# PB# 99-12

# Safety Storage
# (Site Plan)

# 29-1-26.221

99-12

SAFETY STORAGE SITE PLAN
RT. 207 & TOLEMAN (SHAW)

8-19-99

Approved

WilsonJones • Carbonless • S1642-4W-CL Duplicate • S1644-4W-CL Triplicate

© WilsonJones, 1989

# RECEIPT

NUMBER 99-12

DATE May 7, 1999

RECEIVED FROM Gerald & Jane Sabini

Address 2 Andre Street - Highland Mills, N.Y. 10930

Seven Hundred Fifty 00/00 DOLLARS $750.00

FOR Escrow

| ACCOUNT | | | HOW PAID | | |
|---|---|---|---|---|---|
| BEGINNING BALANCE | 750 | – | CASH | | |
| AMOUNT PAID | 750 | – | CHECK | # 1440 | |
| BALANCE DUE | –0 | – | MONEY ORDER | | |

BY Myra Mason, Secretary

WilsonJones • Carbonless • S1654-NCR Duplicate • S1657N-CL Triplicate

© WilsonJones, 1989

# RECEIPT 039251

DATE May 7, 1999

RECEIVED FROM Gerald & Jane Sabini

Address

One Hundred 00/100 DOLLARS $100.00

FOR P.B. # 99-12

| ACCOUNT | | | HOW PAID | | |
|---|---|---|---|---|---|
| BEGINNING BALANCE | | | ~~CASH~~ Ck # | 1441 | |
| AMOUNT PAID | | | CHECK | 100 | 00 |
| BALANCE DUE | | | MONEY ORDER | | |

Town Clerk

BY Dorothy N Hansen

WilsonJones • Carbonless • S1654-NCR Duplicate • S1657N-CL Triplicate

© WilsonJones, 1989

# RECEIPT 134233

DATE Aug. 13, 1999

RECEIVED FROM Gerald & Jane Sabini

Address

One Hundred 00/100 DOLLARS $100.00

FOR P.B. #99-12

| ACCOUNT | | | HOW PAID | | |
|---|---|---|---|---|---|
| BEGINNING BALANCE | | | ~~CASH~~ Ck # | 1605 | |
| AMOUNT PAID | | | CHECK | 100 | 00 |
| BALANCE DUE | | | MONEY ORDER | | |

Town Clerk

BY Dorothy N Hansen
sr

# STORM WATER MANAGEMENT CALCULATIONS

## NEW FACILITY

## FOR

## SAFETY STORAGE, LLC

TOLEMAN ROAD TOWN OF NEW WINDSOR, NEW YORK


**SHAW ENGINEERING**
744 Broadway
Newburgh, N.Y. 12550

June 29, 1999

## TABLE OF CONTENTS

## INTRODUCTION

This report presents an analysis of the hydrologic and hydraulic conditions found at the site of the New Facility For Safety Storage, LLC in the Town of New Windsor, New York. The subject project is located at the southeast corner of the intersection of Toleman Road and NYS Route 207. The proposed site improvements will include the construction of a 1,600 S.F. office building, 7 mini-storage buildings totaling 58,150 S.F. and associated realty improvements including access drives, parking areas, utilities, and storm water management facilities. This parcel was recently subdivided from the parent parcel owned by Rock Tavern Village L.P.

The site of the proposed development is situated in the upper region of a watershed that discharges to Beaver Dam Lake through a minor tributary. (Refer to following Location Map) To study watershed runoff, a hydrologic model of the site has been developed using procedures outlined in the Soil Conservation's Technical Release TR-55, "Urban Hydrology for Small Watersheds", June 1986. TR-55 data was used in conjunction with Haestad Method's "Quick TR-55" and "POND-2" software to generate peak runoff rates and hydrographs for analysis of pre- and post-development conditions.

## HYDROLOGIC ANALYSIS OF PRE-DEVELOPMENT CONDITIONS

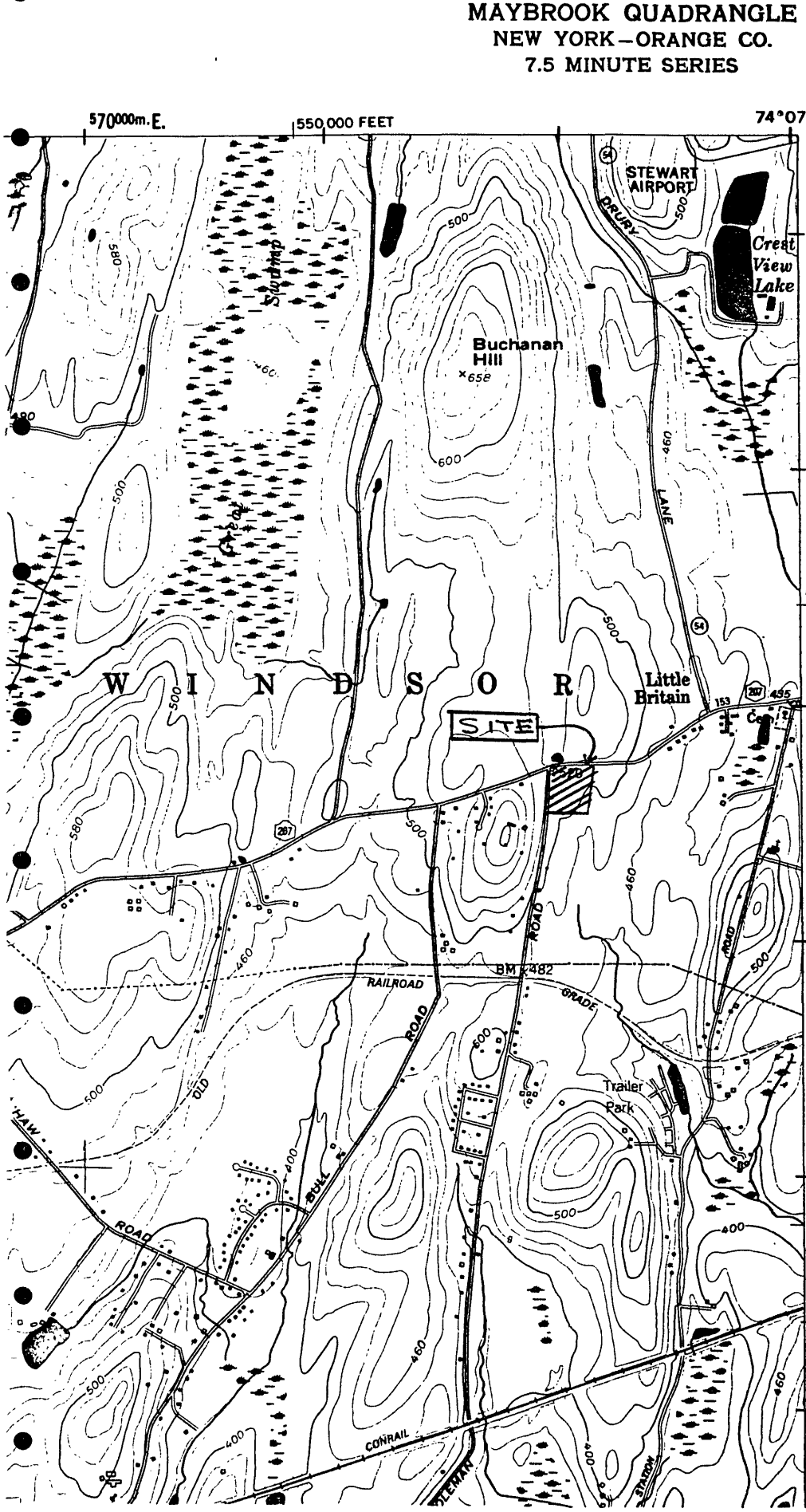
### PROCEDURE

The watershed area under investigation consists of only the 5.0 acre site. Storm water generated by lands upgradient of the site is routed to the south within the Toleman Road right-of-way where it ultimately discharges onto the Lands Of Rock Tavern Village L.P.

The mini-storage site is designated as Subarea No. I and its limits have been indicated on the Pre-Development Drainage Plan to provide an accurate analysis of pre-development runoff rates. The vegetative cover of the site is a hay meadow.

Peak discharges for Subarea I were determined by the Soil Conservation Service TR-55 methodology which considers rainfall events with 24 hour durations. The total rainfall amounts follow a synthetic distribution based on National Weather Service duration frequency data. The subject watershed analysis is based on a Type III Storm representing the spatial distribution of rainfall in the Atlantic Coastal Region. Twenty

# MAYBROOK QUADRANGLE
## NEW YORK–ORANGE CO.
## 7.5 MINUTE SERIES




LOCATION MAP
1"=2000'

four hour rainfall amounts were obtained from the maps provided in the Appendices of the TR-55 Manual and are as follows:

| FREQUENCY (years) | RAINFALL AMOUNT (inches) |
|---|---|
| 10 | 5.5 |
| 25 | 6.0 |

Runoff Curve Numbers and Times of Concentration for this subarea were also determined by procedures outlined in TR-55. The Orange County Soils Maps were used in conjunction with the Pre-Development Drainage Plan, and on-site investigations were performed to determine the drainage area, soil categories, and vegetative cover which were used in the calculation of existing condition Runoff Curve Numbers. The critical runoff path for the subarea was determined through field investigations and survey topographic mapping. Times of Concentration were calculated along the critical path to determine peak runoff rates at chosen study point.

## PRE-DEVELOPMENT DRAINAGE PATTERNS

The topography within Subarea I consists of a relatively uniform slope with a total change in grade of 24 feet. Storm water runoff discharges overland in a southeast direction onto the lands of Rock Tavern Village L.P. After flowing 1,500 feet through the lands of Rock Tavern Village L.P., the stormwater flows onto the lands of Toleman Station Associates, LLC prior to discharging into the unnamed tributary of Beaver Dam Lake.

## PRE-DEVELOPMENT PEAK RUNOFF RATES

Appendix "A" of this report contains a "Quick TR-55" worksheet outlining the calculations of Runoff Curve Number, Times of Concentration, and peak runoff rates for pre-development conditions. The Pre-Development Plan depicts the Subarea delineation, and the Time Of Concentration path used in the calculation of these parameters.

Following is a summary table of peak runoff rates from Subarea I for storms having return frequencies of 10, and 25 years:

| STORM FREQUENCY | PRE-DEVELOPMENT DISCHARGE |
|---|---|
| 10 YR | 8 CFS |
| 25 YR | 9 CFS |

## HYDROLOGIC ANALYSIS OF POST-DEVELOPMENT CONDITIONS

### PROCEDURES

Procedures for the determination of post-development runoff are similar to the procedures described for pre-development conditions. Alterations to the pre-development watershed model to reflect the site development include adjustments to hydrologic subarea, Runoff Curve Numbers and Times of Concentration. The character of the contributing drainage area will be altered by the construction of the proposed mini-storage buildings and appurtenant site improvements. Impervious areas such as parking areas and roofs infiltrate less rainfall than most natural ground covers and, due to their smooth surfaces, generally accelerate runoff. These factors combine to increase storm water discharge rates subsequent to construction.

Mitigation of storm water runoff impacts can be achieved through the implementation of storm water management practices. The storm water management facility chosen for this site consists of an open detention pond which will receive on-site runoff, detain, and release storm water flows into the downstream drainage systems. The total combined discharge rate from the site and the detention pond will not exceed levels of runoff draining from the site under existing conditions.

Contributing drainage areas were subdivided into 2 subareas to facilitate the analysis of the proposed storm water management facility. Subareas can be seen on the attached Post-Development Plan and consist of the following:

Subarea IA - This subarea consists of all impervious surfaces of the developed site and encompasses a total of ~~3.6~~ 4.31 acres

Subarea IB - This subarea consists of the majority of the turf surfaces and totals ~~1.4~~ 0.69 acres.

Post-Development Runoff Curve Numbers were generated using appropriate soil categories with grassed or impervious surfaces as anticipated for the site development. Composite Runoff Curve Number calculations for each subarea under post-development conditions are outlined in Appendix "B".

### POST-DEVELOPMENT DRAINAGE PATTERNS

Storm water runoff from Subarea IB will flow overland onto the lands of Rock Tavern Village, L.P. Storm water runoff from Subarea IA will be collected by the on-site storm water collection system and will discharge into the new detention pond. . After being routed through the detention pond, the storm water from Subarea IA will combine with

the storm water flows of Subarea IB and flow through the Lands Of Rock Tavern Village, L.P.

ANALYSIS - PROPOSED DETENTION POND

The detention pond proposed for detaining storm water flows will be located in the southeast corner of the site and will collect runoff from Subareas IA. Runoff from this contributing drainage area will be held within the pond and released at a regulated rate through a controlled outlet consisting of a 10-inch diameter orifice and a 4.0 foot wide rectangular weir.

The table below summarizes the detention pond performance characteristics.

DETENTION POND PERFORMANCE (25 Year Return Frequency)

| | |
|---|---|
| ~~Water Surface Elev.~~ | = ~~Elev. 495.0~~ |
| Berm Top Elevation | = Elev. 497.5 |
| Maximum Storage | = 0.67 Acre-Feet |
| Outlets | = 10" Dia. Orifice @ El 491.0 and 4.0 L.F. Weir @ El 495.0 |

| STORM FREQUENCY | PEAK INFLOW | PEAK OUTFLOW | MAXIMUM STAGE |
|---|---|---|---|
| 10 YR | 21 CFS | 5.1 CFS | EL 494.7 |
| 25 YR | 24 CFS | 5.3 CFS | EL 495.0 |

Upon exiting the detention basin, the outflow hydrograph combines with the runoff hydrograph from Subareas IB. The sum of these hydrographs, presented in Appendix "B", represents the total runoff from the site under post-development conditions.

**SUMMARY**

The following table represents the peak runoff rates from composite hydrographs for the two storm frequencies under Pre- and Post-Development Conditions.

| STORM FREQUENCY | PEAK RUNOFF PRE-DEVELOPMENT | PEAK RUNOFF POST-DEVELOPMENT Detained Subarea IA, & Subarea IB | DEVELOPMENT IMPACT |
|---|---|---|---|
| 10 YR | 8 CFS | 6.1 CFS | - 1.9 CFS |
| 25 YR | 9 CFS | 6.7 CFS | - 2.3 CFS |

As demonstrated by the table and the analyses presented herein, a detention facility can be successfully incorporated into the new Mini-Storage Facility For Safety Storage LLC to reduce post-development peak runoff rates to a level equal to or less than existing condition peak discharges.

In summary, the post-development drainage patterns will remain unchanged from the pre-development conditions. Runoff from the project site will continue to contribute flow to the lands of Rock Tavern Village, L.P. and Toleman Station Associates, LLC at a rate less than or equal to that experienced under existing conditions.

# APPENDIX A

# PRE-DEVELOPED CONDITIONS

# RUNOFF CURVE NUMBERS

# AND

# TIMES OF CONCENTRATION

Quick TR-55 Ver.5.46  S/N:
Executed: 10:08:54  06-28-1999

Safety Storage
Pre-Developed Conditions Cn

RUNOFF CURVE NUMBER SUMMARY

| Subarea Description | Area (acres) | CN (weighted) |
|---|---|---|
| Subarea I | 5.00 | 71 |

Quick TR-55 Ver.5.46  S/N:
Executed: 10:08:54  06-28-1999

Safety Storage
Pre-Developed Conditions Cn

RUNOFF CURVE NUMBER DATA

Composite Area: Subarea I

| SURFACE DESCRIPTION | AREA (acres) | CN | |
|---|---|---|---|
| C Soil: meadow-hay | 5.00 | 71 | |
| COMPOSITE AREA ---> | 5.00 | 71.0 | ( 71 ) |

Quick TR-55 Ver.5.46 S/N:
Executed: 10:18:01 06-28-1999 e:\pondpack\sabini\pre\PRE.TCT

SUMMARY SHEET FOR Tc or Tt COMPUTATIONS
(Solved for Time using TR-55 Methods)

Safety Storage
On-Site Pre-Developed Conditions

| Subarea descr. | Tc or Tt | Time (hrs) |
|---|---|---|
| Subarea I | Tc | 0.60 |

Quick TR-55 Ver.5.46  S/N:
Executed: 10:18:01  06-28-1999  e:\pondpack\sabini\pre\PRE.TCT

Safety Storage
On-Site Pre-Developed Conditions

Tc COMPUTATIONS FOR: Subarea I

SHEET FLOW (Applicable to Tc only)

| | | | |
|---|---|---|---|
| Segment ID | | A to B | |
| Surface description | | Meadow-Hay | |
| Manning's roughness coeff., n | | 0.2400 | |
| Flow length, L (total < or = 300) | ft | 300.0 | |
| Two-yr 24-hr rainfall, P2 | in | 3.500 | |
| Land slope, s | ft/ft | 0.0167 | |
| $T = \frac{.007 * (n*L)^{0.8}}{P2^{0.5} * s^{0.4}}$ | hrs | 0.59 | = 0.59 |

SHALLOW CONCENTRATED FLOW

| | | | |
|---|---|---|---|
| Segment ID | | B to C | |
| Surface (paved or unpaved)? | | Unpaved | |
| Flow length, L | ft | 222.0 | |
| Watercourse slope, s | ft/ft | 0.1130 | |
| $Avg.V = Csf * (s)^{0.5}$ | ft/s | 5.4237 | |
| where: Unpaved Csf = 16.1345 | | | |
| Paved Csf = 20.3282 | | | |
| T = L / (3600*V) | hrs | 0.01 | = 0.01 |

CHANNEL FLOW

| | | | |
|---|---|---|---|
| Segment ID | | | |
| Cross Sectional Flow Area, a | sq.ft | 0.00 | |
| Wetted perimeter, Pw | ft | 0.00 | |
| Hydraulic radius, r = a/Pw | ft | 0.000 | |
| Channel slope, s | ft/ft | 0.0000 | |
| Manning's roughness coeff., n | | 0.0000 | |
| $V = \frac{1.49 * r^{2/3} * s^{1/2}}{n}$ | ft/s | 0.0000 | |
| Flow length, L | ft | 0 | |
| T = L / (3600*V) | hrs | 0.00 | = 0.00 |

::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::

TOTAL TIME (hrs) 0.60

# PEAK RUNOFF RATES

# AND

# RUNOFF HYDROGRAPHS

Return Frequency: 10 years

TR-55 TABULAR HYDROGRAPH METHOD
Type III Distribution
(24 hr. Duration Storm)

Executed: 06-28-1999 10:20:38
Watershed file: --> E:\PONDPACK\SABINI\PRE\PRE .MOP
Hydrograph file: --> E:\PONDPACK\SABINI\PRE\PRE-10.HYD

Safety Storage
Pre-Developed Conditions

Subarea I

>>>> Input Parameters Used to Compute Hydrograph <<<<

| Subarea Description | AREA (acres) | CN | Tc (hrs) | * Tt (hrs) | Precip. (in) | Runoff (in) | Ia/p input/used | |
|---|---|---|---|---|---|---|---|---|
| Subarea I | 5.00 | 71.0 | 0.50 | 0.00 | 5.50 | 2.50 | I.15 | .15 |

* Travel time from subarea outfall to composite watershed outfall point.
I -- Subarea where user specified interpolation between Ia/p tables.

Total area = 5.00 acres or 0.00781 sq.mi
Peak discharge = 8 cfs

>>>> Computer Modifications of Input Parameters <<<<<

| Subarea Description | Input Values Tc (hr) | Input Values * Tt (hr) | Rounded Values Tc (hr) | Rounded Values * Tt (hr) | Ia/p Interpolated (Yes/No) | Ia/p Messages |
|---|---|---|---|---|---|---|
| Subarea I | 0.60 | 0.00 | 0.50 | 0.00 | Yes | -- |

* Travel time from subarea outfall to composite watershed outfall point.

TR-55 TABULAR HYDROGRAPH METHOD
Type III Distribution
(24 hr. Duration Storm)

Executed: 06-28-1999 10:20:38
Watershed file: --> E:\PONDPACK\SABINI\PRE\PRE .MOP
Hydrograph file: --> E:\PONDPACK\SABINI\PRE\PRE-10.HYD

Safety Storage
Pre-Developed Conditions

Subarea I

>>>> Summary of Subarea Times to Peak <<<<

| Subarea | Peak Discharge at Composite Outfall (cfs) | Time to Peak at Composite Outfall (hrs) |
|---|---|---|
| Subarea I | 8 | 12.6 |
| Composite Watershed | 8 | 12.6 |

TR-55 TABULAR HYDROGRAPH METHOD
Type III Distribution
(24 hr. Duration Storm)

Executed: 06-28-1999 10:20:38
Watershed file: --> E:\PONDPACK\SABINI\PRE\PRE .MOP
Hydrograph file: --> E:\PONDPACK\SABINI\PRE\PRE-10.HYD

Safety Storage
Pre-Developed Conditions

Subarea I

Composite Hydrograph Summary (cfs)

| Subarea Description | 11.0 hr | 11.3 hr | 11.6 hr | 11.9 hr | 12.0 hr | 12.1 hr | 12.2 hr | 12.3 hr | 12.4 hr |
|---|---|---|---|---|---|---|---|---|---|
| Subarea I | 0 | 0 | 1 | 1 | 1 | 1 | 2 | 4 | 6 |
| Total (cfs) | 0 | 0 | 1 | 1 | 1 | 1 | 2 | 4 | 6 |

| Subarea Description | 12.5 hr | 12.6 hr | 12.7 hr | 12.8 hr | 13.0 hr | 13.2 hr | 13.4 hr | 13.6 hr | 13.8 hr |
|---|---|---|---|---|---|---|---|---|---|
| Subarea I | 7 | 8 | 7 | 6 | 4 | 3 | 2 | 2 | 1 |
| Total (cfs) | 7 | 8 | 7 | 6 | 4 | 3 | 2 | 2 | 1 |

| Subarea Description | 14.0 hr | 14.3 hr | 14.6 hr | 15.0 hr | 15.5 hr | 16.0 hr | 16.5 hr | 17.0 hr | 17.5 hr |
|---|---|---|---|---|---|---|---|---|---|
| Subarea I | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 |
| Total (cfs) | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 |

| Subarea Description | 18.0 hr | 19.0 hr | 20.0 hr | 22.0 hr | 26.0 hr |
|---|---|---|---|---|---|
| Subarea I | 0 | 0 | 0 | 0 | 0 |
| Total (cfs) | 0 | 0 | 0 | 0 | 0 |

Return Frequency: 25 years

TR-55 TABULAR HYDROGRAPH METHOD
Type III Distribution
(24 hr. Duration Storm)

Executed: 06-28-1999 10:20:38
Watershed file: --> E:\PONDPACK\SABINI\PRE\PRE .MOP
Hydrograph file: --> E:\PONDPACK\SABINI\PRE\PRE-25.HYD

Safety Storage
Pre-Developed Conditions

Subarea I

>>>> Input Parameters Used to Compute Hydrograph <<<<

| Subarea Description | AREA (acres) | CN | Tc (hrs) | * Tt (hrs) | Precip. (in) | Runoff (in) | Ia/p input | Ia/p used |
|---|---|---|---|---|---|---|---|---|
| Subarea I | 5.00 | 71.0 | 0.50 | 0.00 | 6.00 | 2.90 | I.14 | .14 |

* Travel time from subarea outfall to composite watershed outfall point.
I -- Subarea where user specified interpolation between Ia/p tables.

Total area = 5.00 acres or 0.00781 sq.mi
Peak discharge = 9 cfs

>>>> Computer Modifications of Input Parameters <<<<<

| Subarea Description | Input Values Tc (hr) | Input Values * Tt (hr) | Rounded Values Tc (hr) | Rounded Values * Tt (hr) | Ia/p Interpolated (Yes/No) | Ia/p Messages |
|---|---|---|---|---|---|---|
| Subarea I | 0.60 | 0.00 | 0.50 | 0.00 | Yes | -- |

* Travel time from subarea outfall to composite watershed outfall point.

Return Frequency: 25 years

TR-55 TABULAR HYDROGRAPH METHOD
Type III Distribution
(24 hr. Duration Storm)

Executed: 06-28-1999 10:20:38
Watershed file: --> E:\PONDPACK\SABINI\PRE\PRE .MOP
Hydrograph file: --> E:\PONDPACK\SABINI\PRE\PRE-25.HYD

Safety Storage
Pre-Developed Conditions

Subarea I

>>>> Summary of Subarea Times to Peak <<<<

| Subarea | Peak Discharge at Composite Outfall (cfs) | Time to Peak at Composite Outfall (hrs) |
|---|---|---|
| Subarea I | 9 | 12.5 |
| Composite Watershed | 9 | 12.5 |

Return Frequency: 25 years

TR-55 TABULAR HYDROGRAPH METHOD
Type III Distribution
(24 hr. Duration Storm)

Executed: 06-28-1999 10:20:38
Watershed file: --> E:\PONDPACK\SABINI\PRE\PRE .MOP
Hydrograph file: --> E:\PONDPACK\SABINI\PRE\PRE-25.HYD

Safety Storage
Pre-Developed Conditions

Subarea I

Composite Hydrograph Summary (cfs)

| Subarea Description | 11.0 hr | 11.3 hr | 11.6 hr | 11.9 hr | 12.0 hr | 12.1 hr | 12.2 hr | 12.3 hr | 12.4 hr |
|---|---|---|---|---|---|---|---|---|---|
| Subarea I | 0 | 0 | 1 | 1 | 1 | 2 | 3 | 4 | 7 |
| Total (cfs) | 0 | 0 | 1 | 1 | 1 | 2 | 3 | 4 | 7 |

| Subarea Description | 12.5 hr | 12.6 hr | 12.7 hr | 12.8 hr | 13.0 hr | 13.2 hr | 13.4 hr | 13.6 hr | 13.8 hr |
|---|---|---|---|---|---|---|---|---|---|
| Subarea I | 9 | 9 | 9 | 7 | 5 | 3 | 2 | 2 | 2 |
| Total (cfs) | 9 | 9 | 9 | 7 | 5 | 3 | 2 | 2 | 2 |

| Subarea Description | 14.0 hr | 14.3 hr | 14.6 hr | 15.0 hr | 15.5 hr | 16.0 hr | 16.5 hr | 17.0 hr | 17.5 hr |
|---|---|---|---|---|---|---|---|---|---|
| Subarea I | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Total (cfs) | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

| Subarea Description | 18.0 hr | 19.0 hr | 20.0 hr | 22.0 hr | 26.0 hr |
|---|---|---|---|---|---|
| Subarea I | 0 | 0 | 0 | 0 | 0 |
| Total (cfs) | 0 | 0 | 0 | 0 | 0 |

# APPENDIX B

# POST-DEVELOPED CONDITIONS

# RUNOFF CURVE NUMBERS

# AND

# TIMES OF CONCENTRATION

Quick TR-55 Ver.5.46  S/N:
Executed: 10:29:48  06-28-1999

Safety Srtorage
Post-Developed Condition Cn

RUNOFF CURVE NUMBER SUMMARY

| Subarea Description | Area (acres) | CN (weighted) |
|---|---|---|
| Subarea IA | 4.31 | 94 |
| Subarea IB | 0.69 | 70 |

Quick TR-55 Ver.5.46  S/N:
Executed: 10:29:48  06-28-1999

Safety Srtorage
Post-Developed Condition Cn

RUNOFF CURVE NUMBER DATA

Composite Area: Subarea IA

| SURFACE DESCRIPTION | AREA (acres) | CN | |
|---|---|---|---|
| C Soil: bldg & pavement | 3.63 | 98 | |
| C Soil: grass-good | 0.68 | 74 | |
| COMPOSITE AREA ---> | 4.31 | 94.2 | ( 94 ) |

Composite Area: Subarea IB

| SURFACE DESCRIPTION | AREA (acres) | CN | |
|---|---|---|---|
| C Soil: grass-good | 0.69 | 70 | |
| COMPOSITE AREA ---> | 0.69 | 70.0 | ( 70 ) |

Quick TR-55 Ver.5.46  S/N:
Executed: 10:40:38  06-28-1999  e:\pondpack\sabini\post\POST.TCT

SUMMARY SHEET FOR Tc or Tt COMPUTATIONS
(Solved for Time using TR-55 Methods)

Safety Storage
On-Site Post-Developed Conditions

| Subarea descr. | Tc or Tt | Time (hrs) | |
|---|---|---|---|
| Subarea IA | Tc | ~~0.07~~ | USE 0.1 HRS. |
| Subarea IB | Tc | 0.13 | |

Quick TR-55 Ver.5.46  S/N:
Executed: 10:40:38  06-28-1999  e:\pondpack\sabini\post\POST.TCT

Safety Storage
On-Site Post-Developed Conditions

Tc COMPUTATIONS FOR: Subarea IA

SHEET FLOW (Applicable to Tc only)

| | | | |
|---|---|---|---|
| Segment ID | | A to B | |
| Surface description | | pavement | |
| Manning's roughness coeff., n | | 0.0110 | |
| Flow length, L (total < or = 300) | ft | 300.0 | |
| Two-yr 24-hr rainfall, P2 | in | 3.500 | |
| Land slope, s | ft/ft | 0.0200 | |
| $T = \frac{.007 * (n*L)^{0.8}}{P2^{0.5} * s^{0.4}}$ | hrs | 0.05 | = 0.05 |

SHALLOW CONCENTRATED FLOW

| | | | |
|---|---|---|---|
| Segment ID | | B to C | |
| Surface (paved or unpaved)? | | Paved | |
| Flow length, L | ft | 157.0 | |
| Watercourse slope, s | ft/ft | 0.0110 | |
| $Avg.V = Csf * (s)^{0.5}$ | ft/s | 2.1320 | |
| where: Unpaved Csf = 16.1345 | | | |
| Paved Csf = 20.3282 | | | |
| T = L / (3600*V) | hrs | 0.02 | = 0.02 |

CHANNEL FLOW

| | | | |
|---|---|---|---|
| Segment ID | | c tpo d | |
| Cross Sectional Flow Area, a | sq.ft | 1.23 | |
| Wetted perimeter, Pw | ft | 3.93 | |
| Hydraulic radius, r = a/Pw | ft | 0.313 | |
| Channel slope, s | ft/ft | 0.0500 | |
| Manning's roughness coeff., n | | 0.0120 | |
| $V = \frac{1.49 * r^{2/3} * s^{1/2}}{n}$ | ft/s | %12.7987 | |
| Flow length, L | ft | 132 | |
| T = L / (3600*V) | hrs | 0.00 | = 0.00 |

TOTAL TIME (hrs) ~~0.07~~

USE 0.1 HRS

Quick TR-55 Ver.5.46  S/N:
Executed: 10:40:38  06-28-1999  e:\pondpack\sabini\post\POST.TCT

Safety Storage
On-Site Post-Developed Conditions

Tc COMPUTATIONS FOR: Subarea IB

SHEET FLOW (Applicable to Tc only)

| | | | |
|---|---|---|---|
| Segment ID | | A to B | |
| Surface description | | Grass | |
| Manning's roughness coeff., n | | 0.0240 | |
| Flow length, L (total < or = 300) | ft | 300.0 | |
| Two-yr 24-hr rainfall, P2 | in | 3.500 | |
| Land slope, s | ft/ft | 0.0100 | |
| $T = \frac{.007 * (n*L)^{0.8}}{P2^{0.5} * s^{0.4}}$ | hrs | 0.11 | = 0.11 |

SHALLOW CONCENTRATED FLOW

| | | | |
|---|---|---|---|
| Segment ID | | B to C | |
| Surface (paved or unpaved)? | | Unpaved | |
| Flow length, L | ft | 65.0 | |
| Watercourse slope, s | ft/ft | 0.0100 | |
| $Avg.V = Csf * (s)^{0.5}$ | ft/s | 1.6135 | |
| where: Unpaved Csf = 16.1345 | | | |
| Paved Csf = 20.3282 | | | |
| T = L / (3600*V) | hrs | 0.01 | = 0.01 |

CHANNEL FLOW

| | | | |
|---|---|---|---|
| Segment ID | | | |
| Cross Sectional Flow Area, a | sq.ft | 0.00 | |
| Wetted perimeter, Pw | ft | 0.00 | |
| Hydraulic radius, r = a/Pw | ft | 0.000 | |
| Channel slope, s | ft/ft | 0.0000 | |
| Manning's roughness coeff., n | | 0.0000 | |
| $V = \frac{1.49 * r^{2/3} * s^{1/2}}{n}$ | ft/s | 0.0000 | |
| Flow length, L | ft | 0 | |
| T = L / (3600*V) | hrs | 0.00 | = 0.00 |

TOTAL TIME (hrs) 0.13

# PEAK RUNOFF RATES

# AND

# RUNOFF HYDROGRAPHS

Return Frequency: 10 years

TR-55 TABULAR HYDROGRAPH METHOD
Type III Distribution
(24 hr. Duration Storm)

Executed: 06-28-1999 11:45:57
Watershed file: --> E:\PONDPACK\SABINI\POST\IA .MOP
Hydrograph file: --> E:\PONDPACK\SABINI\POST\IA-10.HYD

Safety Storage
PostDeveloped Conditions

Subarea: IA

>>>> Input Parameters Used to Compute Hydrograph <<<<

| Subarea Description | AREA (acres) | CN | Tc (hrs) | * Tt (hrs) | Precip. (in) | Runoff (in) | Ia/p input/used |
|---|---|---|---|---|---|---|---|
| Subarea IA | 4.31 | 94.0 | 0.10 | 0.00 | 5.50 | 4.80 | I.02 .10 |

* Travel time from subarea outfall to composite watershed outfall point.
I -- Subarea where user specified interpolation between Ia/p tables.

Total area = 4.31 acres or 0.00673 sq.mi
Peak discharge = 21 cfs

>>>> Computer Modifications of Input Parameters <<<<<

| Subarea Description | Input Values Tc (hr) | * Tt (hr) | Rounded Values Tc (hr) | * Tt (hr) | Ia/p Interpolated (Yes/No) | Ia/p Messages |
|---|---|---|---|---|---|---|
| Subarea IA | 0.10 | 0.00 | ** | ** | No | Computed Ia/p < .1 |

* Travel time from subarea outfall to composite watershed outfall point.
** Tc & Tt are available in the hydrograph tables.

Return Frequency: 10 years

TR-55 TABULAR HYDROGRAPH METHOD
Type III Distribution
(24 hr. Duration Storm)

Executed: 06-28-1999 11:45:57
Watershed file: --> E:\PONDPACK\SABINI\POST\IA .MOP
Hydrograph file: --> E:\PONDPACK\SABINI\POST\IA-10.HYD

Safety Storage
PostDeveloped Conditions

Subarea: IA

>>>> Summary of Subarea Times to Peak <<<<

| Subarea | Peak Discharge at Composite Outfall (cfs) | Time to Peak at Composite Outfall (hrs) |
|---|---|---|
| Subarea IA | 21 | 12.2 |
| Composite Watershed | 21 | 12.2 |

TR-55 TABULAR HYDROGRAPH METHOD
Type III Distribution
(24 hr. Duration Storm)

Executed: 06-28-1999 11:45:57
Watershed file: --> E:\PONDPACK\SABINI\POST\IA .MOP
Hydrograph file: --> E:\PONDPACK\SABINI\POST\IA-10.HYD

Safety Storage
PostDeveloped Conditions

Subarea: IA

Composite Hydrograph Summary (cfs)

| Subarea Description | 11.0 hr | 11.3 hr | 11.6 hr | 11.9 hr | 12.0 hr | 12.1 hr | 12.2 hr | 12.3 hr | 12.4 hr |
|---|---|---|---|---|---|---|---|---|---|
| Subarea IA | 1 | 1 | 2 | 6 | 8 | 14 | 21 | 17 | 11 |
| Total (cfs) | 1 | 1 | 2 | 6 | 8 | 14 | 21 | 17 | 11 |

| Subarea Description | 12.5 hr | 12.6 hr | 12.7 hr | 12.8 hr | 13.0 hr | 13.2 hr | 13.4 hr | 13.6 hr | 13.8 hr |
|---|---|---|---|---|---|---|---|---|---|
| Subarea IA | 9 | 6 | 4 | 3 | 3 | 2 | 2 | 2 | 2 |
| Total (cfs) | 9 | 6 | 4 | 3 | 3 | 2 | 2 | 2 | 2 |

| Subarea Description | 14.0 hr | 14.3 hr | 14.6 hr | 15.0 hr | 15.5 hr | 16.0 hr | 16.5 hr | 17.0 hr | 17.5 hr |
|---|---|---|---|---|---|---|---|---|---|
| Subarea IA | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Total (cfs) | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

| Subarea Description | 18.0 hr | 19.0 hr | 20.0 hr | 22.0 hr | 26.0 hr |
|---|---|---|---|---|---|
| Subarea IA | 1 | 0 | 0 | 0 | 0 |
| Total (cfs) | 1 | 0 | 0 | 0 | 0 |

Return Frequency: 25 years

TR-55 TABULAR HYDROGRAPH METHOD
Type III Distribution
(24 hr. Duration Storm)

Executed: 06-28-1999 11:45:57
Watershed file: --> E:\PONDPACK\SABINI\POST\IA .MOP
Hydrograph file: --> E:\PONDPACK\SABINI\POST\IA-25.HYD

Safety Storage
PostDeveloped Conditions

Subarea: IA

>>>> Input Parameters Used to Compute Hydrograph <<<<

| Subarea Description | AREA (acres) | CN | Tc (hrs) | * Tt (hrs) | Precip. (in) | Runoff (in) | Ia/p input | Ia/p used |
|---|---|---|---|---|---|---|---|---|
| Subarea IA | 4.31 | 94.0 | 0.10 | 0.00 | 6.00 | 5.30 | I.02 | .10 |

* Travel time from subarea outfall to composite watershed outfall point.
I -- Subarea where user specified interpolation between Ia/p tables.

Total area = 4.31 acres or 0.00673 sq.mi
Peak discharge = 24 cfs

>>>> Computer Modifications of Input Parameters <<<<<

| Subarea Description | Input Values Tc (hr) | Input Values * Tt (hr) | Rounded Values Tc (hr) | Rounded Values * Tt (hr) | Ia/p Interpolated (Yes/No) | Ia/p Messages |
|---|---|---|---|---|---|---|
| Subarea IA | 0.10 | 0.00 | ** | ** | No | Computed Ia/p < .1 |

* Travel time from subarea outfall to composite watershed outfall point.
** Tc & Tt are available in the hydrograph tables.

Return Frequency: 25 years

TR-55 TABULAR HYDROGRAPH METHOD
Type III Distribution
(24 hr. Duration Storm)

Executed: 06-28-1999 11:45:57
Watershed file: --> E:\PONDPACK\SABINI\POST\IA .MOP
Hydrograph file: --> E:\PONDPACK\SABINI\POST\IA-25.HYD

Safety Storage
PostDeveloped Conditions

Subarea: IA

>>>> Summary of Subarea Times to Peak <<<<

| Subarea | Peak Discharge at Composite Outfall (cfs) | Time to Peak at Composite Outfall (hrs) |
|---|---|---|
| Subarea IA | 24 | 12.2 |
| Composite Watershed | 24 | 12.2 |

Return Frequency: 25 years

TR-55 TABULAR HYDROGRAPH METHOD
Type III Distribution
(24 hr. Duration Storm)

Executed: 06-28-1999 11:45:57
Watershed file: --> E:\PONDPACK\SABINI\POST\IA .MOP
Hydrograph file: --> E:\PONDPACK\SABINI\POST\IA-25.HYD

Safety Storage
PostDeveloped Conditions

Subarea: IA

Composite Hydrograph Summary (cfs)

| Subarea Description | 11.0 hr | 11.3 hr | 11.6 hr | 11.9 hr | 12.0 hr | 12.1 hr | 12.2 hr | 12.3 hr | 12.4 hr |
|---|---|---|---|---|---|---|---|---|---|
| Subarea IA | 1 | 1 | 2 | 6 | 9 | 15 | 24 | 19 | 12 |
| Total (cfs) | 1 | 1 | 2 | 6 | 9 | 15 | 24 | 19 | 12 |

| Subarea Description | 12.5 hr | 12.6 hr | 12.7 hr | 12.8 hr | 13.0 hr | 13.2 hr | 13.4 hr | 13.6 hr | 13.8 hr |
|---|---|---|---|---|---|---|---|---|---|
| Subarea IA | 9 | 7 | 5 | 4 | 3 | 2 | 2 | 2 | 2 |
| Total (cfs) | 9 | 7 | 5 | 4 | 3 | 2 | 2 | 2 | 2 |

| Subarea Description | 14.0 hr | 14.3 hr | 14.6 hr | 15.0 hr | 15.5 hr | 16.0 hr | 16.5 hr | 17.0 hr | 17.5 hr |
|---|---|---|---|---|---|---|---|---|---|
| Subarea IA | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Total (cfs) | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

| Subarea Description | 18.0 hr | 19.0 hr | 20.0 hr | 22.0 hr | 26.0 hr |
|---|---|---|---|---|---|
| Subarea IA | 1 | 0 | 0 | 0 | 0 |
| Total (cfs) | 1 | 0 | 0 | 0 | 0 |

Return Frequency: 10 years

TR-55 TABULAR HYDROGRAPH METHOD
Type III Distribution
(24 hr. Duration Storm)

Executed: 06-28-1999 11:43:59
Watershed file: --> E:\PONDPACK\SABINI\POST\IB .MOP
Hydrograph file: --> E:\PONDPACK\SABINI\POST\IB-10.HYD

Safety Storage
PostDeveloped Conditions

Subarea: IB

>>>> Input Parameters Used to Compute Hydrograph <<<<

| Subarea Description | AREA (acres) | CN | Tc (hrs) | * Tt (hrs) | Precip. (in) | Runoff (in) | Ia/p input/used | |
|---|---|---|---|---|---|---|---|---|
| Subarea Ib | 0.69 | 70.0 | 0.10 | 0.00 | 5.50 | 2.41 | I.16 | .16 |

* Travel time from subarea outfall to composite watershed outfall point.
I -- Subarea where user specified interpolation between Ia/p tables.

Total area = 0.69 acres or 0.00108 sq.mi
Peak discharge = 2 cfs

>>>> Computer Modifications of Input Parameters <<<<<

| Subarea Description | Input Values Tc (hr) | Input Values * Tt (hr) | Rounded Values Tc (hr) | Rounded Values * Tt (hr) | Ia/p Interpolated (Yes/No) | Ia/p Messages |
|---|---|---|---|---|---|---|
| Subarea Ib | 0.13 | 0.00 | 0.10 | 0.00 | Yes | -- |

* Travel time from subarea outfall to composite watershed outfall point.

Return Frequency: 10 years

TR-55 TABULAR HYDROGRAPH METHOD
Type III Distribution
(24 hr. Duration Storm)

Executed: 06-28-1999 11:43:59
Watershed file: --> E:\PONDPACK\SABINI\POST\IB .MOP
Hydrograph file: --> E:\PONDPACK\SABINI\POST\IB-10.HYD

Safety Storage
PostDeveloped Conditions

Subarea: IB

>>>> Summary of Subarea Times to Peak <<<<

| Subarea | Peak Discharge at Composite Outfall (cfs) | Time to Peak at Composite Outfall (hrs) |
|---|---|---|
| Subarea Ib | 2 | 12.2 |
| Composite Watershed | 2 | 12.2 |

TR-55 TABULAR HYDROGRAPH METHOD
Type III Distribution
(24 hr. Duration Storm)

Executed: 06-28-1999 11:43:59
Watershed file: --> E:\PONDPACK\SABINI\POST\IB .MOP
Hydrograph file: --> E:\PONDPACK\SABINI\POST\IB-10.HYD

Safety Storage
PostDeveloped Conditions

Subarea: IB

Composite Hydrograph Summary (cfs)

| Subarea Description | 11.0 hr | 11.3 hr | 11.6 hr | 11.9 hr | 12.0 hr | 12.1 hr | 12.2 hr | 12.3 hr | 12.4 hr |
|---|---|---|---|---|---|---|---|---|---|
| Subarea Ib | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 1 | 1 |
| Total (cfs) | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 1 | 1 |

| Subarea Description | 12.5 hr | 12.6 hr | 12.7 hr | 12.8 hr | 13.0 hr | 13.2 hr | 13.4 hr | 13.6 hr | 13.8 hr |
|---|---|---|---|---|---|---|---|---|---|
| Subarea Ib | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total (cfs) | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| Subarea Description | 14.0 hr | 14.3 hr | 14.6 hr | 15.0 hr | 15.5 hr | 16.0 hr | 16.5 hr | 17.0 hr | 17.5 hr |
|---|---|---|---|---|---|---|---|---|---|
| Subarea Ib | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total (cfs) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| Subarea Description | 18.0 hr | 19.0 hr | 20.0 hr | 22.0 hr | 26.0 hr |
|---|---|---|---|---|---|
| Subarea Ib | 0 | 0 | 0 | 0 | 0 |
| Total (cfs) | 0 | 0 | 0 | 0 | 0 |

Return Frequency: 25 years

TR-55 TABULAR HYDROGRAPH METHOD
Type III Distribution
(24 hr. Duration Storm)

Executed: 06-28-1999 11:43:59
Watershed file: --> E:\PONDPACK\SABINI\POST\IB .MOP
Hydrograph file: --> E:\PONDPACK\SABINI\POST\IB-25.HYD

Safety Storage
PostDeveloped Conditions

Subarea: IB

>>>> Input Parameters Used to Compute Hydrograph <<<<

| Subarea Description | AREA (acres) | CN | Tc (hrs) | * Tt (hrs) | Precip. (in) | Runoff (in) | Ia/p input/used |
|---|---|---|---|---|---|---|---|
| Subarea Ib | 0.69 | 70.0 | 0.10 | 0.00 | 6.00 | 2.81 | I.14 .14 |

* Travel time from subarea outfall to composite watershed outfall point.
I -- Subarea where user specified interpolation between Ia/p tables.

Total area = 0.69 acres or 0.00108 sq.mi
Peak discharge = 2 cfs

>>>> Computer Modifications of Input Parameters <<<<<

| Subarea Description | Input Values Tc (hr) | Input Values * Tt (hr) | Rounded Values Tc (hr) | Rounded Values * Tt (hr) | Ia/p Interpolated (Yes/No) | Ia/p Messages |
|---|---|---|---|---|---|---|
| Subarea Ib | 0.13 | 0.00 | 0.10 | 0.00 | Yes | -- |

* Travel time from subarea outfall to composite watershed outfall point.

TR-55 TABULAR HYDROGRAPH METHOD
Type III Distribution
(24 hr. Duration Storm)

Executed: 06-28-1999 11:43:59
Watershed file: --> E:\PONDPACK\SABINI\POST\IB .MOP
Hydrograph file: --> E:\PONDPACK\SABINI\POST\IB-25.HYD

Safety Storage
PostDeveloped Conditions

Subarea: IB

>>>> Summary of Subarea Times to Peak <<<<

| Subarea | Peak Discharge at Composite Outfall (cfs) | Time to Peak at Composite Outfall (hrs) |
|---|---|---|
| Subarea Ib | 2 | 12.2 |
| Composite Watershed | 2 | 12.2 |

TR-55 TABULAR HYDROGRAPH METHOD
Type III Distribution
(24 hr. Duration Storm)

Executed: 06-28-1999 11:43:59
Watershed file: --> E:\PONDPACK\SABINI\POST\IB .MOP
Hydrograph file: --> E:\PONDPACK\SABINI\POST\IB-25.HYD

Safety Storage
PostDeveloped Conditions

Subarea: IB

Composite Hydrograph Summary (cfs)

| Subarea Description | 11.0 hr | 11.3 hr | 11.6 hr | 11.9 hr | 12.0 hr | 12.1 hr | 12.2 hr | 12.3 hr | 12.4 hr |
|---|---|---|---|---|---|---|---|---|---|
| Subarea Ib | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 2 | 1 |
| Total (cfs) | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 2 | 1 |

| Subarea Description | 12.5 hr | 12.6 hr | 12.7 hr | 12.8 hr | 13.0 hr | 13.2 hr | 13.4 hr | 13.6 hr | 13.8 hr |
|---|---|---|---|---|---|---|---|---|---|
| Subarea Ib | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total (cfs) | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| Subarea Description | 14.0 hr | 14.3 hr | 14.6 hr | 15.0 hr | 15.5 hr | 16.0 hr | 16.5 hr | 17.0 hr | 17.5 hr |
|---|---|---|---|---|---|---|---|---|---|
| Subarea Ib | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total (cfs) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| Subarea Description | 18.0 hr | 19.0 hr | 20.0 hr | 22.0 hr | 26.0 hr |
|---|---|---|---|---|---|
| Subarea Ib | 0 | 0 | 0 | 0 | 0 |
| Total (cfs) | 0 | 0 | 0 | 0 | 0 |

# POND ROUTING

POND-2 Version: 5.21
S/N:

Sabini Safety Storage
Setention Pond

CALCULATED 06-28-1999 11:56:30
DISK FILE: e:\pondpack\sabini\post\POND .VOL

Planimeter scale: 1 inch = 30 ft.

| Elevation (ft) | Planimeter (sq.in.) | Area (acres) | A1+A2+sqr(A1*A2) (acres) | Volume* (acre-ft) | Volume Sum (acre-ft) |
|---|---|---|---|---|---|
| 491.00 | 6.14 | 0.13 | 0.00 | 0.00 | 0.00 |
| 492.00 | 7.07 | 0.15 | 0.41 | 0.14 | 0.14 |
| 493.00 | 8.05 | 0.17 | 0.47 | 0.16 | 0.29 |
| 494.00 | 9.07 | 0.19 | 0.53 | 0.18 | 0.47 |
| 495.00 | 10.15 | 0.21 | 0.60 | 0.20 | 0.67 |
| 496.00 | 11.29 | 0.23 | 0.66 | 0.22 | 0.89 |
| 497.00 | 12.47 | 0.26 | 0.74 | 0.25 | 1.13 |

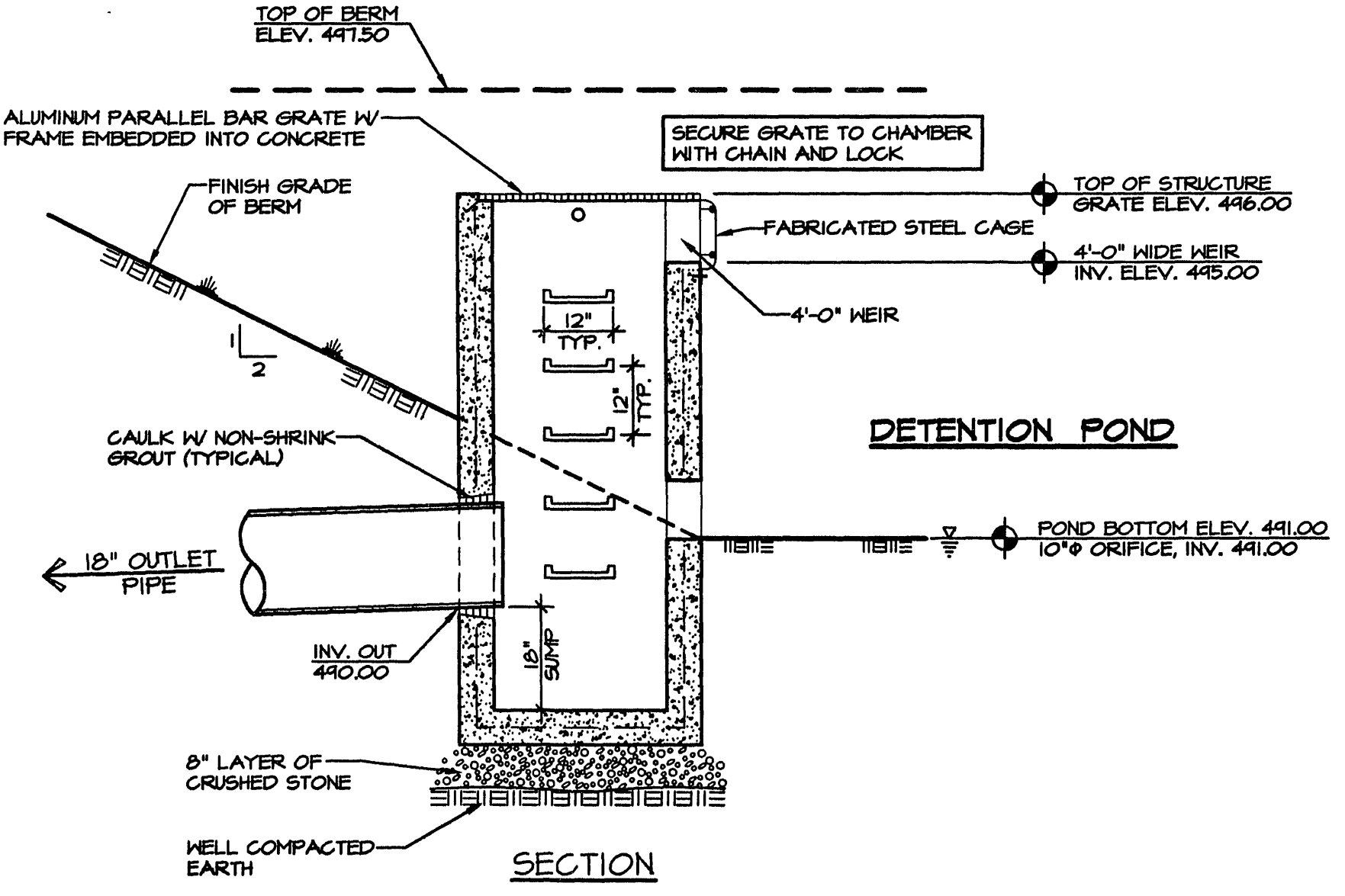
$$IA = (sq.rt(Area1) + ((Ei-E1)/(E2-E1))*(sq.rt(Area2)-sq.rt(Area1)))^2$$

where: E1, E2 = Closest two elevations with planimeter data
Ei = Elevation at which to interpolate area
Area1,Area2 = Areas computed for E1, E2, respectively
IA = Interpolated area for Ei

* Incremental volume computed by the Conic Method for Reservoir Volumes.

Volume = (1/3) * (EL2-EL1) * (Area1 + Area2 + sq.rt.(Area1*Area2))

where: EL1, EL2 = Lower and upper elevations of the increment
Area1,Area2 = Areas computed for EL1, EL2, respectively
Volume = Incremental volume between EL1 and EL2




# DETENTION POND
# OUTLET CONTROL STRUCTURE

NOT TO SCALE

**SHAW ENGINEERING**
744 Broadway
P.O. Box 2569
NEWBURGH, NEW YORK 12550
(914) 561-3695

JOB _____

SHEET NO. _____ OF _____

CALCULATED BY _____ DATE _____

CHECKED BY _____ DATE _____

SCALE _____

# OUTLET CONTROL STRUCTURE

ORIFICE: $Q = CA\sqrt{2GH}$

10": $Q = .65\left(.785 \times \left(\frac{10}{12}\right)^2\right)\sqrt{64.4H}$

$= .65\,(.541)\,8.03\sqrt{H}$

$= 2.822\sqrt{H}$

WEIR: $Q = CL(H)^{1\frac{1}{2}}$

4': $Q = 3.0 \times 4.0 \times H^{1\frac{1}{2}}$

$= 12\,H^{1\frac{1}{2}}$

| STAGE | Q 10" ORIFICE | Q 4' WEIR | Q TOTAL |
|---|---|---|---|
| 491.00 | 0 CFS | – | 0 CFS |
| 491.42 | 0.9 | – | 0.9 |
| 491.83 | 1.8 | – | 1.8 |
| 492.00 | 2.2 | – | 2.2 |
| 493.00 | 3.5 | – | 3.5 |
| 494.00 | 4.5 | – | 4.5 |
| 495.00 | 5.3 | 0 | 5.3 |
| 496.00 | 6.0 | 12.0 | 18.0 |

Outlet Structure File: POND .STR

POND-2 Version: 5.21 S/N:
Date Executed: Time Executed:

**********
Safety Storage
Detention Pond
10 Inch Orifice @ 491.00
4 Foot Wide Weir @ 495.00
**********

***** COMPOSITE OUTFLOW SUMMARY ****

| Elevation (ft) | Q (cfs) | Contributing Structures |
|---|---|---|
| 491.00 | 0.0 | 1 |
| 491.50 | 1.1 | 1 |
| 492.00 | 2.2 | 1 |
| 492.50 | 2.8 | 1 |
| 493.00 | 3.5 | 1 |
| 493.50 | 4.0 | 1 |
| 494.00 | 4.5 | 1 |
| 494.50 | 4.9 | 1 |
| 495.00 | 5.3 | 1 |
| 495.50 | 11.6 | 1 |
| 496.00 | 18.0 | 1 |

Outlet Structure File: POND .STR

POND-2 Version: 5.21 S/N:
Date Executed: Time Executed:

**********
Safety Storage
Detention Pond
10 Inch Orifice @ 491.00
4 Foot Wide Weir @ 495.00
**********

Outlet Structure File: e:\pondpack\sabini\post\POND .STR
Planimeter Input File: e:\pondpack\sabini\post\POND .VOL
Rating Table Output File: e:\pondpack\sabini\post\POND .PND

Min. Elev.(ft) = 491 Max. Elev.(ft) = 496 Incr.(ft) = .5

Additional elevations (ft) to be included in table:
* * * * * * * * * * * * * * * * * * * * * * * * * * * *

**********
SYSTEM CONNECTIVITY
**********

| Structure | No. | Q Table | | Q Table |
|---|---|---|---|---|
| TABLE | 1 | | -> | 1 |

Outflow rating table summary was stored in file:
e:\pondpack\sabini\post\POND .PND

Outlet Structure File: POND .STR

POND-2 Version: 5.21 S/N:
Date Executed: Time Executed:

**********
Safety Storage
Detention Pond
10 Inch Orifice @ 491.00
4 Foot Wide Weir @ 495.00
**********

>>>>>> Structure No. 1 <<<<<<
(Input Data)

TABLE
Input your own rating table.
E1 (ft) = 491 E2 (ft) = 496.001

Constant (ft) added to each elevation was: 491

| Elev. (ft) | Q (cfs) |
|---|---|
| 491 | 0 |
| 491.42 | .9 |
| 491.83 | 1.8 |
| 492 | 2.2 |
| 493 | 3.5 |
| 494 | 4.5 |
| 495 | 5.3 |
| 496 | 18 |

Outlet Structure File: POND .STR

POND-2 Version: 5.21 S/N:
Date Executed: Time Executed:

**********
Safety Storage
Detention Pond
10 Inch Orifice @ 491.00
4 Foot Wide Weir @ 495.00
**********

Outflow Rating Table for Structure #1
TABLE Input your own rating table.

| Elevation (ft) | Q (cfs) | Computation Messages |
|---|---|---|
| 491.00 | 0.0 | |
| 491.50 | 1.1 | Interpolated from input table |
| 492.00 | 2.2 | |
| 492.50 | 2.8 | Interpolated from input table |
| 493.00 | 3.5 | |
| 493.50 | 4.0 | Interpolated from input table |
| 494.00 | 4.5 | |
| 494.50 | 4.9 | Interpolated from input table |
| 495.00 | 5.3 | |
| 495.50 | 11.6 | Interpolated from input table |
| 496.00 | 18.0 | |

**********
* *
* Safety Storage *
* *
* *
* *
* *
**********

Inflow Hydrograph: e:\pondpack\sabini\post\IA-10 .HYD
Rating Table file: e:\pondpack\sabini\post\POND .PND

----INITIAL CONDITIONS----
Elevation = 491.00 ft
Outflow = 0.00 cfs
Storage = 0.00 ac-ft

| GIVEN POND DATA | | | INTERMEDIATE ROUTING COMPUTATIONS | |
|---|---|---|---|---|
| ELEVATION (ft) | OUTFLOW (cfs) | STORAGE (ac-ft) | 2S/t (cfs) | 2S/t + O (cfs) |
| 491.00 | 0.0 | 0.000 | 0.0 | 0.0 |
| 491.50 | 1.1 | 0.066 | 15.9 | 17.0 |
| 492.00 | 2.2 | 0.136 | 33.0 | 35.2 |
| 492.50 | 2.8 | 0.212 | 51.3 | 54.1 |
| 493.00 | 3.5 | 0.292 | 70.8 | 74.3 |
| 493.50 | 4.0 | 0.378 | 91.5 | 95.5 |
| 494.00 | 4.5 | 0.469 | 113.5 | 118.0 |
| 494.50 | 4.9 | 0.566 | 136.9 | 141.8 |
| 495.00 | 5.3 | 0.668 | 161.6 | 166.9 |
| 495.50 | 11.6 | 0.775 | 187.6 | 199.2 |
| 496.00 | 18.0 | 0.889 | 215.1 | 233.1 |

Time increment (t) = 0.100 hrs.

Pond File: e:\pondpack\sabini\post\POND .PND
Inflow Hydrograph: e:\pondpack\sabini\post\IA-10 .HYD
Outflow Hydrograph: e:\pondpack\sabini\post\OUT-10 .HYD

| INFLOW HYDROGRAPH | | ROUTING COMPUTATIONS | | | | |
|---|---|---|---|---|---|---|
| TIME (hrs) | INFLOW (cfs) | I1+I2 (cfs) | 2S/t - O (cfs) | 2S/t + O (cfs) | OUTFLOW (cfs) | ELEVATION (ft) |
| 11.000 | 1.00 | ----- | 0.0 | 0.0 | 0.00 | 491.00 |
| 11.100 | 1.00 | 2.0 | 1.7 | 2.0 | 0.13 | 491.06 |
| 11.200 | 1.00 | 2.0 | 3.3 | 3.7 | 0.24 | 491.11 |
| 11.300 | 1.00 | 2.0 | 4.6 | 5.3 | 0.34 | 491.15 |
| 11.400 | 1.00 | 2.0 | 5.7 | 6.6 | 0.43 | 491.19 |
| 11.500 | 2.00 | 3.0 | 7.6 | 8.7 | 0.56 | 491.26 |
| 11.600 | 2.00 | 4.0 | 10.1 | 11.6 | 0.75 | 491.34 |
| 11.700 | 3.00 | 5.0 | 13.1 | 15.1 | 0.98 | 491.44 |
| 11.800 | 5.00 | 8.0 | 18.4 | 21.1 | 1.35 | 491.61 |
| 11.900 | 6.00 | 11.0 | 25.7 | 29.4 | 1.85 | 491.84 |
| 12.000 | 8.00 | 14.0 | 35.1 | 39.7 | 2.34 | 492.12 |
| 12.100 | 14.00 | 22.0 | 51.2 | 57.1 | 2.90 | 492.57 |
| 12.200 | 21.00 | 35.0 | 78.7 | 86.2 | 3.78 | 493.28 |
| 12.300 | 17.00 | 38.0 | 107.7 | 116.7 | 4.47 | 493.97 |
| 12.400 | 11.00 | 28.0 | 126.1 | 135.7 | 4.80 | 494.37 |
| 12.500 | 9.00 | 20.0 | 136.2 | 146.1 | 4.97 | 494.59 |
| 12.600 | 6.00 | 15.0 | 141.1 | 151.2 | 5.05 | 494.69 |
| 12.700 | 4.00 | 10.0 | 141.0 | 151.1 | 5.05 | 494.69 |
| 12.800 | 3.00 | 7.0 | 138.0 | 148.0 | 5.00 | 494.62 |
| 12.900 | 3.00 | 6.0 | 134.1 | 144.0 | 4.94 | 494.54 |
| 13.000 | 3.00 | 6.0 | 130.4 | 140.1 | 4.87 | 494.47 |
| 13.100 | 2.00 | 5.0 | 125.8 | 135.4 | 4.79 | 494.37 |
| 13.200 | 2.00 | 4.0 | 120.4 | 129.8 | 4.70 | 494.25 |
| 13.300 | 2.00 | 4.0 | 115.2 | 124.4 | 4.61 | 494.13 |
| 13.400 | 2.00 | 4.0 | 110.2 | 119.2 | 4.52 | 494.02 |
| 13.500 | 2.00 | 4.0 | 105.3 | 114.2 | 4.41 | 493.91 |
| 13.600 | 2.00 | 4.0 | 100.7 | 109.3 | 4.31 | 493.81 |
| 13.700 | 2.00 | 4.0 | 96.3 | 104.7 | 4.20 | 493.70 |
| 13.800 | 2.00 | 4.0 | 92.1 | 100.3 | 4.11 | 493.61 |
| 13.900 | 2.00 | 4.0 | 88.1 | 96.1 | 4.01 | 493.51 |
| 14.000 | 2.00 | 4.0 | 84.2 | 92.1 | 3.92 | 493.42 |
| 14.100 | 2.00 | 4.0 | 80.6 | 88.2 | 3.83 | 493.33 |
| 14.200 | 1.00 | 3.0 | 76.1 | 83.6 | 3.72 | 493.22 |
| 14.300 | 1.00 | 2.0 | 71.0 | 78.1 | 3.59 | 493.09 |
| 14.400 | 1.00 | 2.0 | 66.1 | 73.0 | 3.45 | 492.97 |
| 14.500 | 1.00 | 2.0 | 61.5 | 68.1 | 3.28 | 492.85 |
| 14.600 | 1.00 | 2.0 | 57.2 | 63.5 | 3.13 | 492.73 |
| 14.700 | 1.00 | 2.0 | 53.3 | 59.2 | 2.98 | 492.63 |
| 14.800 | 1.00 | 2.0 | 49.6 | 55.3 | 2.84 | 492.53 |
| 14.900 | 1.00 | 2.0 | 46.1 | 51.6 | 2.72 | 492.43 |
| 15.000 | 1.00 | 2.0 | 42.9 | 48.1 | 2.61 | 492.34 |
| 15.100 | 1.00 | 2.0 | 39.9 | 44.9 | 2.51 | 492.26 |
| 15.200 | 1.00 | 2.0 | 37.1 | 41.9 | 2.41 | 492.18 |
| 15.300 | 1.00 | 2.0 | 34.4 | 39.1 | 2.32 | 492.10 |
| 15.400 | 1.00 | 2.0 | 32.0 | 36.4 | 2.24 | 492.03 |

Pond File: e:\pondpack\sabini\post\POND .PND
Inflow Hydrograph: e:\pondpack\sabini\post\IA-10 .HYD
Outflow Hydrograph: e:\pondpack\sabini\post\OUT-10 .HYD

| INFLOW HYDROGRAPH | | ROUTING COMPUTATIONS | | | | |
|---|---|---|---|---|---|---|
| TIME (hrs) | INFLOW (cfs) | I1+I2 (cfs) | 2S/t - O (cfs) | 2S/t + O (cfs) | OUTFLOW (cfs) | ELEVATION (ft) |
| 15.500 | 1.00 | 2.0 | 29.7 | 34.0 | 2.12 | 491.97 |
| 15.600 | 1.00 | 2.0 | 27.7 | 31.7 | 1.99 | 491.90 |
| 15.700 | 1.00 | 2.0 | 26.0 | 29.7 | 1.87 | 491.85 |
| 15.800 | 1.00 | 2.0 | 24.5 | 28.0 | 1.76 | 491.80 |
| 15.900 | 1.00 | 2.0 | 23.1 | 26.5 | 1.67 | 491.76 |
| 16.000 | 1.00 | 2.0 | 21.9 | 25.1 | 1.59 | 491.72 |
| 16.100 | 1.00 | 2.0 | 20.9 | 23.9 | 1.52 | 491.69 |
| 16.200 | 1.00 | 2.0 | 20.0 | 22.9 | 1.46 | 491.66 |
| 16.300 | 1.00 | 2.0 | 19.2 | 22.0 | 1.40 | 491.64 |
| 16.400 | 1.00 | 2.0 | 18.5 | 21.2 | 1.35 | 491.61 |
| 16.500 | 1.00 | 2.0 | 17.9 | 20.5 | 1.31 | 491.60 |
| 16.600 | 1.00 | 2.0 | 17.3 | 19.9 | 1.27 | 491.58 |
| 16.700 | 1.00 | 2.0 | 16.8 | 19.3 | 1.24 | 491.56 |
| 16.800 | 1.00 | 2.0 | 16.4 | 18.8 | 1.21 | 491.55 |
| 16.900 | 1.00 | 2.0 | 16.1 | 18.4 | 1.18 | 491.54 |
| 17.000 | 1.00 | 2.0 | 15.7 | 18.1 | 1.16 | 491.53 |
| 17.100 | 1.00 | 2.0 | 15.4 | 17.7 | 1.14 | 491.52 |
| 17.200 | 1.00 | 2.0 | 15.2 | 17.4 | 1.13 | 491.51 |
| 17.300 | 1.00 | 2.0 | 15.0 | 17.2 | 1.11 | 491.50 |
| 17.400 | 1.00 | 2.0 | 14.8 | 17.0 | 1.10 | 491.50 |
| 17.500 | 1.00 | 2.0 | 14.6 | 16.8 | 1.08 | 491.49 |
| 17.600 | 1.00 | 2.0 | 14.5 | 16.6 | 1.07 | 491.49 |
| 17.700 | 1.00 | 2.0 | 14.3 | 16.5 | 1.06 | 491.48 |
| 17.800 | 1.00 | 2.0 | 14.2 | 16.3 | 1.06 | 491.48 |
| 17.900 | 1.00 | 2.0 | 14.1 | 16.2 | 1.05 | 491.48 |
| 18.000 | 1.00 | 2.0 | 14.0 | 16.1 | 1.04 | 491.47 |
| 18.100 | 1.00 | 2.0 | 14.0 | 16.0 | 1.04 | 491.47 |
| 18.200 | 1.00 | 2.0 | 13.9 | 16.0 | 1.03 | 491.47 |
| 18.300 | 1.00 | 2.0 | 13.8 | 15.9 | 1.03 | 491.47 |
| 18.400 | 1.00 | 2.0 | 13.8 | 15.8 | 1.02 | 491.47 |
| 18.500 | 0.00 | 1.0 | 12.9 | 14.8 | 0.96 | 491.43 |
| 18.600 | 0.00 | 0.0 | 11.2 | 12.9 | 0.83 | 491.38 |
| 18.700 | 0.00 | 0.0 | 9.8 | 11.2 | 0.73 | 491.33 |
| 18.800 | 0.00 | 0.0 | 8.5 | 9.8 | 0.63 | 491.29 |
| 18.900 | 0.00 | 0.0 | 7.4 | 8.5 | 0.55 | 491.25 |
| 19.000 | 0.00 | 0.0 | 6.4 | 7.4 | 0.48 | 491.22 |
| 19.100 | 0.00 | 0.0 | 5.6 | 6.4 | 0.42 | 491.19 |
| 19.200 | 0.00 | 0.0 | 4.9 | 5.6 | 0.36 | 491.16 |
| 19.300 | 0.00 | 0.0 | 4.3 | 4.9 | 0.32 | 491.14 |
| 19.400 | 0.00 | 0.0 | 3.7 | 4.3 | 0.28 | 491.13 |
| 19.500 | 0.00 | 0.0 | 3.2 | 3.7 | 0.24 | 491.11 |
| 19.600 | 0.00 | 0.0 | 2.8 | 3.2 | 0.21 | 491.09 |
| 19.700 | 0.00 | 0.0 | 2.4 | 2.8 | 0.18 | 491.08 |
| 19.800 | 0.00 | 0.0 | 2.1 | 2.4 | 0.16 | 491.07 |
| 19.900 | 0.00 | 0.0 | 1.9 | 2.1 | 0.14 | 491.06 |
| 20.000 | 0.00 | 0.0 | 1.6 | 1.9 | 0.12 | 491.05 |

Pond File: e:\pondpack\sabini\post\POND .PND
Inflow Hydrograph: e:\pondpack\sabini\post\IA-10 .HYD
Outflow Hydrograph: e:\pondpack\sabini\post\OUT-10 .HYD

| INFLOW HYDROGRAPH | | ROUTING COMPUTATIONS | | | | |
|---|---|---|---|---|---|---|
| TIME (hrs) | INFLOW (cfs) | I1+I2 (cfs) | 2S/t - O (cfs) | 2S/t + O (cfs) | OUTFLOW (cfs) | ELEVATION (ft) |
| 20.100 | 0.00 | 0.0 | 1.4 | 1.6 | 0.10 | 491.05 |
| 20.200 | 0.00 | 0.0 | 1.2 | 1.4 | 0.09 | 491.04 |
| 20.300 | 0.00 | 0.0 | 1.1 | 1.2 | 0.08 | 491.04 |
| 20.400 | 0.00 | 0.0 | 0.9 | 1.1 | 0.07 | 491.03 |
| 20.500 | 0.00 | 0.0 | 0.8 | 0.9 | 0.06 | 491.03 |
| 20.600 | 0.00 | 0.0 | 0.7 | 0.8 | 0.05 | 491.02 |
| 20.700 | 0.00 | 0.0 | 0.6 | 0.7 | 0.05 | 491.02 |
| 20.800 | 0.00 | 0.0 | 0.5 | 0.6 | 0.04 | 491.02 |
| 20.900 | 0.00 | 0.0 | 0.5 | 0.5 | 0.03 | 491.02 |
| 21.000 | 0.00 | 0.0 | 0.4 | 0.5 | 0.03 | 491.01 |
| 21.100 | 0.00 | 0.0 | 0.4 | 0.4 | 0.03 | 491.01 |
| 21.200 | 0.00 | 0.0 | 0.3 | 0.4 | 0.02 | 491.01 |
| 21.300 | 0.00 | 0.0 | 0.3 | 0.3 | 0.02 | 491.01 |
| 21.400 | 0.00 | 0.0 | 0.2 | 0.3 | 0.02 | 491.01 |
| 21.500 | 0.00 | 0.0 | 0.2 | 0.2 | 0.02 | 491.01 |
| 21.600 | 0.00 | 0.0 | 0.2 | 0.2 | 0.01 | 491.01 |
| 21.700 | 0.00 | 0.0 | 0.2 | 0.2 | 0.01 | 491.01 |
| 21.800 | 0.00 | 0.0 | 0.1 | 0.2 | 0.01 | 491.00 |
| 21.900 | 0.00 | 0.0 | 0.1 | 0.1 | 0.01 | 491.00 |
| 22.000 | 0.00 | 0.0 | 0.1 | 0.1 | 0.01 | 491.00 |
| 22.100 | 0.00 | 0.0 | 0.1 | 0.1 | 0.01 | 491.00 |
| 22.200 | 0.00 | 0.0 | 0.1 | 0.1 | 0.01 | 491.00 |
| 22.300 | 0.00 | 0.0 | 0.1 | 0.1 | 0.00 | 491.00 |
| 22.400 | 0.00 | 0.0 | 0.1 | 0.1 | 0.00 | 491.00 |
| 22.500 | 0.00 | 0.0 | 0.1 | 0.1 | 0.00 | 491.00 |
| 22.600 | 0.00 | 0.0 | 0.0 | 0.1 | 0.00 | 491.00 |
| 22.700 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 491.00 |
| 22.800 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 491.00 |
| 22.900 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 491.00 |
| 23.000 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 491.00 |
| 23.100 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 491.00 |
| 23.200 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 491.00 |
| 23.300 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 491.00 |
| 23.400 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 491.00 |
| 23.500 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 491.00 |
| 23.600 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 491.00 |
| 23.700 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 491.00 |
| 23.800 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 491.00 |
| 23.900 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 491.00 |
| 24.000 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 491.00 |
| 24.100 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 491.00 |
| 24.200 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 491.00 |
| 24.300 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 491.00 |
| 24.400 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 491.00 |
| 24.500 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 491.00 |
| 24.600 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 491.00 |

Pond File: e:\pondpack\sabini\post\POND .PND
Inflow Hydrograph: e:\pondpack\sabini\post\IA-10 .HYD
Outflow Hydrograph: e:\pondpack\sabini\post\OUT-10 .HYD

| INFLOW HYDROGRAPH | | ROUTING COMPUTATIONS | | | | |
|---|---|---|---|---|---|---|
| TIME (hrs) | INFLOW (cfs) | I1+I2 (cfs) | 2S/t - O (cfs) | 2S/t + O (cfs) | OUTFLOW (cfs) | ELEVATION (ft) |
| 24.700 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 491.00 |
| 24.800 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 491.00 |
| 24.900 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 491.00 |
| 25.000 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 491.00 |
| 25.100 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 491.00 |
| 25.200 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 491.00 |
| 25.300 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 491.00 |
| 25.400 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 491.00 |
| 25.500 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 491.00 |
| 25.600 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 491.00 |
| 25.700 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 491.00 |
| 25.800 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 491.00 |
| 25.900 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 491.00 |

********** SUMMARY OF ROUTING COMPUTATIONS **********

Pond File: e:\pondpack\sabini\post\POND .PND
Inflow Hydrograph: e:\pondpack\sabini\post\IA-10 .HYD
Outflow Hydrograph: e:\pondpack\sabini\post\OUT-10 .HYD

Starting Pond W.S. Elevation = 491.00 ft

***** Summary of Peak Outflow and Peak Elevation *****

| | | |
|---|---|---|
| Peak Inflow | = | 21.00 cfs |
| Peak Outflow | = | 5.05 cfs |
| Peak Elevation | = | 494.69 ft |

***** Summary of Approximate Peak Storage *****

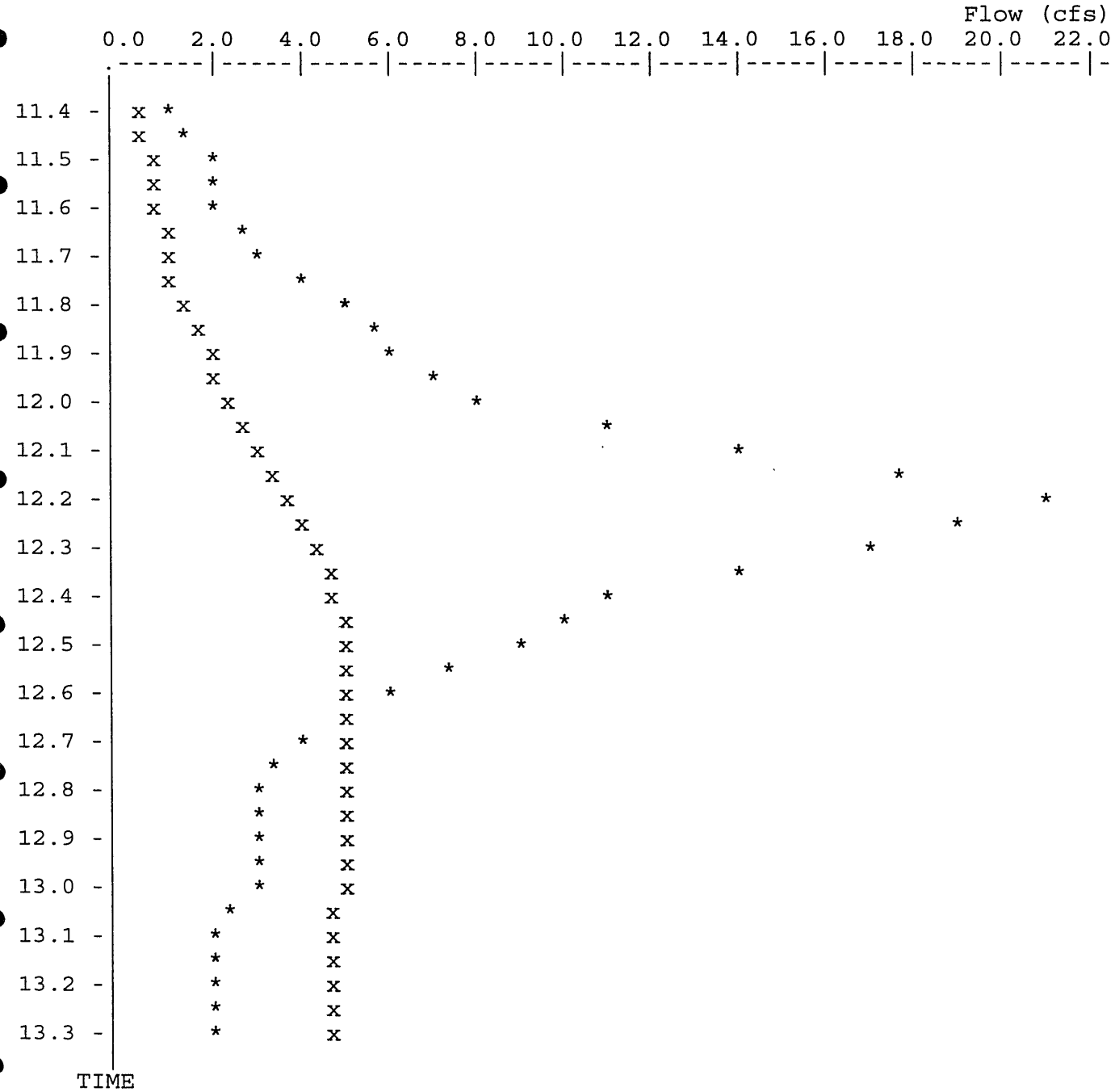
| | | |
|---|---|---|
| Initial Storage | = | 0.00 ac-ft |
| Peak Storage From Storm | = | 0.60 ac-ft |
| Total Storage in Pond | = | 0.60 ac-ft |

Warning: Inflow hydrograph truncated on left side.

Storm 1 Return Freq: 10 years

Pond File: e:\pondpack\sabini\post\POND .PND
Inflow Hydrograph: e:\pondpack\sabini\post\IA-10 .HYD
Outflow Hydrograph: e:\pondpack\sabini\post\OUT-10 .HYD
EXECUTED: 06-28-1999
17:40:22

Peak Inflow = 21.00 cfs
Peak Outflow = 5.05 cfs
Peak Elevation = 494.69 ft




* File: e:\pondpack\sabini\post\IA-10 .HYD Qmax = 21.0 cfs
x File: e:\pondpack\sabini\post\OUT-10 .HYD Qmax = 5.1 cfs

**********
* *
* Safety Storage *
* *
* *
* *
* *
**********

Inflow Hydrograph: e:\pondpack\sabini\post\IA-25 .HYD
Rating Table file: e:\pondpack\sabini\post\POND .PND

----INITIAL CONDITIONS----
Elevation = 491.00 ft
Outflow = 0.00 cfs
Storage = 0.00 ac-ft

| GIVEN POND DATA | | | INTERMEDIATE ROUTING COMPUTATIONS | |
|---|---|---|---|---|
| ELEVATION (ft) | OUTFLOW (cfs) | STORAGE (ac-ft) | 2S/t (cfs) | 2S/t + O (cfs) |
| 491.00 | 0.0 | 0.000 | 0.0 | 0.0 |
| 491.50 | 1.1 | 0.066 | 15.9 | 17.0 |
| 492.00 | 2.2 | 0.136 | 33.0 | 35.2 |
| 492.50 | 2.8 | 0.212 | 51.3 | 54.1 |
| 493.00 | 3.5 | 0.292 | 70.8 | 74.3 |
| 493.50 | 4.0 | 0.378 | 91.5 | 95.5 |
| 494.00 | 4.5 | 0.469 | 113.5 | 118.0 |
| 494.50 | 4.9 | 0.566 | 136.9 | 141.8 |
| 495.00 | 5.3 | 0.668 | 161.6 | 166.9 |
| 495.50 | 11.6 | 0.775 | 187.6 | 199.2 |
| 496.00 | 18.0 | 0.889 | 215.1 | 233.1 |

Time increment (t) = 0.100 hrs.

Pond File: e:\pondpack\sabini\post\POND .PND
Inflow Hydrograph: e:\pondpack\sabini\post\IA-25 .HYD
Outflow Hydrograph: e:\pondpack\sabini\post\OUT-25 .HYD

| INFLOW HYDROGRAPH | | ROUTING COMPUTATIONS | | | | |
|---|---|---|---|---|---|---|
| TIME (hrs) | INFLOW (cfs) | I1+I2 (cfs) | 2S/t - O (cfs) | 2S/t + O (cfs) | OUTFLOW (cfs) | ELEVATION (ft) |
| 11.000 | 1.00 | ----- | 0.0 | 0.0 | 0.00 | 491.00 |
| 11.100 | 1.00 | 2.0 | 1.7 | 2.0 | 0.13 | 491.06 |
| 11.200 | 1.00 | 2.0 | 3.3 | 3.7 | 0.24 | 491.11 |
| 11.300 | 1.00 | 2.0 | 4.6 | 5.3 | 0.34 | 491.15 |
| 11.400 | 1.00 | 2.0 | 5.7 | 6.6 | 0.43 | 491.19 |
| 11.500 | 2.00 | 3.0 | 7.6 | 8.7 | 0.56 | 491.26 |
| 11.600 | 2.00 | 4.0 | 10.1 | 11.6 | 0.75 | 491.34 |
| 11.700 | 3.00 | 5.0 | 13.1 | 15.1 | 0.98 | 491.44 |
| 11.800 | 5.00 | 8.0 | 18.4 | 21.1 | 1.35 | 491.61 |
| 11.900 | 6.00 | 11.0 | 25.7 | 29.4 | 1.85 | 491.84 |
| 12.000 | 9.00 | 15.0 | 36.0 | 40.7 | 2.38 | 492.15 |
| 12.100 | 15.00 | 24.0 | 54.0 | 60.0 | 3.01 | 492.65 |
| 12.200 | 24.00 | 39.0 | 85.1 | 93.0 | 3.94 | 493.44 |
| 12.300 | 19.00 | 43.0 | 118.8 | 128.1 | 4.67 | 494.21 |
| 12.400 | 12.00 | 31.0 | 139.7 | 149.8 | 5.03 | 494.66 |
| 12.500 | 9.00 | 21.0 | 150.3 | 160.7 | 5.20 | 494.88 |
| 12.600 | 7.00 | 16.0 | 155.7 | 166.3 | 5.29 | 494.99 |
| 12.700 | 5.00 | 12.0 | 156.8 | 167.7 | 5.47 | 495.01 |
| 12.800 | 4.00 | 9.0 | 155.2 | 165.8 | 5.28 | 494.98 |
| 12.900 | 4.00 | 8.0 | 152.7 | 163.2 | 5.24 | 494.93 |
| 13.000 | 3.00 | 7.0 | 149.4 | 159.7 | 5.19 | 494.86 |
| 13.100 | 2.00 | 5.0 | 144.2 | 154.4 | 5.10 | 494.75 |
| 13.200 | 2.00 | 4.0 | 138.2 | 148.2 | 5.00 | 494.63 |
| 13.300 | 2.00 | 4.0 | 132.4 | 142.2 | 4.91 | 494.51 |
| 13.400 | 2.00 | 4.0 | 126.7 | 136.4 | 4.81 | 494.39 |
| 13.500 | 2.00 | 4.0 | 121.3 | 130.7 | 4.71 | 494.27 |
| 13.600 | 2.00 | 4.0 | 116.1 | 125.3 | 4.62 | 494.15 |
| 13.700 | 2.00 | 4.0 | 111.0 | 120.1 | 4.53 | 494.04 |
| 13.800 | 2.00 | 4.0 | 106.1 | 115.0 | 4.43 | 493.93 |
| 13.900 | 2.00 | 4.0 | 101.5 | 110.1 | 4.32 | 493.82 |
| 14.000 | 2.00 | 4.0 | 97.0 | 105.5 | 4.22 | 493.72 |
| 14.100 | 2.00 | 4.0 | 92.8 | 101.0 | 4.12 | 493.62 |
| 14.200 | 2.00 | 4.0 | 88.7 | 96.8 | 4.03 | 493.53 |
| 14.300 | 2.00 | 4.0 | 84.9 | 92.7 | 3.93 | 493.43 |
| 14.400 | 2.00 | 4.0 | 81.2 | 88.9 | 3.84 | 493.34 |
| 14.500 | 1.00 | 3.0 | 76.7 | 84.2 | 3.73 | 493.23 |
| 14.600 | 1.00 | 2.0 | 71.5 | 78.7 | 3.60 | 493.10 |
| 14.700 | 1.00 | 2.0 | 66.6 | 73.5 | 3.47 | 492.98 |
| 14.800 | 1.00 | 2.0 | 62.0 | 68.6 | 3.30 | 492.86 |
| 14.900 | 1.00 | 2.0 | 57.7 | 64.0 | 3.14 | 492.74 |
| 15.000 | 1.00 | 2.0 | 53.7 | 59.7 | 2.99 | 492.64 |
| 15.100 | 1.00 | 2.0 | 50.0 | 55.7 | 2.86 | 492.54 |
| 15.200 | 1.00 | 2.0 | 46.5 | 52.0 | 2.73 | 492.44 |
| 15.300 | 1.00 | 2.0 | 43.3 | 48.5 | 2.62 | 492.35 |
| 15.400 | 1.00 | 2.0 | 40.2 | 45.3 | 2.52 | 492.27 |

Pond File: e:\pondpack\sabini\post\POND .PND
Inflow Hydrograph: e:\pondpack\sabini\post\IA-25 .HYD
Outflow Hydrograph: e:\pondpack\sabini\post\OUT-25 .HYD

| INFLOW HYDROGRAPH | | ROUTING COMPUTATIONS | | | | |
|---|---|---|---|---|---|---|
| TIME (hrs) | INFLOW (cfs) | I1+I2 (cfs) | 2S/t - O (cfs) | 2S/t + O (cfs) | OUTFLOW (cfs) | ELEVATION (ft) |
| 15.500 | 1.00 | 2.0 | 37.4 | 42.2 | 2.42 | 492.19 |
| 15.600 | 1.00 | 2.0 | 34.7 | 39.4 | 2.33 | 492.11 |
| 15.700 | 1.00 | 2.0 | 32.2 | 36.7 | 2.25 | 492.04 |
| 15.800 | 1.00 | 2.0 | 29.9 | 34.2 | 2.14 | 491.97 |
| 15.900 | 1.00 | 2.0 | 27.9 | 31.9 | 2.00 | 491.91 |
| 16.000 | 1.00 | 2.0 | 26.2 | 29.9 | 1.88 | 491.86 |
| 16.100 | 1.00 | 2.0 | 24.6 | 28.2 | 1.77 | 491.81 |
| 16.200 | 1.00 | 2.0 | 23.3 | 26.6 | 1.68 | 491.76 |
| 16.300 | 1.00 | 2.0 | 22.1 | 25.3 | 1.60 | 491.73 |
| 16.400 | 1.00 | 2.0 | 21.0 | 24.1 | 1.53 | 491.69 |
| 16.500 | 1.00 | 2.0 | 20.1 | 23.0 | 1.46 | 491.66 |
| 16.600 | 1.00 | 2.0 | 19.3 | 22.1 | 1.41 | 491.64 |
| 16.700 | 1.00 | 2.0 | 18.6 | 21.3 | 1.36 | 491.62 |
| 16.800 | 1.00 | 2.0 | 17.9 | 20.6 | 1.31 | 491.60 |
| 16.900 | 1.00 | 2.0 | 17.4 | 19.9 | 1.28 | 491.58 |
| 17.000 | 1.00 | 2.0 | 16.9 | 19.4 | 1.24 | 491.56 |
| 17.100 | 1.00 | 2.0 | 16.5 | 18.9 | 1.21 | 491.55 |
| 17.200 | 1.00 | 2.0 | 16.1 | 18.5 | 1.19 | 491.54 |
| 17.300 | 1.00 | 2.0 | 15.8 | 18.1 | 1.16 | 491.53 |
| 17.400 | 1.00 | 2.0 | 15.5 | 17.8 | 1.14 | 491.52 |
| 17.500 | 1.00 | 2.0 | 15.2 | 17.5 | 1.13 | 491.51 |
| 17.600 | 1.00 | 2.0 | 15.0 | 17.2 | 1.11 | 491.51 |
| 17.700 | 1.00 | 2.0 | 14.8 | 17.0 | 1.10 | 491.50 |
| 17.800 | 1.00 | 2.0 | 14.6 | 16.8 | 1.09 | 491.49 |
| 17.900 | 1.00 | 2.0 | 14.5 | 16.6 | 1.07 | 491.49 |
| 18.000 | 1.00 | 2.0 | 14.3 | 16.5 | 1.06 | 491.48 |
| 18.100 | 1.00 | 2.0 | 14.2 | 16.3 | 1.06 | 491.48 |
| 18.200 | 1.00 | 2.0 | 14.1 | 16.2 | 1.05 | 491.48 |
| 18.300 | 1.00 | 2.0 | 14.0 | 16.1 | 1.04 | 491.47 |
| 18.400 | 1.00 | 2.0 | 14.0 | 16.0 | 1.04 | 491.47 |
| 18.500 | 0.00 | 1.0 | 13.0 | 15.0 | 0.97 | 491.44 |
| 18.600 | 0.00 | 0.0 | 11.4 | 13.0 | 0.84 | 491.38 |
| 18.700 | 0.00 | 0.0 | 9.9 | 11.4 | 0.73 | 491.33 |
| 18.800 | 0.00 | 0.0 | 8.6 | 9.9 | 0.64 | 491.29 |
| 18.900 | 0.00 | 0.0 | 7.5 | 8.6 | 0.56 | 491.25 |
| 19.000 | 0.00 | 0.0 | 6.5 | 7.5 | 0.48 | 491.22 |
| 19.100 | 0.00 | 0.0 | 5.7 | 6.5 | 0.42 | 491.19 |
| 19.200 | 0.00 | 0.0 | 4.9 | 5.7 | 0.37 | 491.17 |
| 19.300 | 0.00 | 0.0 | 4.3 | 4.9 | 0.32 | 491.15 |
| 19.400 | 0.00 | 0.0 | 3.8 | 4.3 | 0.28 | 491.13 |
| 19.500 | 0.00 | 0.0 | 3.3 | 3.8 | 0.24 | 491.11 |
| 19.600 | 0.00 | 0.0 | 2.8 | 3.3 | 0.21 | 491.10 |
| 19.700 | 0.00 | 0.0 | 2.5 | 2.8 | 0.18 | 491.08 |
| 19.800 | 0.00 | 0.0 | 2.2 | 2.5 | 0.16 | 491.07 |
| 19.900 | 0.00 | 0.0 | 1.9 | 2.2 | 0.14 | 491.06 |
| 20.000 | 0.00 | 0.0 | 1.6 | 1.9 | 0.12 | 491.06 |

Pond File: e:\pondpack\sabini\post\POND .PND
Inflow Hydrograph: e:\pondpack\sabini\post\IA-25 .HYD
Outflow Hydrograph: e:\pondpack\sabini\post\OUT-25 .HYD

| INFLOW HYDROGRAPH | | ROUTING COMPUTATIONS | | | | |
|---|---|---|---|---|---|---|
| TIME (hrs) | INFLOW (cfs) | I1+I2 (cfs) | 2S/t - O (cfs) | 2S/t + O (cfs) | OUTFLOW (cfs) | ELEVATION (ft) |
| 20.100 | 0.00 | 0.0 | 1.4 | 1.6 | 0.11 | 491.05 |
| 20.200 | 0.00 | 0.0 | 1.2 | 1.4 | 0.09 | 491.04 |
| 20.300 | 0.00 | 0.0 | 1.1 | 1.2 | 0.08 | 491.04 |
| 20.400 | 0.00 | 0.0 | 0.9 | 1.1 | 0.07 | 491.03 |
| 20.500 | 0.00 | 0.0 | 0.8 | 0.9 | 0.06 | 491.03 |
| 20.600 | 0.00 | 0.0 | 0.7 | 0.8 | 0.05 | 491.02 |
| 20.700 | 0.00 | 0.0 | 0.6 | 0.7 | 0.05 | 491.02 |
| 20.800 | 0.00 | 0.0 | 0.5 | 0.6 | 0.04 | 491.02 |
| 20.900 | 0.00 | 0.0 | 0.5 | 0.5 | 0.03 | 491.02 |
| 21.000 | 0.00 | 0.0 | 0.4 | 0.5 | 0.03 | 491.01 |
| 21.100 | 0.00 | 0.0 | 0.4 | 0.4 | 0.03 | 491.01 |
| 21.200 | 0.00 | 0.0 | 0.3 | 0.4 | 0.02 | 491.01 |
| 21.300 | 0.00 | 0.0 | 0.3 | 0.3 | 0.02 | 491.01 |
| 21.400 | 0.00 | 0.0 | 0.2 | 0.3 | 0.02 | 491.01 |
| 21.500 | 0.00 | 0.0 | 0.2 | 0.2 | 0.02 | 491.01 |
| 21.600 | 0.00 | 0.0 | 0.2 | 0.2 | 0.01 | 491.01 |
| 21.700 | 0.00 | 0.0 | 0.2 | 0.2 | 0.01 | 491.01 |
| 21.800 | 0.00 | 0.0 | 0.1 | 0.2 | 0.01 | 491.00 |
| 21.900 | 0.00 | 0.0 | 0.1 | 0.1 | 0.01 | 491.00 |
| 22.000 | 0.00 | 0.0 | 0.1 | 0.1 | 0.01 | 491.00 |
| 22.100 | 0.00 | 0.0 | 0.1 | 0.1 | 0.01 | 491.00 |
| 22.200 | 0.00 | 0.0 | 0.1 | 0.1 | 0.01 | 491.00 |
| 22.300 | 0.00 | 0.0 | 0.1 | 0.1 | 0.01 | 491.00 |
| 22.400 | 0.00 | 0.0 | 0.1 | 0.1 | 0.00 | 491.00 |
| 22.500 | 0.00 | 0.0 | 0.1 | 0.1 | 0.00 | 491.00 |
| 22.600 | 0.00 | 0.0 | 0.0 | 0.1 | 0.00 | 491.00 |
| 22.700 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 491.00 |
| 22.800 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 491.00 |
| 22.900 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 491.00 |
| 23.000 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 491.00 |
| 23.100 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 491.00 |
| 23.200 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 491.00 |
| 23.300 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 491.00 |
| 23.400 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 491.00 |
| 23.500 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 491.00 |
| 23.600 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 491.00 |
| 23.700 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 491.00 |
| 23.800 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 491.00 |
| 23.900 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 491.00 |
| 24.000 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 491.00 |
| 24.100 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 491.00 |
| 24.200 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 491.00 |
| 24.300 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 491.00 |
| 24.400 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 491.00 |
| 24.500 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 491.00 |
| 24.600 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 491.00 |

Pond File: e:\pondpack\sabini\post\POND .PND
Inflow Hydrograph: e:\pondpack\sabini\post\IA-25 .HYD
Outflow Hydrograph: e:\pondpack\sabini\post\OUT-25 .HYD

| INFLOW HYDROGRAPH | | ROUTING COMPUTATIONS | | | | |
|---|---|---|---|---|---|---|
| TIME (hrs) | INFLOW (cfs) | I1+I2 (cfs) | 2S/t - O (cfs) | 2S/t + O (cfs) | OUTFLOW (cfs) | ELEVATION (ft) |
| 24.700 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 491.00 |
| 24.800 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 491.00 |
| 24.900 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 491.00 |
| 25.000 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 491.00 |
| 25.100 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 491.00 |
| 25.200 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 491.00 |
| 25.300 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 491.00 |
| 25.400 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 491.00 |
| 25.500 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 491.00 |
| 25.600 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 491.00 |
| 25.700 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 491.00 |
| 25.800 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 491.00 |
| 25.900 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 491.00 |

********** SUMMARY OF ROUTING COMPUTATIONS **********

Pond File: e:\pondpack\sabini\post\POND .PND
Inflow Hydrograph: e:\pondpack\sabini\post\IA-25 .HYD
Outflow Hydrograph: e:\pondpack\sabini\post\OUT-25 .HYD

Starting Pond W.S. Elevation = 491.00 ft

***** Summary of Peak Outflow and Peak Elevation *****

| | | |
|---|---|---|
| Peak Inflow | = | 24.00 cfs |
| Peak Outflow | = | 5.47 cfs |
| Peak Elevation | = | 495.01 ft |

***** Summary of Approximate Peak Storage *****

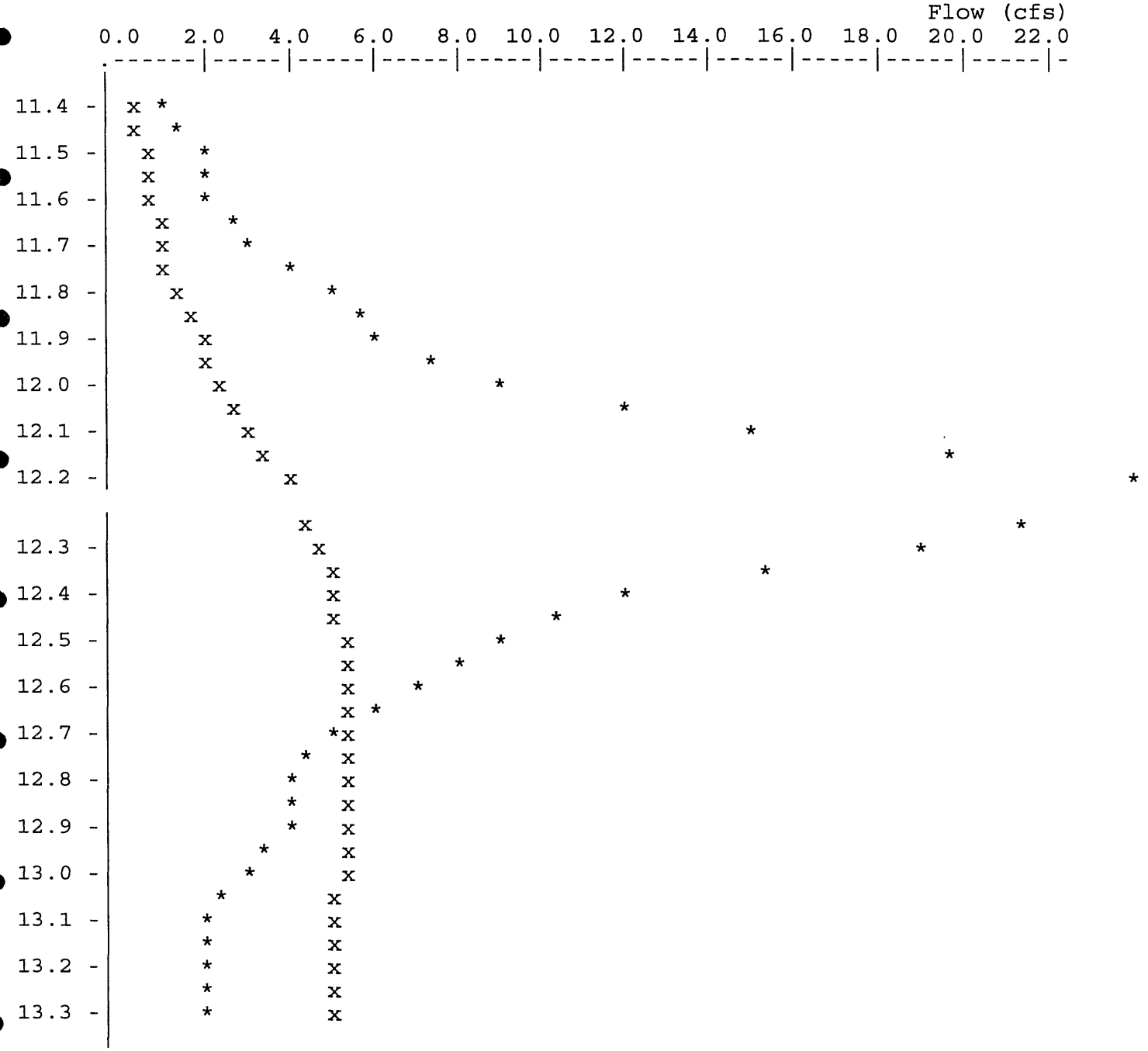
| | | |
|---|---|---|
| Initial Storage | = | 0.00 ac-ft |
| Peak Storage From Storm | = | 0.67 ac-ft |
| Total Storage in Pond | = | 0.67 ac-ft |

Warning: Inflow hydrograph truncated on left side.

Storm 2 Return Freq: 25 years

Pond File: e:\pondpack\sabini\post\POND .PND
Inflow Hydrograph: e:\pondpack\sabini\post\IA-25 .HYD
Outflow Hydrograph: e:\pondpack\sabini\post\OUT-25 .HYD
EXECUTED: 06-28-1999 17:40:22

Peak Inflow = 24.00 cfs
Peak Outflow = 5.47 cfs
Peak Elevation = 495.01 ft




* File: e:\pondpack\sabini\post\IA-25 .HYD Qmax = 24.0 cfs
x File: e:\pondpack\sabini\post\OUT-25 .HYD Qmax = 5.5 cfs

# COMBINED POST-DEVELOPMENT HYDROGRAPHS

Executed 06-28-1999 17:44:30

Data directory: e:\pondpack\sabini\post*.HYD

File Summary for Composite Hydrograph

| Time (hrs) | OUT-10 (cfs) | IB-10 (cfs) | COMB-10 (Total) |
|---|---|---|---|
| 11.00 | 0.0 | 0.0 | 0.0 |
| 11.10 | 0.1 | 0.0 | 0.1 |
| 11.20 | 0.2 | 0.0 | 0.2 |
| 11.30 | 0.3 | 0.0 | 0.3 |
| 11.40 | 0.4 | 0.0 | 0.4 |
| 11.50 | 0.6 | 0.0 | 0.6 |
| 11.60 | 0.8 | 0.0 | 0.8 |
| 11.70 | 1.0 | 0.0 | 1.0 |
| 11.80 | 1.4 | 0.0 | 1.4 |
| 11.90 | 1.9 | 0.0 | 1.9 |
| 12.00 | 2.3 | 1.0 | 3.3 |
| 12.10 | 2.9 | 1.0 | 3.9 |
| 12.20 | 3.8 | 2.0 | 5.8 |
| 12.30 | 4.5 | 1.0 | 5.5 |
| 12.40 | 4.8 | 1.0 | 5.8 |
| 12.50 | 5.0 | 1.0 | 6.0 |
| 12.60 | 5.1 | 1.0 | 6.1 ← |
| 12.70 | 5.1 | 0.0 | 5.1 |
| 12.80 | 5.0 | 0.0 | 5.0 |
| 12.90 | 4.9 | 0.0 | 4.9 |
| 13.00 | 4.9 | 0.0 | 4.9 |
| 13.10 | 4.8 | 0.0 | 4.8 |
| 13.20 | 4.7 | 0.0 | 4.7 |
| 13.30 | 4.6 | 0.0 | 4.6 |
| 13.40 | 4.5 | 0.0 | 4.5 |
| 13.50 | 4.4 | 0.0 | 4.4 |
| 13.60 | 4.3 | 0.0 | 4.3 |
| 13.70 | 4.2 | 0.0 | 4.2 |
| 13.80 | 4.1 | 0.0 | 4.1 |
| 13.90 | 4.0 | 0.0 | 4.0 |
| 14.00 | 3.9 | 0.0 | 3.9 |
| 14.10 | 3.8 | 0.0 | 3.8 |
| 14.20 | 3.7 | 0.0 | 3.7 |
| 14.30 | 3.6 | 0.0 | 3.6 |
| 14.40 | 3.5 | 0.0 | 3.5 |
| 14.50 | 3.3 | 0.0 | 3.3 |
| 14.60 | 3.1 | 0.0 | 3.1 |
| 14.70 | 3.0 | 0.0 | 3.0 |
| 14.80 | 2.8 | 0.0 | 2.8 |
| 14.90 | 2.7 | 0.0 | 2.7 |

Executed 06-28-1999 17:44:30

Data directory: e:\pondpack\sabini\post*.HYD

File Summary for Composite Hydrograph

| Time (hrs) | OUT-10 (cfs) | IB-10 (cfs) | COMB-10 (Total) |
|---|---|---|---|
| 15.00 | 2.6 | 0.0 | 2.6 |
| 15.10 | 2.5 | 0.0 | 2.5 |
| 15.20 | 2.4 | 0.0 | 2.4 |
| 15.30 | 2.3 | 0.0 | 2.3 |
| 15.40 | 2.2 | 0.0 | 2.2 |
| 15.50 | 2.1 | 0.0 | 2.1 |
| 15.60 | 2.0 | 0.0 | 2.0 |
| 15.70 | 1.9 | 0.0 | 1.9 |
| 15.80 | 1.8 | 0.0 | 1.8 |
| 15.90 | 1.7 | 0.0 | 1.7 |
| 16.00 | 1.6 | 0.0 | 1.6 |
| 16.10 | 1.5 | 0.0 | 1.5 |
| 16.20 | 1.5 | 0.0 | 1.5 |
| 16.30 | 1.4 | 0.0 | 1.4 |
| 16.40 | 1.4 | 0.0 | 1.4 |
| 16.50 | 1.3 | 0.0 | 1.3 |
| 16.60 | 1.3 | 0.0 | 1.3 |
| 16.70 | 1.2 | 0.0 | 1.2 |
| 16.80 | 1.2 | 0.0 | 1.2 |
| 16.90 | 1.2 | 0.0 | 1.2 |
| 17.00 | 1.2 | 0.0 | 1.2 |
| 17.10 | 1.1 | 0.0 | 1.1 |
| 17.20 | 1.1 | 0.0 | 1.1 |
| 17.30 | 1.1 | 0.0 | 1.1 |
| 17.40 | 1.1 | 0.0 | 1.1 |
| 17.50 | 1.1 | 0.0 | 1.1 |
| 17.60 | 1.1 | 0.0 | 1.1 |
| 17.70 | 1.1 | 0.0 | 1.1 |
| 17.80 | 1.1 | 0.0 | 1.1 |
| 17.90 | 1.0 | 0.0 | 1.0 |
| 18.00 | 1.0 | 0.0 | 1.0 |

Executed 06-28-1999 17:45:06

Data directory: e:\pondpack\sabini\post*.HYD

File Summary for Composite Hydrograph

| Time (hrs) | OUT-25 (cfs) | IB-25 (cfs) | COMB-25 (Total) |
|---|---|---|---|
| 11.00 | 0.0 | 0.0 | 0.0 |
| 11.10 | 0.1 | 0.0 | 0.1 |
| 11.20 | 0.2 | 0.0 | 0.2 |
| 11.30 | 0.3 | 0.0 | 0.3 |
| 11.40 | 0.4 | 0.0 | 0.4 |
| 11.50 | 0.6 | 0.0 | 0.6 |
| 11.60 | 0.8 | 0.0 | 0.8 |
| 11.70 | 1.0 | 0.0 | 1.0 |
| 11.80 | 1.4 | 0.0 | 1.4 |
| 11.90 | 1.9 | 0.0 | 1.9 |
| 12.00 | 2.4 | 1.0 | 3.4 |
| 12.10 | 3.0 | 1.0 | 4.0 |
| 12.20 | 3.9 | 2.0 | 5.9 |
| 12.30 | 4.7 | 2.0 | 6.7 |
| 12.40 | 5.0 | 1.0 | 6.0 |
| 12.50 | 5.2 | 1.0 | 6.2 |
| 12.60 | 5.3 | 1.0 | 6.3 |
| 12.70 | 5.5 | 0.0 | 5.5 |
| 12.80 | 5.3 | 0.0 | 5.3 |
| 12.90 | 5.2 | 0.0 | 5.2 |
| 13.00 | 5.2 | 0.0 | 5.2 |
| 13.10 | 5.1 | 0.0 | 5.1 |
| 13.20 | 5.0 | 0.0 | 5.0 |
| 13.30 | 4.9 | 0.0 | 4.9 |
| 13.40 | 4.8 | 0.0 | 4.8 |
| 13.50 | 4.7 | 0.0 | 4.7 |
| 13.60 | 4.6 | 0.0 | 4.6 |
| 13.70 | 4.5 | 0.0 | 4.5 |
| 13.80 | 4.4 | 0.0 | 4.4 |
| 13.90 | 4.3 | 0.0 | 4.3 |
| 14.00 | 4.2 | 0.0 | 4.2 |
| 14.10 | 4.1 | 0.0 | 4.1 |
| 14.20 | 4.0 | 0.0 | 4.0 |
| 14.30 | 3.9 | 0.0 | 3.9 |
| 14.40 | 3.8 | 0.0 | 3.8 |
| 14.50 | 3.7 | 0.0 | 3.7 |
| 14.60 | 3.6 | 0.0 | 3.6 |
| 14.70 | 3.5 | 0.0 | 3.5 |
| 14.80 | 3.3 | 0.0 | 3.3 |
| 14.90 | 3.1 | 0.0 | 3.1 |

Executed 06-28-1999 17:45:06

Data directory: e:\pondpack\sabini\post*.HYD

File Summary for Composite Hydrograph

| Time (hrs) | OUT-25 (cfs) | IB-25 (cfs) | COMB-25 (Total) |
|---|---|---|---|
| 15.00 | 3.0 | 0.0 | 3.0 |
| 15.10 | 2.9 | 0.0 | 2.9 |
| 15.20 | 2.7 | 0.0 | 2.7 |
| 15.30 | 2.6 | 0.0 | 2.6 |
| 15.40 | 2.5 | 0.0 | 2.5 |
| 15.50 | 2.4 | 0.0 | 2.4 |
| 15.60 | 2.3 | 0.0 | 2.3 |
| 15.70 | 2.3 | 0.0 | 2.3 |
| 15.80 | 2.1 | 0.0 | 2.1 |
| 15.90 | 2.0 | 0.0 | 2.0 |
| 16.00 | 1.9 | 0.0 | 1.9 |
| 16.10 | 1.8 | 0.0 | 1.8 |
| 16.20 | 1.7 | 0.0 | 1.7 |
| 16.30 | 1.6 | 0.0 | 1.6 |
| 16.40 | 1.5 | 0.0 | 1.5 |
| 16.50 | 1.5 | 0.0 | 1.5 |
| 16.60 | 1.4 | 0.0 | 1.4 |
| 16.70 | 1.4 | 0.0 | 1.4 |
| 16.80 | 1.3 | 0.0 | 1.3 |
| 16.90 | 1.3 | 0.0 | 1.3 |
| 17.00 | 1.2 | 0.0 | 1.2 |
| 17.10 | 1.2 | 0.0 | 1.2 |
| 17.20 | 1.2 | 0.0 | 1.2 |
| 17.30 | 1.2 | 0.0 | 1.2 |
| 17.40 | 1.1 | 0.0 | 1.1 |
| 17.50 | 1.1 | 0.0 | 1.1 |
| 17.60 | 1.1 | 0.0 | 1.1 |
| 17.70 | 1.1 | 0.0 | 1.1 |
| 17.80 | 1.1 | 0.0 | 1.1 |
| 17.90 | 1.1 | 0.0 | 1.1 |
| 18.00 | 1.1 | 0.0 | 1.1 |

McGOEY, HAUSER and EDSALL
CONSULTING ENGINEERS P.C.

RICHARD D. McGOEY, P.E.
WILLIAM J. HAUSER, P.E.
MARK J. EDSALL, P.E.
JAMES M. FARR, P.E.
Licensed in NEW YORK, NEW JERSEY and PENNSYLVANIA

☐ **Main Office**
45 Quassaick Ave. (Route 9W)
New Windsor, New York 12553
(914) 562-8640
e-mail: mheny@att.net

☐ **Regional Office**
507 Broad Street
Milford, Pennsylvania 18337
(570) 296-2765
e-mail: mhepa@ptd.net

# MEMORANDUM

**13 June 2000**

**TO: LARRY REIS, TOWN COMPTROLLER**

**FROM: MARK J. EDSALL, P.E., TOWN ENGINEER**

**SUBJECT: SAFETY STORAGE SITE PLAN (P.B. REF. NO. 99-12)**

On the afternoon of 13 June 2000 a follow-up field review was held at the subject site by the undersigned and Mike Babcock. Our previous review was held on 2 February 2000 and, pursuant to that visit, a performance guarantee in an amount of $8,730 was required.

At the time of our most recent visit, all work required at this phase has been completed. Based on same, the performance guarantee can be released in the full amount of $8,730 at this time.

If you have any questions regarding the above, please do not hesitate to contact me at your convenience.

Cc: Mike Babcock, Town Building Inspector
Myra Mason, P.B. Secretary

Reis061300.doc

T:G # 3314

6/16/00

99-12

PLANNING BOARD
TOWN OF NEW WINDSOR

AS OF: 02/22/2000 PAGE: 1

LISTING OF PLANNING BOARD **FEES**
**SITE PLAN BOND**

FOR PROJECT NUMBER: 99-12
NAME: SAFETY STORAGE, LLC
APPLICANT: SAFETY STORAGE, LLC

| --DATE-- | DESCRIPTION--------- | TRANS | --AMT-CHG | -AMT-PAID | --BAL-DUE |
|---|---|---|---|---|---|
| 02/16/2000 | REC. PARTIAL AMT/MARK EDS | CHG | 8730.00 | | |
| 02/22/2000 | REC. CK. #1107 | PAID | | 8730.00 | |
| | | TOTAL: | 8730.00 | 8730.00 | 0.00 |

A. Zappola

MHE PC
McGOEY, HAUSER and EDSALL
CONSULTING ENGINEERS P.C.

RICHARD D. McGOEY, P.E.
WILLIAM J. HAUSER, P.E.
MARK J. EDSALL, P.E.
JAMES M. FARR, P.E.
Licensed in NEW YORK, NEW JERSEY and PENNSYLVANIA

Main Office
45 Quassaick Ave. (Route 9W)
New Windsor, New York 12553
(914) 562-8640
e-mail: mheny@att.net

Regional Office
507 Broad Street
Milford, Pennsylvania 18337
(570) 296-2765
e-mail: mhepa@ptd.net

**MEMORANDUM**
**((via fax)**
**Revised 17 February 2000**

**TO: MIKE BABCOCK, TOWN BUILDING INSPECTOR**

**FROM: MARK J. EDSALL, P.E., PLANNING BOARD ENGINEER**

**SUBJECT: SAFETY STORAGE SITE PLAN**
**NWPB NO. 99-12**

This memorandum will confirm our field review of the subject site on 2 February 2000 At the time of our visit the ground was covered with a significant volume of snow; as such, it was difficult (if not impossible) to make a determination if certain work was complete or proper. Based on the developer's desire to obtain a Certificate of Occupancy, it was agreed that posting of a bond would be required for all items which could not be verified as complete. Based on our observations, note the following items which must be bonded:

| | |
|---|---|
| Pavement Markings | $ 260.00 |
| Handicapped Striping/Sign | $ 100.00 |
| Grass Swales | $ 3,440.00 |
| Complete Detention Pond | $ 2,000.00 |
| Rip Rap | $ 200.00 |
| Wheelstops | $ 230.00 |
| Complete Trees | $ 500.00 |
| Complete Lighting | $ 2,000.00 |
| TOTAL AMOUNT | $ 8,730.00 |

As noted above, this is an estimate to be used to allow the issuance of a C of O. Further, it should be noted that construction of buildings 5-7 have not been started at this time; therefore, items such as paving, drainage and lighting associated with these buildings not yet constructed have not been included, since it will be evaluated when the C of Os are requested for those buildings in the future.

Babcock021600.doc
Cc: Myra Mason, PB Secretary

**Myra Mason**

**From:** mje [mje@mhepc.com]
**Sent:** Thursday, January 25, 2007 11:28 AM
**To:** Myra Mason
**Subject:** Stow Away Storage (aka Safety Storage) Site Plan 99-12

Mike & Myra

Mike Kelly visited the site. There are numerous non-compliances, which INCLUDE:

- One Way Signs Missing (4 or more)

- No Wheelstops where indicated

- Parking spaces have been created for storage of boats, trailers etc. which were not on site plan

- Flag Pole has been relocated (probably not big item)

- Handicapped parking not properly delineated.

- Dumpster in unauthorized location

- Painted traffic arrows on pavement missing

- Parking area lighting somewhat different than plan (may not be big item)

- Drainage modified - will need further reveiw

- Office parking short one space

- Landscaping different from plan (may not be big item)

Based on the above, especially the outside vehicle storage, you may wish to make them come back to the PB with an as-built and seek an amended approval, unless they want to make the plan comply fully with approval.

Mark

Mark J. Edsall, P.E., Principal
McGoey, Hauser & Edsall, Consulting Engineers, P.C.
33 Airport Center Drive - Suite #202
New Windsor, New York 12553
(845) 567-3100

1/31/2007

PLANNING BOARD
TOWN OF NEW WINDSOR

AS OF: 08/23/1999 PAGE: 1

LISTING OF PLANNING BOARD **ACTIONS**

STAGE: STATUS [Open, Withd]
A [Disap, Appr]

FOR PROJECT NUMBER: 99-12
NAME: SAFETY STORAGE, LLC
APPLICANT: SAFETY STORAGE, LLC

| --DATE-- | MEETING-PURPOSE | ACTION-TAKEN |
|---|---|---|
| 08/19/1999 | PLANS STAMPED APPROVED | APPROVED |
| 06/09/1999 | P.B. APPEARANCE - PUB. HEARI | ND CLOSE PH APP COND<br>. APPROVED CONDITIONALLY - SEE REVIEW SHEET IN FILE FOR<br>. CONDITIONS |
| 05/12/1999 | P.B. APPEARANCE | LA: SCH PH |
| 05/05/1999 | WORK SESSION APPEARANCE | SUBMIT |

PLANNING BOARD
TOWN OF NEW WINDSOR

AS OF: 08/23/1999 PAGE: 1

LISTING OF PLANNING BOARD **SEQRA ACTIONS**

FOR PROJECT NUMBER: 99-12
NAME: SAFETY STORAGE, LLC
APPLICANT: SAFETY STORAGE, LLC

| | DATE-SENT | ACTION---------- | DATE-RECD | RESPONSE---------- |
|---|---|---|---|---|
| ORIG | 05/07/1999 | EAF SUBMITTED | 05/07/1999 | WITH APPLICATION |
| ORIG | 05/07/1999 | CIRCULATE TO INVOLVED AGENCIES | / / | |
| ORIG | 05/07/1999 | LEAD AGENCY DECLARED | 05/12/1999 | TOOK L.A. |
| ORIG | 05/07/1999 | DECLARATION (POS/NEG) | 06/09/1999 | DECL. NEG DEC |
| ORIG | 05/07/1999 | SCHEDULE PUBLIC HEARING | 05/12/1999 | SCHED PH |
| ORIG | 05/07/1999 | PUBLIC HEARING HELD | 06/09/1999 | P.H. HELD |
| ORIG | 05/07/1999 | WAIVE PUBLIC HEARING | / / | |
| ORIG | 05/07/1999 | AGRICULTURAL NOTICES | / / | |

PLANNING BOARD
TOWN OF NEW WINDSOR

AS OF: 08/23/1999 PAGE: 1

LISTING OF PLANNING BOARD **AGENCY APPROVALS**

FOR PROJECT NUMBER: 99-12
NAME: SAFETY STORAGE, LLC
APPLICANT: SAFETY STORAGE, LLC

| | DATE-SENT | AGENCY---------- | DATE-RECD | RESPONSE---------- |
|---|---|---|---|---|
| ORIG | 05/07/1999 | MUNICIPAL HIGHWAY | 05/26/1999 | APPROVED |
| | | . | | |
| | | . | | |
| ORIG | 05/07/1999 | MUNICIPAL WATER | 05/10/1999 | APPROVED |
| ORIG | 05/07/1999 | MUNICIPAL SEWER | 05/03/1999 | APPROVED |
| ORIG | 05/07/1999 | MUNICIPAL FIRE | 05/11/1999 | APPROVED |

PLANNING BOARD
TOWN OF NEW WINDSOR

AS OF: 08/13/1999 PAGE: 1

LISTING OF PLANNING BOARD **FEES**
**4% FEE**

FOR PROJECT NUMBER: 99-12
NAME: SAFETY STORAGE, LLC
APPLICANT: SAFETY STORAGE, LLC

| --DATE-- | DESCRIPTION--------- | TRANS | --AMT-CHG | -AMT-PAID | --BAL-DUE |
|---|---|---|---|---|---|
| 08/06/1999 | 2% OF $226,880. INSPECT F | CHG | 4538.00 | | |
| 08/12/1999 | REC. CK. #1606 | PAID | | 4538.00 | |
| | | TOTAL: | 4538.00 | 4538.00 | 0.00 |

L. Reis

PLANNING BOARD
TOWN OF NEW WINDSOR

AS OF: 08/13/1999



LISTING OF PLANNING BOARD **FEES**
**ESCROW**

FOR PROJECT NUMBER: 99-12
NAME: SAFETY STORAGE, LLC
APPLICANT: SAFETY STORAGE, LLC

| --DATE-- | DESCRIPTION--------- | TRANS | --AMT-CHG | -AMT-PAID | --BAL-DUE |
|---|---|---|---|---|---|
| 05/07/1999 | RECEIVED CHECK #1440 | PAID | | 750.00 | |
| 05/12/1999 | P.B. ATTY. FEE | CHG | 35.00 | | |
| 05/12/1999 | P.B. MINUTES | CHG | 49.50 | | |
| 06/09/1999 | P.B. ATTY. FEE | CHG | 35.00 | | |
| 06/09/1999 | P.B. MINUTES | CHG | 49.50 | | |
| 08/05/1999 | P.B. ENGINEER | CHG | 283.00 | | |
| 08/13/1999 | RET. TO APPLICANT | CHG | 298.00 | | |
| | | TOTAL: | 750.00 | 750.00 | 0.00 |

L.R. 8/13/99

PLANNING BOARD
TOWN OF NEW WINDSOR

AS OF: 08/13/1999 PAGE: 1

LISTING OF PLANNING BOARD **FEES**
**APPROVAL**

FOR PROJECT NUMBER: 99-12
NAME: SAFETY STORAGE, LLC
APPLICANT: SAFETY STORAGE, LLC

| --DATE-- | DESCRIPTION--------- | TRANS | --AMT-CHG | -AMT-PAID | --BAL-DUE |
|---|---|---|---|---|---|
| 08/06/1999 | APPROVAL FEE | CHG | 100.00 | | |
| 08/12/1999 | REC. CK. #1605 | PAID | | 100.00 | |
| | | TOTAL: | 100.00 | 100.00 | 0.00 |

8/6/99
P.B. #99-12

SITE PLAN FEES - TOWN OF NEW WINDSOR
(INCLUDING SPECIAL PERMIT)

APPLICATION FEE:.....$ 100.00

* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *

ESCROW:

SITE PLANS ($750.00 - $2,000.00).....$_____

MULTI-FAMILY SITE PLANS:

UNITS @ $25.00 PER UNIT (AFTER 40 UNITS).....$_____

* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *

PLAN REVIEW FEE: (EXCEPT MULTI-FAMILY) $ 100.00 (1)

PLAN REVIEW FEE (MULTI-FAMILY): A. $100.00
PLUS $25.00/UNIT B. _____

TOTAL OF A & B:$_____

RECREATION FEE: (MULTI-FAMILY)

$500.00 PER UNIT

_____ @ $500.00 EA. EQUALS: $_____
NUMBER OF UNITS

SITE IMPROVEMENT COST ESTIMATE: $226,880.00

2% OF COST ESTIMATE $ _____ EQUALS $ 4537.60 (2)

TOTAL ESCROW PAID:.....$_____

TO BE DEDUCTED FROM ESCROW: _____

RETURN TO APPLICANT: $_____

ADDITIONAL DUE: $_____

MARK EDSALL
(F) 562-1413

DRAFT

Chairman James Petro and
Members of the Planning Board
**TOWN OF NEW WINDSOR**
555 Union Avenue
New Windsor, New York 12553

Re: New Facility For Safety Storage, LLC
NYS Route 207 & Toleman Road

Gentlemen:

We have presented below for your consideration our Construction Estimate for the site improvements for the New Facility For Safety Storage, LLC. Our estimate is as follows:

**CONSTRUCTION ESTIMATE**

| ITEM | QUANTITY | UNIT PRICE | AMOUNT |
|---|---|---|---|
| Macadam Pavement | 11,030 S.Y. | $ 10 | $ 110,300 |
| Pavement Markings | 650 L.F. | $ .40 | $ 260 |
| Concrete Curbing | 200 L.F. | $ 10 | $ 2,000 |
| Handicap Sign/Striping | 1 | $ 100 | $ 100 |
| Catch Basins | 22 | $ 800 | $ 17,600 |
| Storm Drain Piping(15"-24") | 2,375 L.F. | $ 15 | $ 35,625 |
| Grass Swale | 430 | $ 8 | $ 3,440 |
| Detention Pond | L.S. | $ 15,000 | $ 15,000 |
| Rip-Rap Protection | 1 | $ 200 | $ 200 |
| Guide Rail | 265 L.F. | $ 15 | $ 3,975 |
| Chain Link Fence | 1,485 L.F. | $ 10 | $ 14,850 |
| Flagpole | 1 | $ 200 | $ 200 |
| Directional Signs | 4 | $ 25 | $ 100 |
| Wheelstops | 23 | $ 10 | $ 230 |
| Bollards | 30 | $ 20 | $ 600 |
| Trees | 41 | $ 100 | $ 4,100 |
| Poles With One Luminaire | 1 | $ 900 | $ 900 |
| Poles With Two Luminaires | 1 | $ 1,200 | $ 1,200 |
| Wall Paks | 54 | $ 300 | $ 16,200 |
| **Total** | | | **$226,880** |

Should this Estimate be acceptable to your Board, my client will pay the 2% inspection fee of $4,538.00.

Respectfully submitted,

**SHAW ENGINEERING**

Gregory J. Shaw, P.E.
Principal

GJS:mmv

cc: Jerry Sabini, Safety Storage LLC, Via Fax 774-7718

PUBLIC HEARING:

SAFETY STORAGE LLC SITE PLAN (99-12)

Mr. Gregory Shaw of Shaw Engineering appeared before the board for this proposal.

MR. PETRO: The application proposes a self-storage mini warehouse. Plan was previously reviewed at the 12 I guess that means May, 1999 Planning Board meeting. The application before the board is for a public hearing at this meeting. Okay, Greg?

MR. SHAW: Did you read the legal notice for the public hearing?

MR. PETRO: Did I read it, not yet, no. This is not open to the public. This is for the board to review.

MR. SHAW: That's good. As we discussed the last time before this board, which is four weeks ago, we're proposing to construct a mini storage facility on the 5 acre parcel at the intersection of Route 207 and Toleman Road. This was a lot that was recently cut out from the Rock Tavern Village LP subdivision, you may remember that application is before the board also. What we're proposing is the construction of 58,550 square feet of mini storage area plus 1,600 square feet of office space, that office space would be located in a small building 20 feet by 40 feet closest to the entrance of the project. If the board likes, I do have an architectural rendering of that office building I'd like to present to the board cause it's quite attractive.

MR. PETRO: What's the overall square footage again?

MR. SHAW: 58,550.

MR. ARGENIO: That's the office rendering?

MR. SHAW: That's of the office, that's of the office. The office will be served by an individual well and individual sewage disposal system. We have provided for the office the appropriate number of parking spaces

required by zoning which totals eight based upon one to two hundred square feet of gross floor area. We have on our site an internal storm water collection system which will bring the water to the rear of the property and will be detained in a storm water detention pond. As we discussed at the last meeting, this parcel us across the street from a residential zone, that being on the other side of Toleman Road, and it was for that reason I think this board felt it was appropriate to have a public hearing. My client is very sensitive to that residential area and also the view from Route 207. So what we have generated in the drawings before you is a very detailed landscaping plan consisting of flowering trees and evergreens which hopefully will buffer the property. I took one last ride passed the site today to take a look at the two residential houses which are on Toleman Road, the lands of Zumack (phonetic), the house sits back about 150 feet from the road and it's located in this portion of the property. And with respect to the lands of Gotlieb, that house sits back even farther, it's about 250 to 300 feet back and there are a row of trees on each side of Toleman Road. So I believe they'll be properly buffered from this project, even though this is in an OLI zone and it's a permitted use, my client is respectful of the two residences across the street. Just a few outstanding items that were left off from the last meeting, this board requested that we obtain a letter from Rock Tavern Village LP stating that they'll take the storm water from this project and they'll incorporate it into their overall storm water management system when that property gets developed. I believe you have a copy of that letter?

MR. PETRO: Yes, I do, Franny, let the minutes show that I do have the letter in possession dated May 25, 1999 from Lester Clark and it's as Mr. Shaw states.

MR. SHAW: And also, there's an outstanding issue with respect to the entrance and I believe you now have in your file a memo or some notation from James Pullar, your Highway Superintendent that the location of the entrance is some--

MR. PETRO: We have highway approval on 5/26/1999.

MR. SHAW: So what we have tried to do is address those issues which the board felt important in order to have as complete an application as possible for the public hearing, Mr. Chairman, that's my pitch for the project and if you wish, you can open up to the public.

MR. PETRO: I'm looking at the septic design on page 3 of 7.

(Whereupon, Mr. Krieger entered the room.)

MR. PETRO: I don't see a well plotted, do you have one plotted?

MR. SHAW: Yes, the well is located in this proximity.

MR. LANDER: Can you tell me if these storage units being they are over 9,000 square feet, some of them, they need to be sprinklered?

MR. SHAW: We broached that subject last month, I believe, and there was a determination made.

MR. EDSALL: Bureau of Fire Prevention Control wrestled with the issue over sprinklering these mini storage buildings and they determined in general that the type of use and with the separations they provide that sprinklering was not required so that was a global decision that was made, so it applies to all of them.

MR. LANDER: Thank you.

MR. PETRO: What's the percolation right there in that spot?

MR. SHAW: We haven't completed that yet, percolation rate, I have shown it on the plans, that's not a permit that's issued by this board. It's a permit that's issued by your building inspector, but we have, we haven't completed the subsurface testing, but that's where the system will go.

MR. PETRO: Obviously, if the percolation is not good enough, you have to design a different kind of system,

it might not fit there.

MR. SHAW: We do have some flexibility putting it in other places as long as we maintain the line separation.

MR. PETRO: That separation is adequate as it is?

MR. SHAW: Yes.

MR. PETRO: That fire separation between the office building and the storage building directly behind it, that's adequate, how many feet is that?

MR. SHAW: That's four to five feet.

MR. PETRO: That's adequate.

MR. BABCOCK: It depends on the construction of the building, is it a masonry unit and Jim, I don't have that information in front of me, we can verify that, Vinyl siding.

MR. PETRO: That looks like a wood frame.

MR. BABCOCK: It's vinyl siding so it's combustible facing so I'm not sure what the setback is, but I'll check that.

MR. PETRO: Say if it's adequate and you don't know that it is.

MR. SHAW: No, that's something reviewed by the architect.

MR. PETRO: I know in the city that's what it is, but I don't know if that's what it is in the town, but you can cut some of the building instead of moving the other structure.

MR. SHAW: Absolutely.

MR. PETRO: Just like that, get rid of the square footage. You have 25 catch basins on the site?

MR. SHAW: Yes, it's just the nature of the beast. We have, the way the grading is between the units, they'll be pitching from the doors of the mini storage buildings to a valley in the center then it will be flowing lengthwise along the valley. We have a lot of buildings, we have a lot of pavement between them, a lot of valleys in the pavement, a lot of catch basins in the valleys, add them up, it's a considerable number of catch basins.

MR. LANDER: What's the separation between these buildings, Mr. Shaw, is it 20 feet, 30 feet?

MR. SHAW: 25 foot aisle.

MR. PETRO: So, you pull your car in there and you just park in front of your door?

MR. SHAW: Correct, the way it operates and maybe I ought to just take a minute explaining it, is that a person who's visiting the office would just pull in the entrance park in one of the parking spaces and enter the office. If you have a mini storage that you want to access, you would pull in in this fashion and you have an entry key pad station where you would be punching in your number, this slide gate would now open, you would now access to the site, pull in whatever aisle would be appropriate, remove or place within the mini storage facility your belongings and at that point, you would pull out also and again, there's a slide gate with an exit key entry pad, again, you would have to punch your numbers for that slide gate to open and for you to exit. You could have access to your facility seven days a week 24 hours a day and this is and I may point out this is a very light usage, based upon an existing facility which Safety Storage has in Blooming Grove, they average three to four cars an hour, which is not a high volume operation.

MR. PETRO: Your loading and unloading is in the traffic aisle though you don't pull out of the traffic aisle, you just stop in the aisle, someone would have to go around you?

MR. SHAW: Correct, 25 feet wide, certainly sufficient

to unload something or load it into your vehicle and have another car pass you.

MR. PETRO: Probably not there very long.

MR. SHAW: And there's not that many vehicles on the site at one time.

MR. PETRO: We do have fire approval also on 5/11/1999 so maybe that separation is proper.

MR. BABCOCK: I'll check it.

MR. PETRO: This is a public hearing, at this time, I'd like to open it up to the public. On the 27th day of May, 1999, 16 addressed envelopes did go out containing the notice of public hearing. So, at this time, if there's anyone that would like to speak on behalf of this application, please come forward, be recognized by the Chair, state your case. Is there anybody here? Let the record not nobody is here, so I'll entertain a motion to close the public hearing.

MR. STENT: Motion to close.

MR. LUCAS: Second it.

MR. PETRO: Motion has been made and seconded that the New Windsor Planning Board close the public hearing for the Safety Storage LLC site plan. Is there any further discussion from the board members? If not, roll call.

ROLL CALL

| | |
|---|---|
| MR. ARGENIO | AYE |
| MR. STENT | AYE |
| MR. LANDER | AYE |
| MR. LUCAS | AYE |
| MR. PETRO | AYE |

MR. PETRO: At this time, I'd like to open it back up to the board for any further review.

MR. STENT: Mark, do you have anything that we should be looking at here?

MR. EDSALL: Well, we had, at the previous review, some what I believe are minor comments that can easily be corrected. A couple additional items which I will just bring up, they are things Greg and I talked about some of them, we were going to look at storm water calculations, get that on record. One item is the fact that the new bulk tables require ten parking spaces for the mini storage sites and we weren't aware of this when the initial plan was prepared. It's in the new bulk tables. So we'll have to find a spot for two more spaces. The sanitary design, I understand Greg's belief of the procedure, but for a site plan when you do have the sanitary design included on the plan and then Mike issues a permit based on what's on the plan, so we should get that on the plan before it's stamped. That's other than the several minor comments from the previous meeting, as I indicated in my comments, the plans are very complete and I think these items can be easily--

MR. PETRO: Parking can be addressed just by the, to the south of the location of the disposal, you have enough spaces there for two more so that's easy.

MR. EDSALL: Each are minor comments.

MR. PETRO: But you're really going to have to get the percolation done and come up with a design for the septic systems that works so you can put it on the plan.

MR. SHAW: That's not a concern, Mr. Chairman, on the 5 acre parcel, that's the least of the issues that I felt I had to deal with.

MR. LANDER: Where is all this water from this 70 percent of that lot here going to end up?

MR. SHAW: It's going to end up in this pond. What you have, let me explain it over here, it's a little easier, what you have is maybe about three to four hundred feet east of the parcel is a depression, a swale, and it's rather gentle, but it does collect the storm water and it flows in a southerly direction.

Now, the balance of the property of Rock Tavern Village is 70 acres and it flows through that property and eventually ends up in a drainage course 800 feet to the south of this parcel and that was one of the letters that Mr. Chairman read with respect to the fact that Rock Tavern accepted the water and when they develop the balance of their site picking it up through a storm water management system, whatever it maybe.

MR. PETRO: That was one of the questions we had asked at the last meeting, Ron, and we had determined we needed a letter from the adjoining property owner.

MR. ARGENIO: Mark, this septic thing has me a little concerned. If we're looking for final approval tonight, it would be subject to a proper design of the septic disposal system being submitted?

MR. EDSALL: And included on the plan. Again, I don't anticipate, as Mr. Shaw indicated, I don't anticipate as well any problem and although there's several issues that are outstanding, they are all minor issues. So with a project of this complexity, I wouldn't have any objection to you including that as one of the subject-to's and I'll make sure it's resolved before the plan is stamped.

MR. SHAW: You're looking at the waste water generated by a one bedroom house, it's the office and only the office, so you're talking about 130 or 140 gallons a day.

MR. ARGENIO: Greg, I understand and I don't believe I have a problem with it. The only thing going through my mind was with no perc data and lineal footage data, how does the monitoring body certify that it's built according to the plans?

MR. EDSALL: No, what we're suggesting is that before the plan can be stamped, I would have to have a complete design on the plan, if there's a problem with the design, well then we'll have to resolve it.

MR. SHAW: Then I'd have to come back to the workshop and possibly back to this board.

MR. EDSALL: Purely a technical issue, one which I will be reviewing. So if you want to save your calendar from getting clogged up with repeat items, I have no problem with your making that a condition. It's very straightforward for us to solve, I think Greg just didn't understand that we as a matter of course like to have the sanitaries on site plan approvals so it's just a matter--

MR. SHAW: I thought it was a separate permit issued by Mike's office.

MR. EDSALL: Mike relies on us at the Planning Board review to look at site plan or the sanitary disposal for site plans.

MR. SHAW: We can do that very easily.

MR. PETRO: Also, on the 207 side which I would consider the front side, you have the 6 foot vinyl chain link fence running the perimeter of the property, I think there should be some shrubbery along the fence.

MR. SHAW: If you look at the landscape plan, we have a considerable amount of shrubbery along 207, both on Toleman and on 207.

MR. PETRO: I see it.

MR. PETRO: All right, okay, anything else?

MR. STENT: I make a motion.

MR. LUCAS: I have one other thing, Mr. Shaw is very accommodating, I think just one of the oversights on his part is the flag pole.

MR. SHAW: Does it have to have a flag?

MR. LUCAS: Yes.

MR. SHAW: We can accommodate the pole and the flag.

MR. KRIEGER: No, he just mentioned a flag pole, he

specifically did not ask for a flag pole.

MR. STENT: Mr. Chairman, I move we declare negative dec on this.

MR. LUCAS: Second it.

MR. PETRO: Motion has been made and seconded that the New Windsor Planning Board declare negative dec according to the SEQRA process for the Safety Storage LLC site plan. Is there any further discussion from the board members? If not, roll call.

ROLL CALL

| | |
|---|---|
| MR. ARGENIO | AYE |
| MR. STENT | AYE |
| MR. LANDER | AYE |
| MR. LUCAS | AYE |
| MR. PETRO | AYE |

MR. PETRO: I think we have one, two basically two subject-to's. Mark?

MR. EDSALL: I would just reference the issues that were noted in tonight's minutes and as well responding to my minor items that were listed in my comments from I guess it was the meeting of 12 May cause I did have a couple comments that were minor and they are clean-up items that didn't need to be addressed for the public hearing.

MR. PETRO: That and the design and the two parking spaces added to the plan and the design of the septic system being acceptable to the town engineer.

MR. STENT: Make a motion we grant final approval to the Safety Storage LLC site plan 207 on Toleman Road with the subject-to's that the Chairman has read in and Mr. Edsall read in.

MR. ARGENIO: Second it.

MR. PETRO: Motion's been made and seconded to grant final approval to the Safety Storage LLC site plan

Toleman Road and 207. Is there any further discussion from the board members? If not, roll call.

ROLL CALL

| | |
|---|---|
| MR. ARGENIO | AYE |
| MR. STENT | AYE |
| MR. LANDER | AYE |
| MR. LUCAS | AYE |
| MR. PETRO | AYE |

SAFETY STORAGE SITE PLAN (99-12)

Mr. Gregory Shaw of Shaw Engineering appeared before the board for this proposal.

MR. PETRO: Proposed storage units with office and concept basis only by the workshop, I guess this is the first time we're seeing it, so you want to start us off, Greg?

MR. SHAW: Yes, as the Chairman said, this is a five acre parcel located in the intersection of New York State Route 207 and Toleman Road. If this board remembers, this parcel was recently approved by this board as a minor subdivision probably about 30 days ago, maybe 45 days ago. Just to digress for a minute, the lot line change plan has not been filed yet, but that has to be done before the plans are stamped for this mini storage facility. As I said, it's a five acre parcel, it's an OLI zone, across the street you have an AP Zone, that's the lands of New York State DOT and on the opposite side of Toleman Road, you have an R-1 zone. We're proposing seven buildings, which will represent 1,600 square feet of office space, that will be near the entrance, that will be a two story structure detached, then the balance of the site will be mini storage buildings varying in width between 30 feet and 40 feet and that's a total of 58,550 square feet.

MR. PETRO: How big is the largest building?

MR. SHAW: Largest building is 9,800 square feet which is building one.

MR. PETRO: We had another storage facility here at the last meeting, another large one that's being proposed, we ran into a little snag with they need to be sprinklered, anything over 5,000 feet. Obviously, you can't sprinkler these out there, there's no water, that's number one, and it would not be cost effective to put a sprinkler system, how'd you make out with that?

MR. EDSALL: It's not really a problem because the Fire

Prevention Bureau has made a determination that these type facilities do not need to be sprinklered, although one may be burning in Cornwall.

MR. PETRO: Town of New Windsor?

MR. EDSALL: Correct, Bob Rogers verified that does not--

MR. PETRO: This very recent since the last?

MR. EDSALL: A previous application, so the bottom line is that it doesn't pertain or apply to this type of a use.

MR. PETRO: May 5, well, you're in luck, okay.

MR. SHAW: Moving along, this site will be served by an individual well and an individual sewage disposal system. The applicant is Safety Storage, they have a facility in Blooming Grove over on 17M and I went over and took a look at it, it's an attractive facility. The way the operations run is that you enter the site, you have a courtyard area which has your parking spaces and also has sliding gates with key pads. You would park your car, you would go into the office, you'd make whatever arrangements you would, then you would enter into the site by punching in your number into the key pad. Once you went to the site, the traffic circulation would be one way until you come out again near the office. Again, there's a sliding gate which has a key pad also and again, you have to punch in the numbers in order to exit the site, so that which is by the office that which contains the parking spaces is open to the public. Everything after that is secured. And access would be through sliding gates and key pad entry. What we have also done on this site is the fencing that faces 207 and also on Toleman Road we have designated that's a six foot high black vinyl chain link fence. That property which faces the lands of Rock Tavern Village on two sides, that would be galvanized chain link fence with privacy slats. So that, Mr. Chairman, is a brief overview of the parcel, and maybe one last aspect is that yes, we're going to have an internal storm drainage system catch basin and

pipes will be located between the buildings that will catch the storm water from the pavement and the building, we have indicated in the corner of our site a storm water detention pond to detain the flows.

MR. PETRO: Six foot fence, now, explain this to me also, is that something new under the new codes that it's four foot now?

MR. BABCOCK: Yeah, what the code says is that it cannot be over six foot closer to the street than the principle building. Anything in the front yard can only be four foot.

MR. PETRO: This has two front yards.

MR. BABCOCK: That's correct, so it only can be four foot.

MR. PETRO: What do you have shown here?

MR. SHAW: Six foot.

MR. PETRO: You need a variance or what, go with a four foot?

MR. SHAW: Four foot would provide very little security.

MR. EDSALL: Anything in the new zoning ordinance that deals with this cause there was, if you recall, Mr. Chairman, for contractors' storage yards, you're allowed to have taller fences, if it was used as screening for the outside stored materials, so I wasn't sure if the new bulk tables had anything for this.

MR. PETRO: You can work that out. We don't need to know right now.

MR. EDSALL: It would mean if there isn't, it's got to go to the ZBA, but if there is, I guess they won't.

MR. ARGENIO: Mark, is there any issue with the proximity of the entrance to the intersection as far as you're concerned?

MR. EDSALL: I will be fully honest and say that I mentioned it at the workshop, we're leaving it for further input from the board.

MR. PETRO: We have a disapproval from Jim Pullar entrance to site should be a minimum of 200 feet from the intersection of Route 207. I was just talking with the applicant, he does have a point, this is a very, very low volume entrance and exit cars going in, I don't think you ever get a pile of cars going at one time, so I don't know if 200 feet might be a little bit--

MR. STENT: What is it now?

MR. SHAW: Probably about 75 feet from the edge of pavement of 207. What I would ask, Mr. Chairman, is that give us an opportunity to talk to Mr. Pullar and explain that to him and see if he can be swayed, his opinion, because then he's probably not knowledgeable, the fact of such a low number of vehicles.

MR. PETRO: Why don't we leave it at that, see how it comes back next time, instead of us working it over, I think whatever you determine with him will suffice to us. Is that fine? Anything else, Mark?

MR. EDSALL: Yeah, Mike was very helpful in locating Section 4816-D2 which is the section that allows for screening of parking areas and the like parking area with five or more spaces and those sites being ones which are opposite residential districts and we have exactly that here and in fact, it allows something no less than three and no more than eight feet in height.

MR. BABCOCK: With the approval of the Planning Board.

MR. EDSALL: This is what I was attempting to figure out earlier.

MR. PETRO: Other things to consider here also, gentlemen, is that the site does set down off the road a little bit and the six foot fence would not be an issue at all, not like it's sitting up high, you're

kind of down.

MR. EDSALL: So I'd say with that in the record, the question I pose is resolved.

MR. PETRO: Anybody opposed to six foot fence?

MR. STENT: No.

MR. PETRO: So that issue is solved. Let's talk a little bit about the vehicle storage area, what's that?

MR. SHAW: Those are areas reserved exactly for vehicles, maybe a car, maybe a very small camper, maybe a boat for the winter. People do have vehicles that they want to put in a secure location, which is lighted properly and again, having visited the facility in Blooming Grove, I noticed maybe about four or five vehicles throughout the site, again, one was a camper, one was a boat, so that's the nature of that storage. It's not a very heavy use, but they are there in case they are needed.

MR. STENT: I store mine in a storage area, everybody is living in condos, there's a lot of limitations where you put your boats and RV's.

MR. PETRO: These 20 foot oaks that you have, are they to be planted or existing?

MR. SHAW: Those are existing and there's a landscaped plan including, the step which I think we have done a very good job as far as buffering the site on 207 and Toleman.

MR. PETRO: The concern I would have is Toleman Road, I think according to the topo, it drops down off Toleman, so you would see all the tops of the cars riding back and forth on Toleman of the parked vehicles, but the 20 foot oaks seem to be in a good position, I didn't look at the landscaping plan, but you might be able to fill that in a little bit.

MR. SHAW: We filled the entire length of the frontage.

MR. STENT: The houses on the other side would be looking down.

MR. SHAW: You have two residences relatively large lots as I said, it is a residential district, but at best, there's two homes over there.

MR. PETRO: Where's the outlet on the storm water detention pond?

MR. SHAW: It's going to discharge at the low point onto the lands of Rock Tavern Village, that's where the storm water's presently flowing now.

MR. PETRO: In a defined area or sheet flow all over the place?

MR. SHAW: It's going to have an outlet piped with some riprap protection on the outlet so it will be concentrated coming out of the pipe. Once it hits the riprap, she'll spread out, but it's somewhere between sheet flow and concentrated, all right, but the riprap will knock down the velocity to reduce any scour.

MR. EDSALL: Jim, it might be worthwhile just to, since Greg is, I assume representing the owner of the remaining parcel, at this point same party, to let them know that we would expect that when the balance is developed, they'd build in collecting that storm water into some type of system so it wouldn't impact on whatever site improvements would be on the balance.

MR. PETRO: Because you're going to be collecting a substantial amount of water here.

MR. EDSALL: Again, since we don't know what's going to happen with the balance of the parcel, it's hard to object to what he's doing, it puts the burden on the property owner to take this into account when they develop the balance.

MR. PETRO: Okay, ten foot dead tree you have here on the map, are you going to try and revive that?

MR. SHAW: It's not on our property, otherwise we

would.

MR. PETRO: I've never seen one of those plotted on a plan, ten foot dead tree.

MR. EDSALL: It's a firewood sale.

MR. SHAW: We try to get every bit of landscaping we can.

MR. PETRO: Let's look at the landscaping plan, talk about the front, I see you have quite a few plantings.

MR. SHAW: What we have tried to do is to break it up a little bit. We have some thunder cloud plums and there's ten of them that are spread along 207 and on Toleman Road, the purpose of that is to give us a little color as opposed to just having a massive green. In between these thunder cloud plums, what we have planted are clumps of Norway spruce and eastern white pine, again, we have done it in two, three and four groupings and then we have altered them spruce to pine and then pine to spruce, again, the idea is to create a visual barrier primarily on Toleman Road and with some color and again, not as intense but also along Route 207 so you're going to have some color and some evergreen for screening again behind this evergreen is going to be the black vinyl fencing, okay, which will not stand out, obviously, as as much as the chain link would on those two streets.

MR. PETRO: I see P-A here, ten foot height which is very good on Toleman Road probably going to screen that pretty well because it's already higher, I'm just concerned with the vehicles parked along Toleman.

MR. SHAW: The eight to ten feet are for the thunder cloud plums, that's not for the white pines or the spruces, they are six to seven feet, so if you're saying that you want eight to ten well then the six to seven have to be increased in size, I don't want to mislead the board.

MR. PETRO: Being high up on the road like it is there, I think they would be fine anyway, but you do have a

couple PT's there, ten foot to start with, I see one, two, okay, that's enough of that. Mark, what are the, what other outstanding issue do you have?

MR. EDSALL: Well, I didn't go through the plan very closely because I wasn't sure what reaction you'd have and if there were any changes that need to be made, but Greg and I went over each of the sheets at the workshop, I would say they are very complete and I would be very surprised on the lighting plan, the drainage plan, landscaping if I would have any suggestions because they are very complete. We went over some issues in the workshop and I just don't see that there's any problems.

MR. PETRO: Why don't we declare lead agency.

MR. STENT: So moved.

MR. ARGENIO: Second it.

MR. PETRO: Motion has been made and seconded that the New Windsor Planning Board declare itself lead agency for the Safety Storage site plan. Is there any further discussion from the board members? If not, roll call.

ROLL CALL

| | |
|---|---|
| MR. ARGENIO | AYE |
| MR. STENT | AYE |
| MR. PETRO | AYE |

MR. PETRO: Normally, I wouldn't talk about a public hearing because the plan wouldn't be that complete, we have so few changes to this plan, if we were to have a public hearing, I would not be ashamed to put this plan up as it's shown, frankly, I don't know if we have any changes, we have a couple comments from Mark, but they are minor in nature except--

MR. EDSALL: Very minor.

MR. ARGENIO: Mark, I think the bollards are shown as yellow, do we have a problem?

MR. EDSALL: If they are called out as yellow, yellow's fine, I can see that for sure.

MR. ARGENIO: That's bright, right?

MR. EDSALL: I might of missed the yellow.

MR. SHAW: That's one less comment.

MR. ARGENIO: Quite by accident, Mark.

MR. EDSALL: Should have been highlighted yellow.

MR. PETRO: I want to direct this comment to Mr. Green who's in the audience with the applicant, I'd like to see something in writing from the owners of the property that the remaining property that they are going to accept the storm water discharge on their property and take responsibility for it. Can you get a letter to the Planning Board because I really feel what's the total acreage on this?

MR. EDSALL: Five.

MR. SHAW: Probably four acres are being disturbed, excuse me, four are going to be impervious.

MR. PETRO: You're talking about a fair percentage of the site.

MR. GREEN: Mr. Chairman, there's a natural swale that runs down through there now, that's where the discharge is going out, if I am not mistaken.

MR. SHAW: Yes.

MR. ARGENIO: If I can add a thought, I would stand behind the Chairman on that a hundred percent, this area of the Town there have been drainage issues that have come up from time to time on many different residential subdivisions and commercial developments, I'm the freshman member here, I have been here for two years, I can specifically remember at least two and there's a lot of wetlands in this area. I don't think there should be any on this plan because Greg hasn't

shown any, but the contours are such that the drainage seems to run north to the south and Jim, I agree with what you're saying, probably check into that because creating that much impervious surface--

MR. PETRO: Letter stating they are aware of it and they will correct it at the time of future development.

MR. GREEN: It's going to be addressed at the future development of the property.

MR. PETRO: It's going to be sizable, the public hearing I feel we should have a public hearing because it's a large commercial development, there's homes around there and we should have it and protect you and us.

MR. ARGENIO: Let me just back up cause I'm not clear. The applicant has to acquire letters from the residents saying they have no problem with the water and we're going to have a public hearing in addition to that?

MR. PETRO: No, the applicant is buying this piece of property from the person who owns all the property on both sides, so I need a letter from him saying that he knows that the water's being discharged on his remaining properties.

MR. ARGENIO: That makes it clear.

MR. PETRO: Nothing to do with public hearing or surrounding neighbors. Again, I feel we're far enough along we can actually ask to have the public hearing and set it up.

MR. STENT: I move we set up a public hearing.

MR. ARGENIO: Second it.

MR. PETRO: Motion has been made and seconded that the New Windsor Planning Board set up the date to have a public hearing for the Safety Storage LLC site plan on Toleman Road and 207. Is there any further discussion from the board members? If not, roll call.

ROLL CALL

MR. ARGENIO AYE
MR. STENT AYE
MR. PETRO AYE

MR. PETRO: We can do that immediately. Is there anything else outstanding? Looks pretty good to me.

MR. EDSALL: Real good shape.

MR. PETRO: Thank you.

McGOEY, HAUSER and EDSALL
CONSULTING ENGINEERS P.C.

RICHARD D. McGOEY, P.E.
WILLIAM J. HAUSER, P.E.
MARK J. EDSALL, P.E.
JAMES M. FARR, P.E.

☐ **Main Office**
45 Quassaick Ave. (Route 9W)
New Windsor, New York 12553
(914) 562-8640

☐ **Branch Office**
507 Broad Street
Milford, Pennsylvania 18337
(570) 296-2765

**TOWN OF NEW WINDSOR**
**PLANNING BOARD**
**REVIEW COMMENTS**

| | |
|---|---|
| **REVIEW NAME:** | SAFETY STORAGE LLC SITE PLAN |
| **PROJECT LOCATION:** | NYS ROUTE 207 AND TOLEMAN ROAD<br>SECTION 29 - BLOCK 1 - LOT 26.221 |
| **PROJECT NUMBER:** | 99-12 |
| **DATE:** | 12 MAY 1999 |
| **DESCRIPTION:** | THE APPLICATION PROPOSES SELF-STORAGE MINI-WAREHOUSES ON THE SITE. THE PLAN WAS REVIEWED ON A CONCEPT BASIS ONLY. |

1. This use is use A-12 on the new bulk tables. Based on information made available by the Town Building Inspector's office, the Applicant was provided the required bulk information depicted on this plan. Based on the "provided" values noted, site compliance would appear to exist.

2. For my preliminary review of the site, I have noted the following concerns:

   a. The application and plan indicate that this is a portion of the referenced tax lot. The Applicant should verify the status of the five acre lot shown.

   b. The plan depicts a 6' high fence surrounding the site. Unless otherwise permitted in the new bulk tables, it is my understanding the fences between the principal buildings and the roadway would be limited to 4' height per zoning section 48-14(C).

   c. Numerous concrete bollards exist on the site. It is suggested that these bollards either be painted with a visible safety color, or they include a similarly colored band on the bollard.

   d. The signs on the southern ends of the building rows should be "do not enter" signs rather than one-way signs.

**TOWN OF NEW WINDSOR**
**PLANNING BOARD**
**REVIEW COMMENTS**

| | |
|---|---|
| **REVIEW NAME:** | SAFETY STORAGE LLC SITE PLAN |
| **PROJECT LOCATION:** | NYS ROUTE 207 AND TOLEMAN ROAD<br>SECTION 29 - BLOCK 1 - LOT 26.221 |
| **PROJECT NUMBER:** | 99-12 |
| **DATE:** | 12 MAY 1999 |



e. Some free-standing one-way signs should identify the one-way clockwise exterior traffic flow proposed.

f. The chainlink fence detail on drawing 2 should acknowledge that some fences are black vinyl fence and some are galvanized with green privacy slats.

3. I performed an overall conceptual review of the various drawings submitted. The lighting, landscaping, etc. appears generally acceptable, although a review by the Planning Board is necessary. Once the Planning Board has reviewed the overall set on a concept basis and generally accepts the layout, I will complete my detailed review of the Site Plans, including site grading, drainage, etc.

4. The Planning Board should determine, for the record, if a **Public Hearing** will be necessary for his **Site Plan**, per its discretionary judgement under Paragraph 48-19.C of the Town Zoning Local Law.

5. At such time that the Planning Board has made further review of this application, **further engineering reviews** and comments will be made, as deemed necessary by the Board.

Respectfully submitted,

Mark J. Edsall

Mark J. Edsall, P.E.
Planning Board Engineer

MJEsh

A:safety.sh

McGOEY, HAUSER and EDSALL
CONSULTING ENGINEERS P.C.

RICHARD D. McGOEY, P.E.
WILLIAM J. HAUSER, P.E.
MARK J. EDSALL, P.E.
JAMES M. FARR, P.E.

☐ **Main Office**
45 Quassaick Ave. (Route 9W)
New Windsor, New York 12553
(914) 562-8640

☐ **Branch Office**
507 Broad Street
Milford, Pennsylvania 18337
(570) 296-2765

**TOWN OF NEW WINDSOR**
**PLANNING BOARD**
**REVIEW COMMENTS**

| | |
|---|---|
| **REVIEW NAME:** | SAFETY STORAGE LLC SITE PLAN |
| **PROJECT LOCATION:** | NYS ROUTE 207 AND TOLEMAN ROAD<br>SECTION 29 - BLOCK 1 - LOT 26.221 |
| **PROJECT NUMBER:** | 99-12 |
| **DATE:** | 9 JUNE 1999 |
| **DESCRIPTION:** | THE APPLICATION PROPOSES SELF-STORAGE MINI-WAREHOUSES ON THE SITE. THE PLAN WAS PREVIOUSLY REVIEWED AT THE 12 MAIN 1999 PLANNING BOARD MEETING. THE APPLICATION IS BEFORE THE BOARD FOR A PUBLIC HEARING AT THIS MEETING. |

1. As previously indicated, this is Use A-12 on the new bulk tables. The plan would appear to comply with the minimum bulk requirements for the zone and use group.

2. The site plans are in very good design condition at this time. Based on my previous review comments, some minor revisions were recommended to the plans and can be accomplished prior to final submittal.

   The Planning Board also requested that the Applicant submit a letter indicating that a letter from the property owner of the adjoining parcel indicating no objection to the discharge of stormwater drainage as proposed on this site plan. A letter has been submitted; the Planning Board should determine if same meets their requirements.

3. Once the Planning Board has had the opportunity to review the comments from the public at this hearing, I will be pleased to review any additional concerns which may be identified.

Respectfully submitted,

Mark J. Edsall, P.E.
Planning Board Engineer
MJEmk
A:SAFETY2.mk

Public Hearing

**RESULTS OF P.B. MEETING OF:** June 9, 1999

**PROJECT:** Safety Storage **P.B.#** 99-12

**LEAD AGENCY:**

**NEGATIVE DEC:**

1. **AUTHORIZE COORD LETTER:** Y___ N___
2. **TAKE LEAD AGENCY:** Y___ N___

M)___ S)___ VOTE: A___ N___
CARRIED: YES___ NO___

M) 5 S) LU VOTE: A 5 N 0
CARRIED: YES ✓ NO___

~~WAIVE~~ PUBLIC HEARING: M) 5 S) LU VOTE: A 5 N 0 Closed ~~WAIVED~~: Y___ N___

SCHEDULE P.H. Y___ N___

SEND TO O.C. PLANNING: Y__

SEND TO DEPT. OF TRANSPORTATION: Y__

REFER TO Z.B.A.: M)___ S)___ VOTE: A___ N___

RETURN TO WORK SHOP: YES___ NO___

**APPROVAL:**

M)___ S)___ VOTE: A___ N___ APPROVED:_____
M) 5 S) A VOTE: A 5 N 0 APPROVED CONDITIONALLY: 6-9-99

NEED NEW PLANS: Y ✓ N___

**DISCUSSION/APPROVAL CONDITIONS:**

| |
|---|
| Check on Rock Tavern L.P. Subdivision |
| Perc? |
| Check separation between office & Bldg. |
| Need two more parking spaces |
| Need sanitary design |
| 5/12/99 Eng. Comments to be addressed |
| |
| |

PLANNING BOARD
TOWN OF NEW WINDSOR

AS OF: 06/09/1999 PAGE: 1

LISTING OF PLANNING BOARD **AGENCY APPROVALS**

FOR PROJECT NUMBER: 99-12
NAME: SAFETY STORAGE, LLC
APPLICANT: SAFETY STORAGE, LLC

| | DATE-SENT | AGENCY---------- | DATE-RECD | RESPONSE---------- |
|---|---|---|---|---|
| ORIG | 05/07/1999 | MUNICIPAL HIGHWAY | 05/26/1999 | APPROVED |
| | | . | | |
| | | . | | |
| ORIG | 05/07/1999 | MUNICIPAL WATER | 05/10/1999 | APPROVED |
| ORIG | 05/07/1999 | MUNICIPAL SEWER | 05/03/1999 | APPROVED |
| ORIG | 05/07/1999 | MUNICIPAL FIRE | 05/11/1999 | APPROVED |

*ROCK TAVERN VILLAGE, L.P.*

400 Ba Mar Drive
Stony Point, NY 10980

Telephone (914) 786-6000
Fax (914) 786-3992

May 25, 1999

Chairman James Petro and
Members of the Planning Board
TOWN OF NEW WINDSOR
555 Union Avenue
New Windsor, NY 12553

Re: New Facility For Safety Storage, LLC
NYS Route 207 & Toleman Road
Lands of Rock Tavern Village, L.P.

Dear Chairman Petro and Planning Board Members:

I am writing to you regarding the Application of Safety Storage, LLC that is presently before your Board for Site Plan Approval. Rock Tavern Village, L.P. currently owns the property that will contain the new mini-storage facility of Safety Storage, LLC.

I understand that the post-development stormwater of Safety Storage, LLC will discharge onto the adjoining lands of Rock Tavern Village, L.P. This is acceptable to Rock Tavern Village, L.P. At the time the adjoining property is developed, I will incorporate this post-development stormwater from Safety Storage into the project's stormwater management system.

I trust this will resolve your concerns regarding the stormwater discharge from Safety Storage, LLC. on to my property.

Very truly yours,

Lester A. Clark
General Partner

cc: G. Shaw

cc: M.E.
RECEIVED MAY 2 6 1999 @

PLANNING BOARD : TOWN OF NEW WINDSOR
COUNTY OF ORANGE : STATE OF NEW YORK

----------x

In the Matter of Application for Site Plan/~~Subdivision~~ of

Safety Storage Facility,

Applicant.

AFFIDAVIT OF
SERVICE
BY MAIL

----------x

STATE OF NEW YORK)
) SS.:
COUNTY OF ORANGE )

MYRA L. MASON, being duly sworn, deposes and says:

That I am not a party to the action, am over 18 years of age and reside at ~~350~~ 67 Bethlehem Road, New Windsor, NY 12553.

On May 27 1999, I compared the 16 addressed envelopes containing the attached Notice of Public Hearing with the certified list provided by the Assessor regarding the above application for Site Plan/Subdivision and I find that the addressees are identical to the list received. I then mailed the envelopes in a U.S. Depository within the Town of New Windsor.

Myra Mason
Myra L. Mason, Secretary for
the Planning Board

Sworn to before me this
27th day of May, 1999

Deborah Green
Notary Public

DEBORAH GREEN
Notary Public, State of New York
Qualified in Orange County
# 4984065
Commission Expires July 15, 1999

AFFIMAIL.PLB - DISC#1 P.B.

# Town of New Windsor

555 Union Avenue
New Windsor, New York 12553
Telephone: (914) 563-4631
Fax: (914) 563-4693

## Assessors Office

May 17, 1999

Rock Tavern Village L.P.
400 Bamar Drive
Stoney Point, NY 10980

RE: 29-1-26.221

Dear Mr. Greg Shaw:

According to our records, the attached list of property owners that are abutting to the above referenced parcel.

The charge for this service is $35.00, minus your deposit of $25.00. Please remit the balance of $10.00 to the Town Clerk at the above address.

Sincerely,

L. Cook (ev)

Leslie Cook
Sole Assessor

/ev
Attachments

cc: Myra Mason, Planning Board

Airport Director, NYS Dept. of
Trans., Stewart International Airport
1035 First Street
New Windsor, NY 12553

Murray Welch Holding Corp.
614 Little Britain Road
New Windsor, NY 12553

David & Mildred Perez
539 Toleman Road
Rock Tavern, NY 12575

Jay & Diane Oldham
551 Toleman Road
Rock Tavern, NY 12575

George & Iga Gottlieb
561 Toleman Road
Rock Tavern, NY 12575

Raymond Czumak
971 Route 207
Rock Tavern, NY 12575

Mary Czumak
18 Schofield Lane
Cornwall, NY 12518

William & Phyllis Eich
538 Toleman Road
New Windsor, NY 12553

Joseph Dimiceli
530 Toleman Road
New Windsor, NY 12553

Toleman Station Associates LLC
c/o Johnson, Johnson & Tanz
100 Gair Street
Pierpont, NY 10968

Salvatore & Carol Gargiulo
& Henry & Alice Gargiulo
1578 East 233rd Street
Bronx, NY 10466

George J. Meyers, Supervisor
Town of New Windsor
555 Union Avenue
New Windsor, NY 12553

Dorothy H. Hansen, Town Clerk
Town of New Windsor
555 Union Avenue
New Windsor, NY 12553

Andrew Krieger, Esq.
219 Quassaick Avenue
New Windsor, NY 12553

James R. Petro, Chairman
Planning Board
555 Union Avenue
New Windsor, NY 12553

Mark J. Edsall, P.E., McGoey and
Hauser, Consulting Engineers, P.C.
45 Quassaick Avenue
New Windsor, NY 12553

16 envelopes mailed

LEGAL NOTICE

NOTICE IS HEREBY GIVEN that the PLANNING BOARD of the TOWN OF NEW WINDSOR, County of Orange, State of New York will hold a PUBLIC HEARING at Town Hall, 555 Union Avenue, New Windsor, New York on June 9 1999 at 7:30 P.M. on the approval of the proposed Site Plan ~~(Subdivision of Lands)~~* ~~(Site Plan)~~* OF New Facility For Safety Storage, LLC located at intersection of NYS Route 207 and Toleman Road (Tax Map Section 29, Block 1, Lot 26.221)

Map of the ~~(Subdivision of Lands)~~(Site Plan)* is on file and may be inspected at the Planning Board Office, Town Hall, 555 Union Avenue, New Windsor, N.Y. prior to the Public Hearing.

Dated: May 24, 1999

By Order of

TOWN OF NEW WINDSOR PLANNING BOARD

James R. Petro, Jr.

Chairman

# TOWN OF NEW WINDSOR

555 UNION AVENUE
NEW WINDSOR, NEW YORK 12553

## REQUEST FOR NOTIFICATION LIST

DATE: 5-13-99

1763

NAME: Rock Tavern Village L.P. TELE: (914) 561-3695

ADDRESS: 400 Bamar Drive
Stoney Point, NY 10980

Contact Grey Shaw
Re: payment

TAX MAP NUMBER: SEC. 29, BLOCK 1, LOT 26.221 40.3 ~~40~~ acres
Corner Tolemon + Rt. 207 SEC. ____, BLOCK ____, LOT ____
SEC. ____, BLOCK ____, LOT ____

PUBLIC HEARING DATE (IF KNOWN): 6-9-99

THIS PUBLIC HEARING IS BEING REQUESTED BY:

NEW WINDSOR PLANNING BOARD:

SITE PLAN & SUBDIVISIONS:

(LIST WILL CONSIST OF ABUTTING PROPERTY OWNERS AND ACROSS ANY STREET) ✓ YES

SPECIAL PERMIT ONLY:

(LIST WILL CONSIST OF ALL PROPERTY OWNERS WITHIN 500 FEET) ____ YES

AGRICULTURAL DISTRICT:

(LIST WILL CONSIST OF ALL PROPERTY OWNERS WITHIN THE AG DIST. WHICH IS WITHIN 500' OF SITE PLAN OR SUBDIVISION PROJECT) ____ YES

* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *

NEW WINDSOR ZONING BOARD:

(LIST WILL CONSIST OF ALL PROPERTY OWNERS WITHIN 500 FEET) ____ YES

* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *

AMOUNT OF DEPOSIT $____ TOTAL CHARGE $ ____

**RESULTS OF [redacted] MEETING OF :** May 12, 1999

**PROJECT:** Safety Storage S.P. **P.B.#** 99-12

**LEAD AGENCY:**

1. **AUTHORIZE COORD LETTER:** Y___ N___
2. **TAKE LEAD AGENCY:** Y ✓ N___

M) S S) A VOTE: A 3 N 0
CARRIED: YES ✓ NO___

**NEGATIVE DEC:**

M)___ S)___ VOTE: A___ N___
CARRIED: YES___ NO___

WAIVE PUBLIC HEARING: M) S S) A VOTE: A 3 N 0 WAIVED: Y___ N ✓

SCHEDULE P.H. Y ✓ N___

SEND TO O.C. PLANNING: Y___

SEND TO DEPT. OF TRANSPORTATION: Y___

REFER TO Z.B.A.: M)___ S)___ VOTE: A___ N___

RETURN TO WORK SHOP: YES___ NO___

**APPROVAL:**

M)___ S)___ VOTE: A___ N___ APPROVED:_____
M)___ S)___ VOTE: A___ N___ APPROVED CONDITIONALLY:_____

NEED NEW PLANS: Y____ N____

**DISCUSSION/APPROVAL CONDITIONS:**

Applicant to talk to Jim Puller re drainage
6' fence OK
Need letter from remaining property owner re: drainage of the property.

1763

# TOWN OF NEW WINDSOR

555 UNION AVENUE
NEW WINDSOR, NEW YORK 12553

## NEW WINDSOR PLANNING BOARD REVIEW FORM

TO: FIRE INSPECTOR, D.O.T., WATER, SEWER, HIGHWAY

PLEASE RETURN COMPLETED FORM TO:

MYRA MASON, SECRETARY FOR THE PLANNING BOARD

PLANNING BOARD FILE NUMBER: 99-12

DATE PLAN RECEIVED: _____

The maps and plans for the Site Approval, ✓ Safety Storage

Subdivision _____ as submitted by

_____ for the building or subdivision of

_____ has been

reviewed by me and is approved ✓ _____,

disapproved _____.

If disapproved, please list reason _____

_____

_____

_____

_____

W James Gallo 5/26/99
HIGHWAY SUPERINTENDENT DATE

_____
WATER SUPERINTENDENT DATE

_____
SANITARY SUPERINTENDENT DATE


# TOWN OF NEW WINDSOR

555 UNION AVENUE
NEW WINDSOR, NEW YORK 12553

## NEW WINDSOR PLANNING BOARD REVIEW FORM

TO: FIRE INSPECTOR, D.O.T., WATER, SEWER, HIGHWAY

PLEASE RETURN COMPLETED FORM TO:

MYRA MASON, SECRETARY FOR THE PLANNING BOARD

PLANNING BOARD FILE NUMBER: 99-12

DATE PLAN RECEIVED: RECEIVED MAY - 7 1999

RECEIVED
MAY 07 1999
N.W. HIGHWAY DEPT.

The maps and plans for the Site Approval ✓

Subdivision _____ as submitted by

_____ for the building or subdivision of

_____ has been

reviewed by me and is approved _____,

disapproved ✓ .

If disapproved, please list reason _____

Entrance to site should be a minimum of 200' from the intersection of Rte. 207

W. James Sullen 5/7/99
HIGHWAY SUPERINTENDENT DATE

_____
WATER SUPERINTENDENT DATE

_____
SANITARY SUPERINTENDENT DATE

1763

# TOWN OF NEW WINDSOR

555 UNION AVENUE
NEW WINDSOR, NEW YORK 12553

## NEW WINDSOR PLANNING BOARD REVIEW FORM

TO: FIRE INSPECTOR, D.O.T., WATER, SEWER, HIGHWAY

PLEASE RETURN COMPLETED FORM TO:

MYRA MASON, SECRETARY FOR THE PLANNING BOARD

PLANNING BOARD FILE NUMBER: 99-12

DATE PLAN RECEIVED: RECEIVED MAY - 7 1999

The maps and plans for the Site Approval _____

Subdivision _____ as submitted by

_____ for the building or subdivision of

Safety Storage has been

reviewed by me and is approved L ,

~~disapproved~~ _____ .

If disapproved, please list reason _____

There is not town water in this

area.

HIGHWAY SUPERINTENDENT DATE

Steven D. Dix 5-10-99

WATER SUPERINTENDENT DATE

SANITARY SUPERINTENDENT DATE

**INTER-OFFICE MEMORANDUM**

**TO: Town Planning Board**

**FROM: Town Fire Inspector**

**DATE: May 11, 1999**

**SUBJECT: Safety Storage, L.L.C.**

Planning Board Reference Number: PB-99-12
Dated: 7 May 1999
Fire Prevention Reference Number: FPS-99-022

A review of the above referenced subject site plan was conducted on 7 May 1999.

This site plan is acceptable.

Plans Dated: 6 May 1999.

Robert F. Rodgers
Fire Inspector

RFR/dh

McGOEY, HAUSER and EDSALL
CONSULTING ENGINEERS P.C.

RICHARD D. McGOEY, P.E.
WILLIAM J. HAUSER, P.E.
MARK J. EDSALL, P.E.
JAMES M. FARR, P.E.

☐ Main Office
45 Quassaick Ave. (Route 9W)
New Windsor, New York 12553
(914) 562-8640

☐ Branch Office
507 Broad Street
Milford, Pennsylvania 18337
(717) 296-2765

1-3

## PLANNING BOARD WORK SESSION
## RECORD OF APPEARANCE

TOWN/VILLAGE OF New Windsor  P/B # 99-12

WORK SESSION DATE: 5 May 1999  APPLICANT RESUB. REQUIRED: Full App

REAPPEARANCE AT W/S REQUESTED: No

PROJECT NAME: Safety Storage S/P

PROJECT STATUS: NEW X  OLD ____

REPRESENTATIVE PRESENT: Jerry Sibini, Greg Shaw, George Green

MUNIC REPS PRESENT:
BLDG INSP. ____
FIRE INSP. X
ENGINEER X
PLANNER ____
P/B CHMN. ____
OTHER (Specify) ____

ITEMS TO BE ADDRESSED ON RESUBMITTAL:

- add one-way signs at ends of bldgs
- DNE @ other ends
- Only one DR
- NO sprinklers since compartmentized

Next avail agenda

5/12

CLOSING STATUS
____ Set for agenda
X possible agenda item
____ Discussion item for agenda
____ ZBA referral on agenda

pbwsform 10MJE98


# TOWN OF NEW WINDSOR

555 UNION AVENUE
NEW WINDSOR, NEW YORK 12553
Telephone: (914) 563-4615
Fax: (914) 563-4693

## *PLANNING BOARD APPLICATION*

***TYPE OF APPLICATION (check appropriate item):***

Subdivision____ Lot Line Change____ Site Plan X Special Permit____

Tax Map Designation: Sec. 29 Block 1 Lot 26.221 (Portion Of)

1. Name of Project New Facility For Safety Storage, LLC
2. Owner of Record Rock Tavern Village, L.P. Phone 486-6000

   Address: 400 BaMar Drive, Stony Point, N.Y. 10980
   (Street Name & Number) (Post Office) (State) (Zip)
3. Name of Applicant Safety Storage, LLC Phone 774-7233

   Address: P.O. Box 118, Route 17M, Monroe, N.Y. 10950
   (Street Name & Number) (Post Office) (State) (Zip)
4. Person Preparing Plan Gregory J. Shaw, P.E. Phone 561-3695

   Address: 744 Broadway, Newburgh, N.Y. 12550
   (Street Name & Number) (Post Office) (State) (Zip)
5. Attorney_____ Phone_____

   Address_____
   (Street Name & Number) (Post Office) (State) (Zip)
6. Person to be notified to appear at Planning Board meeting:

   Gregory J. Shaw, P.E. 561-3695
   (Name) (Phone)
7. Project Location:

   On the south side of NYS Route 207 0 feet
   (Direction) (Street) (No.)

   east of Toleman Road.
   (Direction) (Street)
8. Project Data: Acreage 5.0 Zone OLI School Dist. Washingtonville



99-12

RECEIVED MAY - 7 1999

9. Is this property within an Agricultural District containing a farm operation or within 500 feet of a farm operation located in an Agricultural District? Yes_____ No X

***This information can be verified in the Assessor's Office.**
***If you answer "yes" to question 9, please complete the attached "Agricultural Data Statement".**

10. Description of Project: (Use, Size, Number of Lots, etc.) Development of a 5 acre into a mini-storage facility totaling approximately 59,550 s.f. of storage area in 7 seven buildings

11. Has the Zoning Board of Appeals Granted any Variances for this property? yes____ no X

12. Has a Special Permit previously been granted for this property? yes____ no X

ACKNOWLEDGMENT:

IF THIS ACKNOWLEDGMENT IS COMPLETED BY ANYONE OTHER THAN THE PROPERTY OWNER, A SEPARATE NOTARIZED STATEMENT OR PROXY STATEMENT FROM THE OWNER MUST BE SUBMITTED, AT THE TIME OF APPLICATION, AUTHORIZING THIS APPLICATION.

STATE OF NEW YORK)
SS.:
COUNTY OF ORANGE)

THE UNDERSIGNED APPLICANT, BEING DULY SWORN, DEPOSES AND STATES THAT THE INFORMATION, STATEMENTS AND REPRESENTATIONS CONTAINED IN THIS APPLICATION AND SUPPORTING DOCUMENTS AND DRAWINGS ARE TRUE AND ACCURATE TO THE BEST OF HIS/HER KNOWLEDGE AND/OR BELIEF. THE APPLICANT FURTHER ACKNOWLEDGES RESPONSIBILITY TO THE TOWN FOR ALL FEES AND COSTS ASSOCIATED WITH THE REVIEW OF THIS APPLICATION.

SWORN BEFORE ME THIS:

30th DAY OF April 1999

Suzanne Barki

NOTARY PUBLIC

SUZANNE BARKI
Notary Public, State of New York
Orange County No. 01BA4991926
My Comm. Expires Feb. 10, 2000

APPLICANT'S SIGNATURE

Gerald S. Sabini

Please Print Applicant's Name as Signed

**********

TOWN USE ONLY:
RECEIVED MAY - 7 1999
DATE APPLICATION RECEIVED

99-12
APPLICATION NUMBER

# *APPLICANT/OWNER PROXY STATEMENT*
## *(for professional representation)*

for submittal to the:
TOWN OF NEW WINDSOR PLANNING BOARD

Rock Tavern Village, L.P. (OWNER), deposes and says that ~~he resides~~ it conducts business at 400 BaMar Drive, Stony Point, N.Y. 10980 (OWNER'S ADDRESS) in the County of Rockland and State of New York and that he is the owner of property tax map designation number (Sec. 29 Block 1 Lot 26.221) (Portion Of) (Sec. ____ Block ____ Lot ____) which is the premises described in the foregoing application and that he authorizes:

Safety Storage, LLC
(Applicant Name & Address, if different from owner)

Gregory J. Shaw, P.E.
( Name & Address of Professional Representative of Owner and/or Applicant)

to make the foregoing application as described therein.

Date: 5/3/99

Witness' Signature

MARY ANN HOTALING
Notary Public, State of New York
No. 01[illegible]2877
Qualified in Orange County
Commission Expires July 8, 2000

Owner's Signature

Applicant's Signature if different than owner

Representative's Signature

99-12

***THIS FORM CANNOT BE WITNESSED BY THE PERSON OR REPRESENTATIVE OF THE COMPANY WHO IS BEING AUTHORIZED TO REPRESENT THE APPLICANT AND/OR OWNER AT THE MEETINGS.***

RECEIVED MAY - 7 1999

## *TOWN OF NEW WINDSOR PLANNING BOARD*

## *SITE PLAN CHECKLIST*

ITEM

1. x Site Plan Title
2. x Applicant's Name(s)
3. x Applicant's Address
4. x Site Plan Preparer's Name
5. x Site Plan Preparer's Address
6. x Drawing Date
7. x Revision Dates
8. x Area Map Inset
9. x Site Designation
10. x Properties within 500' of site
11. x Property Owners (Item #10)
12. x Plot Plan
13. x Scale (1" = 50' or lesser)
14. x Metes and Bounds
15. x Zoning Designation
16. x North Arrow
17. x Abutting Property Owners
18. x Existing Building Locations
19. x Existing Paved Areas
20. x Existing Vegetation
21. x Existing Access & Egress

99-12



RECEIVED MAY - 7 1999

**PROPOSED IMPROVEMENTS**

22. X Landscaping
23. X Exterior Lighting
24. X Screening
25. X Access & Egress
26. X Parking Areas
27. X Loading Areas
28. X Paving Details (Items 25 - 27)
29. NA Curbing Locations
30. NA Curbing through section
31. X Catch Basin Locations
32. X Catch Basin Through Section
33. X Storm Drainage
34. NA Refuse Storage
35. X Other Outdoor Storage
36. X Water Supply
37. X Sanitary Disposal System
38. NA Fire Hydrants
39. X Building Locations
40. X Building Setbacks
41. * Front Building Elevations
42. X Divisions of Occupancy
43. * Sign Details
44. X Bulk Table Inset
45. X Property Area (Nearest 100 sq. ft.)
46. X Building Coverage (sq. ft.)
47. X Building Coverage (% of total area)
48. X Pavement Coverage (sq. ft.)
49. X Pavement Coverage (% of total area)
50. X Open Space (sq. ft.)
51. X Open Space (% of total area)
52. X No. of parking spaces proposed
53. X No. of parking spaces required

*, Denotes to be provided at a later date



99-12

RECEIVED MAY - 7 1999

**REFERRING TO QUESTION 9 ON THE APPLICATION FORM, "IS THIS PROPERTY WITHIN AN AGRICULTURAL DISTRICT CONTAINING A FARM OPERATION OR WITHIN 500 FEET OF A FARM OPERATION LOCATED IN AN AGRICULTURAL DISTRICT, PLEASE NOTE THE FOLLOWING:**

54. NA — Referral to Orange County Planning Dept. is required for all applicants filing AD Statement.

55. NA — A disclosure Statement, in the form set below, must be inscribed on all subdivision maps prior to the affixing of a stamp of approval, whether or not the Planning Board specifically requires such a statement as a condition of approval.

"Prior to the sale, lease, purchase, or exchange of property on this site which is wholly or partially within or immediately adjacent to or within 500 feet of a farm operation, the purchaser or leaser shall be notified of such farm operation with a copy of the following notification.

It is the policy of this State and this community to conserve, protect and encourage the development and improvement of agricultural land for the production of food, and other products, and also for its natural and ecological value. This notice is to inform prospective residents that the property they are about to acquire lies partially or wholly within an agricultural district or within 500 feet of such a district and that farming activities occur within the district. Such farming activities may include, but not be limited to, activities that cause noise, dust and odors.

This list is provided as a guide only and is for the convenience of the Applicant. The Town of New Windsor Planning Board may require additional notes or revisions prior to granting approval.

***PREPARER'S ACKNOWLEDGMENT:***

THE PLAT FOR THE PROPOSED SUBDIVISION HAS BEEN PREPARED IN ACCORDANCE WITH THIS CHECKLIST AND THE TOWN OF NEW WINDSOR ORDINANCES, TO THE BEST OF MY KNOWLEDGE.

BY: _____ April 28, 1999
Licensed Professional — Date

99-12

14-16-4 (2/87)—Text 12

PROJECT I.D. NUMBER

617.21
Appendix C
State Environmental Quality Review

SEQR

# SHORT ENVIRONMENTAL ASSESSMENT FORM
For UNLISTED ACTIONS Only

**PART I—PROJECT INFORMATION** (To be completed by Applicant or Project sponsor)

1. APPLICANT /SPONSOR
SafetyStorage, LLC

2. PROJECT NAME
New Facility For Safety Storage, LLC

3. PROJECT LOCATION:
Municipality Town Of New Windsor County Orange

4. PRECISE LOCATION (Street address and road intersections, prominent landmarks, etc., or provide map)
Intersection of NYS Route 207 and Toleman Road

5. IS PROPOSED ACTION:
☒ New ☐ Expansion ☐ Modification/alteration

6. DESCRIBE PROJECT BRIEFLY:
Construction of 59,550 s.f. of mini-storage space in 7 buildings on a 5.0 acre parcel

7. AMOUNT OF LAND AFFECTED:
Initially 5.0 acres Ultimately 5.0 acres

8. WILL PROPOSED ACTION COMPLY WITH EXISTING ZONING OR OTHER EXISTING LAND USE RESTRICTIONS?
☒ Yes ☐ No If No, describe briefly

9. WHAT IS PRESENT LAND USE IN VICINITY OF PROJECT?
☒ Residential ☒ Industrial ☐ Commercial ☐ Agriculture ☐ Park/Forest/Open space ☐ Other
Describe:

10. DOES ACTION INVOLVE A PERMIT APPROVAL, OR FUNDING, NOW OR ULTIMATELY FROM ANY OTHER GOVERNMENTAL AGENCY (FEDERAL, STATE OR LOCAL)?
☐ Yes ☒ No If yes, list agency(s) and permit/approvals

11. DOES ANY ASPECT OF THE ACTION HAVE A CURRENTLY VALID PERMIT OR APPROVAL?
☐ Yes ☒ No If yes, list agency name and permit/approval

12. AS A RESULT OF PROPOSED ACTION WILL EXISTING PERMIT/APPROVAL REQUIRE MODIFICATION?
☐ Yes ☐ No

I CERTIFY THAT THE INFORMATION PROVIDED ABOVE IS TRUE TO THE BEST OF MY KNOWLEDGE

Applicant/sponsor name: Safety Storage, LLC Date: April 28, 1999

Signature:

**If the action is in the Coastal Area, and you are a state agency, complete the Coastal Assessment Form before proceeding with this assessment**

OVER



99-12

RECEIVED MAY - 7 1999

## PART II—ENVIRONMENTAL ASSESSMENT (To be completed by Agency)

A. DOES ACTION EXCEED ANY TYPE I THRESHOLD IN 6 NYCRR, PART 617.12? If yes, coordinate the review process and use the FULL EAF.
☐ Yes ☒ No

B. WILL ACTION RECEIVE COORDINATED REVIEW AS PROVIDED FOR UNLISTED ACTIONS IN 6 NYCRR, PART 617.6? If No, a negative declaration may be superseded by another involved agency.
☐ Yes ☒ No

C. COULD ACTION RESULT IN ANY ADVERSE EFFECTS ASSOCIATED WITH THE FOLLOWING: (Answers may be handwritten, if legible)

C1. Existing air quality, surface or groundwater quality or quantity, noise levels, existing traffic patterns, solid waste production or disposal, potential for erosion, drainage or flooding problems? Explain briefly:

No

C2. Aesthetic, agricultural, archaeological, historic, or other natural or cultural resources; or community or neighborhood character? Explain briefly:

No

C3. Vegetation or fauna, fish, shellfish or wildlife species, significant habitats, or threatened or endangered species? Explain briefly:

No

C4. A community's existing plans or goals as officially adopted, or a change in use or intensity of use of land or other natural resources? Explain briefly.

No

C5. Growth, subsequent development, or related activities likely to be induced by the proposed action? Explain briefly.

No

C6. Long term, short term, cumulative, or other effects not identified in C1-C5? Explain briefly.

No

C7. Other impacts (including changes in use of either quantity or type of energy)? Explain briefly.

No

D. IS THERE, OR IS THERE LIKELY TO BE, CONTROVERSY RELATED TO POTENTIAL ADVERSE ENVIRONMENTAL IMPACTS?
☐ Yes ☒ No If Yes, explain briefly

## PART III—DETERMINATION OF SIGNIFICANCE (To be completed by Agency)

INSTRUCTIONS: For each adverse effect identified above, determine whether it is substantial, large, important or otherwise significant. Each effect should be assessed in connection with its (a) setting (i.e. urban or rural); (b) probability of occurring; (c) duration; (d) irreversibility; (e) geographic scope; and (f) magnitude. If necessary, add attachments or reference supporting materials. Ensure that explanations contain sufficient detail to show that all relevant adverse impacts have been identified and adequately addressed.

☐ Check this box if you have identified one or more potentially large or significant adverse impacts which MAY occur. Then proceed directly to the FULL EAF and/or prepare a positive declaration.

☐ Check this box if you have determined, based on the information and analysis above and any supporting documentation, that the proposed action WILL NOT result in any significant adverse environmental impacts AND provide on attachments as necessary, the reasons supporting this determination:

Town Of New Windsor Planning Board
Name of Lead Agency

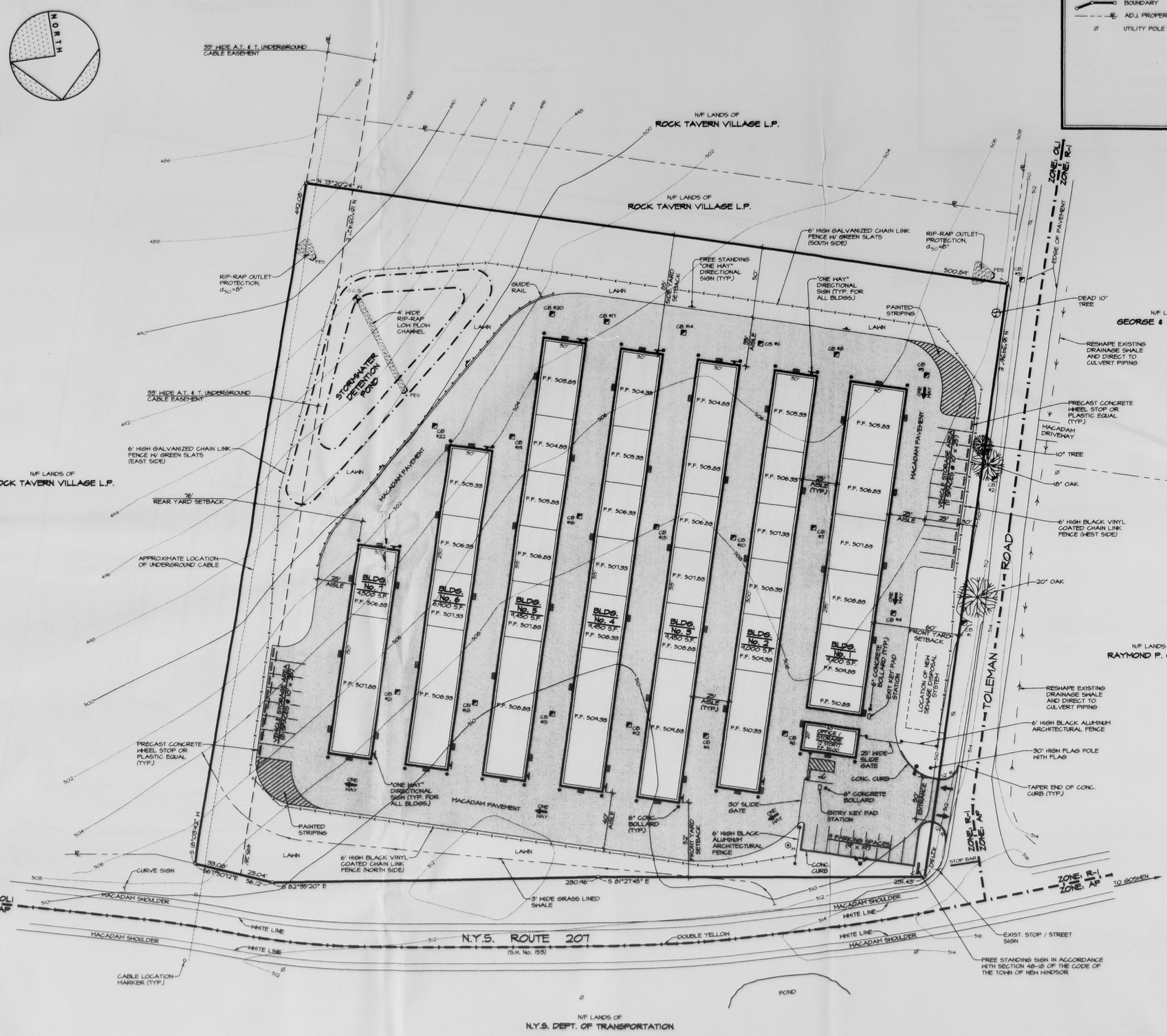
James R. Petro
Print or Type Name of Responsible Officer in Lead Agency

Chairman
Title of Responsible Officer

Signature of Responsible Officer in Lead Agency

Signature of Preparer (if different from responsible officer)

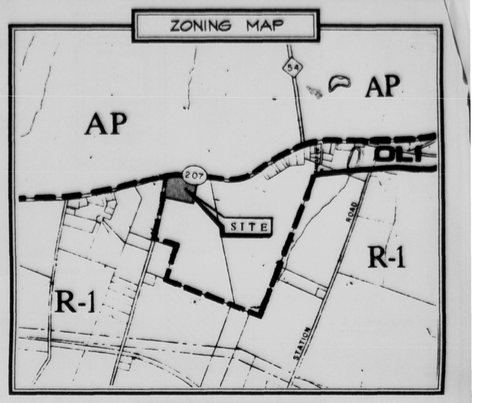
Date




## LEGEND

| EXISTING | | NEW | |
|---|---|---|---|
| 502 | 2' CONTOUR | | WALL-PAK LIGHTING |
| 510 | 10' CONTOUR | CB #6 | CATCH BASIN |
| | BOUNDARY | | MACADAM PAVEMENT |
| | ADJ. PROPERTY LINE | | CONCRETE BOLLARD |
| Ø | UTILITY POLE | x—x—x | 6' HIGH CHAIN LINK FENCE |
| | | | 6' HIGH BLACK ALUMINUM ARCHITECTURAL FENCE |
| | | H | WELL |
| | | | LIGHT POLE |
| | | O.C.S. | OUTLET CONTROL STRUCTURE |
| | | FES | FLARED END SECTION |

## ZONING MAP




## ZONING SCHEDULE

ZONE: OLI - OFFICE & LIGHT INDUSTRY
BULK REGULATIONS OF ZONE OLI: USE GROUP A-12

| | REQUIRED | PROVIDED |
|---|---|---|
| MIN. LOT AREA | 5 ACRES | 5.0 ACRES |
| MIN. LOT WIDTH | 200 FT. | 401 FT. |
| FRONT YARD DEPTH | 50 FT. | 52 FT. |
| SIDE YARD - ONE | 50 FT. | 85 FT. |
| SIDE YARD - BOTH | 100 FT. | - |
| REAR YARD DEPTH | 50 FT. | 76 FT. |
| STREET FRONTAGE | 50 FT. | 342 FT. |
| FLOOR AREA RATIO | N/A | - |
| MAX. BLDG. HEIGHT | 50 FT. | 24 FT. |
| DEVELOPMENT COVERAGE | N/A | - |
| COVERAGES: | | |
| BUILDING COVERAGE % OF TOTAL AREA | | 58,150 S.F. 27.0 % |
| PAVEMENT COVERAGE % OF TOTAL AREA | | 98,241 S.F. 45.6 % |
| OPEN SPACE COVERAGE % OF TOTAL AREA | | 54,155 S.F. 27.4 % |
| OFFSTREET PARKING: | REQUIRED | PROVIDED |
| MINI-STORAGE | 10 SPACES | 10 SPACES |

## NOTES

1. ZONING DISTRICT: OLI OFFICE & LIGHT INDUSTRY
2. RECORD OWNER: ROCK TAVERN VILLAGE L.P. 400 BOMAR DRIVE STONY POINT, NEW YORK 10980
3. RECORD APPLICANT: SAFETY STORAGE, LLC P.O. BOX 118 ROUTE 17M MONROE, NEW YORK 10950
4. TOTAL PARCEL AREA: 5.41± ACRES
5. TAX MAP DESIGNATION: PORTION OF SECTION 29, BLOCK 1, LOT 26.221
6. BUILDING AREA:

| | MINI-STORAGE | OFFICE STORAGE: |
|---|---|---|
| No. 1: | 9,400 S.F. | 1,600 S.F. |
| No. 2: | 9,000 S.F. | |
| No. 3: | 9,450 S.F. | |
| No. 4: | 9,450 S.F. | |
| No. 5: | 9,450 S.F. | |
| No. 6: | 6,900 S.F. | |
| No. 7: | 4,800 S.F. | |
| TOTAL: | 58,150 S.F. | 1,600 S.F. |

7. THE LOCATIONS OF EXISTING UTILITIES ARE TO BE CONSIDERED AS APPROX. PRIOR TO EXCAVATION THE CONTRACTOR SHALL VERIFY THEIR LOCATIONS.
8. UNDERGROUND FACILITIES PROTECTIVE ORGANIZATION (U.F.P.O.) SECTION 1149 OF THE PUBLIC SERVICE LAW, ARTICLE 36 OF THE GENERAL BUSINESS LAW AND INDUSTRIAL CODE RULE 53 REQUIRES (2) WORKING DAYS NOTICE BEFORE EXCAVATION, DRILLING OR BLASTING. UNDERGROUND UTILITIES CALL CENTER, TEL. No. 1-800-462-7962. CONTRACTOR SHALL PROTECT AND PRESERVE UTILITY MARKINGS.
9. TOPOGRAPHIC AND UTILITY SURVEY INFORMATION OBTAINED BY GREVAS & HILDRETH, P.C.

TOWN OF NEW WINDSOR PLANNING BOARD STAMP OF APPROVAL

SITE PLAN ~~SUBDIVISION~~ LOT LINE CHANGE
APPROVAL GRANTED BY TOWN OF NEW WINDSOR
AUG 19 1999
PLANNING BOARD CHAIRMAN
OR ASSISTANT SECRETARY

**Shaw Engineering**
Consulting Engineers
744 Broadway Newburgh N.Y. 12550



| ISSUE | REVISION | DATE |
|---|---|---|
| 1 | PLANNING BOARD COMMENTS OF JUNE 9, 1999 | 7-26-1999 |

Drawn By: J.R.J.
Checked By: G.J.S.
Scale: 1" = 30'
Date: 5-6-1999

Drawing: SITE PLAN
Project: NEW FACILITY FOR SAFETY STORAGE, LLC
N.Y.S. ROUTE 207 TOWN OF NEW WINDSOR, N.Y.

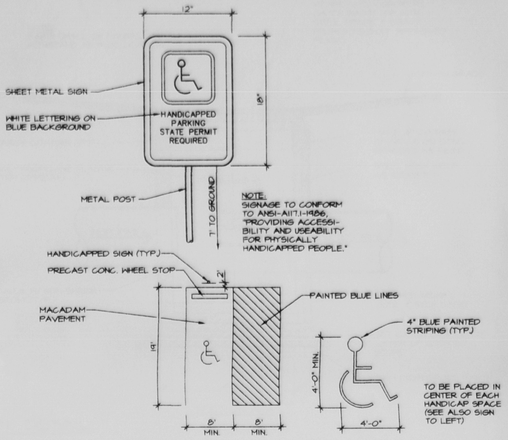
1 OF 8

Project No. 9803

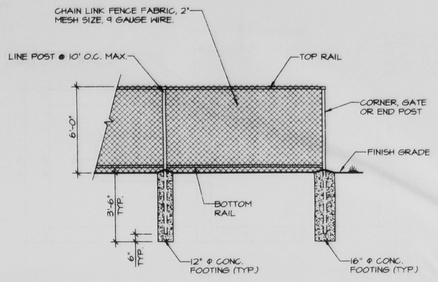
99-12


## LEGEND

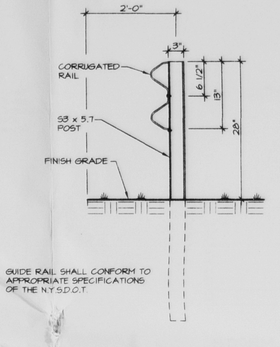
| EXISTING | | NEW | |
|---|---|---|---|
| 502 | 2' CONTOUR | 502 | FINISH GRADING |
| 510 | 10' CONTOUR | | WALL-PAK LIGHTING |
| | BOUNDARY | CB | CATCH BASIN |
| | ADJ. PROPERTY LINE | FES | FLARED END SECTION |
| CB | CATCH BASIN | | MACADAM PAVEMENT |
| ø | UTILITY POLE | 507.5 | SPOT ELEVATION 507.5 |
| | | | CONCRETE BOLLARD |
| | | x x x | 6' HIGH CHAIN LINK FENCE |
| | | | 6' HIGH BLACK ALUMINUM ARCHITECTURAL FENCE |
| | | | GUIDE RAIL |
| | | W | WELL |
| | | | VALLEY IN MACADAM PAVEMENT |
| | | | LIGHT POLE |




## HANDICAPPED SIGN & SPACE DETAIL
NOT TO SCALE

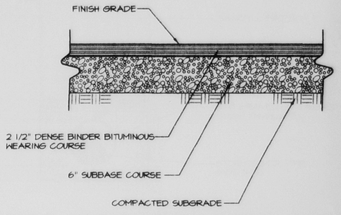



## CHAIN LINK FENCE
NOT TO SCALE

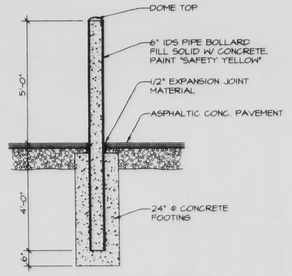



GUIDE RAIL SHALL CONFORM TO APPROPRIATE SPECIFICATIONS OF THE N.Y.S.D.O.T.

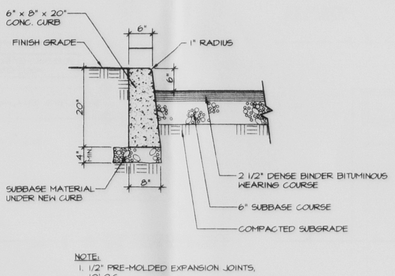
## GUIDE RAIL DETAIL
NOT TO SCALE




## PAVEMENT DETAIL
NOT TO SCALE

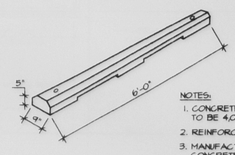



## BOLLARD DETAIL
NOT TO SCALE



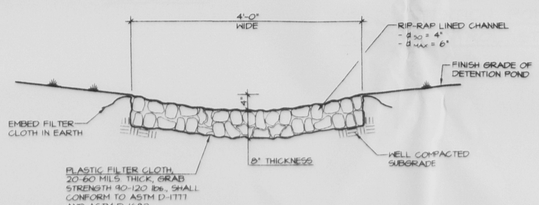

NOTE:
1. 1/2" PRE-MOLDED EXPANSION JOINTS, 10' O.C.

## ON - SITE CURB DETAIL
NOT TO SCALE




NOTES:
1. CONCRETE MINIMUM STRENGTH TO BE 4,000 psi AT 28 DAYS.
2. REINFORCEMENT - #4 REBAR.
3. MANUFACTURED BY WOODARD'S CONCRETE PRODUCTS, INC.

## WHEEL STOP DETAIL
NOT TO SCALE




## LOW FLOW CHANNEL DETAIL
NOT TO SCALE

TOWN OF NEW WINDSOR, PLANNING BOARD STAMP OF APPROVAL

SITE PLAN ☐SUBDIVISION ☐LOT LINE CHANGE
APPROVAL GRANTED BY TOWN OF NEW WINDSOR
AUG 19 1999
PLANNING BOARD ON
BY
ED STENT, SECRETARY

**Shaw Engineering**
Consulting Engineers
744 Broadway Newburgh N.Y. 12550



| ISSUE | REVISION | DATE |
|---|---|---|
| 1 | PLANNING BOARD COMMENTS OF JUNE 9, 1999 | 7-26-1999 |

Drawn By: J.R.J.
Checked By: G.J.S.
Scale: 1" = 30'
Date: 5-6-1999

Drawing: GRADING PLAN & DETAILS

Project: NEW FACILITY FOR SAFETY STORAGE, LLC
N.Y.S. ROUTE 207 TOWN OF NEW WINDSOR, N.Y.

2 OF 8

Project No. 9803

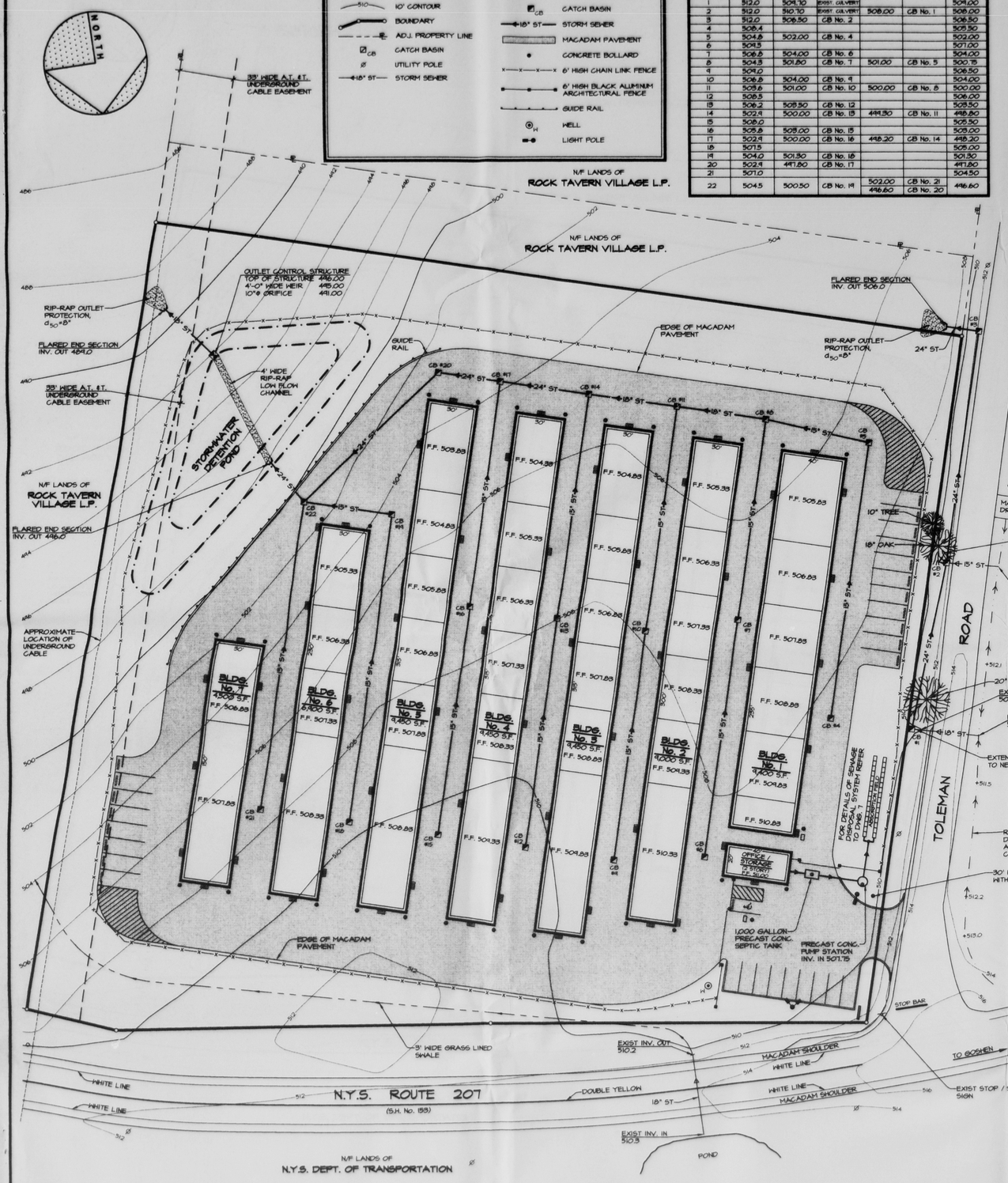
## LEGEND

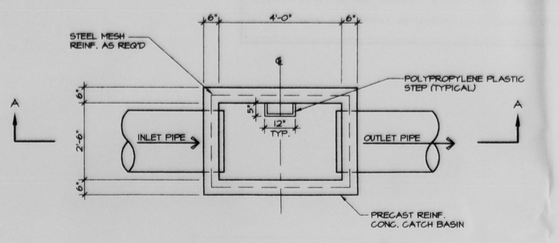
| EXISTING | | NEW | |
|---|---|---|---|
| 502 | 2' CONTOUR | | WALL-PAK LIGHTING |
| 510 | 10' CONTOUR | CB | CATCH BASIN |
| | BOUNDARY | 18" ST | STORM SEWER |
| | ADJ. PROPERTY LINE | | MACADAM PAVEMENT |
| CB | CATCH BASIN | | CONCRETE BOLLARD |
| Ø | UTILITY POLE | x x x | 6' HIGH CHAIN LINK FENCE |
| 18" ST | STORM SEWER | | 6' HIGH BLACK ALUMINUM ARCHITECTURAL FENCE |
| | | | GUIDE RAIL |
| | | H | WELL |
| | | | LIGHT POLE |

NORTH

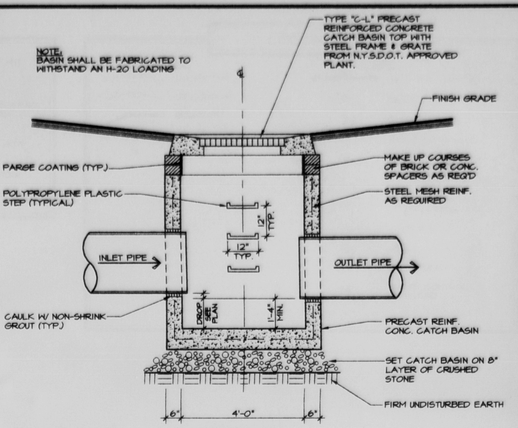
## CATCH BASIN SCHEDULE

| CATCH BASIN No. | RIM ELEV. | INV. IN | FROM | INV. IN | FROM | INV. OUT |
|---|---|---|---|---|---|---|
| 1 | 512.0 | 509.70 | EXIST. CULVERT | | | 509.00 |
| 2 | 512.0 | 510.70 | EXIST. CULVERT | 508.00 | CB No. 1 | 508.00 |
| 3 | 512.0 | 508.50 | CB No. 2 | | | 506.50 |
| 4 | 508.4 | | | | | 505.50 |
| 5 | 504.8 | 502.00 | CB No. 4 | | | 502.00 |
| 6 | 504.3 | | | | | 501.00 |
| 7 | 506.8 | 504.00 | CB No. 6 | | | 504.00 |
| 8 | 504.3 | 501.80 | CB No. 7 | 501.00 | CB No. 5 | 500.75 |
| 9 | 504.0 | | | | | 502.50 |
| 10 | 506.8 | 504.00 | CB No. 9 | | | 504.00 |
| 11 | 508.6 | 501.00 | CB No. 10 | 500.00 | CB No. 8 | 500.00 |
| 12 | 508.5 | | | | | 506.00 |
| 13 | 506.2 | 508.50 | CB No. 12 | | | 508.50 |
| 14 | 502.9 | 500.00 | CB No. 13 | 449.50 | CB No. 11 | 448.50 |
| 15 | 508.0 | | | | | 505.50 |
| 16 | 505.8 | 503.00 | CB No. 15 | | | 503.00 |
| 17 | 502.9 | 500.00 | CB No. 16 | 448.20 | CB No. 14 | 448.20 |
| 18 | 507.5 | | | | | 505.00 |
| 19 | 504.0 | 501.30 | CB No. 18 | | | 501.30 |
| 20 | 502.9 | 449.80 | CB No. 17 | | | 447.80 |
| 21 | 507.0 | | | | | 504.50 |
| 22 | 504.5 | 500.50 | CB No. 19 | 502.00 | CB No. 21 | 446.60 |
| | | | | 446.60 | CB No. 20 | |




PLAN

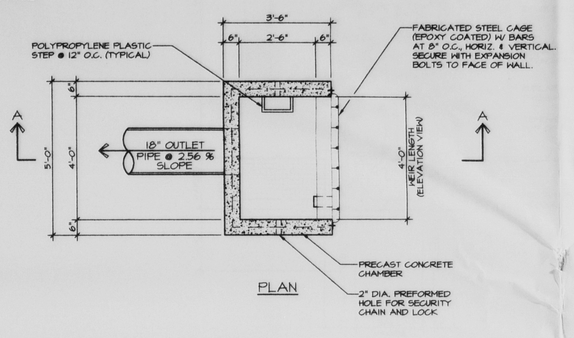



SECTION A-A

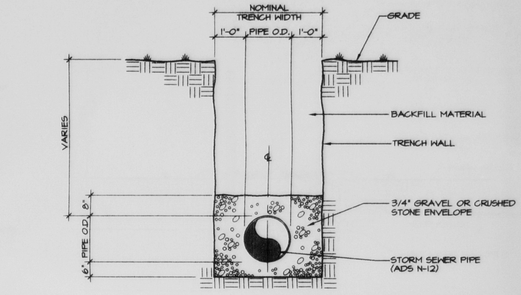
## CATCH BASIN DETAIL

NOT TO SCALE

NOTE: CB #22 SHALL BE 4'-0" x 4'-0" INTERIOR DIMENSIONS WITH 6" WALLS.

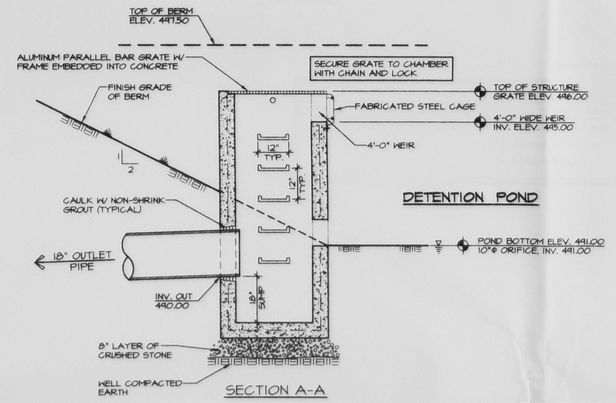



PLAN



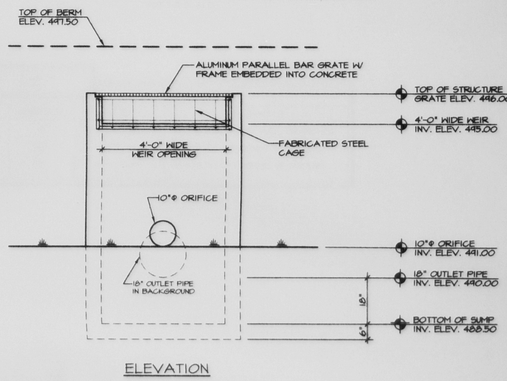

## STORM SEWER TRENCH EXCAVATION

NOT TO SCALE




SECTION A-A

## DETENTION POND




ELEVATION

## DETENTION POND
## OUTLET CONTROL STRUCTURE

NOT TO SCALE

TOWN OF NEW WINDSOR PLANNING BOARD STAMP OF APPROVAL

SITE PLAN SUBDIVISION LOT LINE CHANGE
APPROVAL GRANTED BY TOWN OF NEW WINDSOR
AUG 19 1999
PLANNING BOARD ON
BY: ED STENT, SECRETARY

**Shaw Engineering**
Consulting Engineers
744 Broadway Newburgh N.Y. 12550

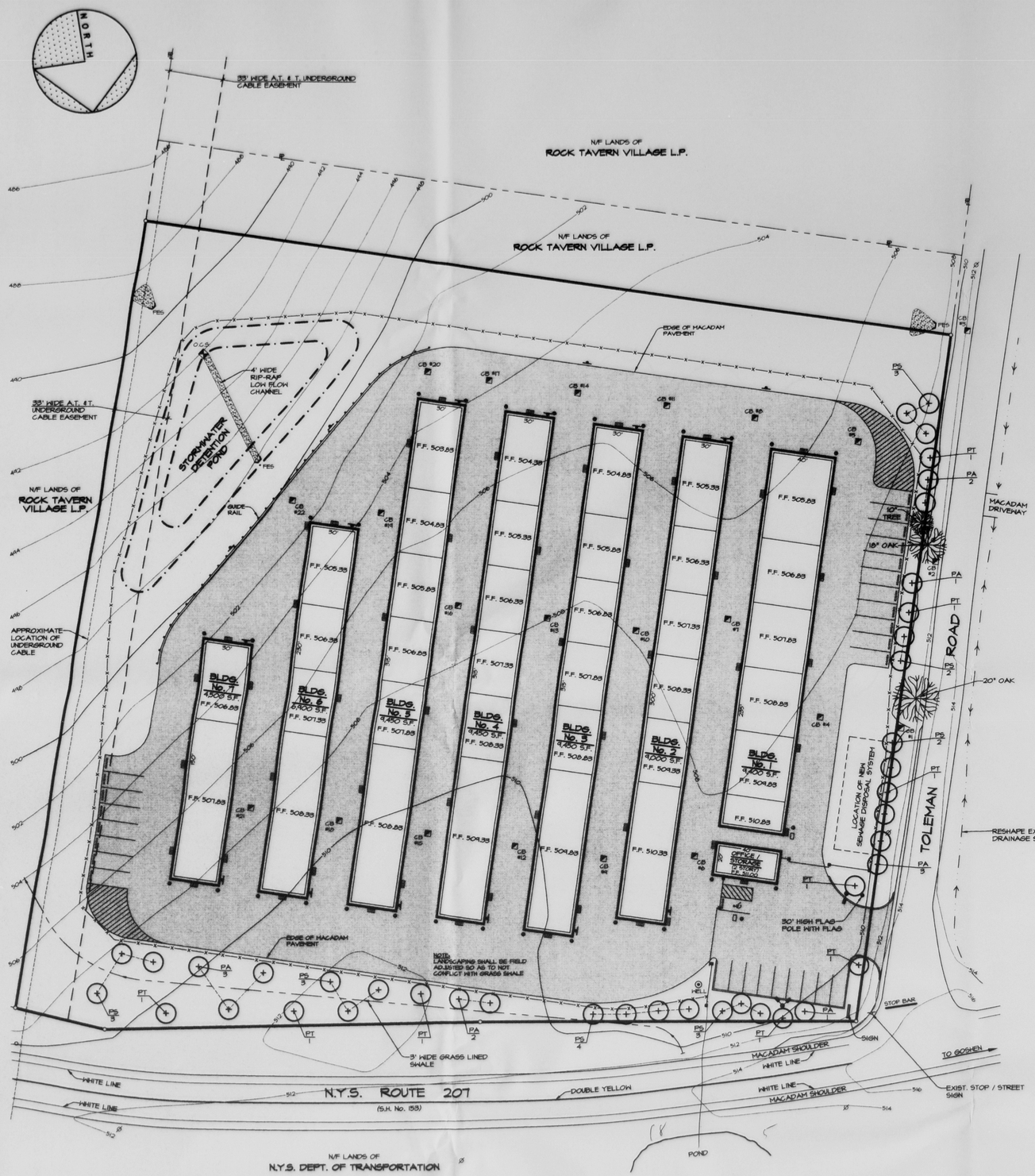


| ISSUE | REVISION | DATE |
|---|---|---|
| 1 | PLANNING BOARD COMMENTS OF JUNE 9, 1999 | 7-26-1999 |

Drawn By: J.R.J.
Checked By: G.J.S.
Scale: 1" = 30'
Date: 5-6-1999

Drawing: UTILITY PLAN & DETAILS
Project: NEW FACILITY FOR SAFETY STORAGE, LLC
N.Y.S. ROUTE 207 TOWN OF NEW WINDSOR, N.Y.

3 OF 8
Project No. 9803

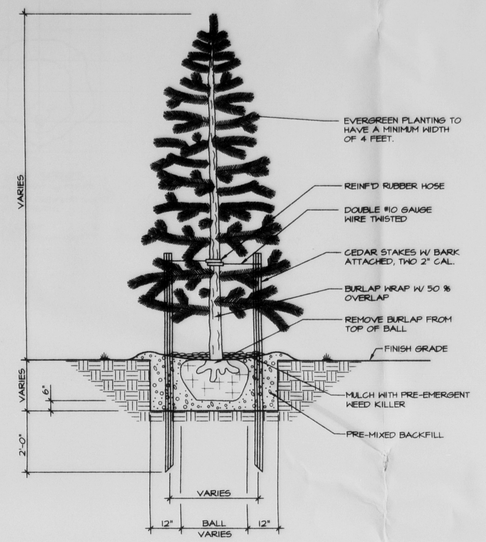



## PLANTING NOTES

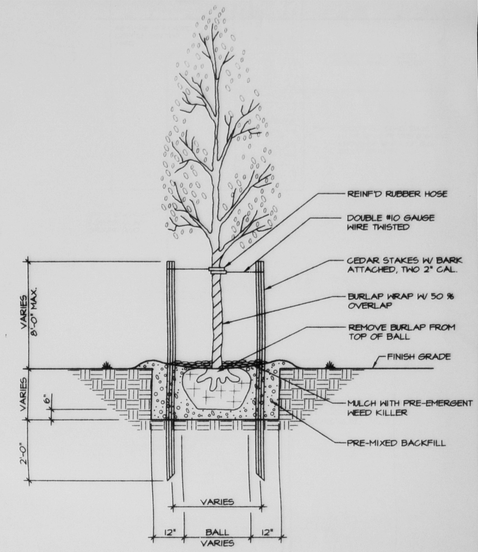
1. TOP SOIL DEPTHS FOR BEDS: 4", FOR LAWN AND GROUND COVER AREAS: 2" MIN.
2. CONTRACTOR SHALL LOCATE ALL UTILITIES PRIOR TO WORK.
3. PRIOR TO PLANTING, CONTRACTOR SHALL FIELD MODIFY LANDSCAPING SO THAT NO TREE IS WITHIN 10 FEET OF A WATER LINE, SANITARY SEWER LINE, OR A STORM DRAINAGE LINE.
4. CONTRACTOR SHALL FIELD MODIFY LANDSCAPING SO AS TO NOT CONFLICT WITH SITE LIGHTING.
5. ALL PLANTS MUST MEET AMERICAN ASSOCIATION OF NURSERYMENS STANDARDS.
6. ALL SEEDED AREAS SHALL BE COVERED WITH STRAW AND WATERED FOR TWO WEEKS.

## LEGEND

| EXISTING | | NEW | |
|---|---|---|---|
| 502 | 2' CONTOUR | | WALL-PAK LIGHTING |
| 510 | 10' CONTOUR | CB | CATCH BASIN |
| | BOUNDARY | FES | FLARED END SECTION |
| | A.D.J. PROPERTY LINE | | MACADAM PAVEMENT |
| Ø | UTILITY POLE | | CONCRETE BOLLARD |
| | | x—x—x | 6' HIGH CHAIN LINK FENCE |
| | | | 6' HIGH BLACK ALUMINUM ARCHITECTURAL FENCE |
| | | | GUIDE RAIL |
| | | H | WELL |
| | | | LIGHT POLE |
| | | O.C.S. | OUTLET CONTROL STRUCTURE |




TREE PLANTING DETAIL
NOT TO SCALE




TREE PLANTING DETAIL
NOT TO SCALE

## PLANT LIST

| SYMBOL | BOTANICAL NAME | COMMON NAME | QUANTITY | SIZE | REMARKS |
|---|---|---|---|---|---|
| PT | PRUNUS "THUNDERCLOUD" | "THUNDERCLOUD" PLUM | 9 | 8' - 10' HT. | B & B FULL HEAD, WELL BRANCHED |
| PS | PINUS STROBUS | EASTERN WHITE PINE | 20 | 6' - 7' HT. | B & B FULL & DENSE TO GROUND |
| PA | PICEA ABIES | NORWAY SPRUCE | 12 | 6' - 7' HT. | B & B FULL & DENSE TO GROUND |

TOWN OF NEW WINDSOR PLANNING BOARD STAMP OF APPROVAL

☐SITE PLAN ☐SUBDIVISION ☐LOT LINE CHANGE
APPROVAL GRANTED BY TOWN OF NEW WINDSOR
AUG 9 1999
PLANNING BOARD CHAIRMAN
BY ED STENT, SECRETARY

**Shaw Engineering**
Consulting Engineers
744 Broadway Newburgh N.Y. 12550

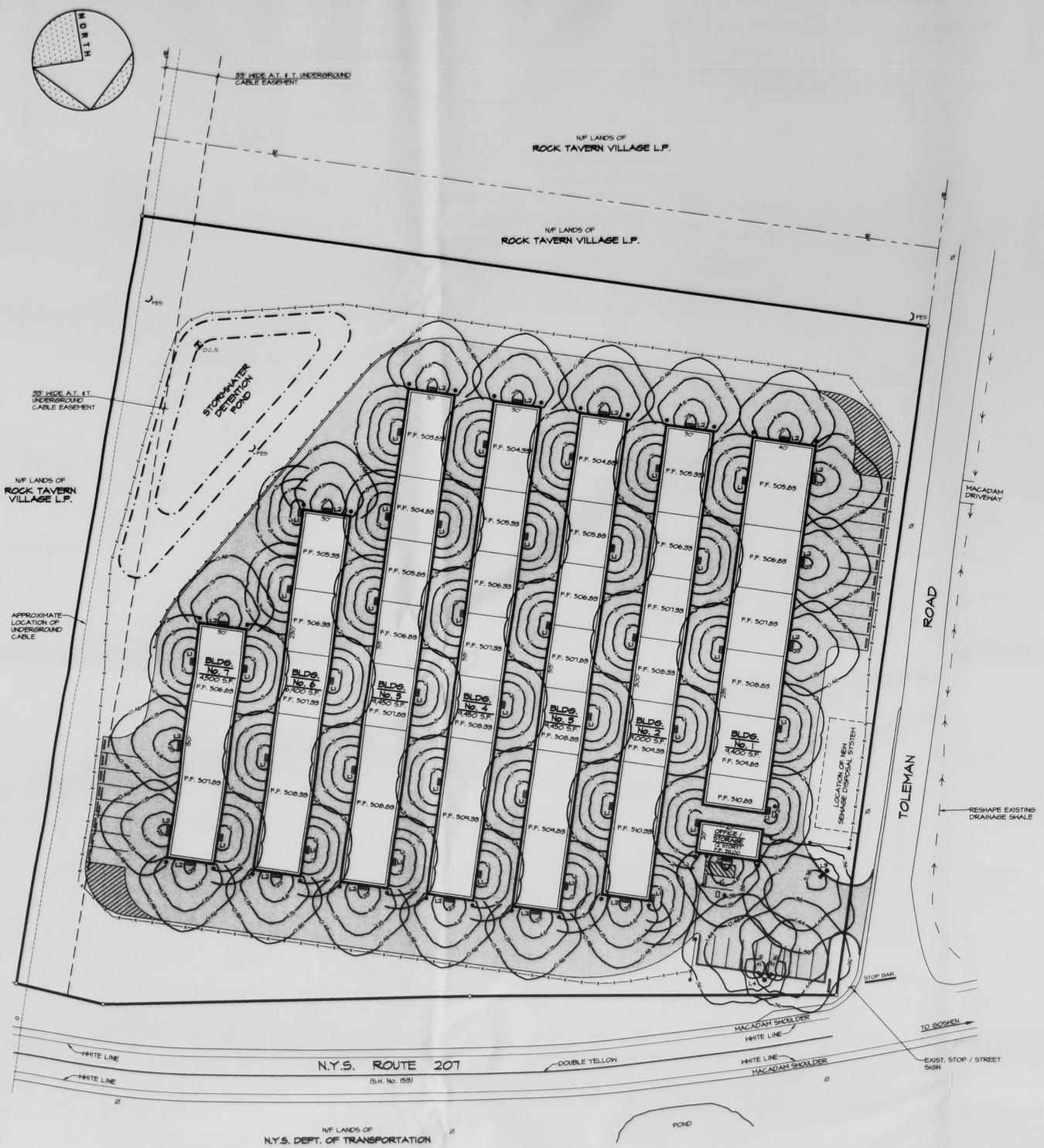


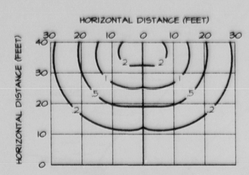
| ISSUE | REVISION | DATE |
|---|---|---|
| 1 | PLANNING BOARD COMMENTS OF JUNE 9, 1999 | 7-26-1999 |

Drawn By: J.R.J.
Checked By: G.J.S.
Scale: 1" = 30'
Date: 5-6-1999

Drawing: LANDSCAPING PLAN
Project: NEW FACILITY FOR SAFETY STORAGE, LLC
N.Y.S. ROUTE 207 TOWN OF NEW WINDSOR, N.Y.

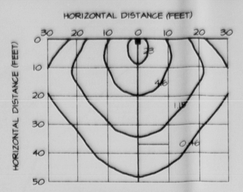
4 OF 8
Project No. 9803



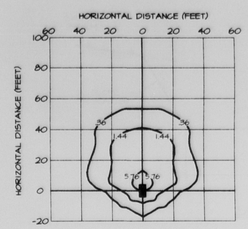

ULS ULTRA-LYTER
WALL MOUNT
70 WATT HIGH PRESSURE SODIUM
10' MOUNTING HEIGHT

ISOLUX CHART - L1
NOT TO SCALE




500 SERIES WALLCUBE
WALL MOUNT
250 WATT HIGH PRESSURE SODIUM
10' MOUNTING HEIGHT

ISOLUX CHART - L2
NOT TO SCALE

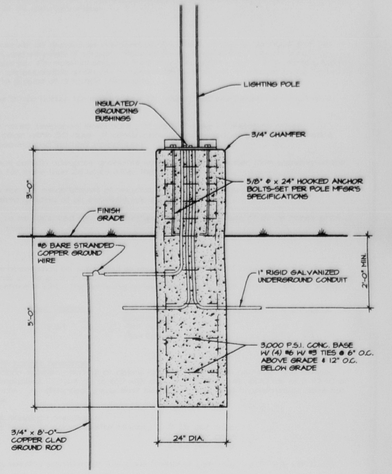



SAR SERIES
AREA / ROADWAY LUMINAIRE
150 WATT HIGH PRESSURE SODIUM
20' MOUNTING HEIGHT

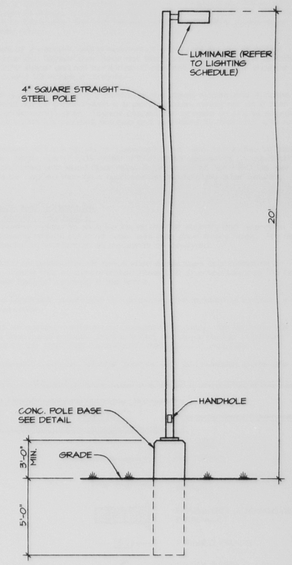
ISOLUX CHART - L3 & L4
NOT TO SCALE

## LIGHTING SCHEDULE

- L1: 70 WATT HIGH PRESSURE SODIUM, EXCELINE, ULS SERIES ULTRA-LYTER, 10' MOUNTING HEIGHT.
- L2: 250 WATT HIGH PRESSURE SODIUM, EXCELINE, 500 SERIES WALLCUBE, 10' MOUNTING HEIGHT.
- L3: 150 WATT HIGH PRESSURE SODIUM, EXCELINE, SAR SERIES, 20' MOUNTING HEIGHT
- L4: (2) 150 WATT HIGH PRESSURE SODIUM, EXCELINE, SAR SERIES, 20' MOUNTING HEIGHT




LIGHT POLE BASE DETAIL
NOT TO SCALE




LIGHT POLE DETAIL
NOT TO SCALE

TOWN OF NEW WINDSOR PLANNING BOARD STAMP OF APPROVAL

SITE PLAN ☐SUBDIVISION ☐LOT LINE CHANGE
APPROVAL GRANTED BY TOWN OF NEW WINDSOR
AUG | 9 1999
PLANNING BOARD CHR.
BY: ED STENT, SECRETARY

**Shaw Engineering**
Consulting Engineers
744 Broadway Newburgh N.Y. 12550



| ISSUE | REVISION | DATE |
|---|---|---|
| 1 | PLANNING BOARD COMMENTS OF JUNE 9, 1999 | 7-26-1999 |

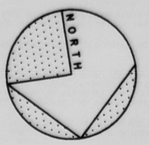
Drawn By: J.R.J.
Checked By: G.J.S.
Scale: 1" = 30'
Date: 5-6-1999

Drawing: LIGHTING PLAN & DETAILS

Project: NEW FACILITY FOR SAFETY STORAGE, LLC
N.Y.S. ROUTE 207 TOWN OF NEW WINDSOR, N.Y.

5 OF 8

Project No. 9803





SECTION

PERSPECTIVE VIEW

## SILT FENCE DETAIL

NOT TO SCALE

CONSTRUCTION SPECIFICATIONS

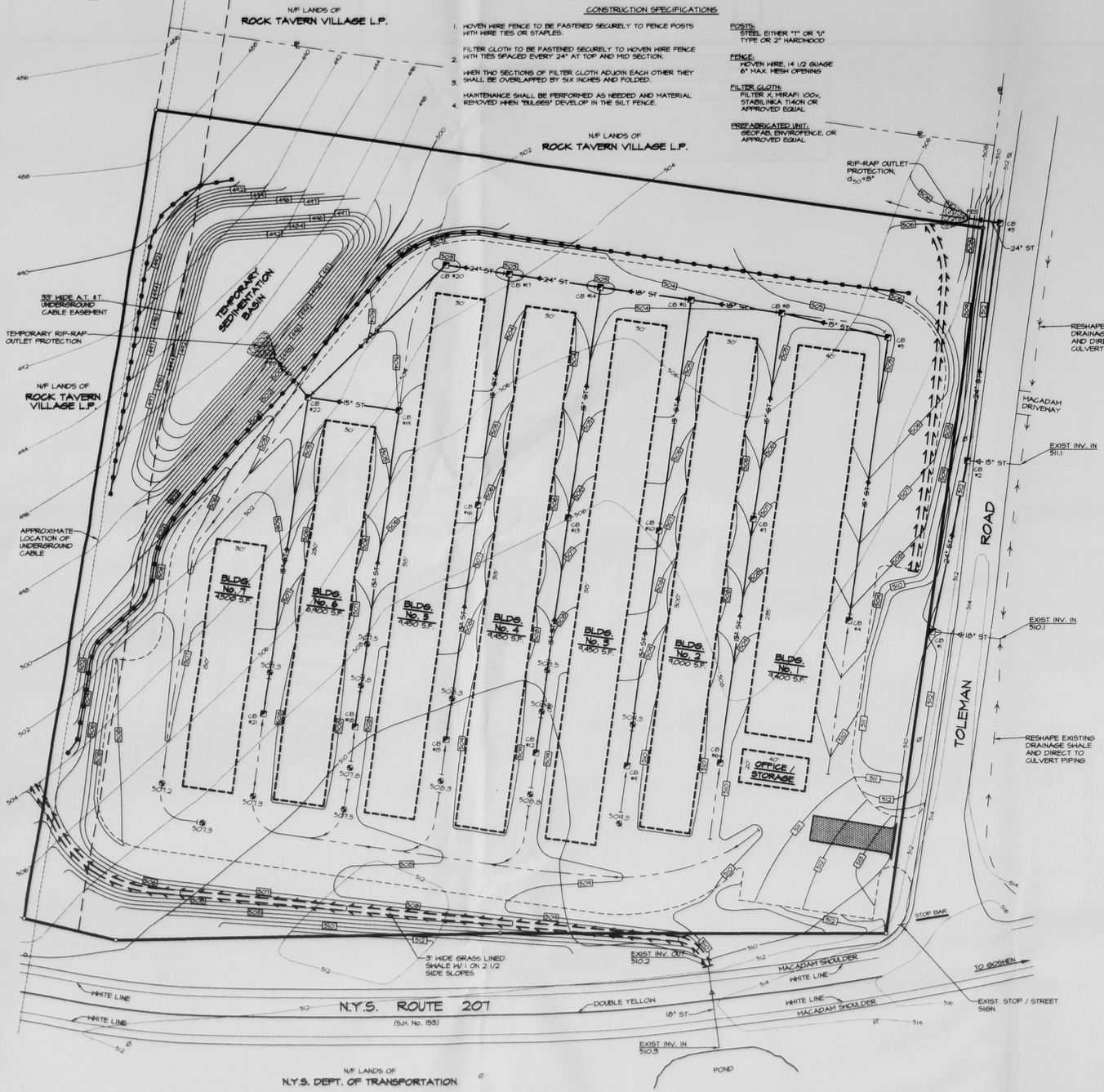
1. HOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
2. FILTER CLOTH TO BE FASTENED SECURELY TO HOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

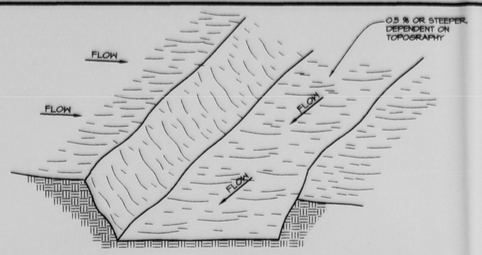
POSTS:
STEEL EITHER "T" OR "U" TYPE OR 2" HARDWOOD

FENCE:
HOVEN WIRE, 14 1/2 GUAGE 6" MAX. MESH OPENING

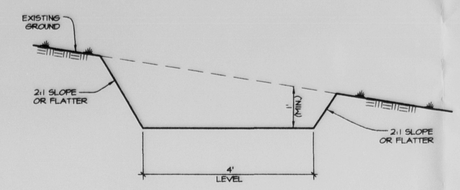
FILTER CLOTH:
FILTER X, MIRAFI 100x, STABLINKA T140N OR APPROVED EQUAL

PREFABRICATED UNIT:
GEOFAB, ENVIROFENCE, OR APPROVED EQUAL




PLAN VIEW




SECTION

## TEMPORARY SWALE DETAIL

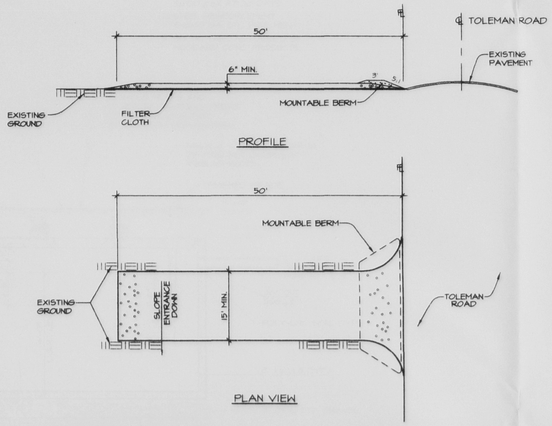
NOT TO SCALE

CONSTRUCTION SPECIFICATIONS

1. ALL TEMPORARY SWALES SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET.
2. DIVERTED RUNOFF FROM DISTURBED AREAS SHALL BE CONVEYED TO A STORM INLET SEDIMENT TRAP.
3. DIVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL OUTLET DIRECTLY INTO AN UNDISTURBED STABILIZED AREA AT NON-EROSIVE VELOCITY.
4. ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE SWALE.
5. THE SWALE SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH WILL IMPEDE NORMAL FLOW.
6. FILLS SHALL BE COMPACTED BY EARTH MOVING EQUIPMENT.
7. ALL EARTH REMOVED AND NOT NEEDED ON CONSTRUCTION SHALL BE PLACED SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE SWALE.
8. STABILIZATION SHALL BE AS PER THE CHART BELOW:

| TYPE OF TREATMENT | CHANNEL GRADE | SWALE A (5 AC. OR LESS) |
|---|---|---|
| 1 | 0.5-5.0 % | SEED AND STRAW MULCH |

9. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.




## STABILIZED CONSTRUCTION ENTRANCE DETAIL

NOT TO SCALE

CONSTRUCTION SPECIFICATIONS

1. STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - FIFTY (50) FEET
3. THICKNESS - SIX (6) INCHES.
4. WIDTH - FIFTEEN (15) FEET, 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.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE DIRECTED TO A SWALE DISCHARGING TO A SEDIMENT TRAPPING DEVICE. PROVIDE A MOUNTABLE BERM WITH 5:1 SLOPES.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADWAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACTED ONTO ROADWAY MUST BE REMOVED IMMEDIATELY.
8. WHEN VEHICLE 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.

## EROSION & SEDIMENT CONTROL MEASURES

Stabilized Construction Entrance
-Temporary gravel construction entrance shall be installed immediately adjacent to the existing existing macadam pavement. During wet weather it may be necessary to wash vehicle tires at this location. The entrance shall be graded off so that runoff will be directed to a catch basin and away from the macadam pavement. All sediment shall be prevented from entering catch basins.

Silt Fence
-Silt fences shall be installed in the locations specified above, around topsoil stockpile areas, and at the base of all disturbed slopes.

Land Grading
-Finish land surfaces will be graded as indicated on the plans. Areas to be filled shall be cleared, grubbed, and stripped of topsoil. Remove trees, vegetation, roots or other objectionable material. Fill material shall be free of brush, rubbish, rocks, logs, stumps, building debris, and other objectionable material. Frozen material shall not be placed in the fill nor shall the fill material be placed on a frozen foundation.

-Cut slopes will be 3:1 or flatter for maintenance by mowing, and roughened for vegetative establishment.

-Unless otherwise noted, temporary seed bare soil within 15 days of exposure unless construction will begin within 30 days. If construction is suspended, or sections completed, areas shall be seeded and mulched immediately.

-Finish grading shall contain adequate gradients so as to prevent water from standing on the surface of lawns for more than 24 hours after the end of a rainfall.

-Topsoil required for the establishment of vegetation will be stockpiled in amount necessary to complete finished grading of all exposed, non-sodded, areas.

-Areas which are to be topsoiled shall be scarified to a minimum depth of three inches prior to placement of topsoil.

Dust Control
-Construction operations shall be scheduled to minimize the amount of area disturbed at one time. Buffer areas of vegetation shall be left where indicated. The site can be sprinkled with water until the surface is wet. The following spray adhesives can be used on mineral soils:

| Material | Water Division | Type of nozzle | Apply Gallons per acre |
|---|---|---|---|
| Acrylic Polymer | 9:1 | Coarse Spray | 300 |
| Latex Emulsion | 12.5:1 | Fine Spray | 235 |
| Resin in water | 4:1 | Fine Spray | 300 |

Temporary And Permanent Seedings
-Seeding preparation includes removal of debris and obstacles such as rocks and stumps, scarify soil if compacted. Adjust pH to 6.0 with lime, and fertilize with 600 lbs of 5-10-10 or equivalent per acre. All disturbed areas shall be temporarily seed if construction does not resume in 15 days.

-Apply permanent seeding consisting of :

| | |
|---|---|
| Empire birdsfoot trefoil or common white clover | 8 lbs per acre |
| Plus tall fescue | 20 lbs per acre |
| Plus Ryegrass | 8 lbs per acre |

-Apply temporary seeding consisting of Ryegrass (annual or perennial) at 30 lbs per acre.

-The optimum time for permanent seeding is in the spring from March 21 through May 20, and in late summer and early fall from August 25 to October 15. Permanent seedings may be made any time of year if properly mulched and adequate moisture is provided. Broadcasting, drilling with cultipack type seeder or hydroseeding are acceptable.

Topsoil/Mulching
-Where vegetation will be established, preserve and apply existing topsoil and friable fine textured subsoils that are stripped during excavation. Complete rough grading and final grading, allowing for depth of topsoil to be added. Scarify all compact, slow permeable, medium and fine textured subsoil areas. In soil areas that are steeper than 5 percent, scarify at approximately right angles to the slope. Remove refuse, woody plant parts, stones over 3 inches in diameter, and other litter.

-Topsoil shall have a minimum of 2 percent, and a maximum of 6 percent by weight of fine textured stable organic material. Topsoil shall have not less than 20 percent fine textured material (passing the No. 200 sieve) and not more than 15 percent clay. Topsoil shall be relatively free of stones over 1 1/2 inches in diameter.

-Topsoil shall be placed at a uniform depth of 2 inches for the steep slopes, and 4 inches for the lawn areas. Topsoil shall not be placed when it is partly frozen, muddy, nor on frozen slopes or over ice, snow, or standing water. Topsoil placed and graded on slopes steeper than 5 percent shall be promptly fertilized, seeded, mulched and stabilized by "tracking" with suitable equipment.

-If soil is compacted or crusted, surface should be loosened to at least two inches by disking or other suitable methods. Straw mulch (small grain) is preferred applied at an application rate of 2 tons per acre, and anchored with wood fiber mulch (hydromulch) at 500-750 lbs. per acre. The wood fiber mulch must be applied through a hydroseeder immediately after mulching.

MAINTENANCE REQUIREMENTS AND SCHEDULES
EROSION AND SEDIMENT CONTROL MEASURES
-All erosion and sediment control measures shall be inspected for stability and operation following every runoff producing rainfall but in no case less than once every week. Any needed repairs shall be made immediately to maintain all measures as designed.

-Sediment shall be removed from behind the silt fence when it becomes approximately 6 inches deep at the fence. Insure that no concentrated flows are directed towards the fence. Replace the silt fence when "bulges" develop in the fence.

-All seeded areas shall be fertilized, re-seeded as necessary, and mulched to maintain a vigorous, dense vegetative cover.

-Sediment spilled, dropped, or washed onto existing macadam roadways must be removed immediately. All sediment shall be prevented from entering the storm drains. Additional aggregate shall be added to the stabilized construction entrances as required.

-Maintain dust control measures through dry weather periods until all disturbed areas are stabilized.

## LEGEND

| EXISTING | | NEW | |
|---|---|---|---|
| 502 | 2' CONTOUR | | SILT FENCE |
| 510 | 10' CONTOUR | | TEMPORARY DIVERSION SWALE |
| | | | STABILIZED CONSTRUCTION ENTRANCE |
| | | 512 | FINISHED GRADE |
| | | CB | CATCH BASIN |
| | | 18" ST | STORM SEWER |

TOWN OF NEW WINDSOR PLANNING BOARD STAMP OF APPROVAL

☐SITE PLAN ☐SUBDIVISION ☐LOT LINE CHANGE
APPROVAL GRANTED BY TOWN OF NEW WINDSOR
AUG 1 9 1999
PLANNING BOARD CHAIRMAN
BY: ED STENT, SECRETARY

**Shaw Engineering**
Consulting Engineers
744 Broadway Newburgh N.Y. 12550



| ISSUE | REVISION | DATE |
|---|---|---|
| 1 | PLANNING BOARD COMMENTS OF JUNE 9, 1999 | 7-26-1999 |

Drawn By: J.R.J.
Checked By: G.J.S.
Scale: 1" = 30'
Date: 5-6-1999

Drawing: EROSION AND SEDIMENT CONTROL PLAN, SPECIFICATIONS & DETAILS

Project: NEW FACILITY FOR SAFETY STORAGE, LLC
N.Y.S. ROUTE 207 TOWN OF NEW WINDSOR, N.Y.

6 OF 8

Project No. 9803

## NOTES

1. NO ROOF, FOOTING OR CELLAR DRAINS SHALL BE CONNECTED TO THE SEWAGE DISPOSAL SYSTEM.
2. UPON INSTALLATION OF THE SEWAGE DISPOSAL SYSTEM, ALL DISTURBED AREAS SHALL BE FINE GRADED, TOPSOILED (5" DEPTH), SEEDED, AND MULCHED.
3. THERE SHALL BE NO REGRADING IN THE AREA OF THE SEWAGE DISPOSAL SYSTEM, AND NO TREES SHALL REMAIN WITHIN 10 FEET OF THE SYSTEM.
4. THE ABSORPTION FIELD SHALL NOT BE RELOCATED FROM THE LOCATION INDICATED ON THIS DRAWING.
5. HEAVY EQUIPMENT SHALL BE KEPT OFF THE AREA OF THE ABSORPTION FIELD EXCEPT FOR THE ACTUAL CONSTRUCTION OF THE FIELD, THERE SHALL BE NO UNNECESSARY MOVEMENT OF CONSTRUCTION EQUIPMENT IN THE AREA OF THE PROPOSED FIELD, BEFORE, DURING AND AFTER CONSTRUCTION.
6. NO WATER SOFTENER, WATER RECHARGE AND BACKWASH WASTES, SHALL DISCHARGE TO THE SEWAGE DISPOSAL SYSTEM, AS THE SYSTEM WAS NOT DESIGNED TO ACCOUNT FOR THEM.

## DEEP TEST PITS

| TEST PIT NUMBER | DEPTH FROM | TO | SOIL DESCRIPTION |
|---|---|---|---|
| TP #1 | 0.0' | 0.4' | TOPSOIL W/ HAY COVER |
| | 0.4' | 2.0' | DARK SANDY LOAM |
| | 2.0' | 5.4' | CLAY W/ SMALL STONES |
| DATE PERFORMED: JULY 1, 1999. | | | |
| TP #2 | 0.0' | 0.5' | TOPSOIL W/ HAY COVER |
| | 0.5' | 2.1' | DARK SANDY LOAM |
| | 2.1' | 5.3' | CLAY W/ SMALL STONES |
| DATE PERFORMED: JULY 1, 1999. | | | |

## LEGEND

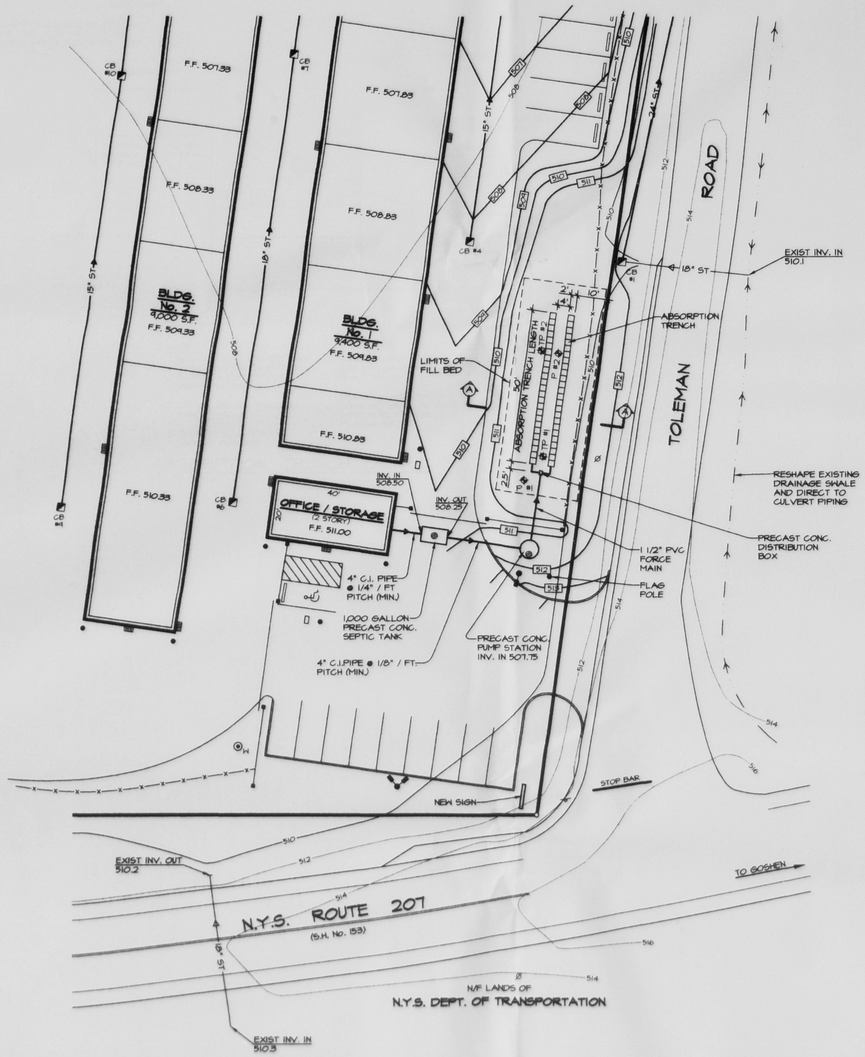
| EXISTING | | NEW | |
|---|---|---|---|
| 502 | 2' CONTOUR | 502 | FINISHED GRADE |
| 510 | 10' CONTOUR | TP #2 | DEEP TEST PIT No. 2 |
| | BOUNDARY | P #2 | PERCOLATION TEST No. 2 |
| | ADJ. PROPERTY LINE | W | WELL |
| CB | CATCH BASIN | CB | CATCH BASIN |
| | UTILITY POLE | 18" ST | STORM SEWER |
| 18" ST | STORM SEWER | | |

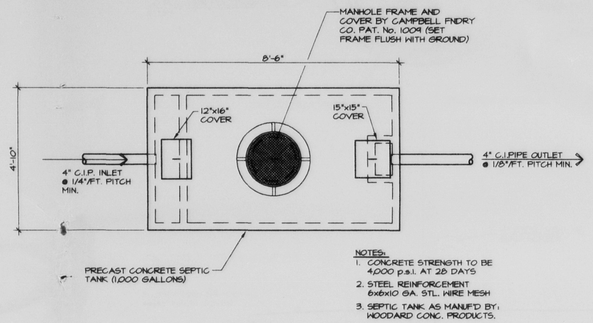
## DESIGN PERCOLATION RATES

| TEST NO. & PERC. RATE | TEST DATE | HOLE DEPTH | DESIGN RATE | PROJECTED FLOW | SEPTIC TANK CAPACITY | LIN. FT. TRENCH REQ'D. | LIN. FT. TRENCH PROV. |
|---|---|---|---|---|---|---|---|
| P 1 14 MIN. | 7-1-1999 | 12" | 21-30 MIN. | 90 GPD | 1,000 GAL. | 75 FT. | 100 FT. |
| P 2 10 MIN. | 7-1-1999 | 12" | | | | | |

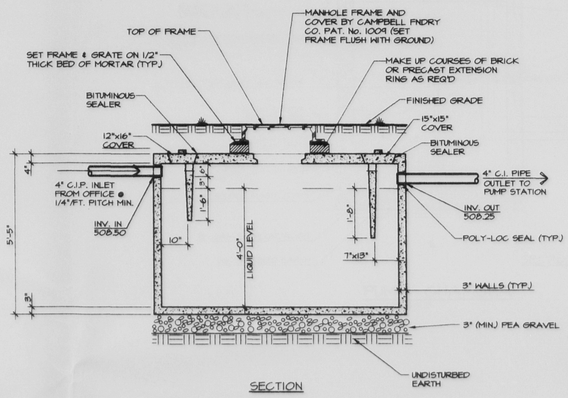
PROJECTED FLOW BASED UPON 6 EMPLOYEES AT 15 GPD PER EMPLOYEE

NORTH



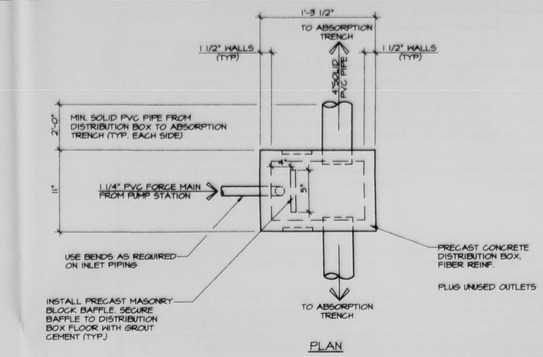




NOTES:
1. CONCRETE STRENGTH TO BE 4,000 p.s.i. AT 28 DAYS
2. STEEL REINFORCEMENT EXBNIO GA. STL. WIRE MESH
3. SEPTIC TANK AS MANUFD BY: WOODARD CONC. PRODUCTS.

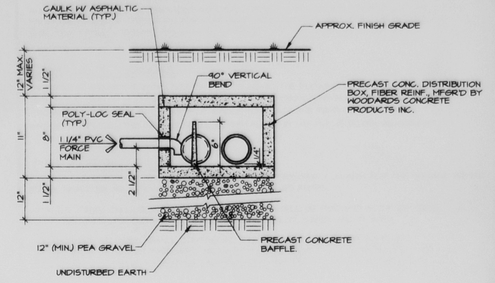



SECTION

## 1,000 GALLON SEPTIC TANK
NOT TO SCALE

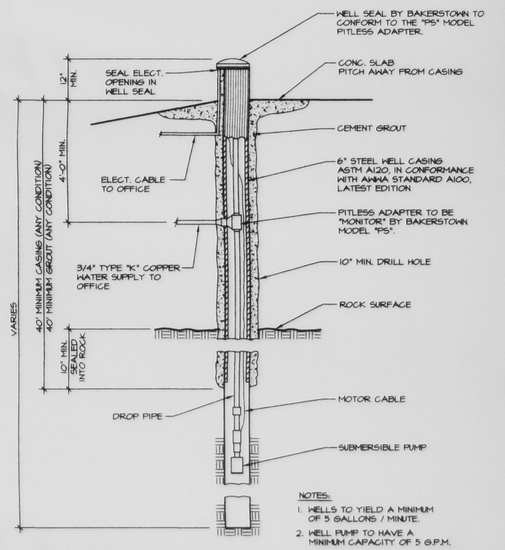



PLAN




SECTION

## DISTRIBUTION BOX DETAIL
NOT TO SCALE




NOTES:
1. WELLS TO YIELD A MINIMUM OF 5 GALLONS / MINUTE.
2. WELL PUMP TO HAVE A MINIMUM CAPACITY OF 5 G.P.M.
3. TEMPORARY OUTER CASING SHALL BE USED IF CAVING IS A PROBLEM.
4. TOP OF CASING TO BE A MIN. OF 2' ABOVE THE HIGHEST FLOOD LEVEL.

## WELL SUPPLY DETAIL
NOT TO SCALE

TOWN OF NEW WINDSOR PLANNING BOARD STAMP OF APPROVAL

☐SITE PLAN ☐SUBDIVISION ☐LOT LINE CHANGE
APPROVAL GRANTED BY TOWN OF NEW WINDSOR
AUG 19 1999
PLANNING BOARD ON
BY: ED STENT SECRETARY


**Shaw Engineering**
Consulting Engineers
744 Broadway Newburgh N.Y. 12550




| ISSUE | REVISION | DATE |
|---|---|---|
| 1 | PLANNING BOARD COMMENTS OF JUNE 9, 1999 | 7-26-1999 |

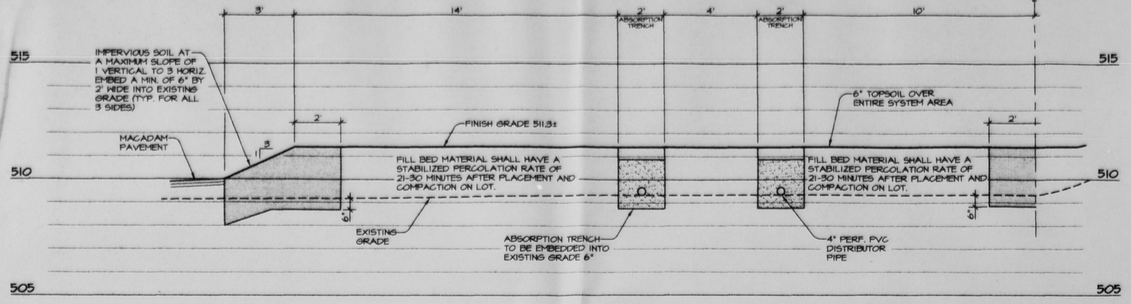
Drawn By: J.R.J.
Checked By: G.J.S.
Scale: 1" =20'
Date: 5-6-1999

Drawing: SEWAGE DISPOSAL PLAN & DETAILS

Project: NEW FACILITY FOR **SAFETY STORAGE, LLC**
N.Y.S. ROUTE 207 TOWN OF NEW WINDSOR, N.Y.

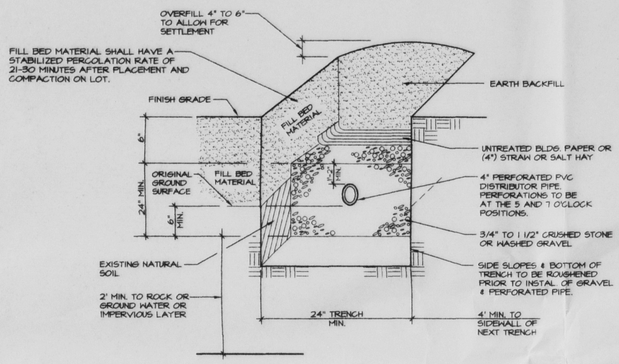
7 OF 8

Project No. 9803




## FILL BED - SECTION A - A

NOT TO SCALE

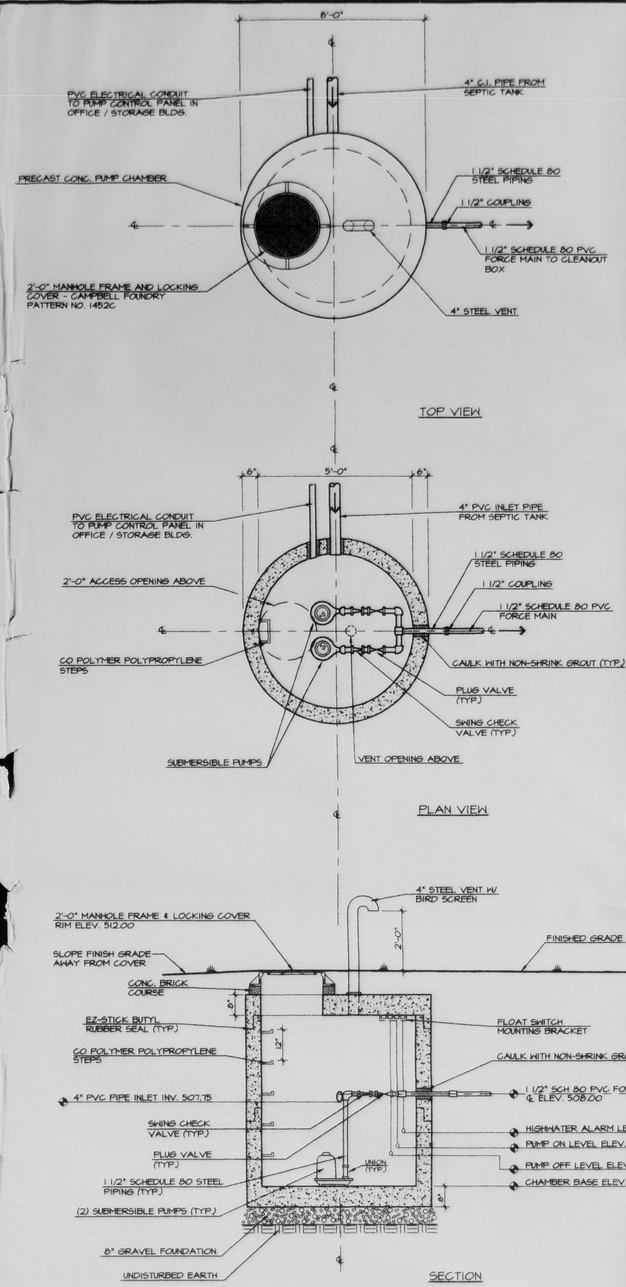



NOTES:

1. BOTH DISTRIBUTOR PIPE AND TRENCH BOTTOM ARE TO BE SLOPED @ 1/16" PER FOOT DOWNHARD (MAX.).
2. DO NOT INSTALL TRENCHES IN WET SOIL.
3. ENDS OF ALL LATERALS MUST BE PLUGGED.
4. MAXIMUM LENGTH OF ABSORPTION TRENCH SHALL BE 60 FEET.
5. SIDES AND BOTTOM OF TRENCHES SHALL BE RAKED IMMEDIATELY PRIOR TO PLACING GRAVEL.

## ABSORPTION TRENCH DETAIL

NOT TO SCALE




## PUMP CHAMBER

NOT TO SCALE

## PUMP STATION SPECIFICATIONS

### PUMP CHAMBER

THE CHAMBER SHALL BE CONSTRUCTED OF REINFORCED PRECAST CONCRETE, SHALL HAVE A MINIMUM STRENGTH OF 4,000 PSI AT 28 DAYS, AND SHALL BE AIR ENTRAINED 5.5% TO 9.5%. REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE CHAMBER SHALL BE FABRICATED TO WITHSTAND AN AASHTO H-20 LOADING WITH A 30% IMPACT IN ADDITION TO THE APPLIED SOIL PRESSURE OF 130 POUNDS PER CUBIC FOOT. THE CHAMBER SHALL BE OF THE DIMENSIONS INDICATED ON THE DRAWINGS AND SHALL BE FABRICATED BY THE FORT MILLER CO. INC..

THE CHAMBER SHALL BE PROVIDED WITH AN 8-INCH THICK FLAT SLAB TOP WITH ACCESS OPENING. GASKET SHALL BE E-Z STIK AS MANUFACTURED BY CONCRETE PRODUCTS SUPPLY COMPANY. ALL CRACKS OR LEAKS SHALL BE REPAIRED. CHAMBER EXTERIOR SHALL BE COATED COATED WITH KOPPER'S "SUPER SERVICE BLACK".

### SUBMERSIBLE PUMPS

INSTALL 2 SUBMERSIBLE EFFLUENT PUMPS, EACH EQUIPPED WITH A 0.4 HP, SUBMERSIBLE ELECTRIC MOTOR. THE PUMP SHALL HAVE A SHUT OFF HEAD OF 24 FEET. THE PUMPS SHALL BE GOULDS MODEL 3871, EP04.

THE PUMPS SHALL OPERATE IN ALTERNATE SEQUENCE. UPON THE LIQUID LEVEL REACHING THE PUMP ON LEVEL, PUMP NO. 1 SHALL BECOME ENERGIZED AND CONTINUE TO RUN UNTIL THE LIQUID LEVEL REACHES THE PUMP OFF LEVEL. THE NEXT PUMPING CYCLE SHALL BE IDENTICAL EXCEPT THAT PUMP NO. 2 SHALL BECOME ENERGIZED, AND PUMP NO. 1 SHALL BE IDLE. BOTH THE IDLE PUMP AND THE ALARM SHALL BE ACTIVATED UPON THE WATER REACHING THE HIGH WATER ALARM LEVEL. THE POWER CABLES SHALL BE PROVIDED WITH SUFFICIENT LENGTH OF CABLE TO REACH THE PUMP CONTROL PANEL WITHOUT A SPLICE.

A NYLON ROPE SHALL BE PROVIDED WITH EACH PUMP TO ALLOW THE REMOVAL OF THE PUMPS FROM THE CHAMBER. PRIOR TO ANY PERSONNEL ENTERING THE CHAMBER, THE WASTEWATER SHALL BE TOTALLY PUMPED FROM THE CHAMBER.

### LIQUID LEVEL SENSORS

PROVIDE 3 MERCURY SWITCH FLOATS, GOULDS A2-3. THE FLOAT BULBS SHALL BE PROVIDED WITH FLOAT SWITCH MOUNTING BRACKET AND JUNCTION BOX. THE FLOAT BULBS SHALL BE PROVIDED WITH SUFFICIENT LENGTH OF CABLE TO REACH THE PUMP CONTROL PANEL WITHOUT A SPLICE. THE CABLES SHALL BE INSTALLED IN THE PVC ELECTRICAL CONDUIT.

### PUMP CONTROL PANEL

FURNISH AND INSTALL A NEW DUPLEX PANEL WITH ALTERNATOR & ALARM FOR THE SEWAGE PUMPS. PANEL SHALL BE A6-1012 AS MANUFACTURED BY GOULDS PUMPS.

CONTROL PANEL ENCLOSURE SHALL BE NEMA 1, AND SHALL BE MOUNTED IN THE BUILDING. THE PANEL SHALL BE COMPLETELY FACTORY ASSEMBLED, WIRED, AND TESTED.

THE FACE OF THE PANEL SHALL CONTAIN INDICATING LIGHTS, SELECTOR SWITCHES, ALARM BELL, AND RESET SWITCHES. PROVIDE A NAMEPLATE FOR THE PANEL AND FOR EACH FUNCTION, DEVICE, INDICATING LIGHT, POSITION SWITCH, AND CIRCUIT BREAKERS.

### PVC FORCE MAIN

FORCE MAIN SHALL BE SCHEDULE 80, PVC PIPE.

TOWN OF NEW WINDSOR PLANNING BOARD STAMP OF APPROVAL

☐SITE PLAN ☐SUBDIVISION ☐LOT LINE CHANGE
APPROVAL GRANTED BY TOWN OF NEW WINDSOR
AUG 19 1999
PLANNING BOARD ON
BY: ED STENT, SECRETARY


**Shaw Engineering**
Consulting Engineers
744 Broadway Newburgh N.Y. 12550




| ISSUE | REVISION | DATE |
|---|---|---|
| 1 | PLANNING BOARD COMMENTS OF JUNE 9, 1999 | 7-26-1999 |

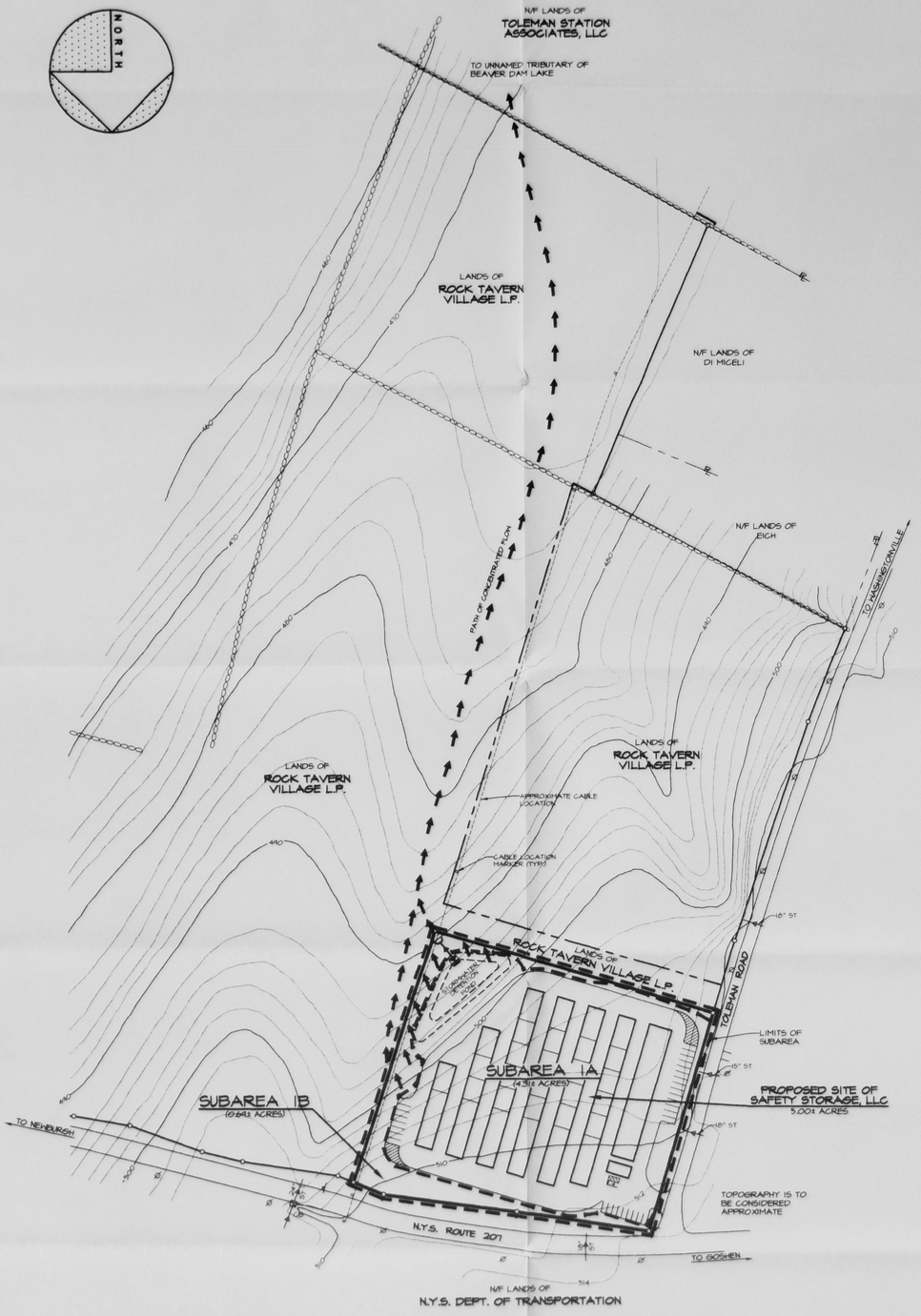
Drawn By: J.R.J.
Checked By: G.J.S.
Scale: AS SHOWN
Date: 5-6-1999

Drawing: SEWAGE DISPOSAL DETAILS

Project: NEW FACILITY FOR SAFETY STORAGE, LLC
N.Y.S. ROUTE 207 TOWN OF NEW WINDSOR, N.Y.

8 OF 8

Project No. 9803



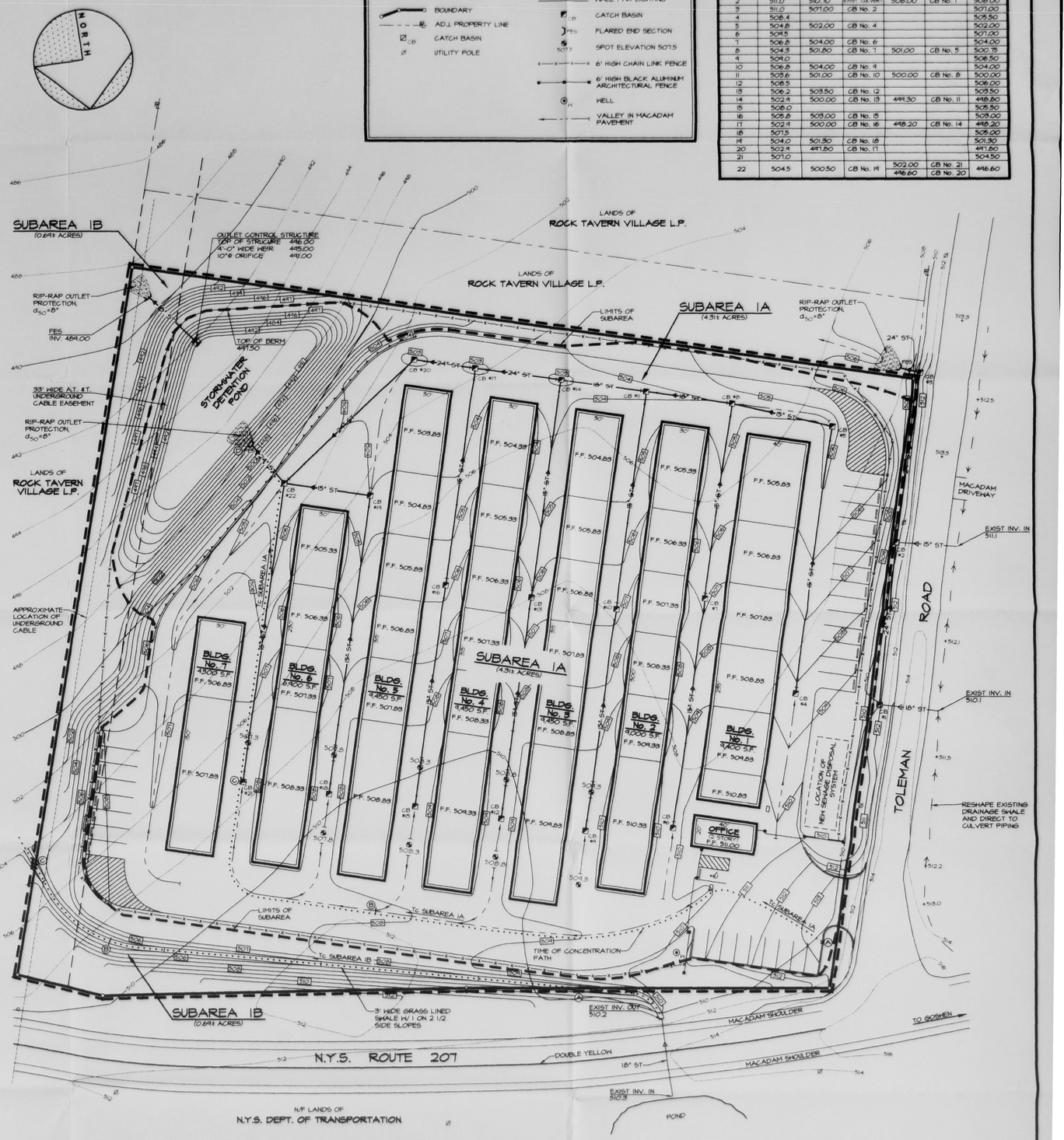

POST - DEVELOPMENT PLAN - OVERALL
SCALE: 1"=100'

## LEGEND

| EXISTING | | NEW | |
|---|---|---|---|
| 502 | 2' CONTOUR | 502 | FINISH GRADING |
| 510 | 10' CONTOUR | | WALL-PAK LIGHTING |
| | BOUNDARY | CB | CATCH BASIN |
| | ADJ. PROPERTY LINE | FES | FLARED END SECTION |
| CB | CATCH BASIN | 507.5 | SPOT ELEVATION 507.5 |
| Ø | UTILITY POLE | x x x | 6' HIGH CHAIN LINK FENCE |
| | | | 6' HIGH BLACK ALUMINUM ARCHITECTURAL FENCE |
| | | W | WELL |
| | | | VALLEY IN MACADAM PAVEMENT |

## CATCH BASIN SCHEDULE

| CATCH BASIN No. | RIM ELEV. | INV. IN | FROM | INV. IN | FROM | INV. OUT |
|---|---|---|---|---|---|---|
| 1 | 512.0 | 509.70 | EXIST. CULVERT | | | 509.00 |
| 2 | 511.0 | 510.70 | EXIST. CULVERT | 508.00 | CB No. 1 | 508.00 |
| 3 | 511.0 | 507.00 | CB No. 2 | | | 507.00 |
| 4 | 508.4 | | | | | 505.50 |
| 5 | 504.8 | 502.00 | CB No. 4 | | | 502.00 |
| 6 | 507.5 | | | | | 507.00 |
| 7 | 506.8 | 504.00 | CB No. 6 | | | 504.00 |
| 8 | 504.3 | 501.80 | CB No. 7 | 501.00 | CB No. 5 | 500.75 |
| 9 | 509.0 | | | | | 506.50 |
| 10 | 506.8 | 504.00 | CB No. 9 | | | 504.00 |
| 11 | 508.6 | 501.00 | CB No. 10 | 500.00 | CB No. 8 | 500.00 |
| 12 | 508.5 | | | | | 506.00 |
| 13 | 506.2 | 503.50 | CB No. 12 | | | 503.50 |
| 14 | 502.4 | 500.00 | CB No. 13 | 499.30 | CB No. 11 | 498.80 |
| 15 | 506.0 | | | | | 505.50 |
| 16 | 505.8 | 503.00 | CB No. 15 | | | 503.00 |
| 17 | 502.4 | 500.00 | CB No. 16 | 498.20 | CB No. 14 | 498.20 |
| 18 | 507.5 | | | | | 505.00 |
| 19 | 504.0 | 501.80 | CB No. 18 | | | 501.80 |
| 20 | 502.4 | 499.80 | CB No. 17 | | | 499.80 |
| 21 | 507.0 | | | | | 504.50 |
| 22 | 504.5 | 500.50 | CB No. 19 | 502.00 | CB No. 21 | 498.60 |
| | | | | 498.60 | CB No. 20 | |




POST - DEVELOPMENT PLAN - SITE
SCALE: 1"=30'


**Shaw Engineering**
Consulting Engineers
744 Broadway Newburgh N.Y. 12550




| ISSUE | REVISION | DATE |
|---|---|---|

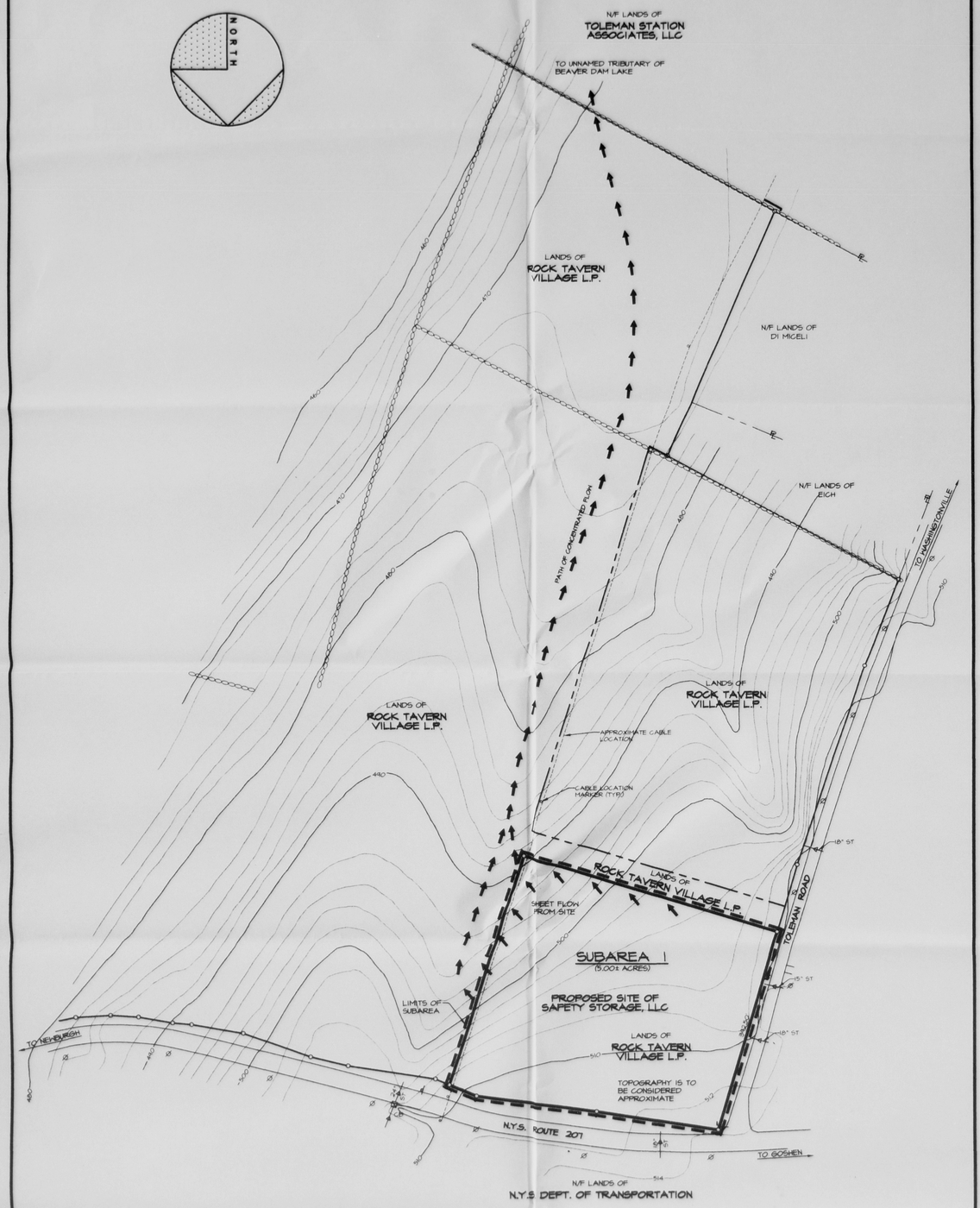
Drawn By: J.R.J.
Checked By: G.J.S.
Scale: AS SHOWN
Date: 6-29-1999

Drawing: POST - DEVELOPEMENT DRAINAGE PLAN

Project: NEW FACILITY FOR SAFETY STORAGE, LLC
N.Y.S. ROUTE 207 TOWN OF NEW WINDSOR, N.Y.

2 OF 2

Project No. 9803




PRE - DEVELOPMENT PLAN - OVERALL
SCALE: 1"=100'


PRE - DEVELOPMENT PLAN - SITE
SCALE: 1"=30'

**Shaw Engineering**
Consulting Engineers
744 Broadway Newburgh N.Y. 12550



| ISSUE | REVISION | DATE |
|---|---|---|

Drawn By: J.R.J.
Checked By: G.J.S.
Scale: AS SHOWN
Date: 6-29-1999

Drawing: PRE - DEVELOPEMENT DRAINAGE PLAN

Project: NEW FACILITY FOR SAFETY STORAGE, LLC
N.Y.S. ROUTE 207 TOWN OF NEW WINDSOR, N.Y.

1 OF 2

Project No. 9803