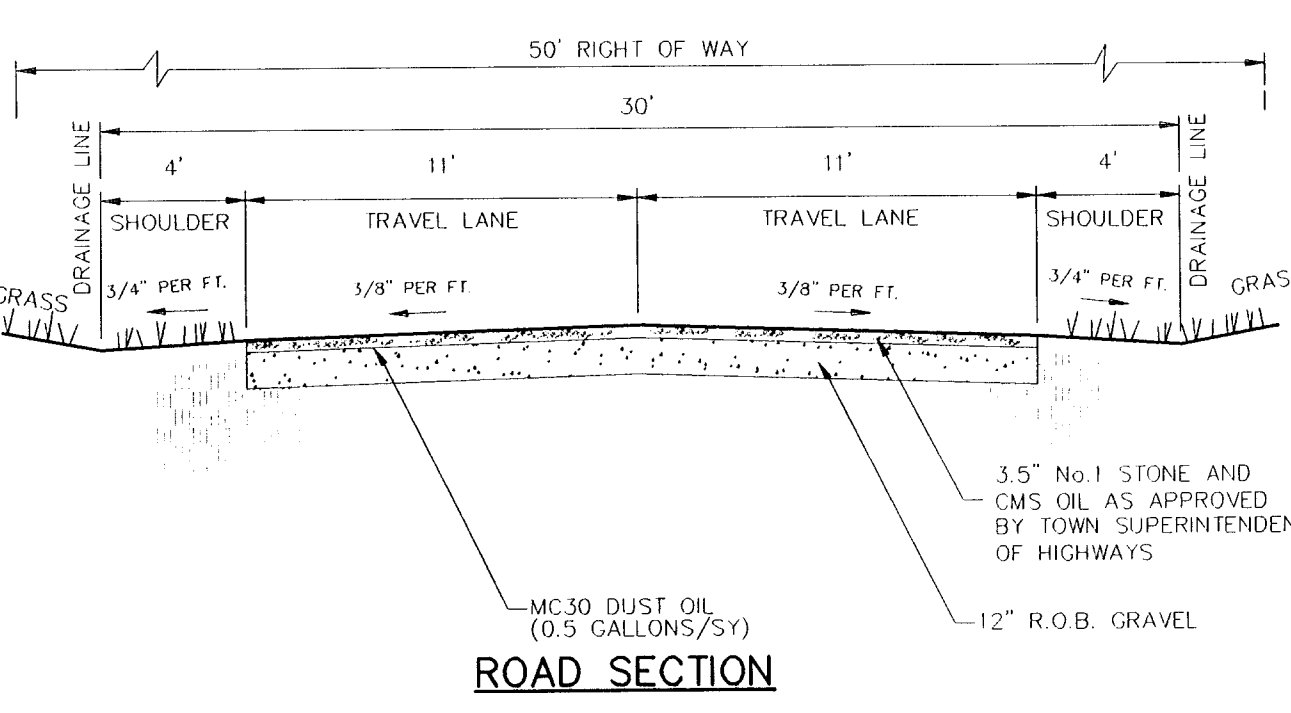
PLEASE REFER TO PLAN FOR PROPER ORIENTATION OF INLET & OUTLET PIPES

PUMP SCHEDULE

- NOTES:
1. PUMPS AS SPECIFIED MANUFACTURED BY HYDRAMATIC CORP., APPROVED EQUAL ACCEPTABLE UPON ENGINEER'S REVIEW.
  2. PUMP ASSEMBLY AND MATERIALS TO BE APPROVED BY ENGINEER PRIOR TO ACTUAL INSTALLATION.
  3. INSTALLED SYSTEMS TO BE INSPECTED BY ENGINEER PRIOR TO ACCEPTANCE.

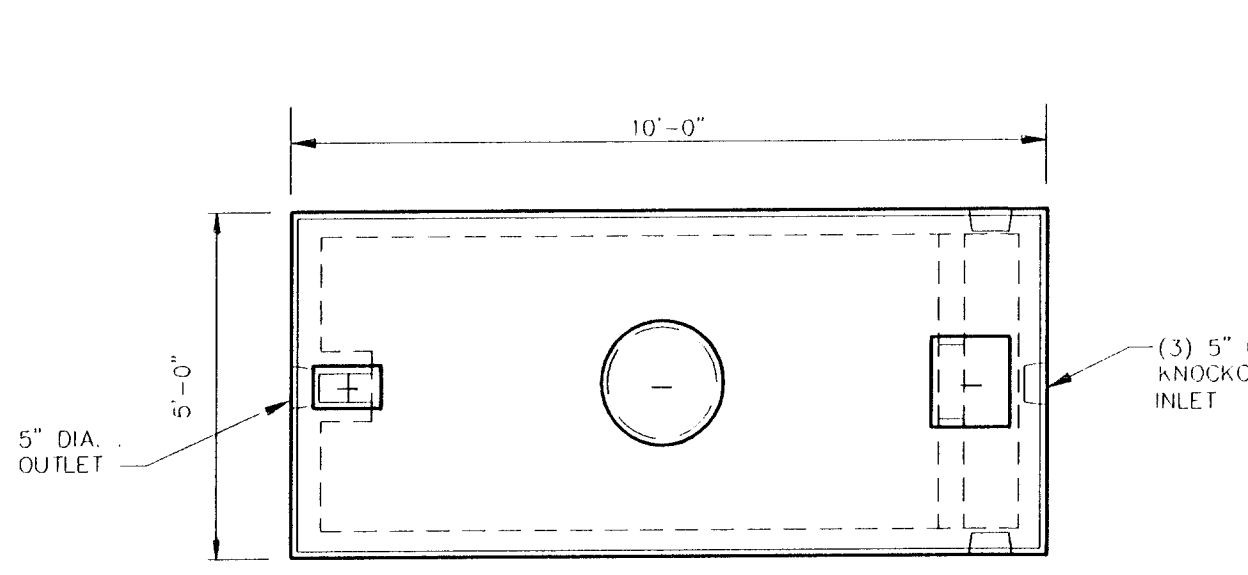
GENERAL PUMP SYSTEM NOTES:

1. ALL MANUFACTURERS AND MATERIALS SELECTED BY THE CONTRACTOR OTHER THAN THOSE SHOWN ARE SUBJECT TO ULSTER COUNTY DEPARTMENT OF HEALTH REVIEW AND APPROVAL.
2. ALL ELECTRICAL CONTROL COMPONENTS SHALL BE LOCATED INSIDE THE RESIDENCE GARAGE.
3. ONCE SYSTEM IS APPROVED AS PROPERLY AND COMPLETELY INSTALLED ALL MAINTENANCE AND SYSTEM FAILURES FROM LACK OF MAINTENANCE ARE THE RESPONSIBILITY OF THE PROPERTY OWNER.



ROAD SECTION

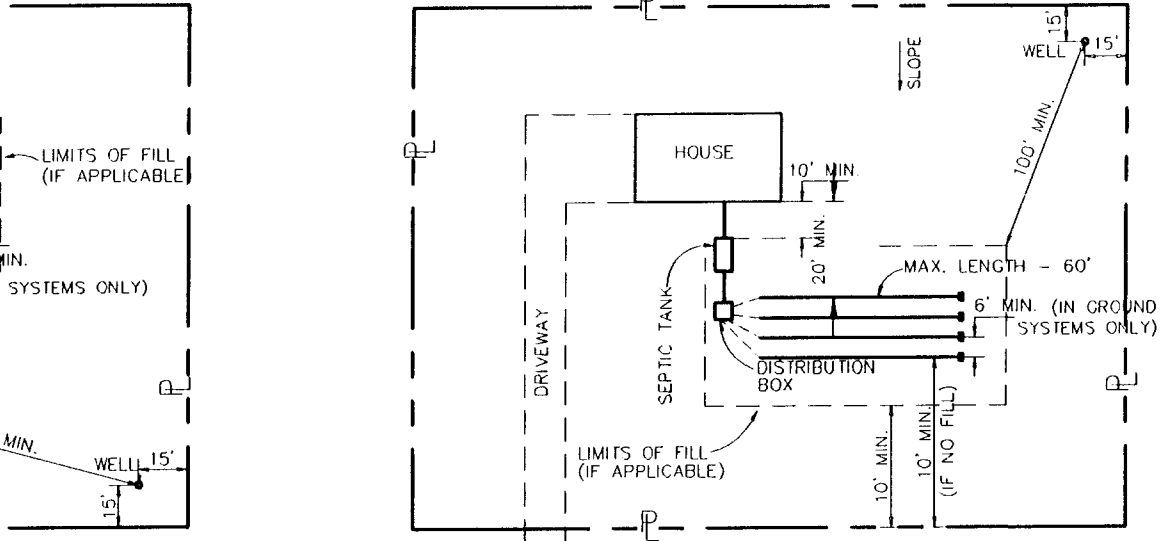
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PRECAST SEPTIC TANK

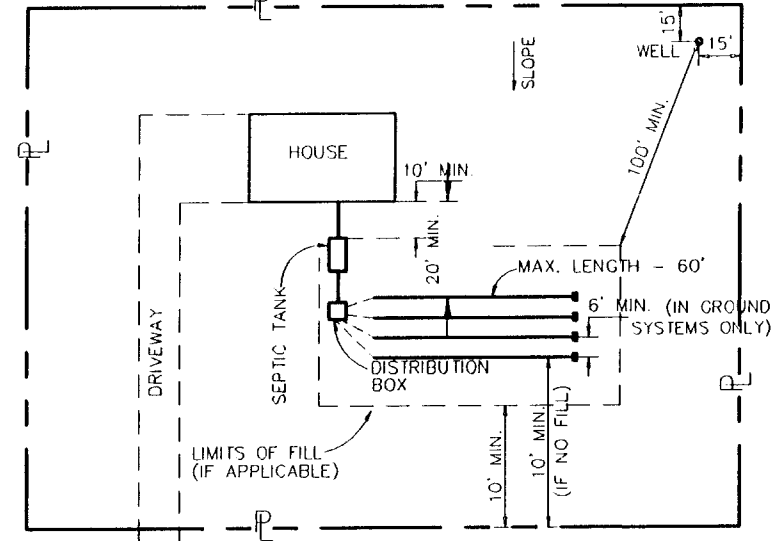
1250 GALLON

SCALE: 3/8" = 1'



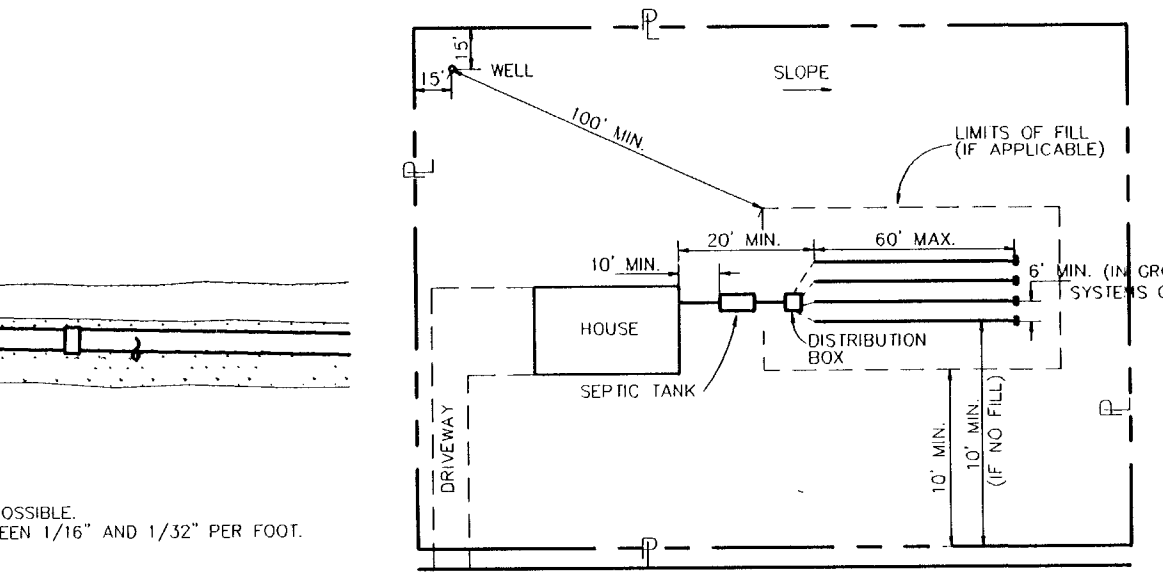
TYPICAL REAR LOT DETAIL

NO SCALE



TYPICAL FRONT LOT DETAIL

NO SCALE



TYPICAL SIDE LOT DETAIL

NO SCALE

ULSTER COUNTY HEALTH DEPARTMENT NOTES:

1. The design and construction of the sewage disposal and well systems shown on these plans shall be in accordance with the approved plan set and accepted standards of construction including:
  - New York State Sanitary Code Appendix 75-A
  - Wastewater Treatment Standards - Individual Household Systems
  - Ulster County Department of Health Regulations, "Recommendations For a Small Sewage Disposal System".
2. This plan is approved as meeting the appropriate and applied technical standards, guidelines, policies and procedures for arrangement of sewage disposal and water supply facilities, as a condition of this approval and construction inspection by a representative from the Ulster County Department of Health, shall be performed, of the installed system, prior to backfilling.
3. If lots are sold without prior installation of these approved sewage disposal and water supply systems, the purchaser shall be furnished with a legible reproduction of the approved plan showing the proposed arrangements and requirements for their proper construction.
4. Any changes or revisions to the approved sewage disposal and water supply systems as shown on these plans, shall be performed by a New York State professional engineer and are subject to approval by the Ulster County Department of Health.
5. Any fill pad systems shown on these plans shall be placed, per-tested and certified in writing by a New York State professional engineer as suitable for sewage disposal in accordance with Ulster County Department of Health regulations.

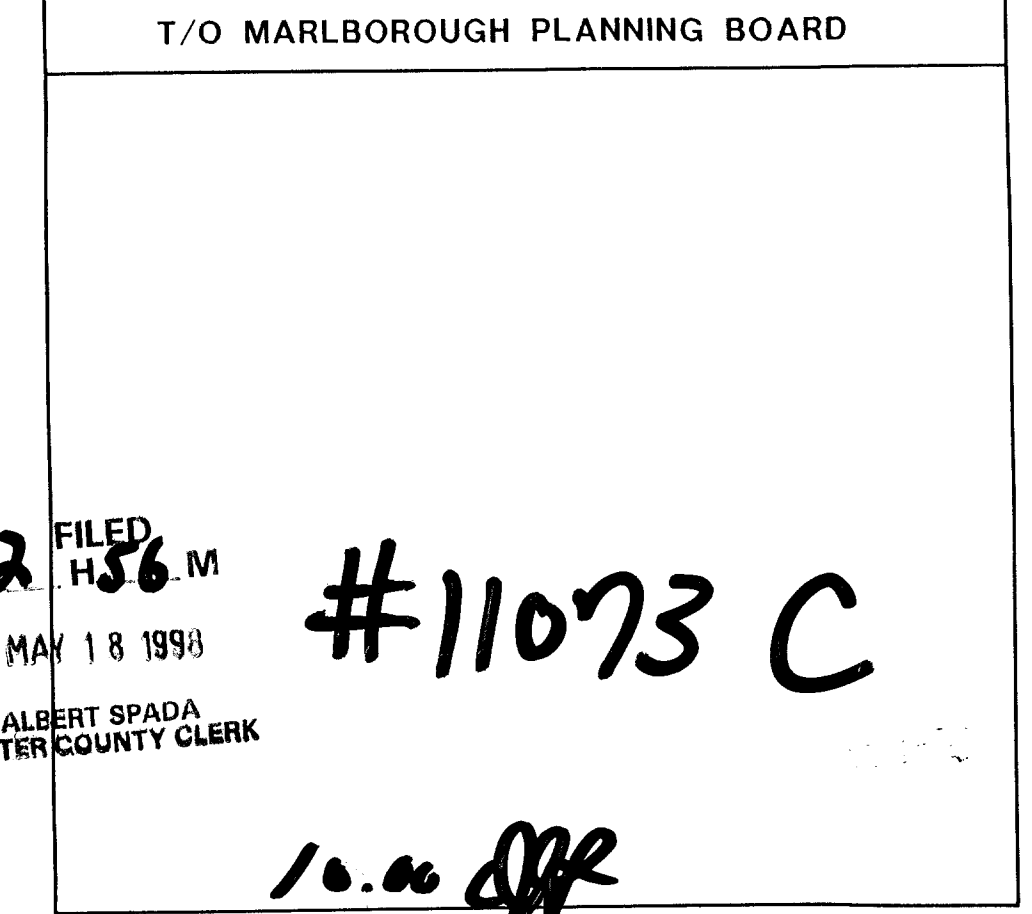
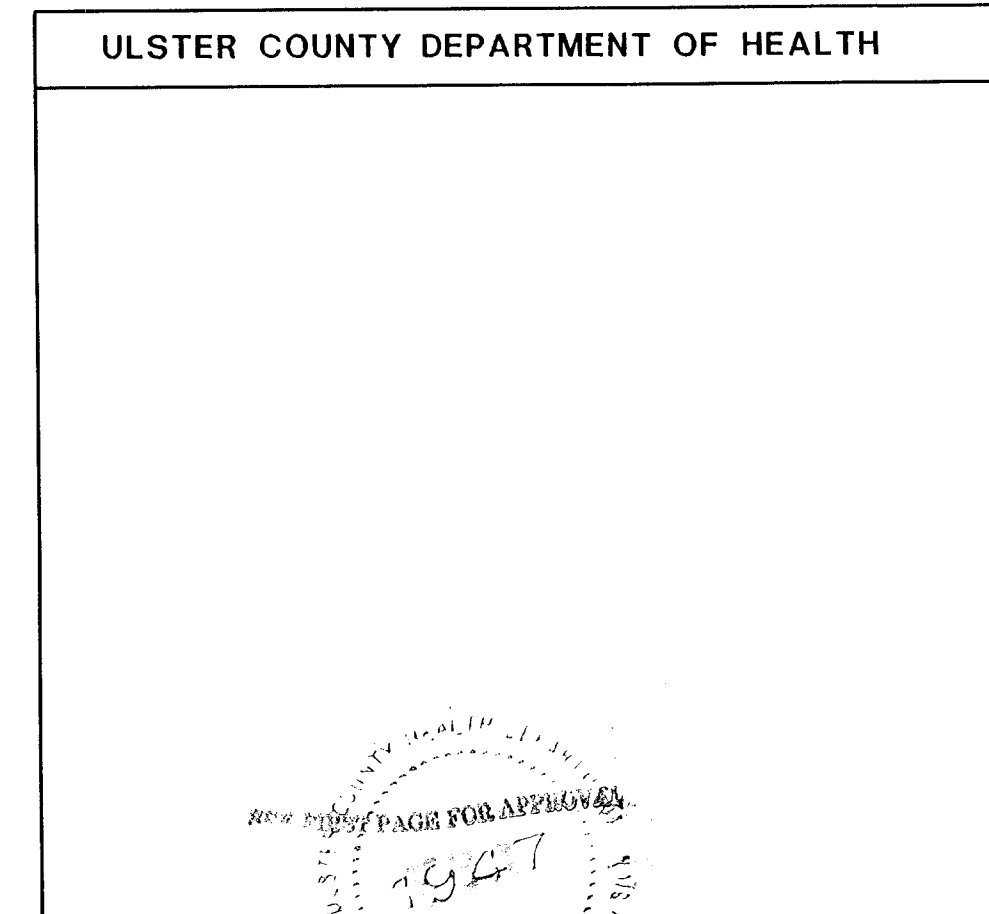
SEPTIC SYSTEM CONSTRUCTION NOTES

1. House sewers shall be laid on a firm foundation with a minimum slope of 1/4 inch/foot (2% minimum). At least one cleanout at bend locations, with properly fitted plug, should be provided. House sewer line shall meet ASTM 3034 SDR 35 minimum.
2. Distribution piping in leach bed shall be placed at slope between 1/16" /foot (0.5%) and 1/32" /foot (0.3%). Distribution piping shall meet ASTM D2729 for P.V.C. pipe.
3. No cellar, roof or footing drains may be discharged into the sewage disposal system.
4. Building footing drains and septic system curtain drains may be tied together, if so, line shall be expanded to 6" P.V.C. from junction point to outlet.
5. Any groundwater drain outletting to a downhill surface may require erosion control treatment at the outlet. This shall be a small rip-rap pad and/or hydrobe, as specified by the project engineer and is dependent on field conditions.
6. All system designs on these approved plans are sized for 4-bedroom homes; the septic system size (and fill pad size) may be reduced after review by a New York State professional engineer and/or the Ulster County Department of Health. Absolutely no expansion of the approved system sizes shall be permitted without redesign by a New York State licensed professional engineer, and review and approval by the Ulster County Department of Health.
7. Distribution boxes shall be precast concrete type with dimensions and openings to accommodate leaching system.

UDCH SETBACK SCHEDULE

Waste Water Sources	Min. Setback of Sewer Line	To Stream or Water Course	Dwelling	Property Line
House sewer	25', if cast iron	25'	10'	10'
Septic tank	50'	50'	10'	10'
Effluent line to distribution box	50'	50'	10'	10'
Distribution box	100'	100'	20'	10'
Absorption field	100'	100'	20'	10'
Fill system	100'	100'	20'	10'

\*Sewage systems located upgrade in a general path of drainage to a well should be spaced 200 feet or more away.

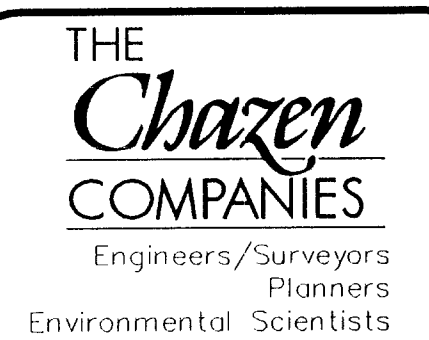


AMERICAN LAND PRESERVATION CORPORATION

DETAILS SHEET 1

ROUTE 9W, MARLBOROUGH, ULSTER COUNTY, NEW YORK

sheet no.	3 OF 4
R.E.M.	6/20/96
R.H.C.	6/20/96
K.M.H.	6/20/96
project no.	59237



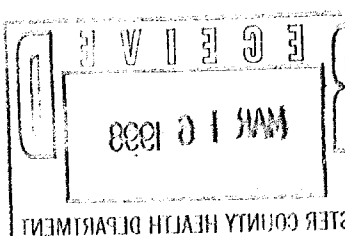
CHAZEN ENGINEERING & LAND SURVEYING CO., P.C.

Babineau County Office  
Worcester Road 97 Box 3473  
Worcester, New York 12383  
Phone: (518) 451-3980

Ulster County Office  
1807 Route 9, Box 2  
Marlborough, New York 12549  
Phone: (518) 451-1520

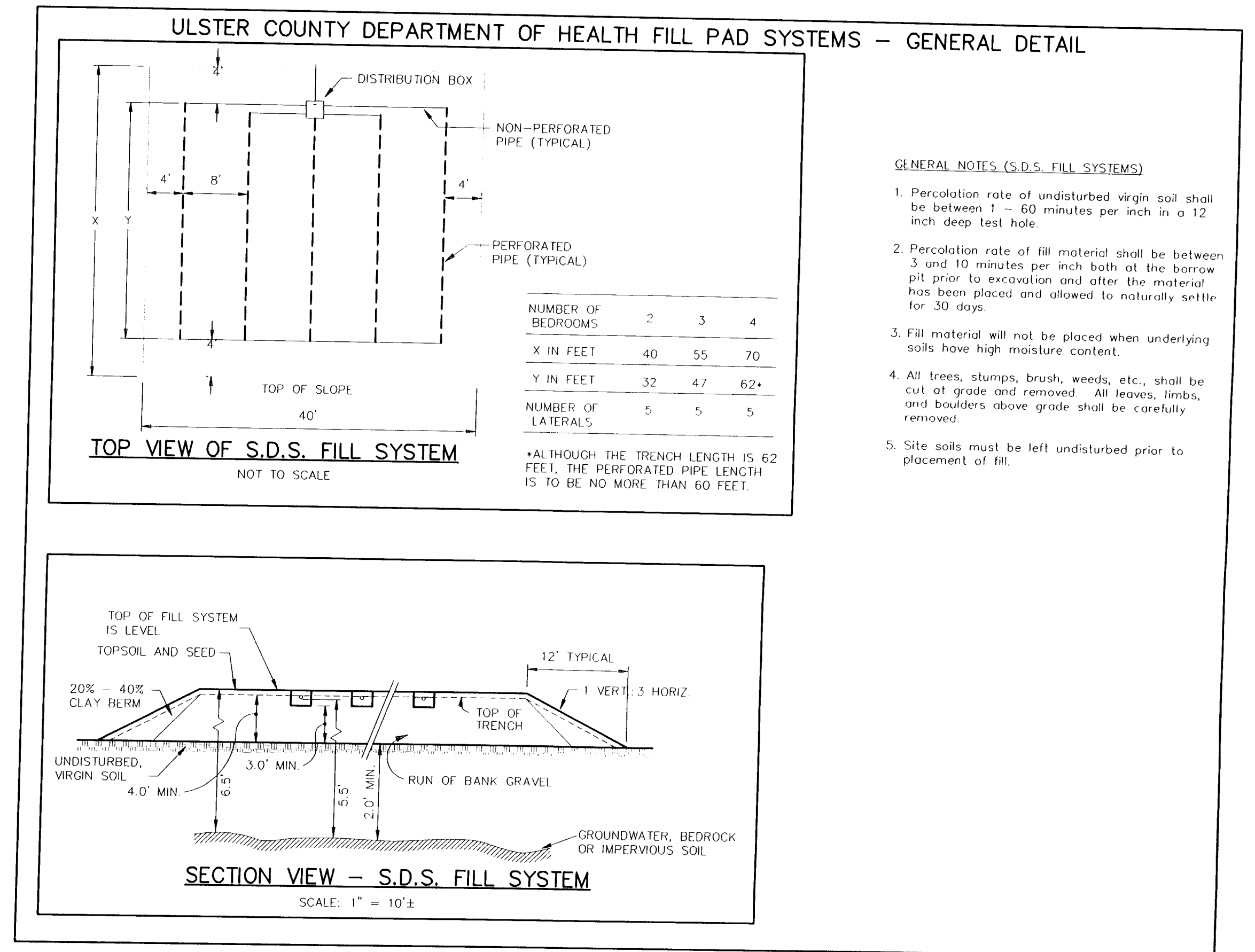
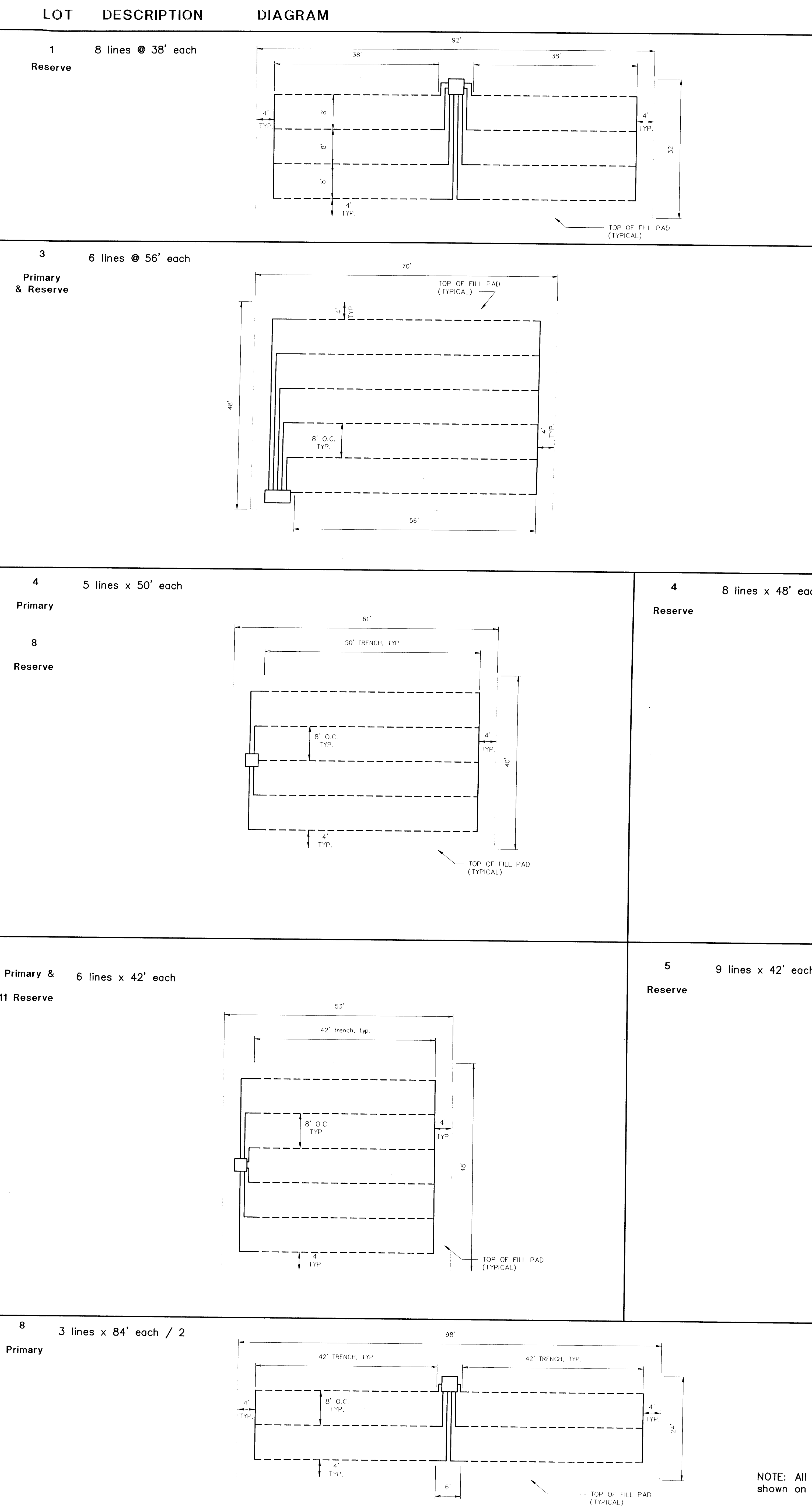
Capital District Office  
1807 Route 9, Box 2  
Marlborough, New York 12549  
Phone: (518) 371-0929

rev.	date	description
3	02/21/97	PER PLANNING BOARD REVIEW
2	12/22/96	PER UDCH REVIEW
1	6/20/96	PER UDCH REVIEW
0	6/19/96	NEW SHEET



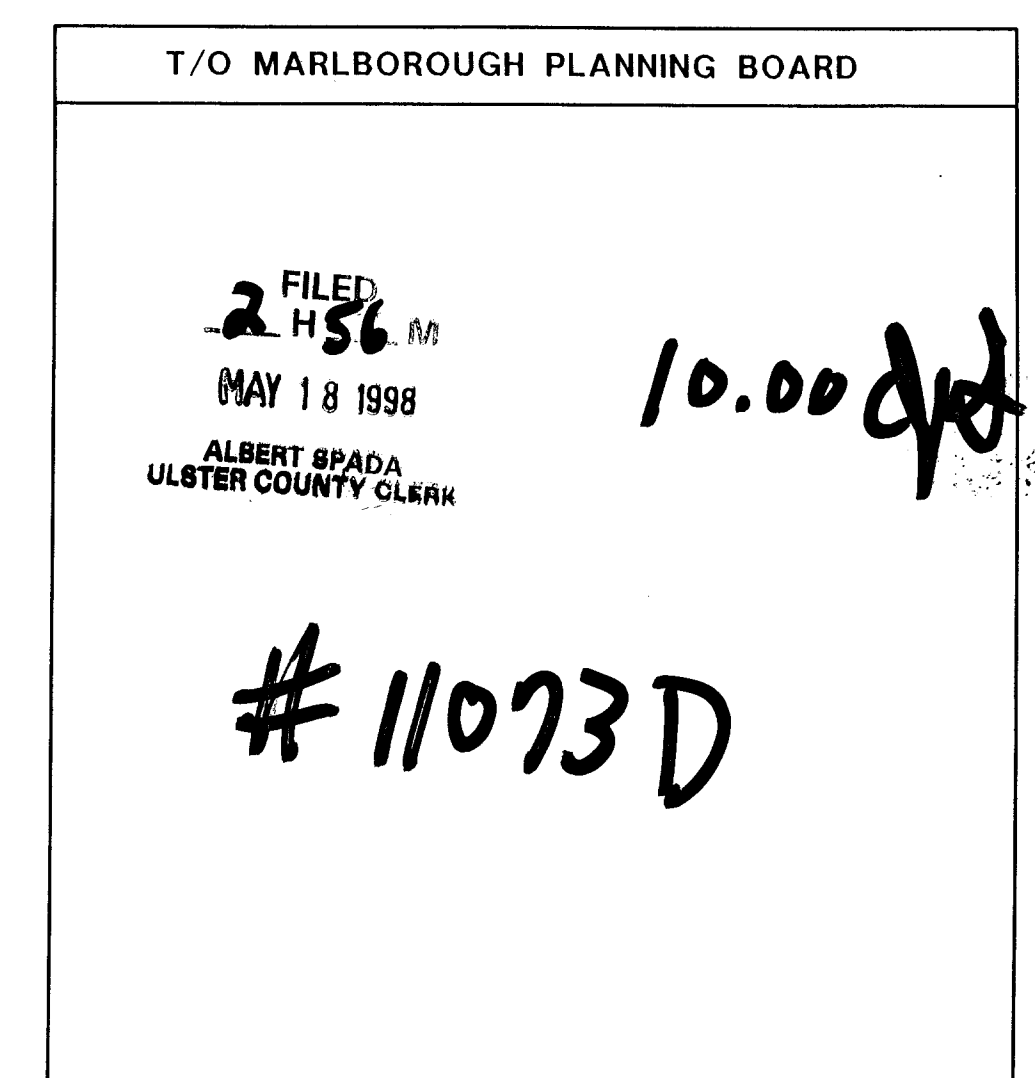
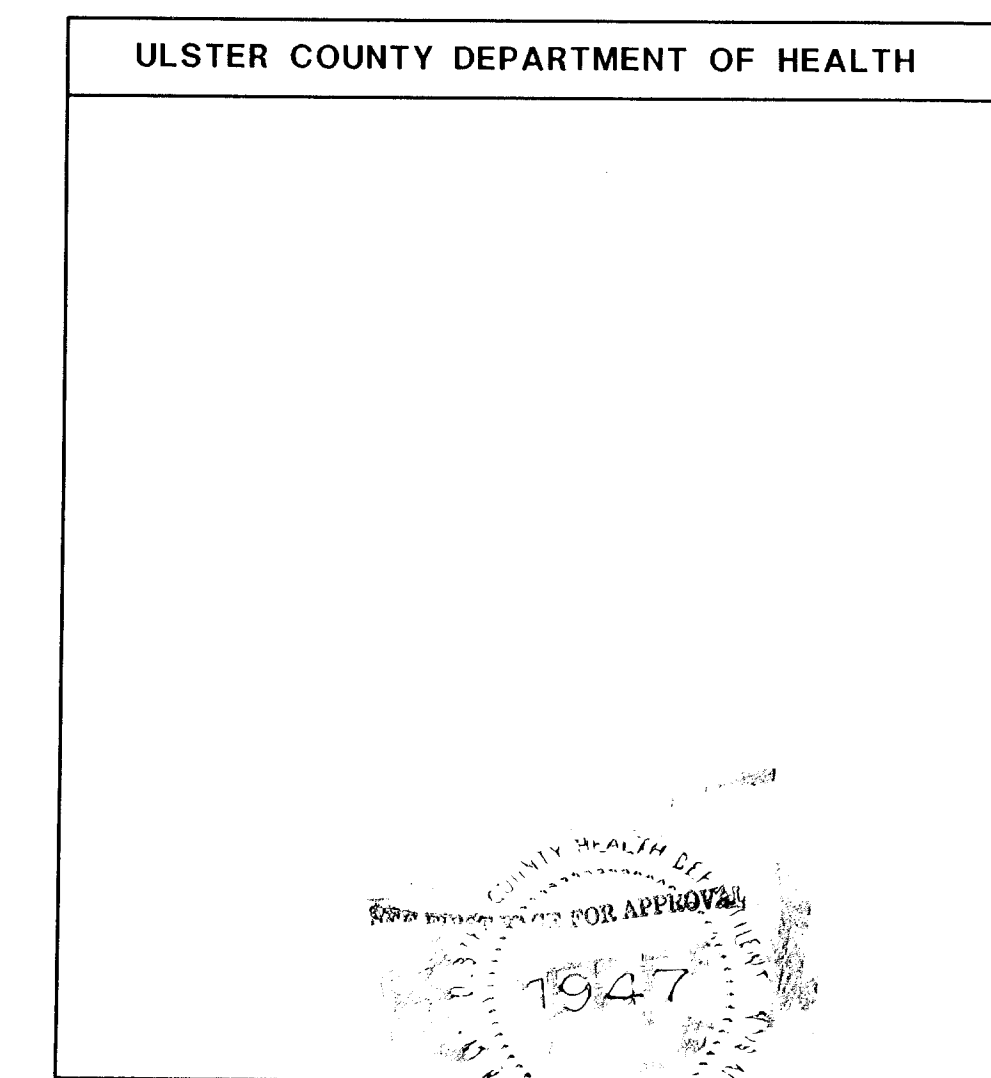


# LOT-SPECIFIC FILL PAD SYSTEMS - SCHEMATIC

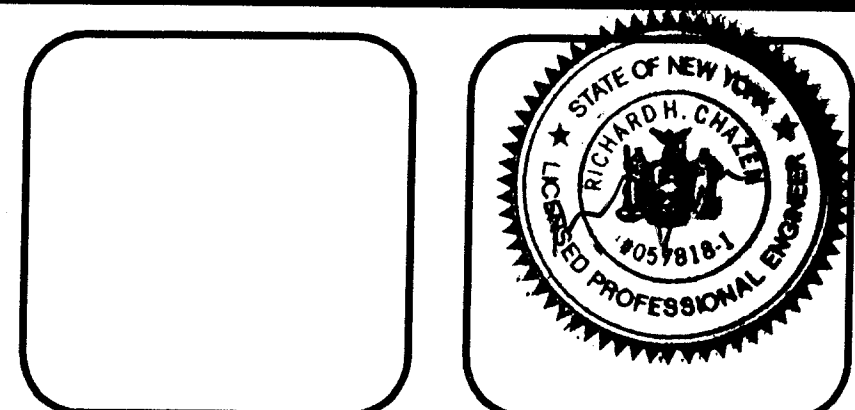


SEPTIC DISPOSAL SYSTEM SCHEDULE									
Primary SDS					Reserve SDS				
Lot #	Des. Rate	Req'd Len	Des. Configuration	Type	Des. Rate	Req'd Len	Des. Configuration	Type	
1	11 min.	375 lf	7055'eo=385'	In-Grnd	6 min.	300 lf	8076'/(2)eo=304'	Fill Pad	
2	13 min.	375 lf	8047'eo=376'	In-Grnd	30 min.	500 lf	50100'/(2)eo=500'	In-Grnd	
3	10 min.	333 lf	6056'eo=336'	Fill Pad	10 min.	333 lf	6056'eo=336'	Fill Pad	
4	4 min.	250 lf	5050'eo=250'	Fill Pad	6 min.	300 lf	7043'eo=301'	Fill Pad	
5	3 min.	250 lf	6042'eo=252'	Fill Pad	15 min.	375 lf	8043'eo=378'	Fill Pad	
6	14 min.	375 lf	6004'/(2)eo=384'	Fill Pad	3 min.	250 lf	4004'/(2)eo=256'	Fill Pad	
7	5 min.	250 lf	5050'eo=250'	In-Grnd	5 min.	250 lf	5050'eo=250'	In-Grnd	
8	4 min.	250 lf	5004'/(2)eo=252'	Fill Pad	5 min.	250 lf	5050'eo=250'	Fill Pad	
9	11 min.	375 lf	70055'eo=385'	In-Grnd	10 min.	333 lf	6056'eo=336'	In-Grnd	
10	< existing system >				9 min.	< use UCDH std 3-borm fill pad >			
11	21 min.	1500 lf	10050'eo=500'	In-Grnd	3 min.	250 lf	6042'eo=252'	Fill Pad	

Notes:  
1. Designation "1/220" indicates the length of trench is split to each side of box.  
2. Design Rate based upon Spring 1998 percolation tests.  
3. All SDS Fill Pad systems are schematically presented on the project plans.



NOTE: All fill material depth, materials, and side-slope requirements are as shown on the U.C.D.H. Fill Pad Standard detail, included on this plan set.



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**THE Chazen COMPANIES**  
Engineers/Surveyors  
Planners  
Environmental Scientists

CHAZEN ENGINEERING & LAND SURVEYING CO., P.C.

Outreach County Office  
Marlborough Road PO Box 9475  
Poughkeepsie, New York 12603  
Phone (914) 454-1980

Orange County Office  
Suite C, 200 West Street  
Marlborough, New York 12549  
Phone (914) 451-7521

Capital District Office  
1407 Route 9, Bldg. 2  
Ottawa Park, New York 12005  
Phone (518) 371-0929

Rev.	Date	Description
1	02/21/97	PER PLANNING BOARD REVIEW
2	12/03/96	PER UCDH REVIEW
3	06/06/96	PER UCDH REVIEW
4	6/15/96	NEW SHEET

**AMERICAN LAND PRESERVATION CORPORATION**  
DETAIL SHEET 2  
ROUTE 9W, MARLBOROUGH, ULSTER COUNTY, NEW YORK

Sheet no	4 OF 4
REV.	6/20/96
REV.	6/8/96
M.L.M.	6/8/96
project no	59237