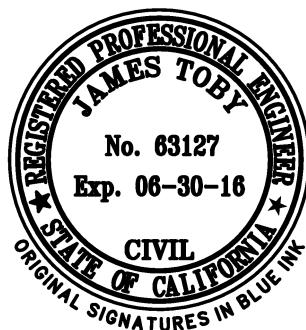


## Hydrology Study

Ascension Heights Subdivision  
Ascension Drive at Bel Aire Road  
San Mateo, California  
(Unincorporated)

Prepared for San Mateo Real Estate & Construction

March 9, 2010  
Rev. 1 11-8-2011  
Rev. 2 6-20-2012  
Rev. 3 11-3-2014  
Lea & Braze Job No. 2010135



June 20, 2012

Dennis Thomas  
San Mateo Real Estate & Construction  
1777 Borel Place  
San Mateo, CA 94402

Subject: **Hydrology Study**  
**Ascension Heights Subdivision, San Mateo (Unincorporated)**  
**Lea & Braze Job No: 2010135**

Dear Dennis:

It is my pleasure to present to you the following hydrology study for an on-site retention system. This study is a detailed analysis of the proposed storm drain retention system that is planned for this project. This report presents our analysis and conclusions on the design of a retention system capable of containing and treating on-site post-development flows and releasing flows at pre-development rates.

The intent of this study is to demonstrate the adequacy of the system to fulfill San Mateo County's C.3 storm water quality requirements for on-site retention and treatment. The purpose of this system is to release the flows into the County storm drain system at or below pre-development rates. The treatment portion of the C.3 requirements will be fulfilled with CDS stormwater hydrodynamic separators and grassy swales. Please feel free to call at any time should you have any questions.

Very truly yours,

Jim Toby, P.E., P.L.S.  
Project Manager

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## INTRODUCTION

Ascension Heights Subdivision is a new 19 lot subdivision on a moderately steep slope in San Mateo (Unincorporated). The project is surrounded on two sides by developed streets with curb, gutter and sidewalk and is serviced by a traditional storm drain system. The current storm drain system appears to have been installed in the late 1950's when the current subdivision was constructed. The system starts in various locations throughout the neighborhood. All systems then drain into the main line, which follows Ascension Drive from the intersection of Ascension Drive and Bel Aire Road and then flows downhill to a drop inlet at the intersection of Ascension Drive and Polhemus Road. At this point the runoff flows across Polhemus Road and outfalls into Polhemus Creek.

The proposed project includes new private streets with grades up to 20%. Runoff is generally directed to an on-site storm drain system. Each individual lot of this project will have its own bio-retention stormwater treatment area and stormwater retention system which will treat and retain runoff from each lot. four additional bio-retention stormwater treatment areas are proposed to treat runoff from the new streets.

## DRAINAGE NARRATIVE

The project has been designed with several permanent "Best Management Practice" (BMP's) for long term treatment of the runoff. Each lot will have its own individual bio-retention stormwater treatment area meeting the requirements of provision C.3, and its own individual stormwater retention system. Runoff from the new roadways will be similarly treated with the use of bio-retention areas.

The premise for the design is grade the site to allow runoff from the lots to flow through the bio-retention treatment area prior to entering the stormwater retention system. Once the runoff leaves the individual retention system, it then enters the subdivision main storm drain system and will be directed to the existing off-site storm drain system.

The sizing of the treatment areas and retention systems was determined by assuming that each lot will be built out to the full extent of the zoning code which states that the maximum hardscape area is 40% of each lot.

C.3 bio-retention sizing for each lot, and the new streets, is calculated using the uniform intensity approach as provided for in the San Mateo Countywide Water Pollution Prevention Program C.3 Stormwater Technical Guidance Handbook by providing a

treatment area with no less than 4% of the impervious area to be treated by the bio-retention area.

. The stormwater retention pipe size and length for each lot are specified in the enclosed calculations. The pipe size and length are specified in the enclosed calculations. Lots 1-10, and 12-19 will have 3-24" diameter x 30' long retention pipes. Lot 11 will have 3-24" diameter x 40' long retention pipes. This system will retain stormwater runoff in each lot prior to entering the storm drain system. Then, the runoff will be collected in a common main and conveyed to the adjacent existing storm drain system in either Ascension Drive or Bel Aire Road.

Please note that the bio-retention stormwater treatment areas and retention systems need to have a regular maintenance schedule to perform properly. It is anticipated that any CC&Rs will require a maintenance agreement. It is recommended that a maintenance agreement be made part of any conditions of approval for the tentative map.

The goal of this design is to treat and retain the runoff from the site and release it at predevelopment rates. Our design philosophy is to only have retention on individual lots and not retain the roadway runoff. (We will however treat the roadway runoff in bio-retention areas before it is released off the site.) Therefore, each lot retention system has been oversized in order to compensate for the runoff from the roadway. The total predevelopment runoff from the entire project was 12.42 cfs. The total post development runoff including the roadway was determined to be 16.81 cfs. The net flow rate difference, which is also the amount of runoff that we are required to retain on-site, is 4.39 cfs. The proposed system of oversized retention pipes on each lot can retain a maximum of 4.48 cfs total. Therefore, the system can retain and meter release the flows below the predevelopment rate of 12.42 cfs. The calculations within this report demonstrate that each lot has the ability to retain enough runoff such that collectively, all 19 lots aid in releasing runoff at a predevelopment rate to compensate for all new impervious surfaces resulting from the new private streets. Retention is thereby provided for the runoff resulting from the streets.

## **NPDES C.3 COMPLIANCE**

Two changes occur over the course of this development. First, natural pervious ground cover is converted to impervious areas such as rooftops and roads. Natural soil acts as an absorbent for rainwater and also removes pollutants through purification and filtration. Impervious areas can neither absorb rainwater nor remove pollutants. Due to this increase of impervious area, increase flows and volumes of stormwater will be released from the development which may adversely impact environmentally sensitive areas. Secondly, this development can create new pollution such as oils and trash from the roadway. As rain becomes runoff, it will carry the untreated pollutants over the

impervious area to a storm drain system which leads to a body of water. As a result, the goal of the NPDES Provision C.3 is to release the stormwater at pre-development rates and treat the runoff prior to it leaving the site.

In the Ascension Heights Subdivision, great care has been taken to comply with the NPDES Provision C.3. For design and calculation purposes only, each residential lot is assumed to have the maximum of 40% impervious surface area, which leaves 60% of each lot as pervious ground for filtration purposes. Each residential lot will treat runoff from that lot using bio-retention, and store and store the runoff in a series of large diameter retention pipes to meter the stormwater at pre-development rates. Each retention system will be reevaluated for adequacy at the time of construction.

Thus, we are proposing to release runoff at pre-development rates and treat all runoff prior to it leaving the project and entering the County storm drain system.

## **ASSUMPTIONS AND METHODOLOGY**

This section includes data used in calculating the pre-development and post-development runoff volumes, and in calculating the capacity of the existing storm drainage system.

### **References:**

- Topographic Survey by Lea & Braze Engineering, Inc.
- San Mateo County Rainfall Runoff Data Map
- HydroCAD 9.10 UNIT HYDROGRAPH Definitions Copyright (c) 2010 Applied Microcomputer Systems

### **Project Information:**

Project Location: Ascension Drive at Bel Aire Road  
San Mateo, California (Unincorporated)  
APN: 041-111-020, 130, 160, 270, 280, 320, 360

### **Hydrology Information:**

Storm Interval: 10 Year Return, 10 min. rainfall intensity  
Rainfall Intensity (I): 2.21 in/hour (Per San Mateo County Rainfall  
Runoff Data Map) Initial Intensity (10 Minutes)

In performing the hydrological calculations, the Rational Method ( $Q=C*I*A$ ) was used, as specified in the “San Mateo County, Guidelines for Drainage Review”. A 10-year storm event interval was used in the calculations. Per instructions in the guideline

and confirmation with Pete Bentley, engineer with the County, the project is outside of any floodplain.

The size, slope, material type and location of the existing system was done in combination with a field survey which located and verified “As-built” conditions of the system and the original improvement plans<sup>1</sup> for the system.

The method used for determining “C” values for areas that include the large areas of undeveloped land that comprise the parcel was determined by a weighted average method of calculating the percentage of each type of surface, whether residential, asphalt streets or open space. This was computed automatically for each of the areas in HydroCAD.

The Time of Concentration (Tc) was determined by assuming an initial Tc at the uppermost inlet of ten minutes. Starting with the initial Tc and adding the pipe flow time, we then computed the actual Tc at each structure. Since multiple storm drain systems connected to the main system, the overall area and the longest Tc value was used for each structure. Thus some structures jump dramatically in time from the upstream inlet because the runoff took longer to get to this inlet via the branch system that connected to it.

The values for the frictional coefficient, “n” were determined by both manufacturers specifications for the new Corrugated HDPE smooth wall pipe and a good condition for the existing reinforced concrete pipe.

Pipe	“n”
HANCOR Hi-Q <sup>®</sup> PIPE <sup>2</sup>	0.011
Reinforced Concrete Pipe (good condition) <sup>3</sup>	0.013

Hydraulic information was also omitted in this report. Since the slope of the majority of the pipes is in excess of 10% and the new and existing systems are located in a very steep environment, there is negligible chance of having any hydraulic problems. In most instances the hydraulic grade line will simply be the actual water level of the runoff in the pipe section itself. Pete Bentley, engineer for the County of San Mateo, agreed and said that the County would not require any hydraulic calculations.

## **RESULTS/RECOMMENDATIONS**

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<sup>1</sup> Improvement Plans – Enchanted Hills Unit No. 2, dated November 1959.

<sup>2</sup> HANCOR Hi-Q<sup>®</sup> PIPE SPECIFICATION, <http://www.hancor.com/product/hiqspecs.html>

<sup>3</sup> Drainage Manual, County of Santa Clara, Department of Public Works.

Detailed hydrology calculations for both the existing and proposed systems are shown in Exhibit "A". The calculations take into account all the information shown in the references sheet, the assumptions and methodology section of this report and good engineering judgment.

## **EXISTING SYSTEM**

The results of the calculations shown in Exhibit "A.1" show that the existing system is able to handle runoff with two pipe run exceptions. Pipe P-6 as shown on the existing hydrology base map is a 15" RCP sloped at 2%. This is primarily due to its flat slope. The outfall pipe, P-12 that crosses Polhemus Road is also over capacity. This is a 30" RCP sloped at 1.3%. This too has capacity problems due to its flat slope. All other pipes exceed the capacity requirements.

## **PROPOSED SYSTEM**

The proposed system is specifically designed to handle a 10 year event. As the calculations shown on "Exhibit A.2" show both Line "N" and Line "S" have been designed to fully handle any anticipated runoff caused by a 10 year event.

## **HOW THE PROPOSED SYSTEM WILL IMPACT THE EXISTING SYSTEM**

The proposed design will have little impact on the existing system. Since the proposed system has a great deal of capacity to it and a long time of concentration, the runoff will be contained in the pipe for some time before it has a chance to severely impact the existing system. The actual system flow is increased with the additional impervious surfaces, however the majority of the pipes in the system are able to handle the additional runoff with no adverse effects. As with the existing system, however, the added runoff has an adverse effect on the same two pipes that posed problems on the existing system.

Should the rainfall from a severe storm exceed that of a 10-year event, or the lines or inlets get clogged, the water does have an overland release via the public streets. Due to the extreme slope of the existing streets, any runoff that is not intercepted by the existing storm drain system will simply drain down Ascension and flow over Polhemus Road and into the creek. Thus it is anticipated that none of the existing houses or neighboring hillsides in the neighborhood would be affected by any flooding as a result of additional runoff imposed by this development. The proposed on-site system does have some low spots to it in the new public street that would prevent overland release via the streets. In this case the pipes have been intentionally oversized to handle as much capacity as possible, even in the event of some blockage.

The analysis incorporated in this report has shown that the existing system can handle the anticipated additional runoff from the proposed development, except for two specific pipes. It is recommended that these pipes be redesigned and upsized to increase their capacity, both for the existing condition and the proposed development.

In the case of pipe P-C7, in which a 15" RCP flowing at 2.0% is crossing Ascension Drive at Enchanted Way, we recommend a new 21" RCP replace the existing pipe. Since the upstream and downstream pipe are of adequate size, it is more reasonable to simply replace the pipe at the same invert locations as is currently in place.

In the case of pipe P-C13, in which a 30" RCP flows at 1.3%, it is feasible to both increase the size of the pipe as well as increase the slope. The upstream invert of this outgoing pipe is several feet lower than the incoming pipe invert, thus the invert can be raised and not affect the upstream pipe. We recommend replacing the existing 30" RCP with a 36" RCP sloped at 2%.

In both cases, the recommendations will allow the entire system to handle the design storm event with a factor of safety built into it. The calculations for the above recommendations are shown in Exhibit A.2.

Using HydroCAD software, we were able to preliminarily size retention systems for each of the proposed lots. The retention systems were oversized to account for the extra runoff contributed by the new roadway, since logically retention specifically for the roadway would very difficult to design and locate on the steep site. The designed retention systems achieve the desired goal of keeping the post-construction runoff rates at or below the pre-construction runoff rates.

Lots 1, 6 – Retention System:

Based on our calculations assuming a 40% impervious surface build out, pre-construction flow is 0.20 cfs. The post-construction flow is 0.37 cfs. The net increase due to the construction is 0.17 cfs. The proposed detention system retains and meters release of 0.11 cfs for a 10 year storm. This proposed storm study is for a 10 minute time of concentration. The proposed retention system consists of (3) 24" diameter x 30' long solid wall HDPE pipes. The primary outlet pipe is a 2" PVC with an 8" secondary emergency overflow pipe. The secondary outlet will not be used for drainage but would be utilized only in an emergency situation. The system slows down the incoming flow and meters the outflow over a 1 (or more) hour time period. This amount of runoff will be held in the retention pipes.

Lots 2, 7 – Retention System:

Based on our calculations assuming a 40% impervious surface build out, pre-construction flow is 0.18 cfs. The post-construction flow is 0.33 cfs. The net increase due to the construction is 0.15 cfs. The proposed detention system retains and meters release of 0.10 cfs for a 10 year storm. This proposed storm study is for a 10 minute time of concentration. The proposed retention system consists of (3) 24" diameter x 30' long solid wall HDPE pipes. The primary outlet pipe is a 2" PVC with an 8" secondary emergency overflow pipe. The secondary outlet will not be used for drainage but would be utilized only in an emergency situation. The system slows down the incoming flow and meters the outflow over a 1 (or more) hour time period. This amount of runoff will be held in the retention pipes.

Lots 3-5, 16-19 – Retention System:

Based on our calculations assuming a 40% impervious surface build out, pre-construction flow is 0.15 cfs. The post-construction flow is 0.28 cfs. The net increase due to the construction is 0.13 cfs. The proposed detention system retains and meters release of 0.09 cfs for a 10 year storm. This proposed storm study is for a 10 minute time of concentration. The proposed retention system consists of (3) 24" diameter x 30' long solid wall HDPE pipes. The primary outlet pipe is a 2" PVC with an 8" secondary emergency overflow pipe. The secondary outlet will not be used for drainage but would be utilized only in an emergency situation. The system slows down the incoming flow and meters the outflow over a 1 (or more) hour time period. This amount of runoff will be held in the retention pipes.

Lots 8, 9, 13, 14 – Retention System:

Based on our calculations assuming a 40% impervious surface build out, pre-construction flow is 0.19 cfs. The post-construction flow is 0.35 cfs. The net increase due to the construction is 0.16 cfs. The proposed detention system retains and meters release of 0.10 cfs for a 10 year storm. This proposed storm study is for a 10 minute time of concentration. The proposed retention system consists of (3) 24" diameter x 30' long solid wall HDPE pipes. The primary outlet pipe is a 2" PVC with an 8" secondary emergency overflow pipe. The secondary outlet will not be used for drainage but would be utilized only in an emergency situation. The system slows down the incoming flow and meters the outflow over a 1 (or more) hour time period. This amount of runoff will be held in the retention pipes.

Lot 10 – Retention System:

Based on our calculations assuming a 40% impervious surface build out, pre-construction flow is 0.20 cfs. The post-construction flow is 0.36 cfs. The net increase due to the construction is 0.16 cfs. The proposed detention system retains and meters release of 0.10 cfs for a 10 year storm. This proposed storm study is for a 10 minute time

of concentration. The proposed retention system consists of (3) 24" diameter x 30' long solid wall HDPE pipes. The primary outlet pipe is a 2" PVC with an 8" secondary emergency overflow pipe. The secondary outlet will not be used for drainage but would be utilized only in an emergency situation. The system slows down the incoming flow and meters the outflow over a 1 (or more) hour time period. This amount of runoff will be held in the retention pipes.

Lot 11 – Retention System:

Based on our calculations assuming a 40% impervious surface build out, pre-construction flow is 0.28 cfs. The post-construction flow is 0.52 cfs. The net increase due to the construction is 0.24 cfs. The proposed detention system retains and meters release of 0.12 cfs for a 10 year storm. This proposed storm study is for a 10 minute time of concentration. The proposed retention system consists of (3) 24" diameter x 40' long solid wall HDPE pipes. The primary outlet pipe is a 2" PVC with an 8" secondary emergency overflow pipe. The secondary outlet will not be used for drainage but would be utilized only in an emergency situation. The system slows down the incoming flow and meters the outflow over a 1 (or more) hour time period. This amount of runoff will be held in the retention pipes.

Lot 12 – Retention System:

Based on our calculations assuming a 40% impervious surface build out, pre-construction flow is 0.22 cfs. The post-construction flow is 0.40 cfs. The net increase due to the construction is 0.18 cfs. The proposed detention system retains and meters release 0.11 cfs for a 10 year storm. This proposed storm study is for a 10 minute time of concentration. The proposed retention system consists of (3) 24" diameter x 30' long solid wall HDPE pipes. The primary outlet pipe is a 2" PVC with an 8" secondary emergency overflow pipe. The secondary outlet will not be used for drainage but would be utilized only in an emergency situation. The system slows down the incoming flow and meters the outflow over a 1 (or more) hour time period. This amount of runoff will be held in the retention pipes.

Lot 15 – Retention System:

Based on our calculations assuming a 40% impervious surface build out, pre-construction flow is 0.17 cfs. The post-construction flow is 0.32 cfs. The net increase due to the construction is 0.15 cfs. The proposed detention system retains and meters release of 0.10 cfs for a 10 year storm. This proposed storm study is for a 10 minute time of concentration. The proposed retention system consists of (3) 24" diameter x 30' long solid wall HDPE pipes. The primary outlet pipe is a 2" PVC with an 8" secondary emergency overflow pipe. The secondary outlet will not be used for drainage but would be utilized only in an emergency situation. The system slows down the incoming flow

and meters the outflow over a 1 (or more) hour time period. This amount of runoff will be held in the retention pipes.

## **Appendix A**

**EXISTING SITE PRE**

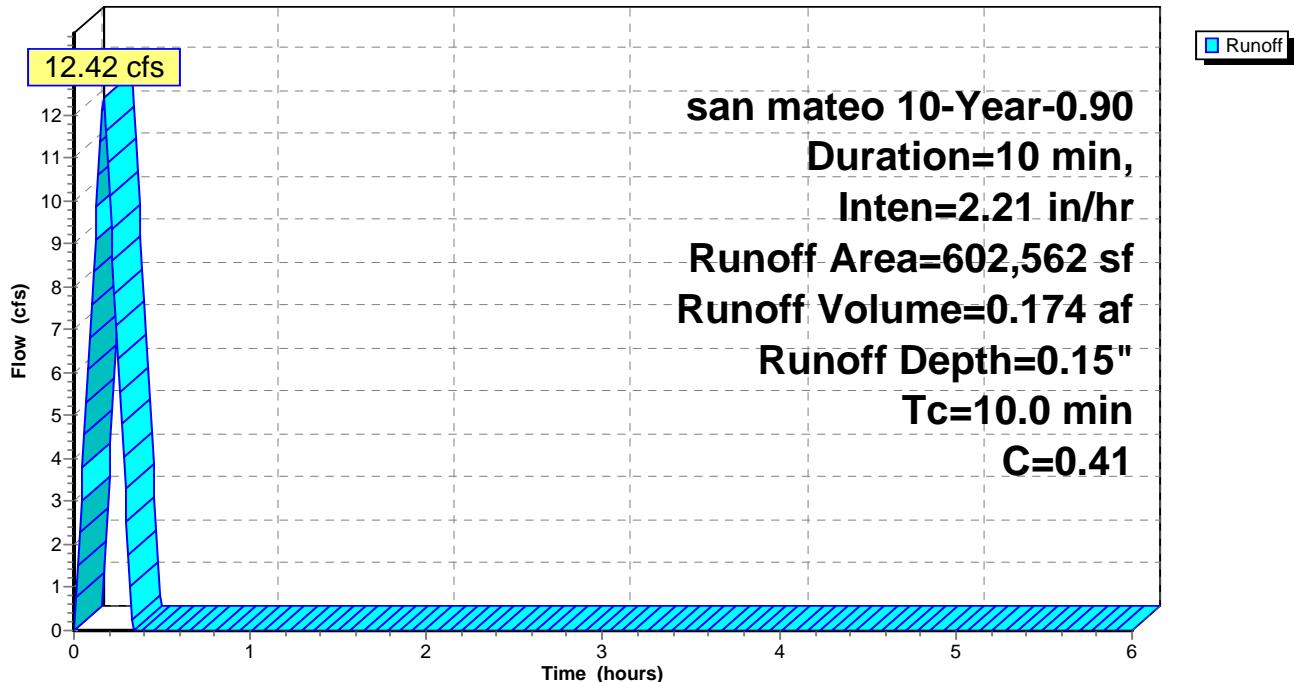
Prepared by {enter your company name here}

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*san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr*

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Page 1

**Subcatchment 1S: EXISTING SITE TOTAL PRE****Hydrograph**

**EXISTING SITE PRE**

san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr

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Page 2

**Hydrograph for Subcatchment 1S: EXISTING SITE TOTAL PRE**

Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)
0.00	0.00	2.65	0.00	5.30	0.00
0.05	3.79	2.70	0.00	5.35	0.00
0.10	7.58	2.75	0.00	5.40	0.00
0.15	<b>11.37</b>	2.80	0.00	5.45	0.00
0.20	<b>10.11</b>	2.85	0.00	5.50	0.00
0.25	6.32	2.90	0.00	5.55	0.00
0.30	2.53	2.95	0.00	5.60	0.00
0.35	0.00	3.00	0.00	5.65	0.00
0.40	0.00	3.05	0.00	5.70	0.00
0.45	0.00	3.10	0.00	5.75	0.00
0.50	0.00	3.15	0.00	5.80	0.00
0.55	0.00	3.20	0.00	5.85	0.00
0.60	0.00	3.25	0.00	5.90	0.00
0.65	0.00	3.30	0.00	5.95	0.00
0.70	0.00	3.35	0.00	6.00	0.00
0.75	0.00	3.40	0.00		
0.80	0.00	3.45	0.00		
0.85	0.00	3.50	0.00		
0.90	0.00	3.55	0.00		
0.95	0.00	3.60	0.00		
1.00	0.00	3.65	0.00		
1.05	0.00	3.70	0.00		
1.10	0.00	3.75	0.00		
1.15	0.00	3.80	0.00		
1.20	0.00	3.85	0.00		
1.25	0.00	3.90	0.00		
1.30	0.00	3.95	0.00		
1.35	0.00	4.00	0.00		
1.40	0.00	4.05	0.00		
1.45	0.00	4.10	0.00		
1.50	0.00	4.15	0.00		
1.55	0.00	4.20	0.00		
1.60	0.00	4.25	0.00		
1.65	0.00	4.30	0.00		
1.70	0.00	4.35	0.00		
1.75	0.00	4.40	0.00		
1.80	0.00	4.45	0.00		
1.85	0.00	4.50	0.00		
1.90	0.00	4.55	0.00		
1.95	0.00	4.60	0.00		
2.00	0.00	4.65	0.00		
2.05	0.00	4.70	0.00		
2.10	0.00	4.75	0.00		
2.15	0.00	4.80	0.00		
2.20	0.00	4.85	0.00		
2.25	0.00	4.90	0.00		
2.30	0.00	4.95	0.00		
2.35	0.00	5.00	0.00		
2.40	0.00	5.05	0.00		
2.45	0.00	5.10	0.00		
2.50	0.00	5.15	0.00		
2.55	0.00	5.20	0.00		
2.60	0.00	5.25	0.00		

## **Appendix B**

**LOT 1**

*san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr*

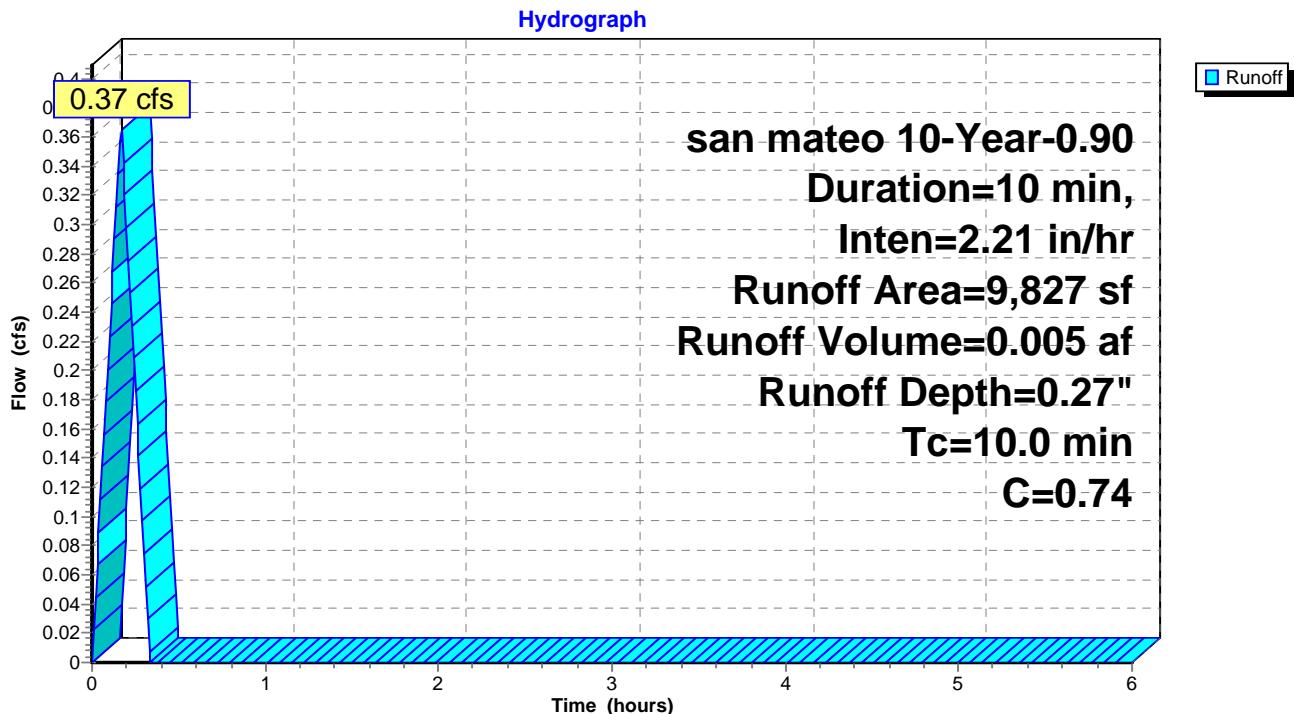
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Page 1

### Subcatchment 1S: Lot 1 Post



**LOT 1**

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Page 2

**Hydrograph for Subcatchment 1S: Lot 1 Post**

Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)
0.00	0.00	2.65	0.00	5.30	0.00
0.05	0.11	2.70	0.00	5.35	0.00
0.10	0.22	2.75	0.00	5.40	0.00
0.15	<b>0.33</b>	2.80	0.00	5.45	0.00
0.20	<b>0.30</b>	2.85	0.00	5.50	0.00
0.25	0.19	2.90	0.00	5.55	0.00
0.30	0.07	2.95	0.00	5.60	0.00
0.35	0.00	3.00	0.00	5.65	0.00
0.40	0.00	3.05	0.00	5.70	0.00
0.45	0.00	3.10	0.00	5.75	0.00
0.50	0.00	3.15	0.00	5.80	0.00
0.55	0.00	3.20	0.00	5.85	0.00
0.60	0.00	3.25	0.00	5.90	0.00
0.65	0.00	3.30	0.00	5.95	0.00
0.70	0.00	3.35	0.00	6.00	0.00
0.75	0.00	3.40	0.00		
0.80	0.00	3.45	0.00		
0.85	0.00	3.50	0.00		
0.90	0.00	3.55	0.00		
0.95	0.00	3.60	0.00		
1.00	0.00	3.65	0.00		
1.05	0.00	3.70	0.00		
1.10	0.00	3.75	0.00		
1.15	0.00	3.80	0.00		
1.20	0.00	3.85	0.00		
1.25	0.00	3.90	0.00		
1.30	0.00	3.95	0.00		
1.35	0.00	4.00	0.00		
1.40	0.00	4.05	0.00		
1.45	0.00	4.10	0.00		
1.50	0.00	4.15	0.00		
1.55	0.00	4.20	0.00		
1.60	0.00	4.25	0.00		
1.65	0.00	4.30	0.00		
1.70	0.00	4.35	0.00		
1.75	0.00	4.40	0.00		
1.80	0.00	4.45	0.00		
1.85	0.00	4.50	0.00		
1.90	0.00	4.55	0.00		
1.95	0.00	4.60	0.00		
2.00	0.00	4.65	0.00		
2.05	0.00	4.70	0.00		
2.10	0.00	4.75	0.00		
2.15	0.00	4.80	0.00		
2.20	0.00	4.85	0.00		
2.25	0.00	4.90	0.00		
2.30	0.00	4.95	0.00		
2.35	0.00	5.00	0.00		
2.40	0.00	5.05	0.00		
2.45	0.00	5.10	0.00		
2.50	0.00	5.15	0.00		
2.55	0.00	5.20	0.00		
2.60	0.00	5.25	0.00		

**LOT 1**

*san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr*

Prepared by {enter your company name here}

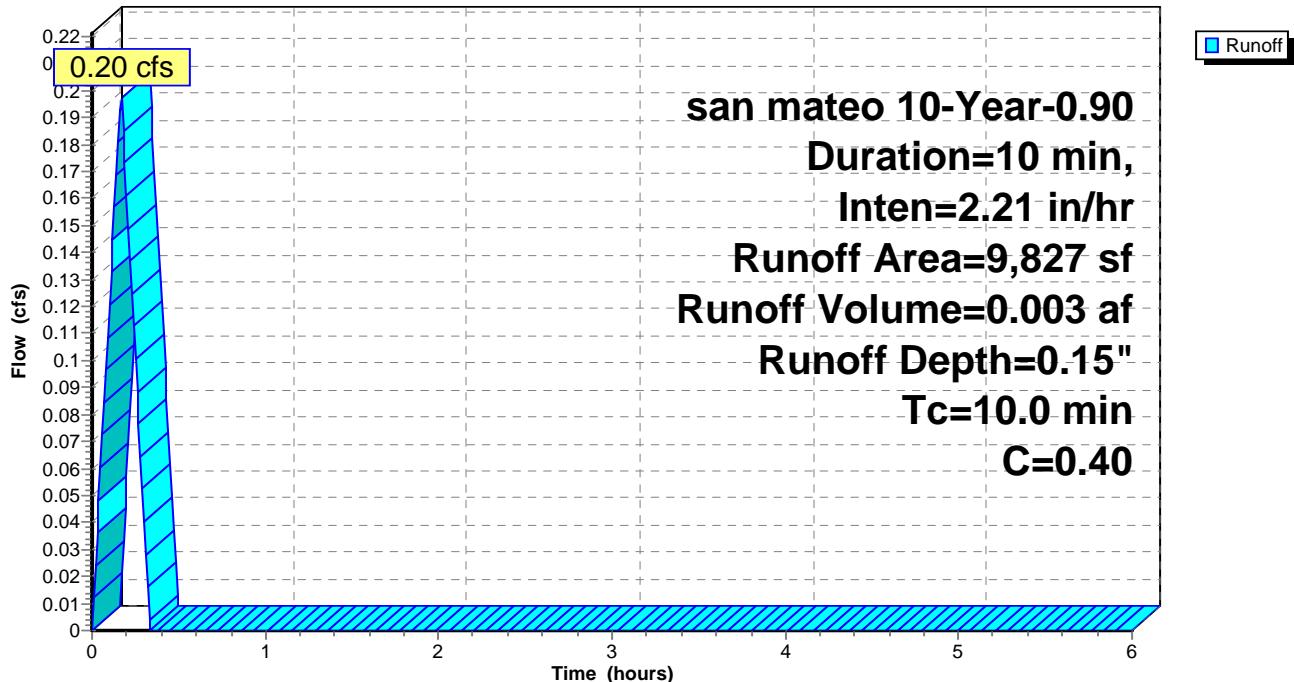
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Page 3

### Subcatchment 6S: Lot 1 Pre

Hydrograph



**LOT 1**

san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr

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**Hydrograph for Subcatchment 6S: Lot 1 Pre**

Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)
0.00	0.00	2.65	0.00	5.30	0.00
0.05	0.06	2.70	0.00	5.35	0.00
0.10	0.12	2.75	0.00	5.40	0.00
0.15	<b>0.18</b>	2.80	0.00	5.45	0.00
0.20	<b>0.16</b>	2.85	0.00	5.50	0.00
0.25	0.10	2.90	0.00	5.55	0.00
0.30	0.04	2.95	0.00	5.60	0.00
0.35	0.00	3.00	0.00	5.65	0.00
0.40	0.00	3.05	0.00	5.70	0.00
0.45	0.00	3.10	0.00	5.75	0.00
0.50	0.00	3.15	0.00	5.80	0.00
0.55	0.00	3.20	0.00	5.85	0.00
0.60	0.00	3.25	0.00	5.90	0.00
0.65	0.00	3.30	0.00	5.95	0.00
0.70	0.00	3.35	0.00	6.00	0.00
0.75	0.00	3.40	0.00		
0.80	0.00	3.45	0.00		
0.85	0.00	3.50	0.00		
0.90	0.00	3.55	0.00		
0.95	0.00	3.60	0.00		
1.00	0.00	3.65	0.00		
1.05	0.00	3.70	0.00		
1.10	0.00	3.75	0.00		
1.15	0.00	3.80	0.00		
1.20	0.00	3.85	0.00		
1.25	0.00	3.90	0.00		
1.30	0.00	3.95	0.00		
1.35	0.00	4.00	0.00		
1.40	0.00	4.05	0.00		
1.45	0.00	4.10	0.00		
1.50	0.00	4.15	0.00		
1.55	0.00	4.20	0.00		
1.60	0.00	4.25	0.00		
1.65	0.00	4.30	0.00		
1.70	0.00	4.35	0.00		
1.75	0.00	4.40	0.00		
1.80	0.00	4.45	0.00		
1.85	0.00	4.50	0.00		
1.90	0.00	4.55	0.00		
1.95	0.00	4.60	0.00		
2.00	0.00	4.65	0.00		
2.05	0.00	4.70	0.00		
2.10	0.00	4.75	0.00		
2.15	0.00	4.80	0.00		
2.20	0.00	4.85	0.00		
2.25	0.00	4.90	0.00		
2.30	0.00	4.95	0.00		
2.35	0.00	5.00	0.00		
2.40	0.00	5.05	0.00		
2.45	0.00	5.10	0.00		
2.50	0.00	5.15	0.00		
2.55	0.00	5.20	0.00		
2.60	0.00	5.25	0.00		

**LOT 1**

*san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr*

Prepared by {enter your company name here}

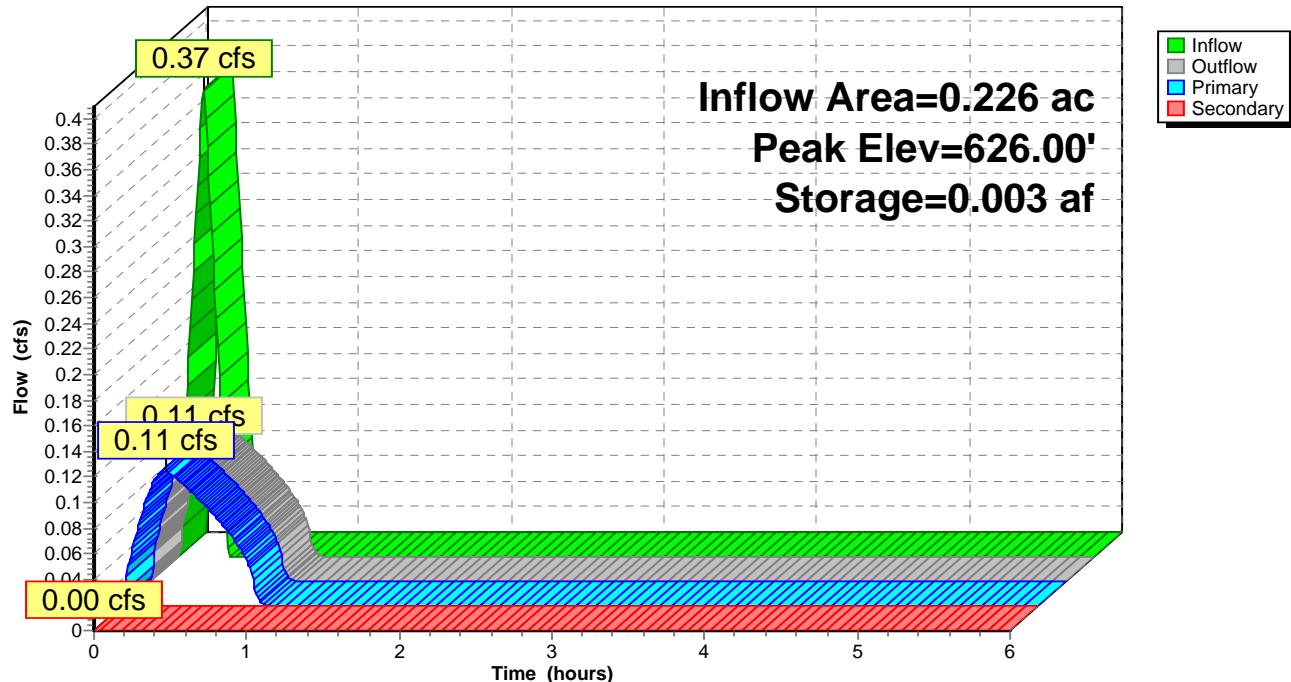
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### Pond 5P: detention basin

Hydrograph



**LOT 1***san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr*

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**Hydrograph for Pond 5P: detention basin**

Time (hours)	Inflow (cfs)	Storage (acre-feet)	Elevation (feet)	Outflow (cfs)	Primary (cfs)	Secondary (cfs)
0.00	<b>0.00</b>	0.000	625.00	0.00	0.00	<b>0.00</b>
0.20	<b>0.30</b>	<b>0.003</b>	<b>625.83</b>	<b>0.10</b>	<b>0.10</b>	0.00
0.40	0.00	<b>0.003</b>	<b>625.82</b>	<b>0.10</b>	<b>0.10</b>	0.00
0.60	0.00	0.001	625.46	0.07	0.07	0.00
0.80	0.00	0.000	625.14	0.04	0.04	0.00
1.00	0.00	0.000	625.00	0.00	0.00	0.00
1.20	0.00	0.000	625.00	0.00	0.00	0.00
1.40	0.00	0.000	625.00	0.00	0.00	0.00
1.60	0.00	0.000	625.00	0.00	0.00	0.00
1.80	0.00	0.000	625.00	0.00	0.00	0.00
2.00	0.00	0.000	625.00	0.00	0.00	0.00
2.20	0.00	0.000	625.00	0.00	0.00	0.00
2.40	0.00	0.000	625.00	0.00	0.00	0.00
2.60	0.00	0.000	625.00	0.00	0.00	0.00
2.80	0.00	0.000	625.00	0.00	0.00	0.00
3.00	0.00	0.000	625.00	0.00	0.00	0.00
3.20	0.00	0.000	625.00	0.00	0.00	0.00
3.40	0.00	0.000	625.00	0.00	0.00	0.00
3.60	0.00	0.000	625.00	0.00	0.00	0.00
3.80	0.00	0.000	625.00	0.00	0.00	0.00
4.00	0.00	0.000	625.00	0.00	0.00	0.00
4.20	0.00	0.000	625.00	0.00	0.00	0.00
4.40	0.00	0.000	625.00	0.00	0.00	0.00
4.60	0.00	0.000	625.00	0.00	0.00	0.00
4.80	0.00	0.000	625.00	0.00	0.00	0.00
5.00	0.00	0.000	625.00	0.00	0.00	0.00
5.20	0.00	0.000	625.00	0.00	0.00	0.00
5.40	0.00	0.000	625.00	0.00	0.00	0.00
5.60	0.00	0.000	625.00	0.00	0.00	0.00
5.80	0.00	0.000	625.00	0.00	0.00	0.00
6.00	0.00	0.000	625.00	0.00	0.00	0.00

**LOT 2**

*san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr*

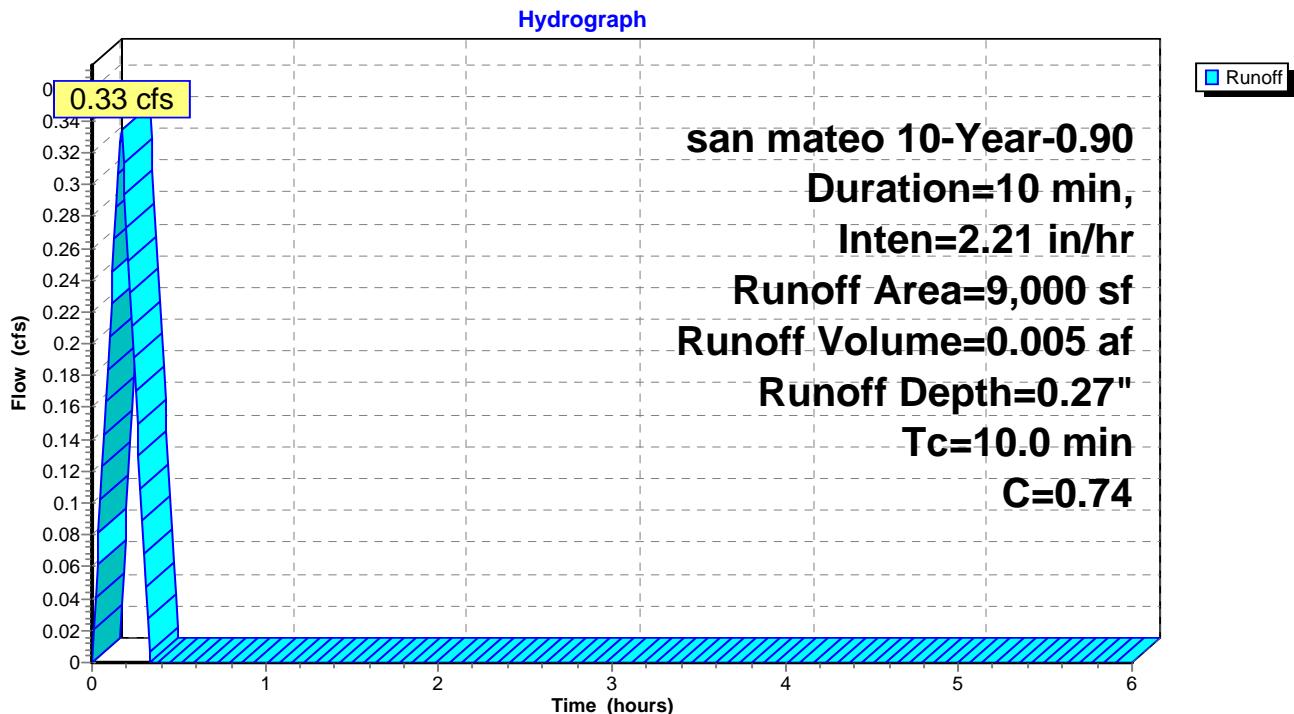
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Page 1

### Subcatchment 1S: Lots 2 Post



**LOT 2**

san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr

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Page 2

**Hydrograph for Subcatchment 1S: Lots 2 Post**

Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)
0.00	0.00	2.65	0.00	5.30	0.00
0.05	0.10	2.70	0.00	5.35	0.00
0.10	0.20	2.75	0.00	5.40	0.00
0.15	<b>0.31</b>	2.80	0.00	5.45	0.00
0.20	<b>0.27</b>	2.85	0.00	5.50	0.00
0.25	0.17	2.90	0.00	5.55	0.00
0.30	0.07	2.95	0.00	5.60	0.00
0.35	0.00	3.00	0.00	5.65	0.00
0.40	0.00	3.05	0.00	5.70	0.00
0.45	0.00	3.10	0.00	5.75	0.00
0.50	0.00	3.15	0.00	5.80	0.00
0.55	0.00	3.20	0.00	5.85	0.00
0.60	0.00	3.25	0.00	5.90	0.00
0.65	0.00	3.30	0.00	5.95	0.00
0.70	0.00	3.35	0.00	6.00	0.00
0.75	0.00	3.40	0.00		
0.80	0.00	3.45	0.00		
0.85	0.00	3.50	0.00		
0.90	0.00	3.55	0.00		
0.95	0.00	3.60	0.00		
1.00	0.00	3.65	0.00		
1.05	0.00	3.70	0.00		
1.10	0.00	3.75	0.00		
1.15	0.00	3.80	0.00		
1.20	0.00	3.85	0.00		
1.25	0.00	3.90	0.00		
1.30	0.00	3.95	0.00		
1.35	0.00	4.00	0.00		
1.40	0.00	4.05	0.00		
1.45	0.00	4.10	0.00		
1.50	0.00	4.15	0.00		
1.55	0.00	4.20	0.00		
1.60	0.00	4.25	0.00		
1.65	0.00	4.30	0.00		
1.70	0.00	4.35	0.00		
1.75	0.00	4.40	0.00		
1.80	0.00	4.45	0.00		
1.85	0.00	4.50	0.00		
1.90	0.00	4.55	0.00		
1.95	0.00	4.60	0.00		
2.00	0.00	4.65	0.00		
2.05	0.00	4.70	0.00		
2.10	0.00	4.75	0.00		
2.15	0.00	4.80	0.00		
2.20	0.00	4.85	0.00		
2.25	0.00	4.90	0.00		
2.30	0.00	4.95	0.00		
2.35	0.00	5.00	0.00		
2.40	0.00	5.05	0.00		
2.45	0.00	5.10	0.00		
2.50	0.00	5.15	0.00		
2.55	0.00	5.20	0.00		
2.60	0.00	5.25	0.00		

**LOT 2**

*san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr*

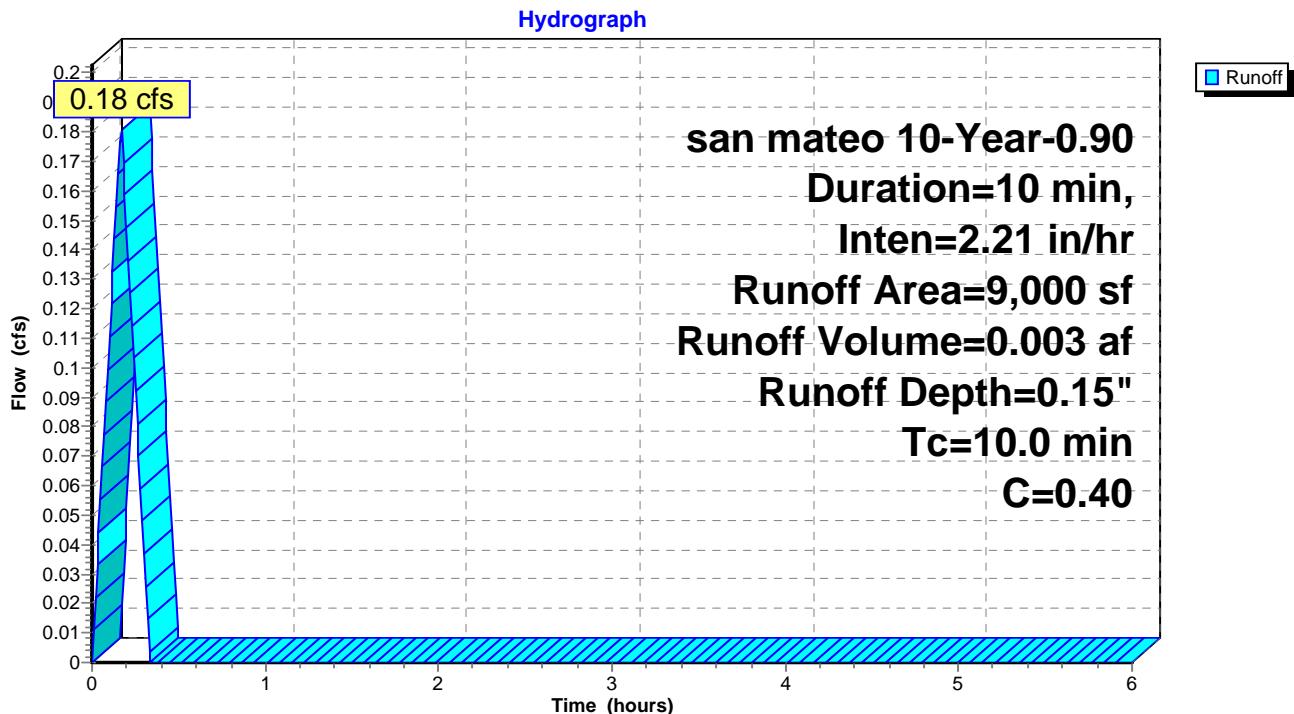
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### Subcatchment 6S: Lots 2 Pre



**LOT 2**

san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr

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**Hydrograph for Subcatchment 6S: Lots 2 Pre**

Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)
0.00	0.00	2.65	0.00	5.30	0.00
0.05	0.06	2.70	0.00	5.35	0.00
0.10	0.11	2.75	0.00	5.40	0.00
0.15	<b>0.17</b>	2.80	0.00	5.45	0.00
0.20	<b>0.15</b>	2.85	0.00	5.50	0.00
0.25	0.09	2.90	0.00	5.55	0.00
0.30	0.04	2.95	0.00	5.60	0.00
0.35	0.00	3.00	0.00	5.65	0.00
0.40	0.00	3.05	0.00	5.70	0.00
0.45	0.00	3.10	0.00	5.75	0.00
0.50	0.00	3.15	0.00	5.80	0.00
0.55	0.00	3.20	0.00	5.85	0.00
0.60	0.00	3.25	0.00	5.90	0.00
0.65	0.00	3.30	0.00	5.95	0.00
0.70	0.00	3.35	0.00	6.00	0.00
0.75	0.00	3.40	0.00		
0.80	0.00	3.45	0.00		
0.85	0.00	3.50	0.00		
0.90	0.00	3.55	0.00		
0.95	0.00	3.60	0.00		
1.00	0.00	3.65	0.00		
1.05	0.00	3.70	0.00		
1.10	0.00	3.75	0.00		
1.15	0.00	3.80	0.00		
1.20	0.00	3.85	0.00		
1.25	0.00	3.90	0.00		
1.30	0.00	3.95	0.00		
1.35	0.00	4.00	0.00		
1.40	0.00	4.05	0.00		
1.45	0.00	4.10	0.00		
1.50	0.00	4.15	0.00		
1.55	0.00	4.20	0.00		
1.60	0.00	4.25	0.00		
1.65	0.00	4.30	0.00		
1.70	0.00	4.35	0.00		
1.75	0.00	4.40	0.00		
1.80	0.00	4.45	0.00		
1.85	0.00	4.50	0.00		
1.90	0.00	4.55	0.00		
1.95	0.00	4.60	0.00		
2.00	0.00	4.65	0.00		
2.05	0.00	4.70	0.00		
2.10	0.00	4.75	0.00		
2.15	0.00	4.80	0.00		
2.20	0.00	4.85	0.00		
2.25	0.00	4.90	0.00		
2.30	0.00	4.95	0.00		
2.35	0.00	5.00	0.00		
2.40	0.00	5.05	0.00		
2.45	0.00	5.10	0.00		
2.50	0.00	5.15	0.00		
2.55	0.00	5.20	0.00		
2.60	0.00	5.25	0.00		

**LOT 2**

*san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr*

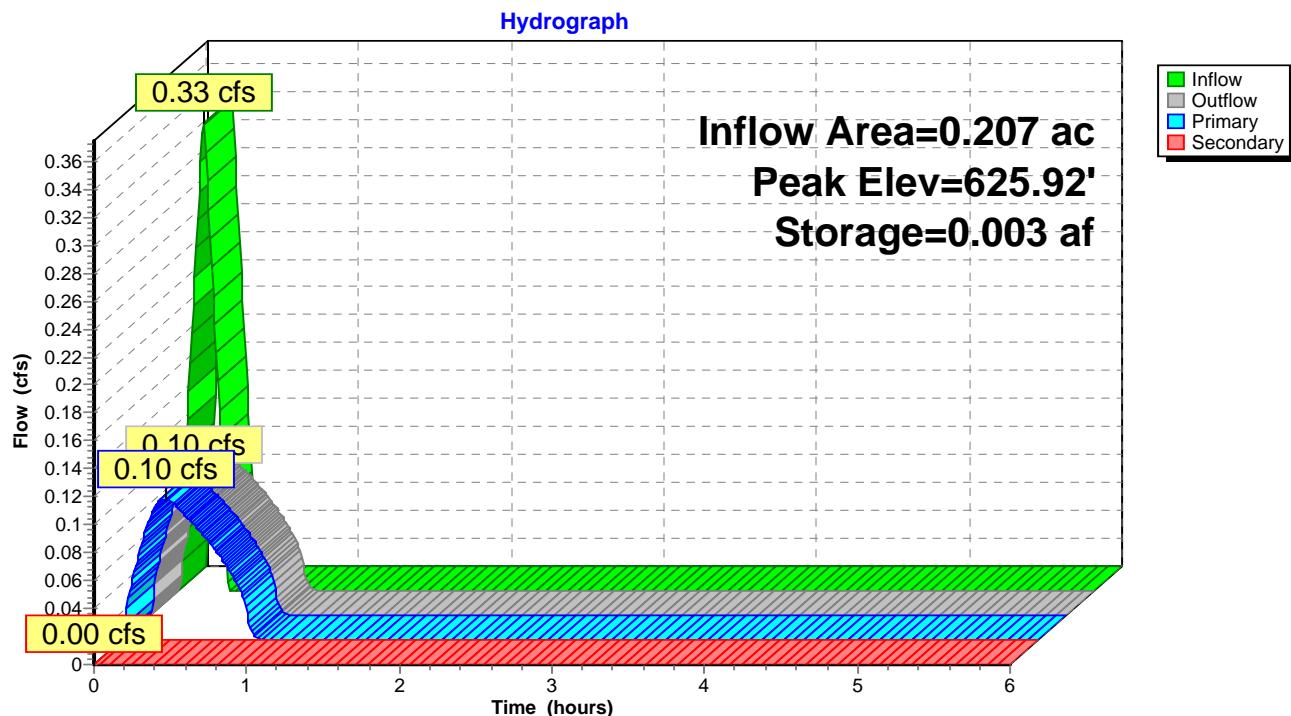
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### Pond 5P: detention basin



**LOT 2**

san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr

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**Hydrograph for Pond 5P: detention basin**

Time (hours)	Inflow (cfs)	Storage (acre-feet)	Elevation (feet)	Outflow (cfs)	Primary (cfs)	Secondary (cfs)
0.00	<b>0.00</b>	0.000	625.00	0.00	0.00	<b>0.00</b>
0.20	<b>0.27</b>	<b>0.002</b>	<b>625.77</b>	<b>0.09</b>	<b>0.09</b>	0.00
0.40	0.00	<b>0.002</b>	<b>625.74</b>	<b>0.09</b>	<b>0.09</b>	0.00
0.60	0.00	0.001	625.39	0.07	0.07	0.00
0.80	0.00	0.000	625.08	0.03	0.03	0.00
1.00	0.00	0.000	625.00	0.00	0.00	0.00
1.20	0.00	0.000	625.00	0.00	0.00	0.00
1.40	0.00	0.000	625.00	0.00	0.00	0.00
1.60	0.00	0.000	625.00	0.00	0.00	0.00
1.80	0.00	0.000	625.00	0.00	0.00	0.00
2.00	0.00	0.000	625.00	0.00	0.00	0.00
2.20	0.00	0.000	625.00	0.00	0.00	0.00
2.40	0.00	0.000	625.00	0.00	0.00	0.00
2.60	0.00	0.000	625.00	0.00	0.00	0.00
2.80	0.00	0.000	625.00	0.00	0.00	0.00
3.00	0.00	0.000	625.00	0.00	0.00	0.00
3.20	0.00	0.000	625.00	0.00	0.00	0.00
3.40	0.00	0.000	625.00	0.00	0.00	0.00
3.60	0.00	0.000	625.00	0.00	0.00	0.00
3.80	0.00	0.000	625.00	0.00	0.00	0.00
4.00	0.00	0.000	625.00	0.00	0.00	0.00
4.20	0.00	0.000	625.00	0.00	0.00	0.00
4.40	0.00	0.000	625.00	0.00	0.00	0.00
4.60	0.00	0.000	625.00	0.00	0.00	0.00
4.80	0.00	0.000	625.00	0.00	0.00	0.00
5.00	0.00	0.000	625.00	0.00	0.00	0.00
5.20	0.00	0.000	625.00	0.00	0.00	0.00
5.40	0.00	0.000	625.00	0.00	0.00	0.00
5.60	0.00	0.000	625.00	0.00	0.00	0.00
5.80	0.00	0.000	625.00	0.00	0.00	0.00
6.00	0.00	0.000	625.00	0.00	0.00	0.00

**LOT 3,4,5,18**

*san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr*

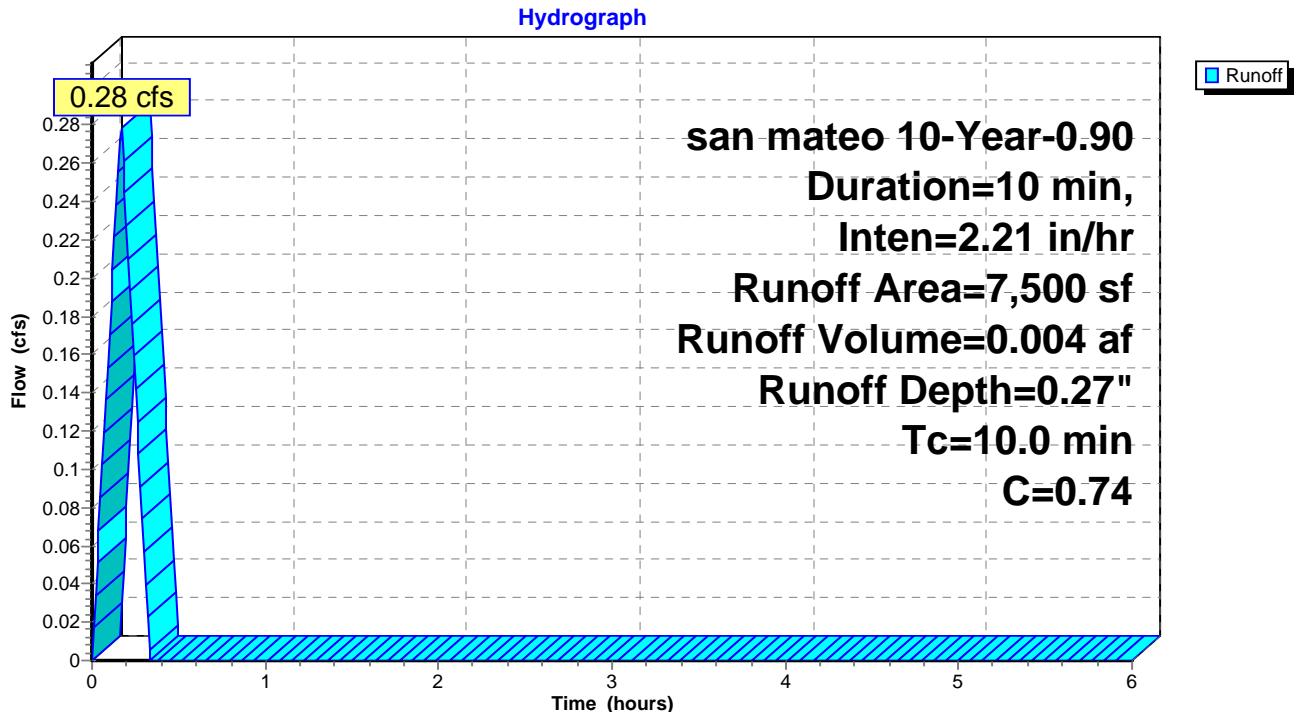
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Page 1

### **Subcatchment 1S: Lots 3,4,5,18 Post**



**LOT 3,4,5,18**

san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr

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**Hydrograph for Subcatchment 1S: Lots 3,4,5,18 Post**

Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)
0.00	0.00	2.65	0.00	5.30	0.00
0.05	0.09	2.70	0.00	5.35	0.00
0.10	0.17	2.75	0.00	5.40	0.00
0.15	<b>0.26</b>	2.80	0.00	5.45	0.00
0.20	<b>0.23</b>	2.85	0.00	5.50	0.00
0.25	0.14	2.90	0.00	5.55	0.00
0.30	0.06	2.95	0.00	5.60	0.00
0.35	0.00	3.00	0.00	5.65	0.00
0.40	0.00	3.05	0.00	5.70	0.00
0.45	0.00	3.10	0.00	5.75	0.00
0.50	0.00	3.15	0.00	5.80	0.00
0.55	0.00	3.20	0.00	5.85	0.00
0.60	0.00	3.25	0.00	5.90	0.00
0.65	0.00	3.30	0.00	5.95	0.00
0.70	0.00	3.35	0.00	6.00	0.00
0.75	0.00	3.40	0.00		
0.80	0.00	3.45	0.00		
0.85	0.00	3.50	0.00		
0.90	0.00	3.55	0.00		
0.95	0.00	3.60	0.00		
1.00	0.00	3.65	0.00		
1.05	0.00	3.70	0.00		
1.10	0.00	3.75	0.00		
1.15	0.00	3.80	0.00		
1.20	0.00	3.85	0.00		
1.25	0.00	3.90	0.00		
1.30	0.00	3.95	0.00		
1.35	0.00	4.00	0.00		
1.40	0.00	4.05	0.00		
1.45	0.00	4.10	0.00		
1.50	0.00	4.15	0.00		
1.55	0.00	4.20	0.00		
1.60	0.00	4.25	0.00		
1.65	0.00	4.30	0.00		
1.70	0.00	4.35	0.00		
1.75	0.00	4.40	0.00		
1.80	0.00	4.45	0.00		
1.85	0.00	4.50	0.00		
1.90	0.00	4.55	0.00		
1.95	0.00	4.60	0.00		
2.00	0.00	4.65	0.00		
2.05	0.00	4.70	0.00		
2.10	0.00	4.75	0.00		
2.15	0.00	4.80	0.00		
2.20	0.00	4.85	0.00		
2.25	0.00	4.90	0.00		
2.30	0.00	4.95	0.00		
2.35	0.00	5.00	0.00		
2.40	0.00	5.05	0.00		
2.45	0.00	5.10	0.00		
2.50	0.00	5.15	0.00		
2.55	0.00	5.20	0.00		
2.60	0.00	5.25	0.00		

**LOT 3,4,5,18**

*san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr*

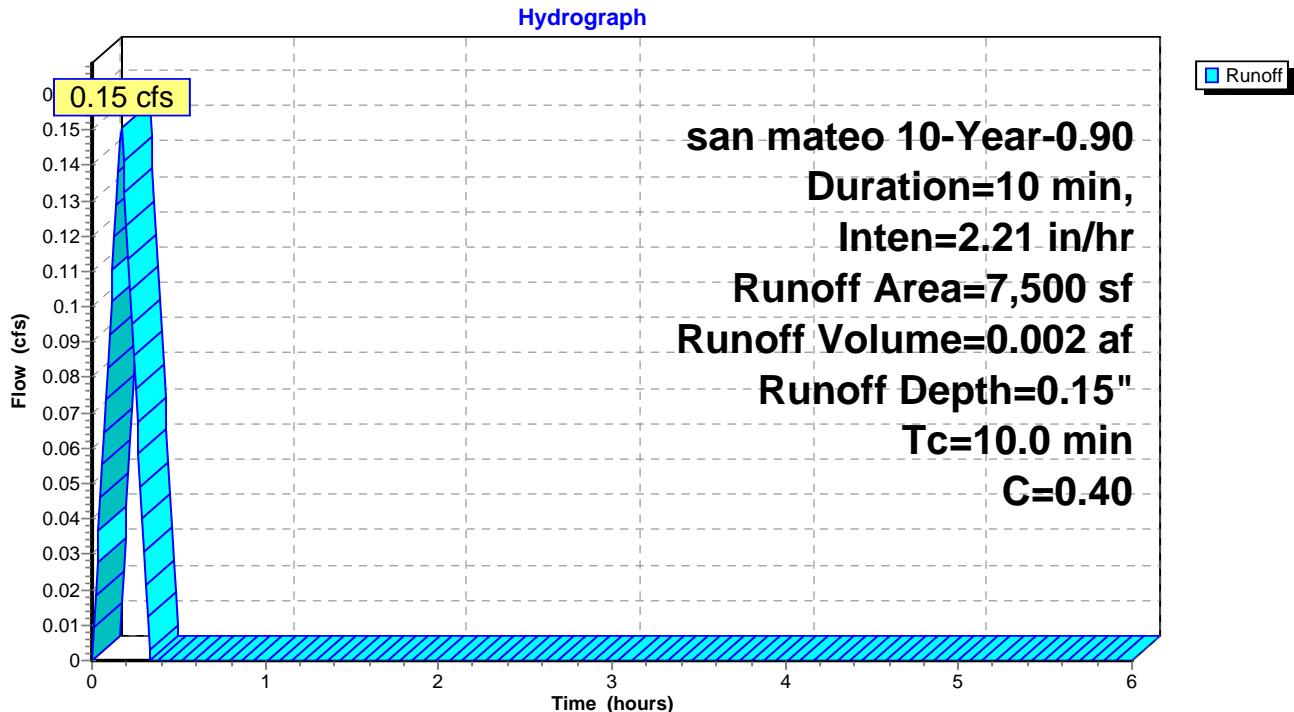
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### **Subcatchment 6S: Lots 3,4,5,18 Pre**



**Hydrograph for Subcatchment 6S: Lots 3,4,5,18 Pre**

Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)
0.00	0.00	2.65	0.00	5.30	0.00
0.05	0.05	2.70	0.00	5.35	0.00
0.10	0.09	2.75	0.00	5.40	0.00
0.15	<b>0.14</b>	2.80	0.00	5.45	0.00
0.20	<b>0.12</b>	2.85	0.00	5.50	0.00
0.25	0.08	2.90	0.00	5.55	0.00
0.30	0.03	2.95	0.00	5.60	0.00
0.35	0.00	3.00	0.00	5.65	0.00
0.40	0.00	3.05	0.00	5.70	0.00
0.45	0.00	3.10	0.00	5.75	0.00
0.50	0.00	3.15	0.00	5.80	0.00
0.55	0.00	3.20	0.00	5.85	0.00
0.60	0.00	3.25	0.00	5.90	0.00
0.65	0.00	3.30	0.00	5.95	0.00
0.70	0.00	3.35	0.00	6.00	0.00
0.75	0.00	3.40	0.00		
0.80	0.00	3.45	0.00		
0.85	0.00	3.50	0.00		
0.90	0.00	3.55	0.00		
0.95	0.00	3.60	0.00		
1.00	0.00	3.65	0.00		
1.05	0.00	3.70	0.00		
1.10	0.00	3.75	0.00		
1.15	0.00	3.80	0.00		
1.20	0.00	3.85	0.00		
1.25	0.00	3.90	0.00		
1.30	0.00	3.95	0.00		
1.35	0.00	4.00	0.00		
1.40	0.00	4.05	0.00		
1.45	0.00	4.10	0.00		
1.50	0.00	4.15	0.00		
1.55	0.00	4.20	0.00		
1.60	0.00	4.25	0.00		
1.65	0.00	4.30	0.00		
1.70	0.00	4.35	0.00		
1.75	0.00	4.40	0.00		
1.80	0.00	4.45	0.00		
1.85	0.00	4.50	0.00		
1.90	0.00	4.55	0.00		
1.95	0.00	4.60	0.00		
2.00	0.00	4.65	0.00		
2.05	0.00	4.70	0.00		
2.10	0.00	4.75	0.00		
2.15	0.00	4.80	0.00		
2.20	0.00	4.85	0.00		
2.25	0.00	4.90	0.00		
2.30	0.00	4.95	0.00		
2.35	0.00	5.00	0.00		
2.40	0.00	5.05	0.00		
2.45	0.00	5.10	0.00		
2.50	0.00	5.15	0.00		
2.55	0.00	5.20	0.00		
2.60	0.00	5.25	0.00		

**LOT 3,4,5,18**

*san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr*

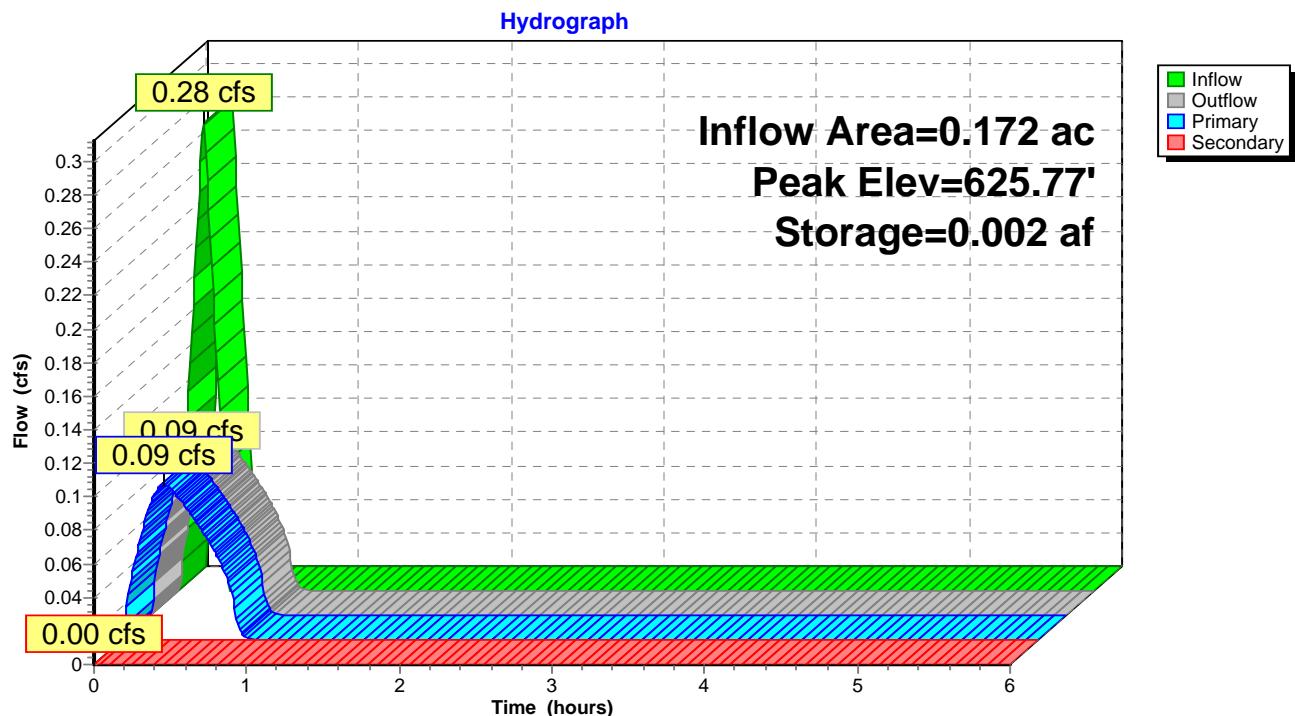
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### Pond 5P: detention basin



**LOT 3,4,5,18**

san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr

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**Hydrograph for Pond 5P: detention basin**

Time (hours)	Inflow (cfs)	Storage (acre-feet)	Elevation (feet)	Outflow (cfs)	Primary (cfs)	Secondary (cfs)
0.00	<b>0.00</b>	0.000	625.00	0.00	0.00	<b>0.00</b>
0.20	<b>0.23</b>	<b>0.002</b>	<b>625.65</b>	<b>0.08</b>	<b>0.08</b>	0.00
0.40	0.00	<b>0.002</b>	<b>625.60</b>	<b>0.08</b>	<b>0.08</b>	0.00
0.60	0.00	0.001	625.26	0.05	0.05	0.00
0.80	0.00	0.000	625.01	0.00	0.00	0.00
1.00	0.00	0.000	625.00	0.00	0.00	0.00
1.20	0.00	0.000	625.00	0.00	0.00	0.00
1.40	0.00	0.000	625.00	0.00	0.00	0.00
1.60	0.00	0.000	625.00	0.00	0.00	0.00
1.80	0.00	0.000	625.00	0.00	0.00	0.00
2.00	0.00	0.000	625.00	0.00	0.00	0.00
2.20	0.00	0.000	625.00	0.00	0.00	0.00
2.40	0.00	0.000	625.00	0.00	0.00	0.00
2.60	0.00	0.000	625.00	0.00	0.00	0.00
2.80	0.00	0.000	625.00	0.00	0.00	0.00
3.00	0.00	0.000	625.00	0.00	0.00	0.00
3.20	0.00	0.000	625.00	0.00	0.00	0.00
3.40	0.00	0.000	625.00	0.00	0.00	0.00
3.60	0.00	0.000	625.00	0.00	0.00	0.00
3.80	0.00	0.000	625.00	0.00	0.00	0.00
4.00	0.00	0.000	625.00	0.00	0.00	0.00
4.20	0.00	0.000	625.00	0.00	0.00	0.00
4.40	0.00	0.000	625.00	0.00	0.00	0.00
4.60	0.00	0.000	625.00	0.00	0.00	0.00
4.80	0.00	0.000	625.00	0.00	0.00	0.00
5.00	0.00	0.000	625.00	0.00	0.00	0.00
5.20	0.00	0.000	625.00	0.00	0.00	0.00
5.40	0.00	0.000	625.00	0.00	0.00	0.00
5.60	0.00	0.000	625.00	0.00	0.00	0.00
5.80	0.00	0.000	625.00	0.00	0.00	0.00
6.00	0.00	0.000	625.00	0.00	0.00	0.00

**LOT 6**

*san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr*

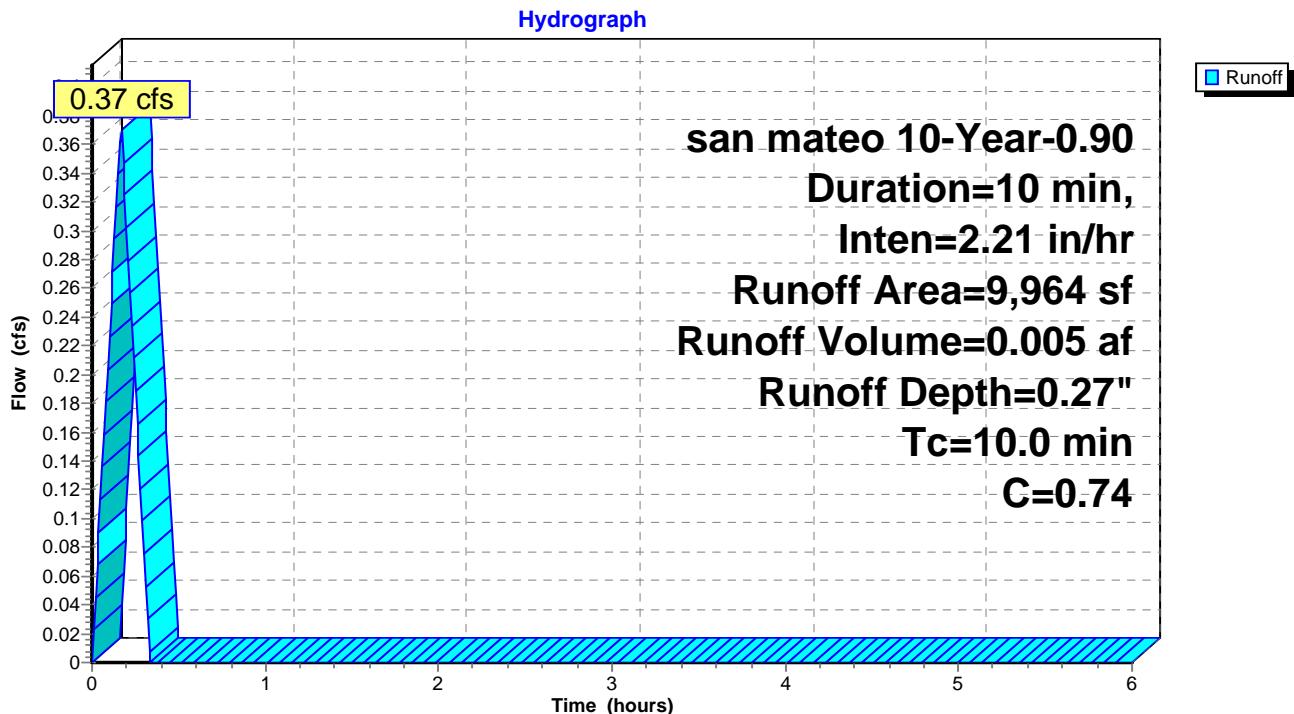
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### Subcatchment 1S: Lots 6 Post



**LOT 6**

san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr

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**Hydrograph for Subcatchment 1S: Lots 6 Post**

Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)
0.00	0.00	2.65	0.00	5.30	0.00
0.05	0.11	2.70	0.00	5.35	0.00
0.10	0.23	2.75	0.00	5.40	0.00
0.15	<b>0.34</b>	2.80	0.00	5.45	0.00
0.20	<b>0.30</b>	2.85	0.00	5.50	0.00
0.25	0.19	2.90	0.00	5.55	0.00
0.30	0.08	2.95	0.00	5.60	0.00
0.35	0.00	3.00	0.00	5.65	0.00
0.40	0.00	3.05	0.00	5.70	0.00
0.45	0.00	3.10	0.00	5.75	0.00
0.50	0.00	3.15	0.00	5.80	0.00
0.55	0.00	3.20	0.00	5.85	0.00
0.60	0.00	3.25	0.00	5.90	0.00
0.65	0.00	3.30	0.00	5.95	0.00
0.70	0.00	3.35	0.00	6.00	0.00
0.75	0.00	3.40	0.00		
0.80	0.00	3.45	0.00		
0.85	0.00	3.50	0.00		
0.90	0.00	3.55	0.00		
0.95	0.00	3.60	0.00		
1.00	0.00	3.65	0.00		
1.05	0.00	3.70	0.00		
1.10	0.00	3.75	0.00		
1.15	0.00	3.80	0.00		
1.20	0.00	3.85	0.00		
1.25	0.00	3.90	0.00		
1.30	0.00	3.95	0.00		
1.35	0.00	4.00	0.00		
1.40	0.00	4.05	0.00		
1.45	0.00	4.10	0.00		
1.50	0.00	4.15	0.00		
1.55	0.00	4.20	0.00		
1.60	0.00	4.25	0.00		
1.65	0.00	4.30	0.00		
1.70	0.00	4.35	0.00		
1.75	0.00	4.40	0.00		
1.80	0.00	4.45	0.00		
1.85	0.00	4.50	0.00		
1.90	0.00	4.55	0.00		
1.95	0.00	4.60	0.00		
2.00	0.00	4.65	0.00		
2.05	0.00	4.70	0.00		
2.10	0.00	4.75	0.00		
2.15	0.00	4.80	0.00		
2.20	0.00	4.85	0.00		
2.25	0.00	4.90	0.00		
2.30	0.00	4.95	0.00		
2.35	0.00	5.00	0.00		
2.40	0.00	5.05	0.00		
2.45	0.00	5.10	0.00		
2.50	0.00	5.15	0.00		
2.55	0.00	5.20	0.00		
2.60	0.00	5.25	0.00		

**LOT 6**

*san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr*

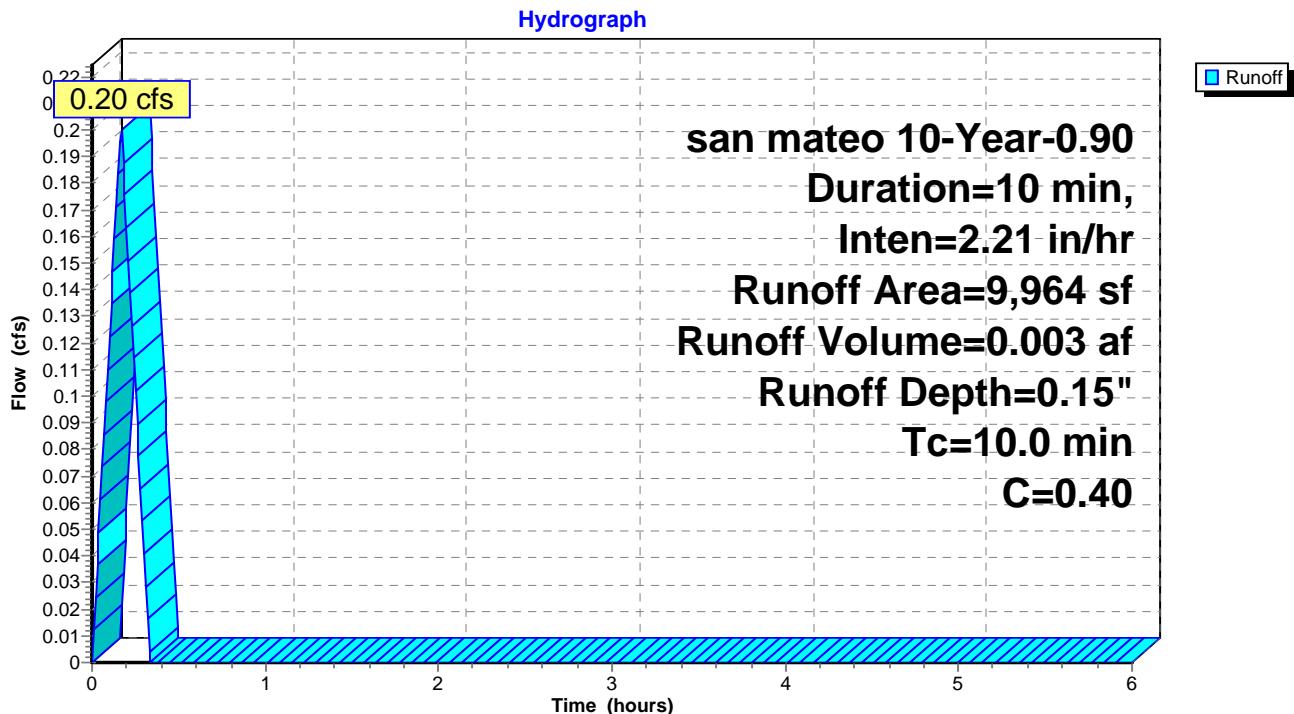
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### Subcatchment 6S: Lots 6 Pre



**LOT 6**

san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr

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**Hydrograph for Subcatchment 6S: Lots 6 Pre**

Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)
0.00	0.00	2.65	0.00	5.30	0.00
0.05	0.06	2.70	0.00	5.35	0.00
0.10	0.12	2.75	0.00	5.40	0.00
0.15	<b>0.18</b>	2.80	0.00	5.45	0.00
0.20	<b>0.16</b>	2.85	0.00	5.50	0.00
0.25	0.10	2.90	0.00	5.55	0.00
0.30	0.04	2.95	0.00	5.60	0.00
0.35	0.00	3.00	0.00	5.65	0.00
0.40	0.00	3.05	0.00	5.70	0.00
0.45	0.00	3.10	0.00	5.75	0.00
0.50	0.00	3.15	0.00	5.80	0.00
0.55	0.00	3.20	0.00	5.85	0.00
0.60	0.00	3.25	0.00	5.90	0.00
0.65	0.00	3.30	0.00	5.95	0.00
0.70	0.00	3.35	0.00	6.00	0.00
0.75	0.00	3.40	0.00		
0.80	0.00	3.45	0.00		
0.85	0.00	3.50	0.00		
0.90	0.00	3.55	0.00		
0.95	0.00	3.60	0.00		
1.00	0.00	3.65	0.00		
1.05	0.00	3.70	0.00		
1.10	0.00	3.75	0.00		
1.15	0.00	3.80	0.00		
1.20	0.00	3.85	0.00		
1.25	0.00	3.90	0.00		
1.30	0.00	3.95	0.00		
1.35	0.00	4.00	0.00		
1.40	0.00	4.05	0.00		
1.45	0.00	4.10	0.00		
1.50	0.00	4.15	0.00		
1.55	0.00	4.20	0.00		
1.60	0.00	4.25	0.00		
1.65	0.00	4.30	0.00		
1.70	0.00	4.35	0.00		
1.75	0.00	4.40	0.00		
1.80	0.00	4.45	0.00		
1.85	0.00	4.50	0.00		
1.90	0.00	4.55	0.00		
1.95	0.00	4.60	0.00		
2.00	0.00	4.65	0.00		
2.05	0.00	4.70	0.00		
2.10	0.00	4.75	0.00		
2.15	0.00	4.80	0.00		
2.20	0.00	4.85	0.00		
2.25	0.00	4.90	0.00		
2.30	0.00	4.95	0.00		
2.35	0.00	5.00	0.00		
2.40	0.00	5.05	0.00		
2.45	0.00	5.10	0.00		
2.50	0.00	5.15	0.00		
2.55	0.00	5.20	0.00		
2.60	0.00	5.25	0.00		

**LOT 6**

*san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr*

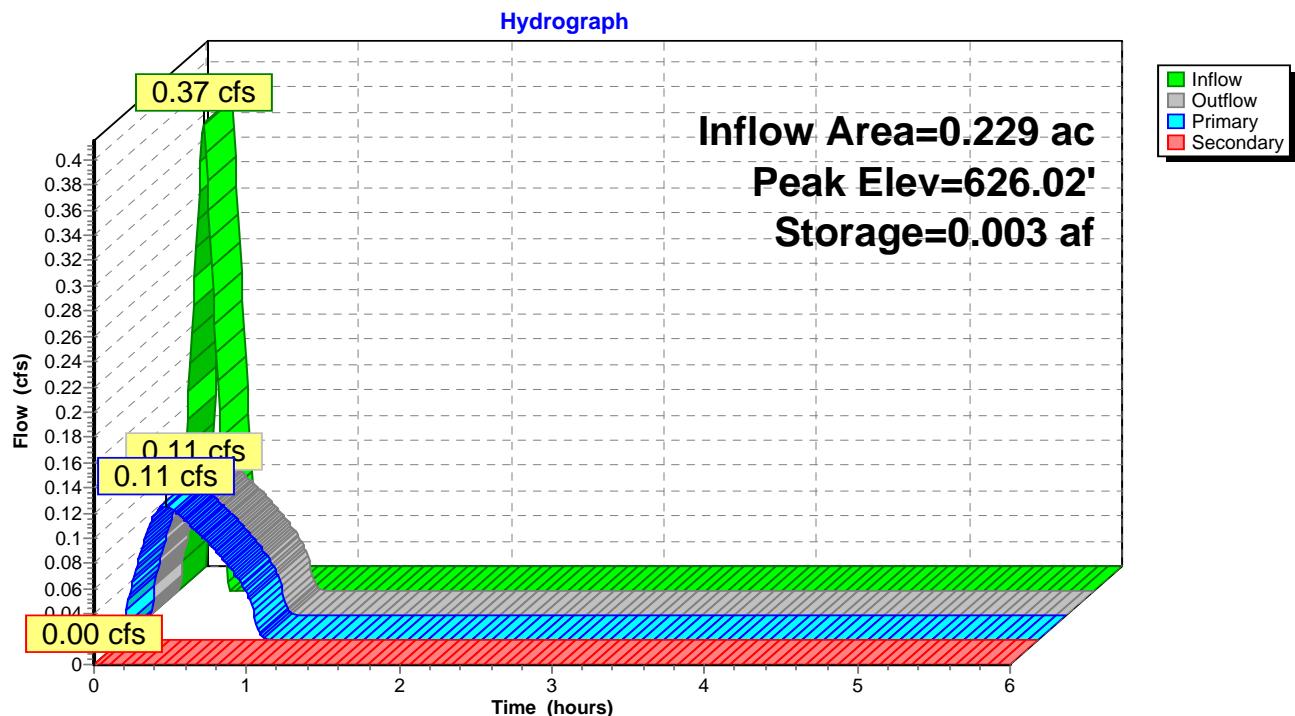
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### Pond 5P: detention basin



**LOT 6***san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr*

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**Hydrograph for Pond 5P: detention basin**

Time (hours)	Inflow (cfs)	Storage (acre-feet)	Elevation (feet)	Outflow (cfs)	Primary (cfs)	Secondary (cfs)
0.00	<b>0.00</b>	0.000	625.00	0.00	0.00	<b>0.00</b>
0.20	<b>0.30</b>	<b>0.003</b>	<b>625.84</b>	<b>0.10</b>	<b>0.10</b>	0.00
0.40	0.00	<b>0.003</b>	<b>625.84</b>	<b>0.10</b>	<b>0.10</b>	0.00
0.60	0.00	0.001	625.47	0.07	0.07	0.00
0.80	0.00	0.000	625.15	0.04	0.04	0.00
1.00	0.00	0.000	625.00	0.00	0.00	0.00
1.20	0.00	0.000	625.00	0.00	0.00	0.00
1.40	0.00	0.000	625.00	0.00	0.00	0.00
1.60	0.00	0.000	625.00	0.00	0.00	0.00
1.80	0.00	0.000	625.00	0.00	0.00	0.00
2.00	0.00	0.000	625.00	0.00	0.00	0.00
2.20	0.00	0.000	625.00	0.00	0.00	0.00
2.40	0.00	0.000	625.00	0.00	0.00	0.00
2.60	0.00	0.000	625.00	0.00	0.00	0.00
2.80	0.00	0.000	625.00	0.00	0.00	0.00
3.00	0.00	0.000	625.00	0.00	0.00	0.00
3.20	0.00	0.000	625.00	0.00	0.00	0.00
3.40	0.00	0.000	625.00	0.00	0.00	0.00
3.60	0.00	0.000	625.00	0.00	0.00	0.00
3.80	0.00	0.000	625.00	0.00	0.00	0.00
4.00	0.00	0.000	625.00	0.00	0.00	0.00
4.20	0.00	0.000	625.00	0.00	0.00	0.00
4.40	0.00	0.000	625.00	0.00	0.00	0.00
4.60	0.00	0.000	625.00	0.00	0.00	0.00
4.80	0.00	0.000	625.00	0.00	0.00	0.00
5.00	0.00	0.000	625.00	0.00	0.00	0.00
5.20	0.00	0.000	625.00	0.00	0.00	0.00
5.40	0.00	0.000	625.00	0.00	0.00	0.00
5.60	0.00	0.000	625.00	0.00	0.00	0.00
5.80	0.00	0.000	625.00	0.00	0.00	0.00
6.00	0.00	0.000	625.00	0.00	0.00	0.00

**LOT 7**

*san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr*

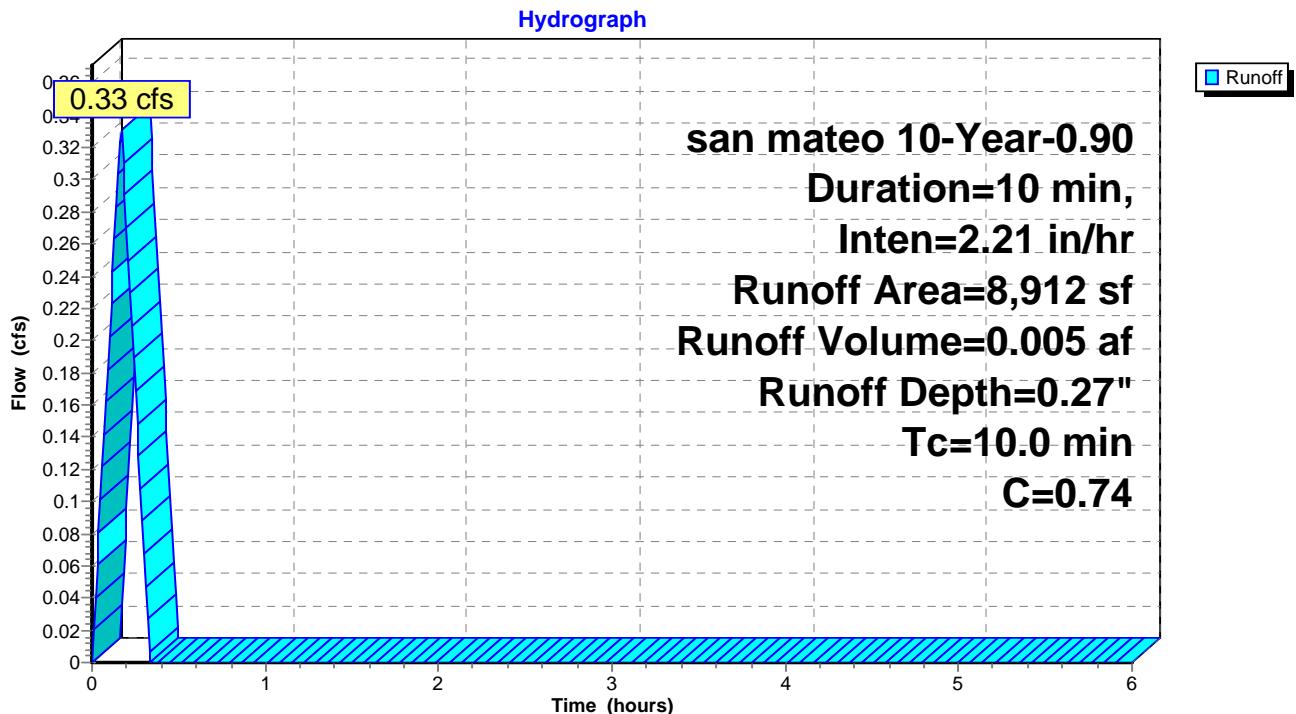
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Page 1

### Subcatchment 1S: Lots 7 Post



**LOT 7**

san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr

Prepared by {enter your company name here}

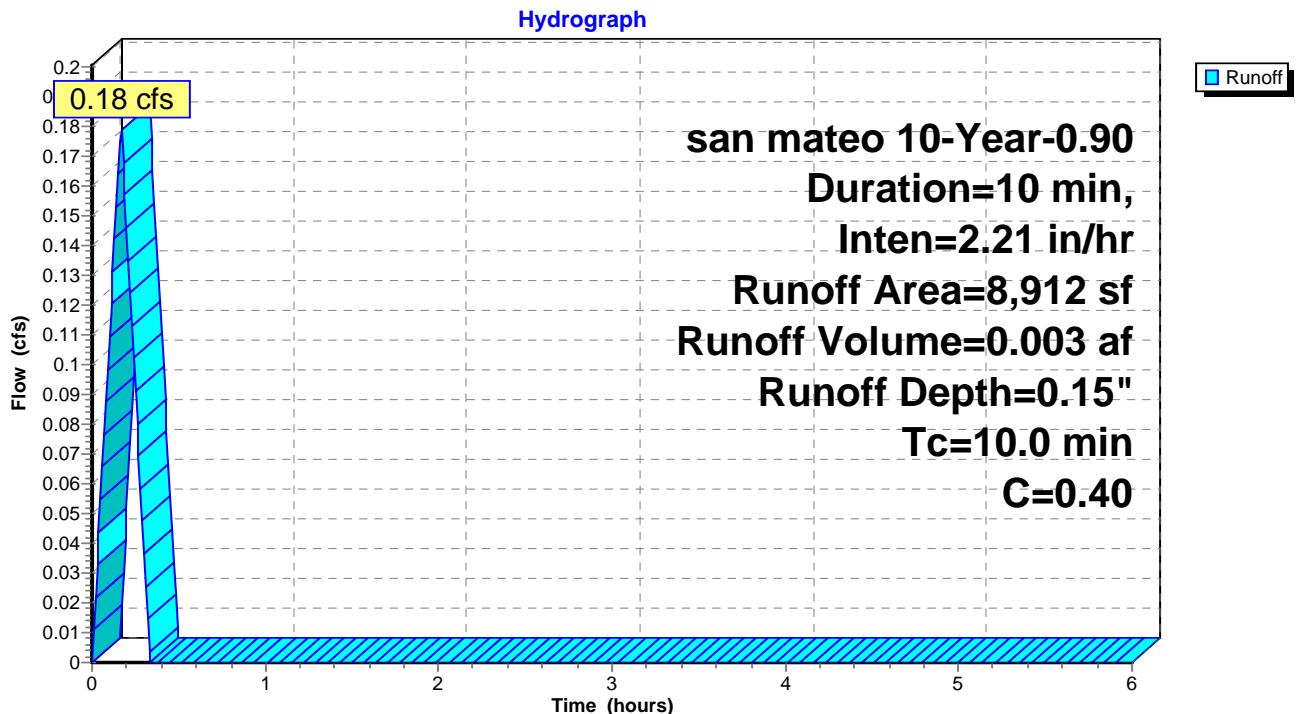
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**Hydrograph for Subcatchment 1S: Lots 7 Post**

Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)
0.00	0.00	2.65	0.00	5.30	0.00
0.05	0.10	2.70	0.00	5.35	0.00
0.10	0.20	2.75	0.00	5.40	0.00
0.15	<b>0.30</b>	2.80	0.00	5.45	0.00
0.20	<b>0.27</b>	2.85	0.00	5.50	0.00
0.25	0.17	2.90	0.00	5.55	0.00
0.30	0.07	2.95	0.00	5.60	0.00
0.35	0.00	3.00	0.00	5.65	0.00
0.40	0.00	3.05	0.00	5.70	0.00
0.45	0.00	3.10	0.00	5.75	0.00
0.50	0.00	3.15	0.00	5.80	0.00
0.55	0.00	3.20	0.00	5.85	0.00
0.60	0.00	3.25	0.00	5.90	0.00
0.65	0.00	3.30	0.00	5.95	0.00
0.70	0.00	3.35	0.00	6.00	0.00
0.75	0.00	3.40	0.00		
0.80	0.00	3.45	0.00		
0.85	0.00	3.50	0.00		
0.90	0.00	3.55	0.00		
0.95	0.00	3.60	0.00		
1.00	0.00	3.65	0.00		
1.05	0.00	3.70	0.00		
1.10	0.00	3.75	0.00		
1.15	0.00	3.80	0.00		
1.20	0.00	3.85	0.00		
1.25	0.00	3.90	0.00		
1.30	0.00	3.95	0.00		
1.35	0.00	4.00	0.00		
1.40	0.00	4.05	0.00		
1.45	0.00	4.10	0.00		
1.50	0.00	4.15	0.00		
1.55	0.00	4.20	0.00		
1.60	0.00	4.25	0.00		
1.65	0.00	4.30	0.00		
1.70	0.00	4.35	0.00		
1.75	0.00	4.40	0.00		
1.80	0.00	4.45	0.00		
1.85	0.00	4.50	0.00		
1.90	0.00	4.55	0.00		
1.95	0.00	4.60	0.00		
2.00	0.00	4.65	0.00		
2.05	0.00	4.70	0.00		
2.10	0.00	4.75	0.00		
2.15	0.00	4.80	0.00		
2.20	0.00	4.85	0.00		
2.25	0.00	4.90	0.00		
2.30	0.00	4.95	0.00		
2.35	0.00	5.00	0.00		
2.40	0.00	5.05	0.00		
2.45	0.00	5.10	0.00		
2.50	0.00	5.15	0.00		
2.55	0.00	5.20	0.00		
2.60	0.00	5.25	0.00		

**Subcatchment 6S: Lots 7 Pre**

**LOT 7**

san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr

Prepared by {enter your company name here}

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**Hydrograph for Subcatchment 6S: Lots 7 Pre**

Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)
0.00	0.00	2.65	0.00	5.30	0.00
0.05	0.05	2.70	0.00	5.35	0.00
0.10	0.11	2.75	0.00	5.40	0.00
0.15	0.16	2.80	0.00	5.45	0.00
0.20	0.15	2.85	0.00	5.50	0.00
0.25	0.09	2.90	0.00	5.55	0.00
0.30	0.04	2.95	0.00	5.60	0.00
0.35	0.00	3.00	0.00	5.65	0.00
0.40	0.00	3.05	0.00	5.70	0.00
0.45	0.00	3.10	0.00	5.75	0.00
0.50	0.00	3.15	0.00	5.80	0.00
0.55	0.00	3.20	0.00	5.85	0.00
0.60	0.00	3.25	0.00	5.90	0.00
0.65	0.00	3.30	0.00	5.95	0.00
0.70	0.00	3.35	0.00	6.00	0.00
0.75	0.00	3.40	0.00		
0.80	0.00	3.45	0.00		
0.85	0.00	3.50	0.00		
0.90	0.00	3.55	0.00		
0.95	0.00	3.60	0.00		
1.00	0.00	3.65	0.00		
1.05	0.00	3.70	0.00		
1.10	0.00	3.75	0.00		
1.15	0.00	3.80	0.00		
1.20	0.00	3.85	0.00		
1.25	0.00	3.90	0.00		
1.30	0.00	3.95	0.00		
1.35	0.00	4.00	0.00		
1.40	0.00	4.05	0.00		
1.45	0.00	4.10	0.00		
1.50	0.00	4.15	0.00		
1.55	0.00	4.20	0.00		
1.60	0.00	4.25	0.00		
1.65	0.00	4.30	0.00		
1.70	0.00	4.35	0.00		
1.75	0.00	4.40	0.00		
1.80	0.00	4.45	0.00		
1.85	0.00	4.50	0.00		
1.90	0.00	4.55	0.00		
1.95	0.00	4.60	0.00		
2.00	0.00	4.65	0.00		
2.05	0.00	4.70	0.00		
2.10	0.00	4.75	0.00		
2.15	0.00	4.80	0.00		
2.20	0.00	4.85	0.00		
2.25	0.00	4.90	0.00		
2.30	0.00	4.95	0.00		
2.35	0.00	5.00	0.00		
2.40	0.00	5.05	0.00		
2.45	0.00	5.10	0.00		
2.50	0.00	5.15	0.00		
2.55	0.00	5.20	0.00		
2.60	0.00	5.25	0.00		

**LOT 7**

*san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr*

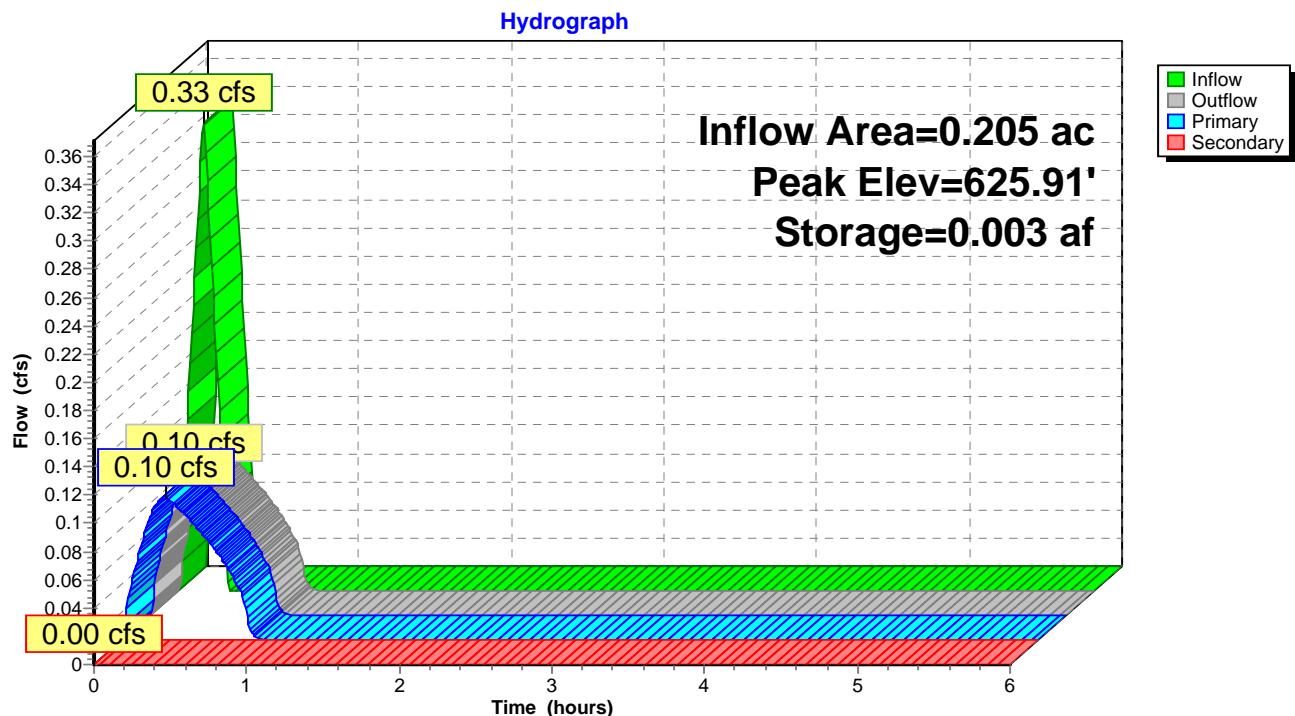
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Page 5

### Pond 5P: detention basin



**LOT 7**

san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr

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**Hydrograph for Pond 5P: detention basin**

Time (hours)	Inflow (cfs)	Storage (acre-feet)	Elevation (feet)	Outflow (cfs)	Primary (cfs)	Secondary (cfs)
0.00	<b>0.00</b>	0.000	625.00	0.00	0.00	<b>0.00</b>
0.20	<b>0.27</b>	<b>0.002</b>	<b>625.76</b>	<b>0.09</b>	<b>0.09</b>	0.00
0.40	0.00	<b>0.002</b>	<b>625.74</b>	<b>0.09</b>	<b>0.09</b>	0.00
0.60	0.00	0.001	625.38	0.07	0.07	0.00
0.80	0.00	0.000	625.07	0.03	0.03	0.00
1.00	0.00	0.000	625.00	0.00	0.00	0.00
1.20	0.00	0.000	625.00	0.00	0.00	0.00
1.40	0.00	0.000	625.00	0.00	0.00	0.00
1.60	0.00	0.000	625.00	0.00	0.00	0.00
1.80	0.00	0.000	625.00	0.00	0.00	0.00
2.00	0.00	0.000	625.00	0.00	0.00	0.00
2.20	0.00	0.000	625.00	0.00	0.00	0.00
2.40	0.00	0.000	625.00	0.00	0.00	0.00
2.60	0.00	0.000	625.00	0.00	0.00	0.00
2.80	0.00	0.000	625.00	0.00	0.00	0.00
3.00	0.00	0.000	625.00	0.00	0.00	0.00
3.20	0.00	0.000	625.00	0.00	0.00	0.00
3.40	0.00	0.000	625.00	0.00	0.00	0.00
3.60	0.00	0.000	625.00	0.00	0.00	0.00
3.80	0.00	0.000	625.00	0.00	0.00	0.00
4.00	0.00	0.000	625.00	0.00	0.00	0.00
4.20	0.00	0.000	625.00	0.00	0.00	0.00
4.40	0.00	0.000	625.00	0.00	0.00	0.00
4.60	0.00	0.000	625.00	0.00	0.00	0.00
4.80	0.00	0.000	625.00	0.00	0.00	0.00
5.00	0.00	0.000	625.00	0.00	0.00	0.00
5.20	0.00	0.000	625.00	0.00	0.00	0.00
5.40	0.00	0.000	625.00	0.00	0.00	0.00
5.60	0.00	0.000	625.00	0.00	0.00	0.00
5.80	0.00	0.000	625.00	0.00	0.00	0.00
6.00	0.00	0.000	625.00	0.00	0.00	0.00

**LOT 8,13**

*san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr*

Prepared by {enter your company name here}

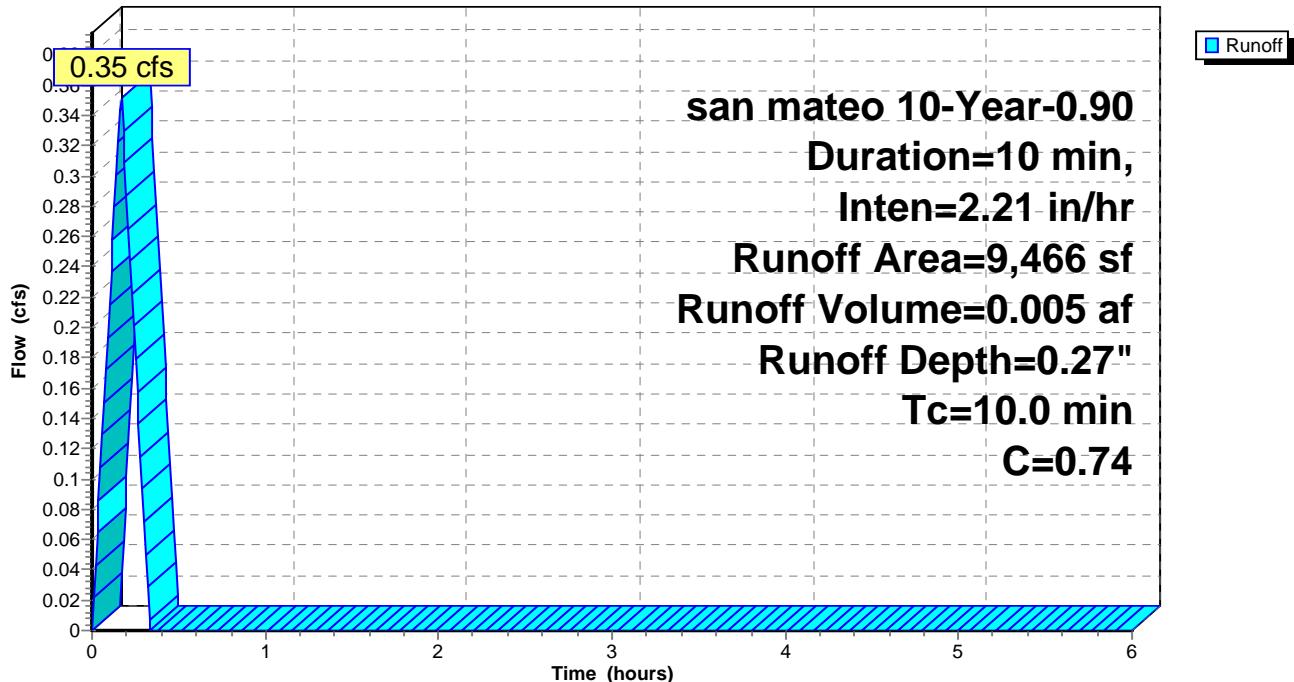
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Page 1

### Subcatchment 1S: Lot 8,13 Post

Hydrograph



**LOT 8,13**

san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr

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**Hydrograph for Subcatchment 1S: Lot 8,13 Post**

Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)
0.00	0.00	2.65	0.00	5.30	0.00
0.05	0.11	2.70	0.00	5.35	0.00
0.10	0.22	2.75	0.00	5.40	0.00
0.15	<b>0.32</b>	2.80	0.00	5.45	0.00
0.20	<b>0.29</b>	2.85	0.00	5.50	0.00
0.25	0.18	2.90	0.00	5.55	0.00
0.30	0.07	2.95	0.00	5.60	0.00
0.35	0.00	3.00	0.00	5.65	0.00
0.40	0.00	3.05	0.00	5.70	0.00
0.45	0.00	3.10	0.00	5.75	0.00
0.50	0.00	3.15	0.00	5.80	0.00
0.55	0.00	3.20	0.00	5.85	0.00
0.60	0.00	3.25	0.00	5.90	0.00
0.65	0.00	3.30	0.00	5.95	0.00
0.70	0.00	3.35	0.00	6.00	0.00
0.75	0.00	3.40	0.00		
0.80	0.00	3.45	0.00		
0.85	0.00	3.50	0.00		
0.90	0.00	3.55	0.00		
0.95	0.00	3.60	0.00		
1.00	0.00	3.65	0.00		
1.05	0.00	3.70	0.00		
1.10	0.00	3.75	0.00		
1.15	0.00	3.80	0.00		
1.20	0.00	3.85	0.00		
1.25	0.00	3.90	0.00		
1.30	0.00	3.95	0.00		
1.35	0.00	4.00	0.00		
1.40	0.00	4.05	0.00		
1.45	0.00	4.10	0.00		
1.50	0.00	4.15	0.00		
1.55	0.00	4.20	0.00		
1.60	0.00	4.25	0.00		
1.65	0.00	4.30	0.00		
1.70	0.00	4.35	0.00		
1.75	0.00	4.40	0.00		
1.80	0.00	4.45	0.00		
1.85	0.00	4.50	0.00		
1.90	0.00	4.55	0.00		
1.95	0.00	4.60	0.00		
2.00	0.00	4.65	0.00		
2.05	0.00	4.70	0.00		
2.10	0.00	4.75	0.00		
2.15	0.00	4.80	0.00		
2.20	0.00	4.85	0.00		
2.25	0.00	4.90	0.00		
2.30	0.00	4.95	0.00		
2.35	0.00	5.00	0.00		
2.40	0.00	5.05	0.00		
2.45	0.00	5.10	0.00		
2.50	0.00	5.15	0.00		
2.55	0.00	5.20	0.00		
2.60	0.00	5.25	0.00		

**LOT 8,13**

*san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr*

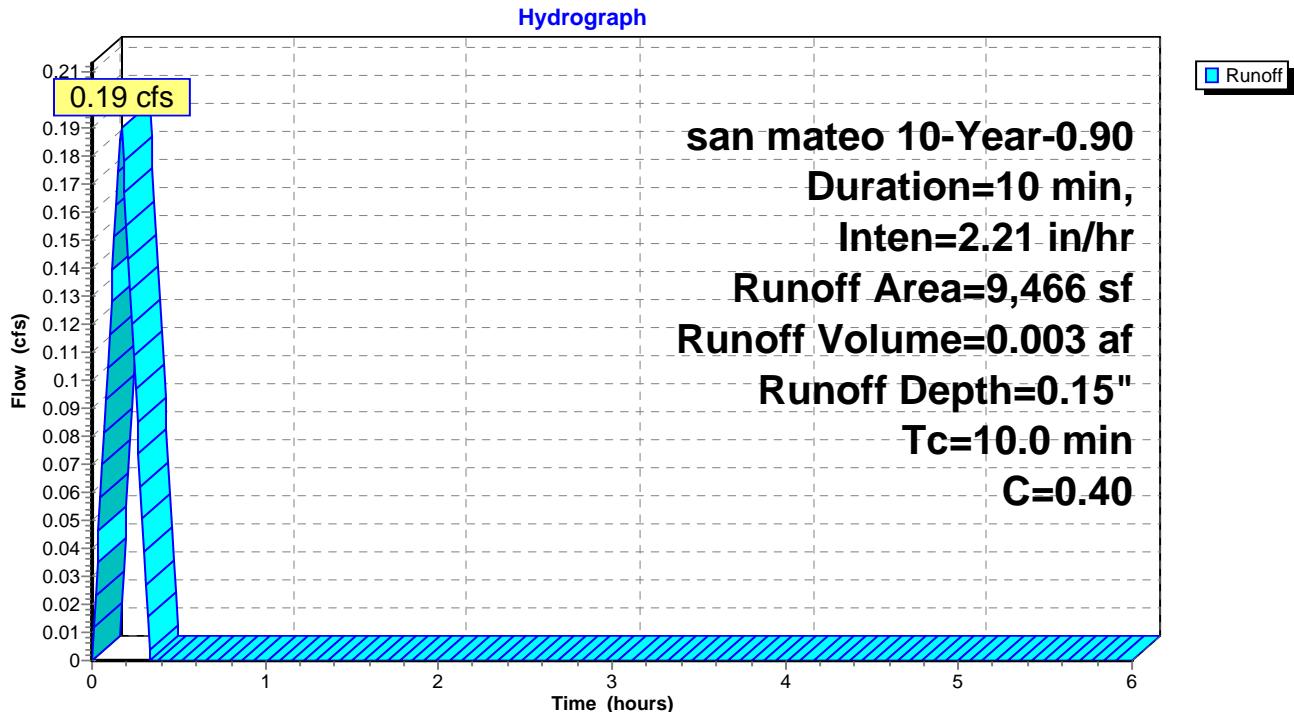
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### Subcatchment 6S: Lot 8,13 Pre



**Hydrograph for Subcatchment 6S: Lot 8,13 Pre**

Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)
0.00	0.00	2.65	0.00	5.30	0.00
0.05	0.06	2.70	0.00	5.35	0.00
0.10	0.12	2.75	0.00	5.40	0.00
0.15	<b>0.17</b>	2.80	0.00	5.45	0.00
0.20	<b>0.15</b>	2.85	0.00	5.50	0.00
0.25	0.10	2.90	0.00	5.55	0.00
0.30	0.04	2.95	0.00	5.60	0.00
0.35	0.00	3.00	0.00	5.65	0.00
0.40	0.00	3.05	0.00	5.70	0.00
0.45	0.00	3.10	0.00	5.75	0.00
0.50	0.00	3.15	0.00	5.80	0.00
0.55	0.00	3.20	0.00	5.85	0.00
0.60	0.00	3.25	0.00	5.90	0.00
0.65	0.00	3.30	0.00	5.95	0.00
0.70	0.00	3.35	0.00	6.00	0.00
0.75	0.00	3.40	0.00		
0.80	0.00	3.45	0.00		
0.85	0.00	3.50	0.00		
0.90	0.00	3.55	0.00		
0.95	0.00	3.60	0.00		
1.00	0.00	3.65	0.00		
1.05	0.00	3.70	0.00		
1.10	0.00	3.75	0.00		
1.15	0.00	3.80	0.00		
1.20	0.00	3.85	0.00		
1.25	0.00	3.90	0.00		
1.30	0.00	3.95	0.00		
1.35	0.00	4.00	0.00		
1.40	0.00	4.05	0.00		
1.45	0.00	4.10	0.00		
1.50	0.00	4.15	0.00		
1.55	0.00	4.20	0.00		
1.60	0.00	4.25	0.00		
1.65	0.00	4.30	0.00		
1.70	0.00	4.35	0.00		
1.75	0.00	4.40	0.00		
1.80	0.00	4.45	0.00		
1.85	0.00	4.50	0.00		
1.90	0.00	4.55	0.00		
1.95	0.00	4.60	0.00		
2.00	0.00	4.65	0.00		
2.05	0.00	4.70	0.00		
2.10	0.00	4.75	0.00		
2.15	0.00	4.80	0.00		
2.20	0.00	4.85	0.00		
2.25	0.00	4.90	0.00		
2.30	0.00	4.95	0.00		
2.35	0.00	5.00	0.00		
2.40	0.00	5.05	0.00		
2.45	0.00	5.10	0.00		
2.50	0.00	5.15	0.00		
2.55	0.00	5.20	0.00		
2.60	0.00	5.25	0.00		

**LOT 8,13**

*san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr*

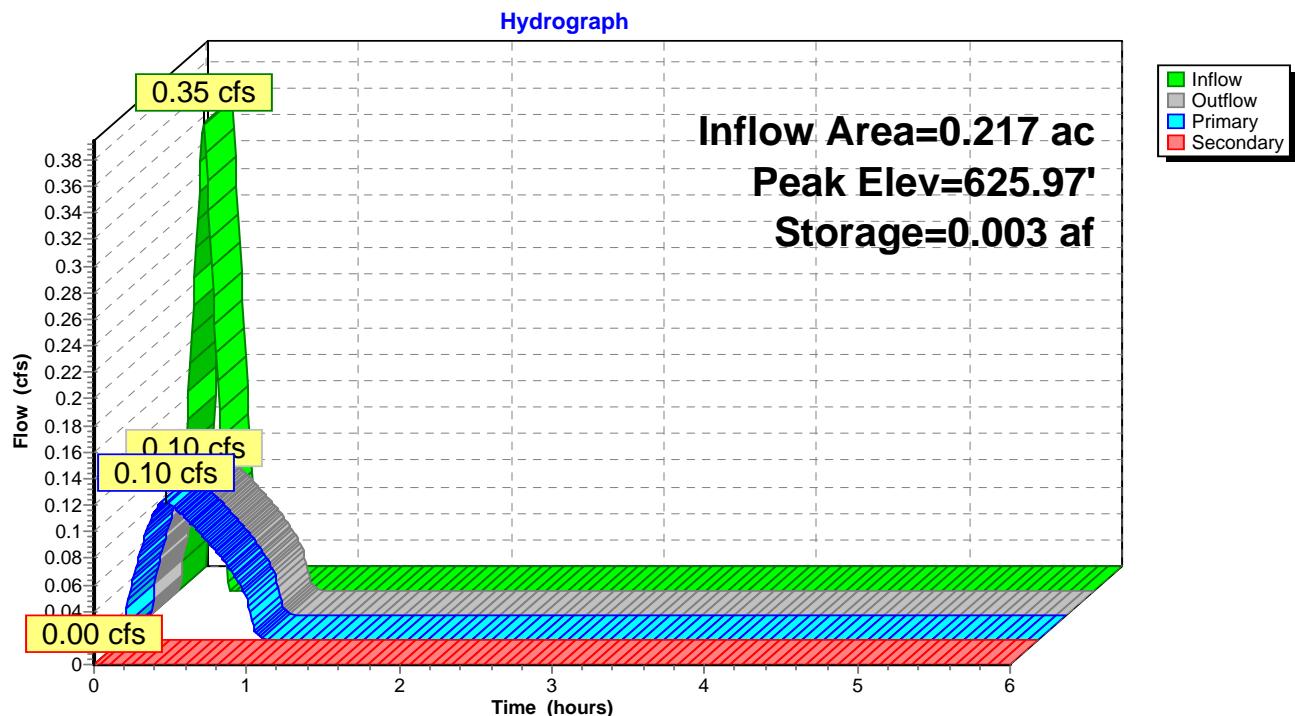
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Page 5

### Pond 5P: detention basin



**LOT 8,13**

san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr

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**Hydrograph for Pond 5P: detention basin**

Time (hours)	Inflow (cfs)	Storage (acre-feet)	Elevation (feet)	Outflow (cfs)	Primary (cfs)	Secondary (cfs)
0.00	<b>0.00</b>	0.000	625.00	0.00	0.00	<b>0.00</b>
0.20	<b>0.29</b>	<b>0.002</b>	<b>625.81</b>	<b>0.09</b>	<b>0.09</b>	0.00
0.40	0.00	<b>0.002</b>	<b>625.79</b>	<b>0.09</b>	<b>0.09</b>	0.00
0.60	0.00	0.001	625.43	0.07	0.07	0.00
0.80	0.00	0.000	625.11	0.04	0.04	0.00
1.00	0.00	0.000	625.00	0.00	0.00	0.00
1.20	0.00	0.000	625.00	0.00	0.00	0.00
1.40	0.00	0.000	625.00	0.00	0.00	0.00
1.60	0.00	0.000	625.00	0.00	0.00	0.00
1.80	0.00	0.000	625.00	0.00	0.00	0.00
2.00	0.00	0.000	625.00	0.00	0.00	0.00
2.20	0.00	0.000	625.00	0.00	0.00	0.00
2.40	0.00	0.000	625.00	0.00	0.00	0.00
2.60	0.00	0.000	625.00	0.00	0.00	0.00
2.80	0.00	0.000	625.00	0.00	0.00	0.00
3.00	0.00	0.000	625.00	0.00	0.00	0.00
3.20	0.00	0.000	625.00	0.00	0.00	0.00
3.40	0.00	0.000	625.00	0.00	0.00	0.00
3.60	0.00	0.000	625.00	0.00	0.00	0.00
3.80	0.00	0.000	625.00	0.00	0.00	0.00
4.00	0.00	0.000	625.00	0.00	0.00	0.00
4.20	0.00	0.000	625.00	0.00	0.00	0.00
4.40	0.00	0.000	625.00	0.00	0.00	0.00
4.60	0.00	0.000	625.00	0.00	0.00	0.00
4.80	0.00	0.000	625.00	0.00	0.00	0.00
5.00	0.00	0.000	625.00	0.00	0.00	0.00
5.20	0.00	0.000	625.00	0.00	0.00	0.00
5.40	0.00	0.000	625.00	0.00	0.00	0.00
5.60	0.00	0.000	625.00	0.00	0.00	0.00
5.80	0.00	0.000	625.00	0.00	0.00	0.00
6.00	0.00	0.000	625.00	0.00	0.00	0.00

**LOT 9,14**

*san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr*

Prepared by {enter your company name here}

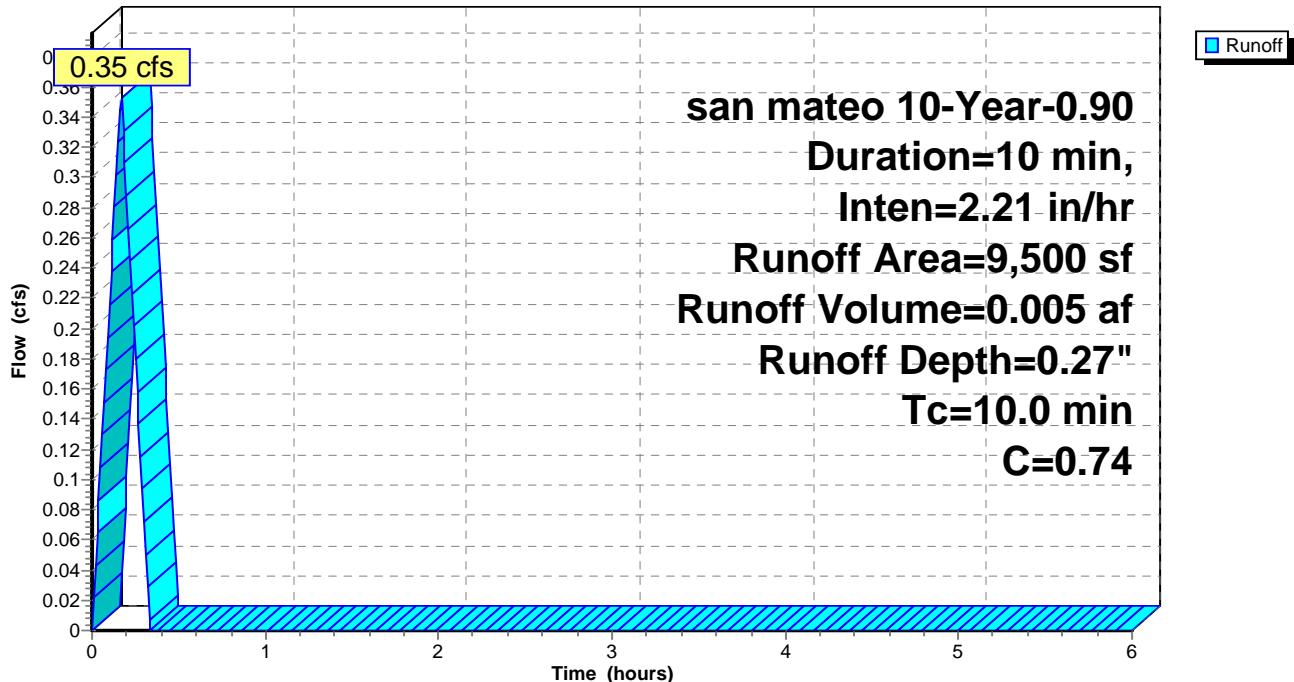
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Page 1

### Subcatchment 1S: Lots 9,14 Post

Hydrograph



**LOT 9,14**

san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr

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Page 2

**Hydrograph for Subcatchment 1S: Lots 9,14 Post**

Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)
0.00	0.00	2.65	0.00	5.30	0.00
0.05	0.11	2.70	0.00	5.35	0.00
0.10	0.22	2.75	0.00	5.40	0.00
0.15	<b>0.32</b>	2.80	0.00	5.45	0.00
0.20	<b>0.29</b>	2.85	0.00	5.50	0.00
0.25	0.18	2.90	0.00	5.55	0.00
0.30	0.07	2.95	0.00	5.60	0.00
0.35	0.00	3.00	0.00	5.65	0.00
0.40	0.00	3.05	0.00	5.70	0.00
0.45	0.00	3.10	0.00	5.75	0.00
0.50	0.00	3.15	0.00	5.80	0.00
0.55	0.00	3.20	0.00	5.85	0.00
0.60	0.00	3.25	0.00	5.90	0.00
0.65	0.00	3.30	0.00	5.95	0.00
0.70	0.00	3.35	0.00	6.00	0.00
0.75	0.00	3.40	0.00		
0.80	0.00	3.45	0.00		
0.85	0.00	3.50	0.00		
0.90	0.00	3.55	0.00		
0.95	0.00	3.60	0.00		
1.00	0.00	3.65	0.00		
1.05	0.00	3.70	0.00		
1.10	0.00	3.75	0.00		
1.15	0.00	3.80	0.00		
1.20	0.00	3.85	0.00		
1.25	0.00	3.90	0.00		
1.30	0.00	3.95	0.00		
1.35	0.00	4.00	0.00		
1.40	0.00	4.05	0.00		
1.45	0.00	4.10	0.00		
1.50	0.00	4.15	0.00		
1.55	0.00	4.20	0.00		
1.60	0.00	4.25	0.00		
1.65	0.00	4.30	0.00		
1.70	0.00	4.35	0.00		
1.75	0.00	4.40	0.00		
1.80	0.00	4.45	0.00		
1.85	0.00	4.50	0.00		
1.90	0.00	4.55	0.00		
1.95	0.00	4.60	0.00		
2.00	0.00	4.65	0.00		
2.05	0.00	4.70	0.00		
2.10	0.00	4.75	0.00		
2.15	0.00	4.80	0.00		
2.20	0.00	4.85	0.00		
2.25	0.00	4.90	0.00		
2.30	0.00	4.95	0.00		
2.35	0.00	5.00	0.00		
2.40	0.00	5.05	0.00		
2.45	0.00	5.10	0.00		
2.50	0.00	5.15	0.00		
2.55	0.00	5.20	0.00		
2.60	0.00	5.25	0.00		

**LOT 9,14**

*san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr*

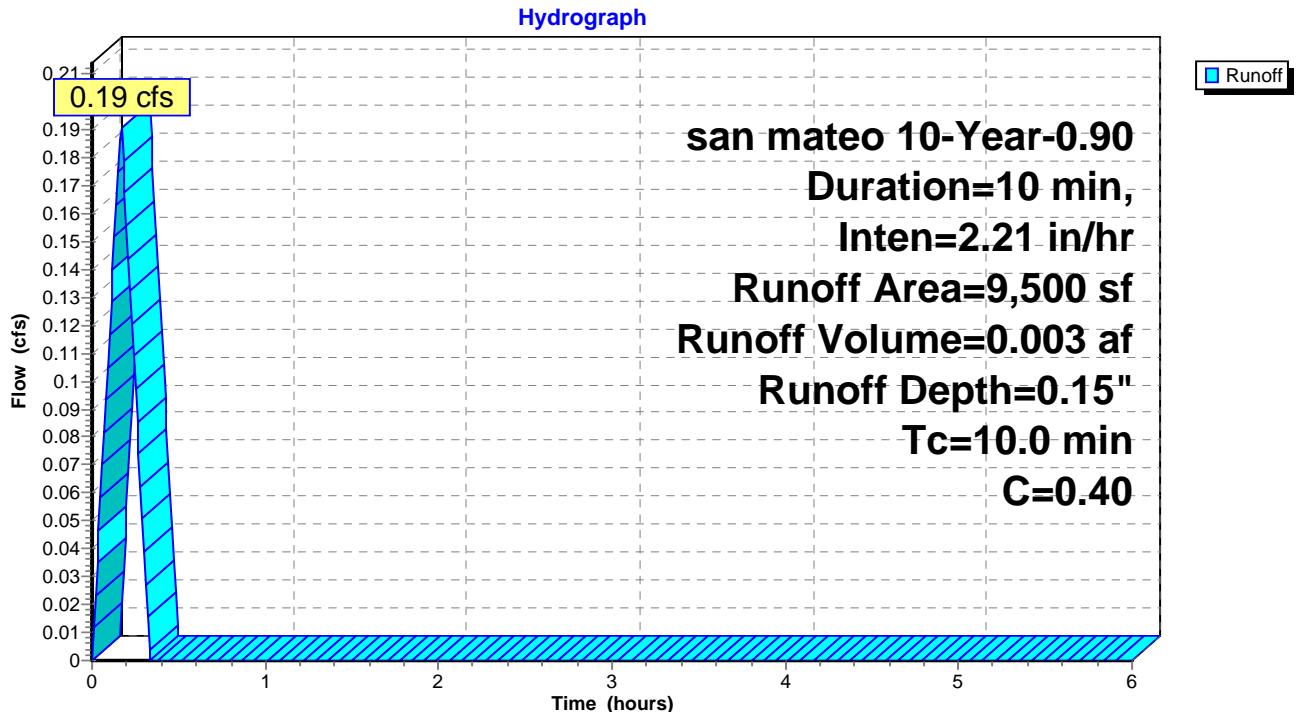
Prepared by {enter your company name here}

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Page 3

### **Subcatchment 6S: Lots 9,14 Pre**



**LOT 9,14**

san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr

Prepared by {enter your company name here}

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Page 4

**Hydrograph for Subcatchment 6S: Lots 9,14 Pre**

Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)
0.00	0.00	2.65	0.00	5.30	0.00
0.05	0.06	2.70	0.00	5.35	0.00
0.10	0.12	2.75	0.00	5.40	0.00
0.15	<b>0.17</b>	2.80	0.00	5.45	0.00
0.20	<b>0.16</b>	2.85	0.00	5.50	0.00
0.25	0.10	2.90	0.00	5.55	0.00
0.30	0.04	2.95	0.00	5.60	0.00
0.35	0.00	3.00	0.00	5.65	0.00
0.40	0.00	3.05	0.00	5.70	0.00
0.45	0.00	3.10	0.00	5.75	0.00
0.50	0.00	3.15	0.00	5.80	0.00
0.55	0.00	3.20	0.00	5.85	0.00
0.60	0.00	3.25	0.00	5.90	0.00
0.65	0.00	3.30	0.00	5.95	0.00
0.70	0.00	3.35	0.00	6.00	0.00
0.75	0.00	3.40	0.00		
0.80	0.00	3.45	0.00		
0.85	0.00	3.50	0.00		
0.90	0.00	3.55	0.00		
0.95	0.00	3.60	0.00		
1.00	0.00	3.65	0.00		
1.05	0.00	3.70	0.00		
1.10	0.00	3.75	0.00		
1.15	0.00	3.80	0.00		
1.20	0.00	3.85	0.00		
1.25	0.00	3.90	0.00		
1.30	0.00	3.95	0.00		
1.35	0.00	4.00	0.00		
1.40	0.00	4.05	0.00		
1.45	0.00	4.10	0.00		
1.50	0.00	4.15	0.00		
1.55	0.00	4.20	0.00		
1.60	0.00	4.25	0.00		
1.65	0.00	4.30	0.00		
1.70	0.00	4.35	0.00		
1.75	0.00	4.40	0.00		
1.80	0.00	4.45	0.00		
1.85	0.00	4.50	0.00		
1.90	0.00	4.55	0.00		
1.95	0.00	4.60	0.00		
2.00	0.00	4.65	0.00		
2.05	0.00	4.70	0.00		
2.10	0.00	4.75	0.00		
2.15	0.00	4.80	0.00		
2.20	0.00	4.85	0.00		
2.25	0.00	4.90	0.00		
2.30	0.00	4.95	0.00		
2.35	0.00	5.00	0.00		
2.40	0.00	5.05	0.00		
2.45	0.00	5.10	0.00		
2.50	0.00	5.15	0.00		
2.55	0.00	5.20	0.00		
2.60	0.00	5.25	0.00		

**LOT 9,14**

*san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr*

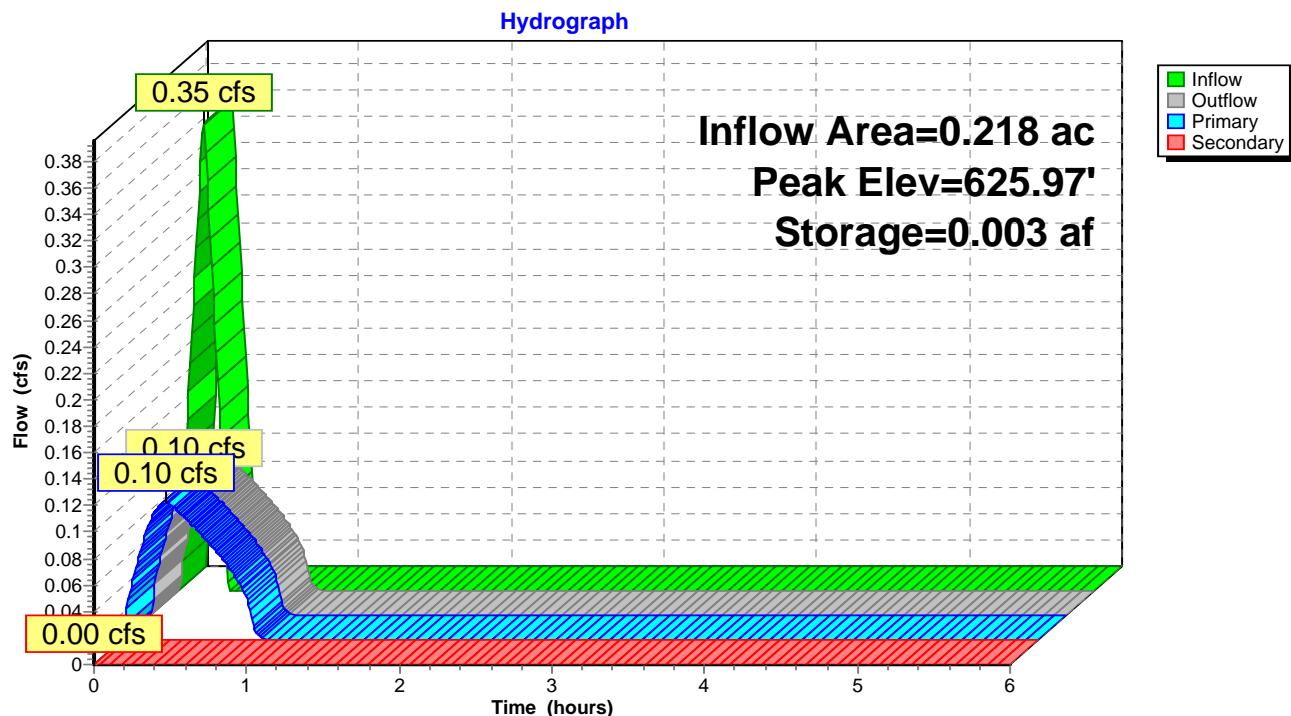
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Page 5

### Pond 5P: detention basin



**LOT 9,14**

san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr

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Page 6

**Hydrograph for Pond 5P: detention basin**

Time (hours)	Inflow (cfs)	Storage (acre-feet)	Elevation (feet)	Outflow (cfs)	Primary (cfs)	Secondary (cfs)
0.00	<b>0.00</b>	0.000	625.00	0.00	0.00	<b>0.00</b>
0.20	<b>0.29</b>	<b>0.002</b>	<b>625.81</b>	<b>0.09</b>	<b>0.09</b>	0.00
0.40	0.00	<b>0.002</b>	<b>625.79</b>	<b>0.09</b>	<b>0.09</b>	0.00
0.60	0.00	0.001	625.43	0.07	0.07	0.00
0.80	0.00	0.000	625.11	0.04	0.04	0.00
1.00	0.00	0.000	625.00	0.00	0.00	0.00
1.20	0.00	0.000	625.00	0.00	0.00	0.00
1.40	0.00	0.000	625.00	0.00	0.00	0.00
1.60	0.00	0.000	625.00	0.00	0.00	0.00
1.80	0.00	0.000	625.00	0.00	0.00	0.00
2.00	0.00	0.000	625.00	0.00	0.00	0.00
2.20	0.00	0.000	625.00	0.00	0.00	0.00
2.40	0.00	0.000	625.00	0.00	0.00	0.00
2.60	0.00	0.000	625.00	0.00	0.00	0.00
2.80	0.00	0.000	625.00	0.00	0.00	0.00
3.00	0.00	0.000	625.00	0.00	0.00	0.00
3.20	0.00	0.000	625.00	0.00	0.00	0.00
3.40	0.00	0.000	625.00	0.00	0.00	0.00
3.60	0.00	0.000	625.00	0.00	0.00	0.00
3.80	0.00	0.000	625.00	0.00	0.00	0.00
4.00	0.00	0.000	625.00	0.00	0.00	0.00
4.20	0.00	0.000	625.00	0.00	0.00	0.00
4.40	0.00	0.000	625.00	0.00	0.00	0.00
4.60	0.00	0.000	625.00	0.00	0.00	0.00
4.80	0.00	0.000	625.00	0.00	0.00	0.00
5.00	0.00	0.000	625.00	0.00	0.00	0.00
5.20	0.00	0.000	625.00	0.00	0.00	0.00
5.40	0.00	0.000	625.00	0.00	0.00	0.00
5.60	0.00	0.000	625.00	0.00	0.00	0.00
5.80	0.00	0.000	625.00	0.00	0.00	0.00
6.00	0.00	0.000	625.00	0.00	0.00	0.00

**LOT 10**

*san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr*

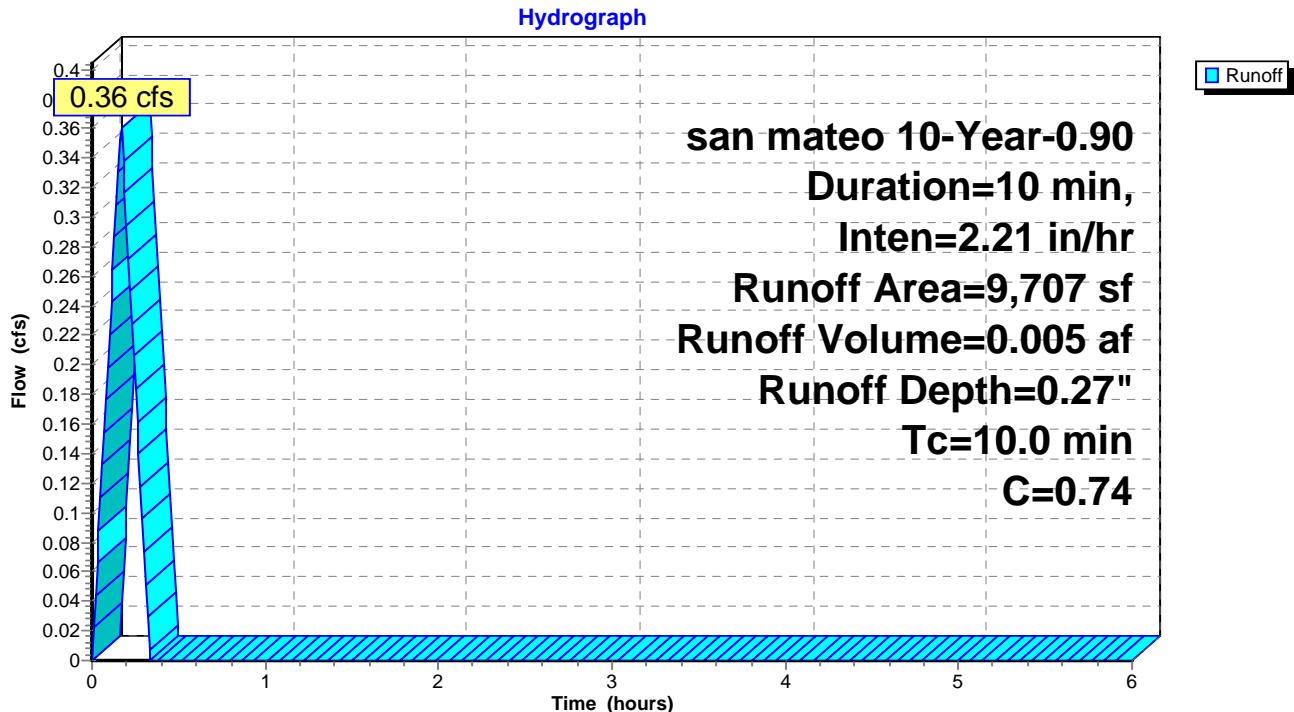
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Page 1

### Subcatchment 1S: Lots 10 Post



**LOT 10**

san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr

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Page 2

**Hydrograph for Subcatchment 1S: Lots 10 Post**

Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)
0.00	0.00	2.65	0.00	5.30	0.00
0.05	0.11	2.70	0.00	5.35	0.00
0.10	0.22	2.75	0.00	5.40	0.00
0.15	<b>0.33</b>	2.80	0.00	5.45	0.00
0.20	<b>0.29</b>	2.85	0.00	5.50	0.00
0.25	0.18	2.90	0.00	5.55	0.00
0.30	0.07	2.95	0.00	5.60	0.00
0.35	0.00	3.00	0.00	5.65	0.00
0.40	0.00	3.05	0.00	5.70	0.00
0.45	0.00	3.10	0.00	5.75	0.00
0.50	0.00	3.15	0.00	5.80	0.00
0.55	0.00	3.20	0.00	5.85	0.00
0.60	0.00	3.25	0.00	5.90	0.00
0.65	0.00	3.30	0.00	5.95	0.00
0.70	0.00	3.35	0.00	6.00	0.00
0.75	0.00	3.40	0.00		
0.80	0.00	3.45	0.00		
0.85	0.00	3.50	0.00		
0.90	0.00	3.55	0.00		
0.95	0.00	3.60	0.00		
1.00	0.00	3.65	0.00		
1.05	0.00	3.70	0.00		
1.10	0.00	3.75	0.00		
1.15	0.00	3.80	0.00		
1.20	0.00	3.85	0.00		
1.25	0.00	3.90	0.00		
1.30	0.00	3.95	0.00		
1.35	0.00	4.00	0.00		
1.40	0.00	4.05	0.00		
1.45	0.00	4.10	0.00		
1.50	0.00	4.15	0.00		
1.55	0.00	4.20	0.00		
1.60	0.00	4.25	0.00		
1.65	0.00	4.30	0.00		
1.70	0.00	4.35	0.00		
1.75	0.00	4.40	0.00		
1.80	0.00	4.45	0.00		
1.85	0.00	4.50	0.00		
1.90	0.00	4.55	0.00		
1.95	0.00	4.60	0.00		
2.00	0.00	4.65	0.00		
2.05	0.00	4.70	0.00		
2.10	0.00	4.75	0.00		
2.15	0.00	4.80	0.00		
2.20	0.00	4.85	0.00		
2.25	0.00	4.90	0.00		
2.30	0.00	4.95	0.00		
2.35	0.00	5.00	0.00		
2.40	0.00	5.05	0.00		
2.45	0.00	5.10	0.00		
2.50	0.00	5.15	0.00		
2.55	0.00	5.20	0.00		
2.60	0.00	5.25	0.00		

**LOT 10**

*san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr*

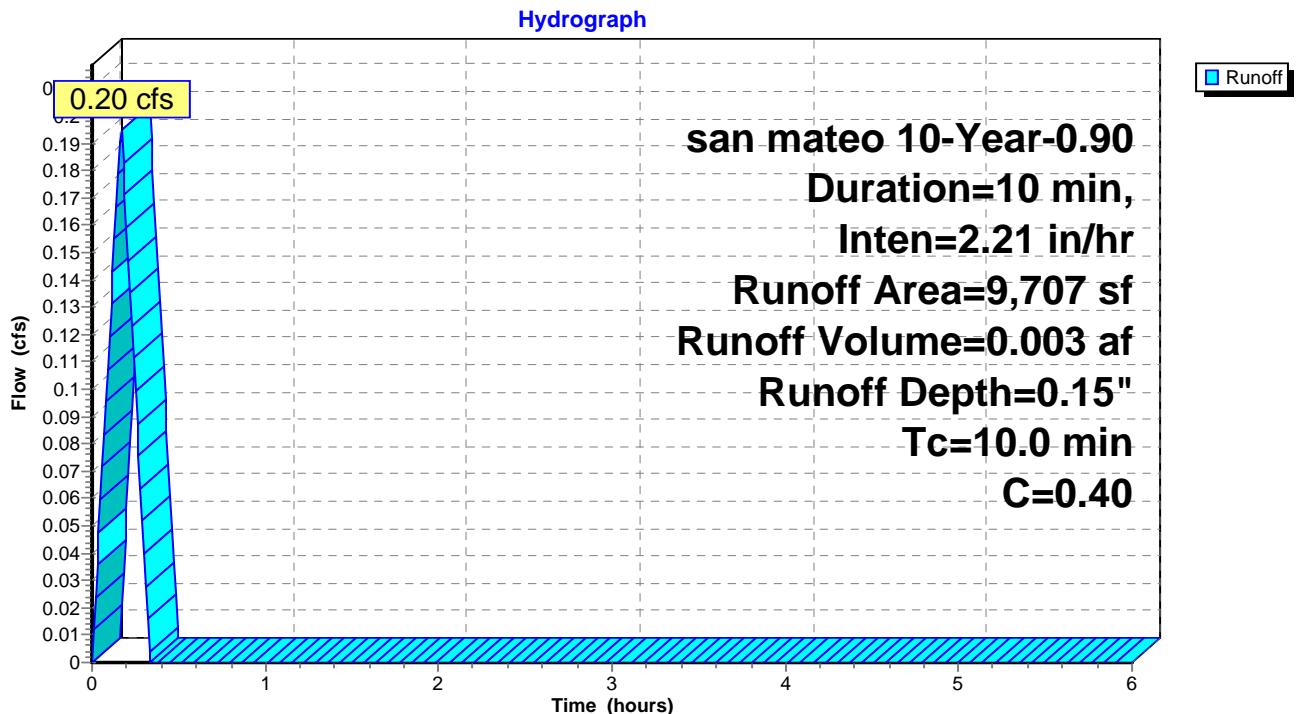
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Page 3

### Subcatchment 6S: Lots 10 Pre



**LOT 10**

san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr

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**Hydrograph for Subcatchment 6S: Lots 10 Pre**

Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)
0.00	0.00	2.65	0.00	5.30	0.00
0.05	0.06	2.70	0.00	5.35	0.00
0.10	0.12	2.75	0.00	5.40	0.00
0.15	<b>0.18</b>	2.80	0.00	5.45	0.00
0.20	<b>0.16</b>	2.85	0.00	5.50	0.00
0.25	0.10	2.90	0.00	5.55	0.00
0.30	0.04	2.95	0.00	5.60	0.00
0.35	0.00	3.00	0.00	5.65	0.00
0.40	0.00	3.05	0.00	5.70	0.00
0.45	0.00	3.10	0.00	5.75	0.00
0.50	0.00	3.15	0.00	5.80	0.00
0.55	0.00	3.20	0.00	5.85	0.00
0.60	0.00	3.25	0.00	5.90	0.00
0.65	0.00	3.30	0.00	5.95	0.00
0.70	0.00	3.35	0.00	6.00	0.00
0.75	0.00	3.40	0.00		
0.80	0.00	3.45	0.00		
0.85	0.00	3.50	0.00		
0.90	0.00	3.55	0.00		
0.95	0.00	3.60	0.00		
1.00	0.00	3.65	0.00		
1.05	0.00	3.70	0.00		
1.10	0.00	3.75	0.00		
1.15	0.00	3.80	0.00		
1.20	0.00	3.85	0.00		
1.25	0.00	3.90	0.00		
1.30	0.00	3.95	0.00		
1.35	0.00	4.00	0.00		
1.40	0.00	4.05	0.00		
1.45	0.00	4.10	0.00		
1.50	0.00	4.15	0.00		
1.55	0.00	4.20	0.00		
1.60	0.00	4.25	0.00		
1.65	0.00	4.30	0.00		
1.70	0.00	4.35	0.00		
1.75	0.00	4.40	0.00		
1.80	0.00	4.45	0.00		
1.85	0.00	4.50	0.00		
1.90	0.00	4.55	0.00		
1.95	0.00	4.60	0.00		
2.00	0.00	4.65	0.00		
2.05	0.00	4.70	0.00		
2.10	0.00	4.75	0.00		
2.15	0.00	4.80	0.00		
2.20	0.00	4.85	0.00		
2.25	0.00	4.90	0.00		
2.30	0.00	4.95	0.00		
2.35	0.00	5.00	0.00		
2.40	0.00	5.05	0.00		
2.45	0.00	5.10	0.00		
2.50	0.00	5.15	0.00		
2.55	0.00	5.20	0.00		
2.60	0.00	5.25	0.00		

**LOT 10**

*san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr*

Prepared by {enter your company name here}

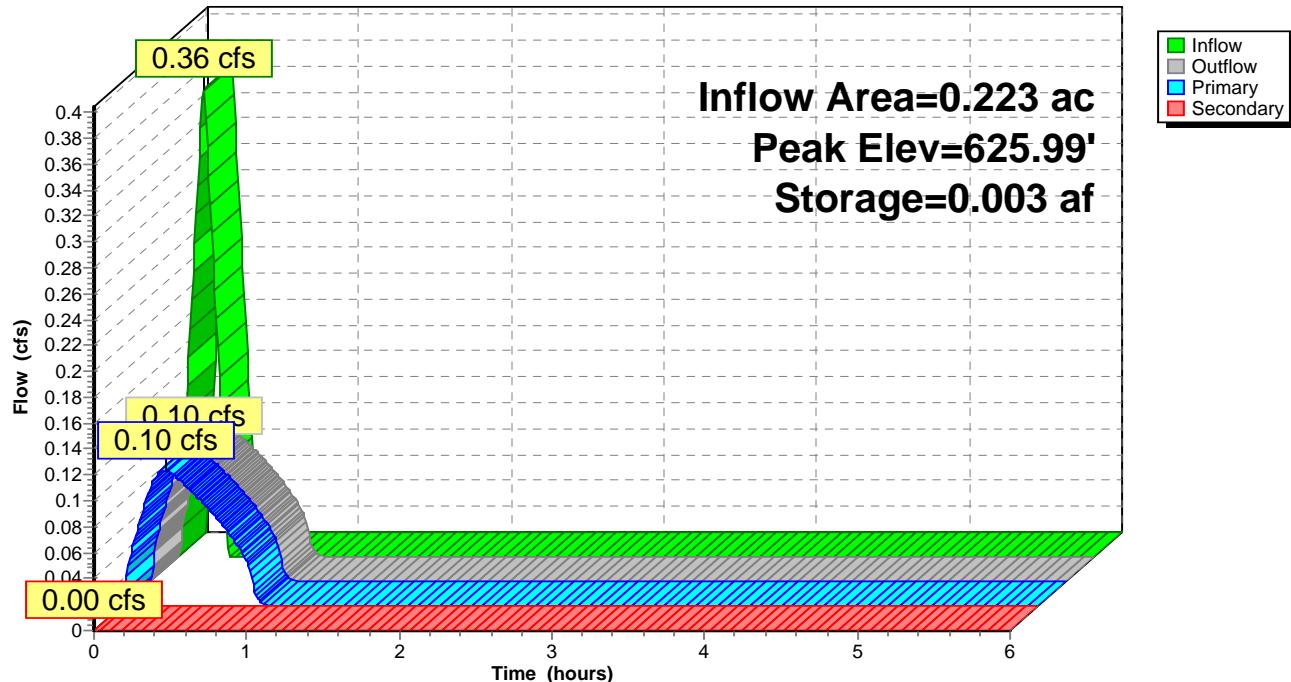
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Page 5

### Pond 5P: detention basin

Hydrograph



**LOT 10**

san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr

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**Hydrograph for Pond 5P: detention basin**

Time (hours)	Inflow (cfs)	Storage (acre-feet)	Elevation (feet)	Outflow (cfs)	Primary (cfs)	Secondary (cfs)
0.00	<b>0.00</b>	0.000	625.00	0.00	0.00	<b>0.00</b>
0.20	<b>0.29</b>	<b>0.003</b>	<b>625.82</b>	<b>0.10</b>	<b>0.10</b>	0.00
0.40	0.00	<b>0.002</b>	<b>625.81</b>	<b>0.09</b>	<b>0.09</b>	0.00
0.60	0.00	0.001	625.45	0.07	0.07	0.00
0.80	0.00	0.000	625.13	0.04	0.04	0.00
1.00	0.00	0.000	625.00	0.00	0.00	0.00
1.20	0.00	0.000	625.00	0.00	0.00	0.00
1.40	0.00	0.000	625.00	0.00	0.00	0.00
1.60	0.00	0.000	625.00	0.00	0.00	0.00
1.80	0.00	0.000	625.00	0.00	0.00	0.00
2.00	0.00	0.000	625.00	0.00	0.00	0.00
2.20	0.00	0.000	625.00	0.00	0.00	0.00
2.40	0.00	0.000	625.00	0.00	0.00	0.00
2.60	0.00	0.000	625.00	0.00	0.00	0.00
2.80	0.00	0.000	625.00	0.00	0.00	0.00
3.00	0.00	0.000	625.00	0.00	0.00	0.00
3.20	0.00	0.000	625.00	0.00	0.00	0.00
3.40	0.00	0.000	625.00	0.00	0.00	0.00
3.60	0.00	0.000	625.00	0.00	0.00	0.00
3.80	0.00	0.000	625.00	0.00	0.00	0.00
4.00	0.00	0.000	625.00	0.00	0.00	0.00
4.20	0.00	0.000	625.00	0.00	0.00	0.00
4.40	0.00	0.000	625.00	0.00	0.00	0.00
4.60	0.00	0.000	625.00	0.00	0.00	0.00
4.80	0.00	0.000	625.00	0.00	0.00	0.00
5.00	0.00	0.000	625.00	0.00	0.00	0.00
5.20	0.00	0.000	625.00	0.00	0.00	0.00
5.40	0.00	0.000	625.00	0.00	0.00	0.00
5.60	0.00	0.000	625.00	0.00	0.00	0.00
5.80	0.00	0.000	625.00	0.00	0.00	0.00
6.00	0.00	0.000	625.00	0.00	0.00	0.00

**LOT 11**

*san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr*

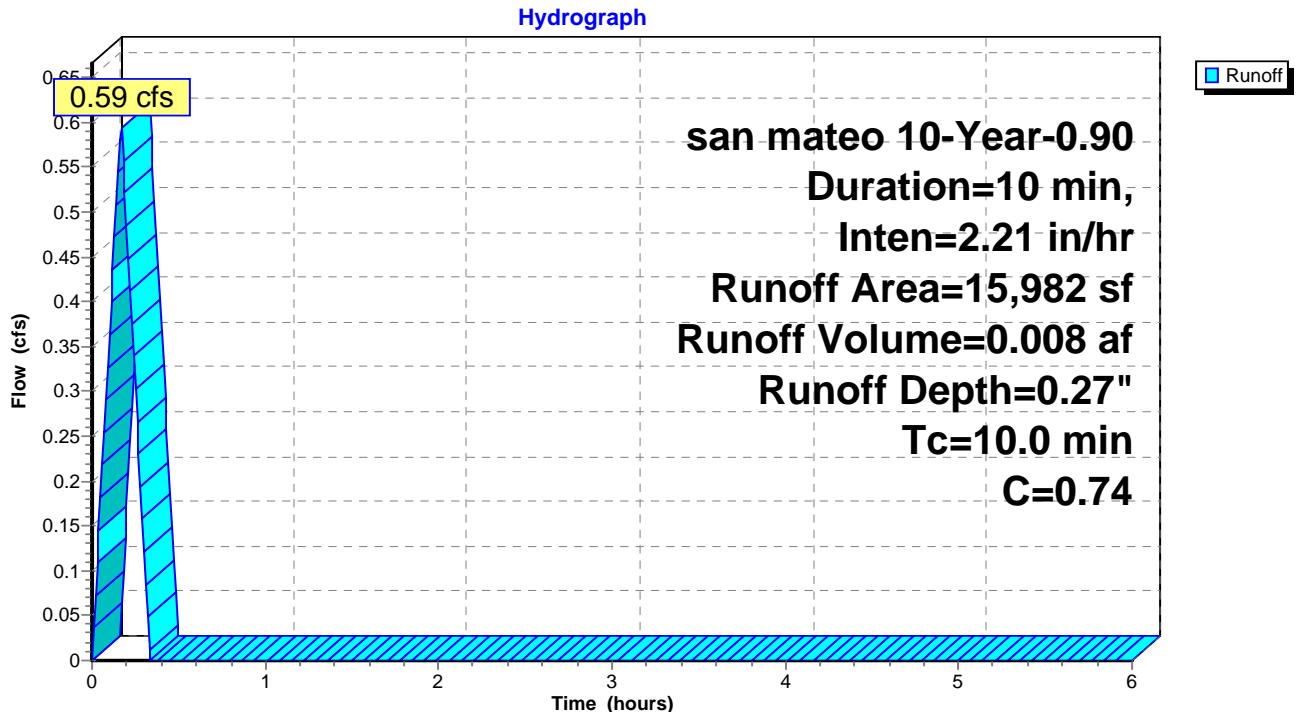
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Page 1

### Subcatchment 1S: Lots 11 Post



**LOT 11**

san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr

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Page 2

**Hydrograph for Subcatchment 1S: Lots 11 Post**

Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)
0.00	0.00	2.65	0.00	5.30	0.00
0.05	0.18	2.70	0.00	5.35	0.00
0.10	0.36	2.75	0.00	5.40	0.00
0.15	<b>0.54</b>	2.80	0.00	5.45	0.00
0.20	<b>0.48</b>	2.85	0.00	5.50	0.00
0.25	0.30	2.90	0.00	5.55	0.00
0.30	0.12	2.95	0.00	5.60	0.00
0.35	0.00	3.00	0.00	5.65	0.00
0.40	0.00	3.05	0.00	5.70	0.00
0.45	0.00	3.10	0.00	5.75	0.00
0.50	0.00	3.15	0.00	5.80	0.00
0.55	0.00	3.20	0.00	5.85	0.00
0.60	0.00	3.25	0.00	5.90	0.00
0.65	0.00	3.30	0.00	5.95	0.00
0.70	0.00	3.35	0.00	6.00	0.00
0.75	0.00	3.40	0.00		
0.80	0.00	3.45	0.00		
0.85	0.00	3.50	0.00		
0.90	0.00	3.55	0.00		
0.95	0.00	3.60	0.00		
1.00	0.00	3.65	0.00		
1.05	0.00	3.70	0.00		
1.10	0.00	3.75	0.00		
1.15	0.00	3.80	0.00		
1.20	0.00	3.85	0.00		
1.25	0.00	3.90	0.00		
1.30	0.00	3.95	0.00		
1.35	0.00	4.00	0.00		
1.40	0.00	4.05	0.00		
1.45	0.00	4.10	0.00		
1.50	0.00	4.15	0.00		
1.55	0.00	4.20	0.00		
1.60	0.00	4.25	0.00		
1.65	0.00	4.30	0.00		
1.70	0.00	4.35	0.00		
1.75	0.00	4.40	0.00		
1.80	0.00	4.45	0.00		
1.85	0.00	4.50	0.00		
1.90	0.00	4.55	0.00		
1.95	0.00	4.60	0.00		
2.00	0.00	4.65	0.00		
2.05	0.00	4.70	0.00		
2.10	0.00	4.75	0.00		
2.15	0.00	4.80	0.00		
2.20	0.00	4.85	0.00		
2.25	0.00	4.90	0.00		
2.30	0.00	4.95	0.00		
2.35	0.00	5.00	0.00		
2.40	0.00	5.05	0.00		
2.45	0.00	5.10	0.00		
2.50	0.00	5.15	0.00		
2.55	0.00	5.20	0.00		
2.60	0.00	5.25	0.00		

**LOT 11**

*san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr*

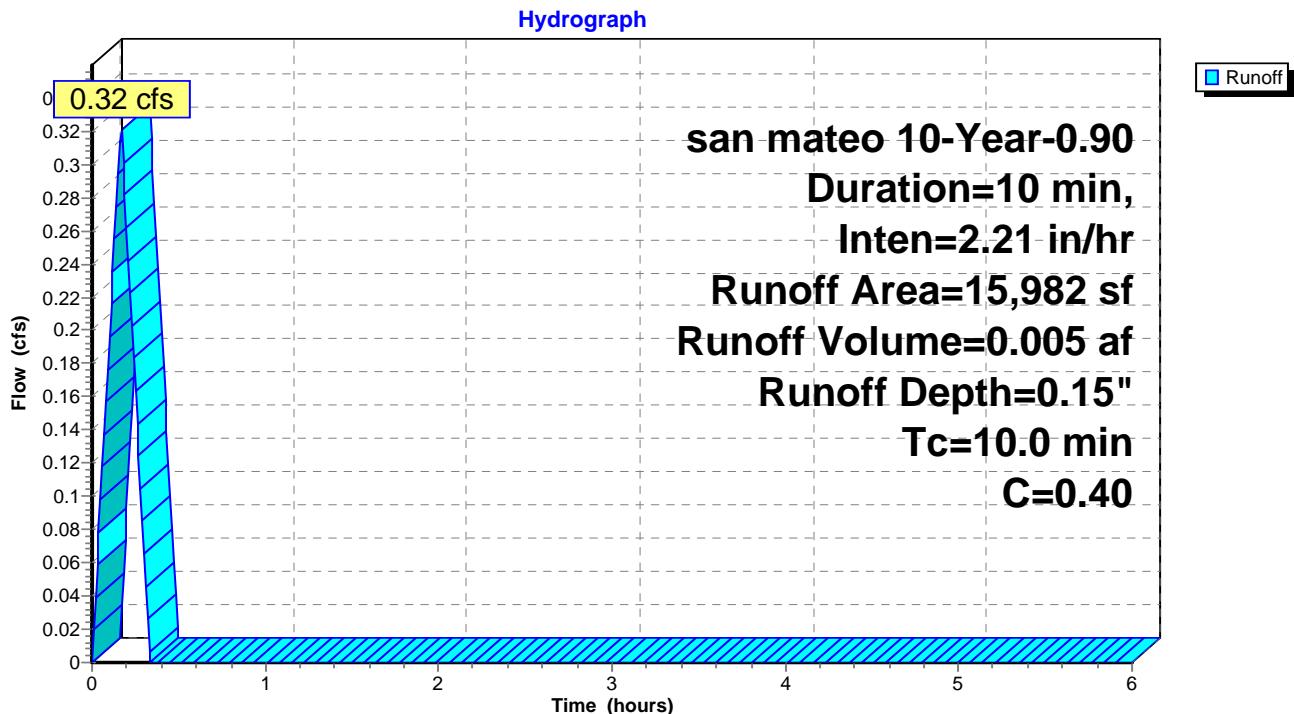
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Page 3

### Subcatchment 6S: Lots 11 Pre



**LOT 11**

san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr

Prepared by {enter your company name here}

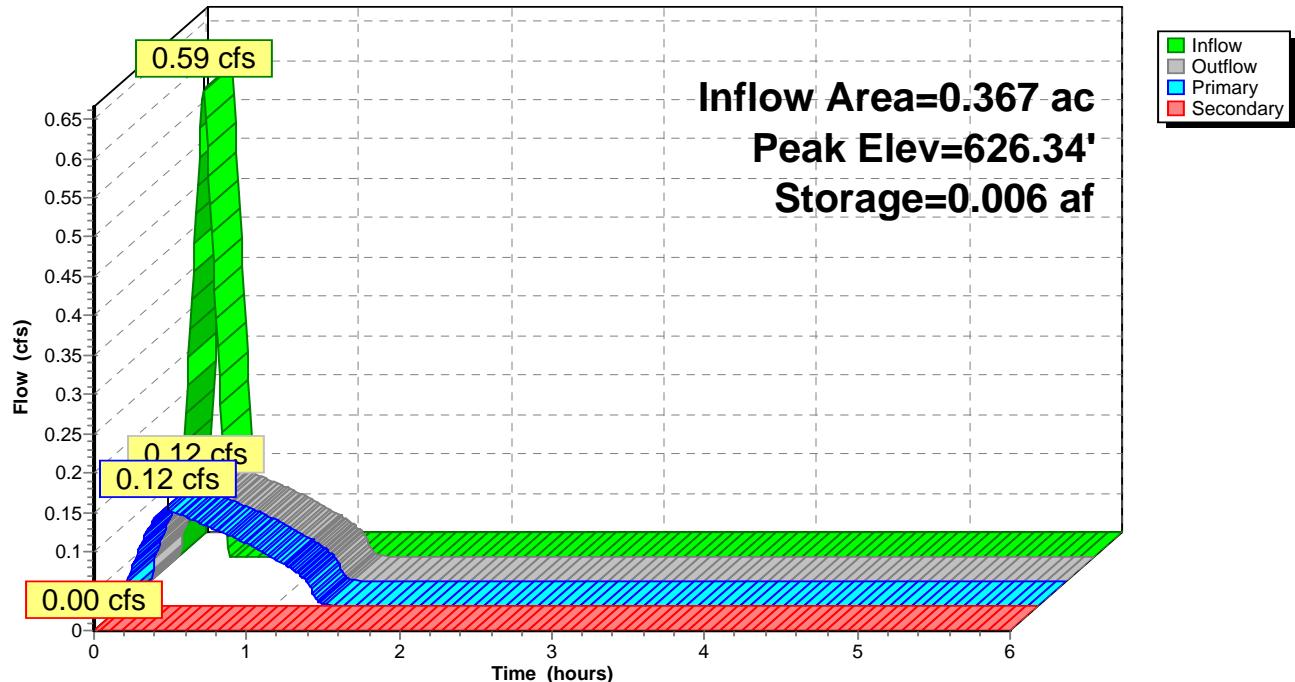
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Page 4

**Hydrograph for Subcatchment 6S: Lots 11 Pre**

Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)
0.00	0.00	2.65	0.00	5.30	0.00
0.05	0.10	2.70	0.00	5.35	0.00
0.10	0.20	2.75	0.00	5.40	0.00
0.15	<b>0.29</b>	2.80	0.00	5.45	0.00
0.20	<b>0.26</b>	2.85	0.00	5.50	0.00
0.25	0.16	2.90	0.00	5.55	0.00
0.30	0.07	2.95	0.00	5.60	0.00
0.35	0.00	3.00	0.00	5.65	0.00
0.40	0.00	3.05	0.00	5.70	0.00
0.45	0.00	3.10	0.00	5.75	0.00
0.50	0.00	3.15	0.00	5.80	0.00
0.55	0.00	3.20	0.00	5.85	0.00
0.60	0.00	3.25	0.00	5.90	0.00
0.65	0.00	3.30	0.00	5.95	0.00
0.70	0.00	3.35	0.00	6.00	0.00
0.75	0.00	3.40	0.00		
0.80	0.00	3.45	0.00		
0.85	0.00	3.50	0.00		
0.90	0.00	3.55	0.00		
0.95	0.00	3.60	0.00		
1.00	0.00	3.65	0.00		
1.05	0.00	3.70	0.00		
1.10	0.00	3.75	0.00		
1.15	0.00	3.80	0.00		
1.20	0.00	3.85	0.00		
1.25	0.00	3.90	0.00		
1.30	0.00	3.95	0.00		
1.35	0.00	4.00	0.00		
1.40	0.00	4.05	0.00		
1.45	0.00	4.10	0.00		
1.50	0.00	4.15	0.00		
1.55	0.00	4.20	0.00		
1.60	0.00	4.25	0.00		
1.65	0.00	4.30	0.00		
1.70	0.00	4.35	0.00		
1.75	0.00	4.40	0.00		
1.80	0.00	4.45	0.00		
1.85	0.00	4.50	0.00		
1.90	0.00	4.55	0.00		
1.95	0.00	4.60	0.00		
2.00	0.00	4.65	0.00		
2.05	0.00	4.70	0.00		
2.10	0.00	4.75	0.00		
2.15	0.00	4.80	0.00		
2.20	0.00	4.85	0.00		
2.25	0.00	4.90	0.00		
2.30	0.00	4.95	0.00		
2.35	0.00	5.00	0.00		
2.40	0.00	5.05	0.00		
2.45	0.00	5.10	0.00		
2.50	0.00	5.15	0.00		
2.55	0.00	5.20	0.00		
2.60	0.00	5.25	0.00		

**Pond 5P: detention basin****Hydrograph**

**LOT 11**

san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr

Prepared by {enter your company name here}

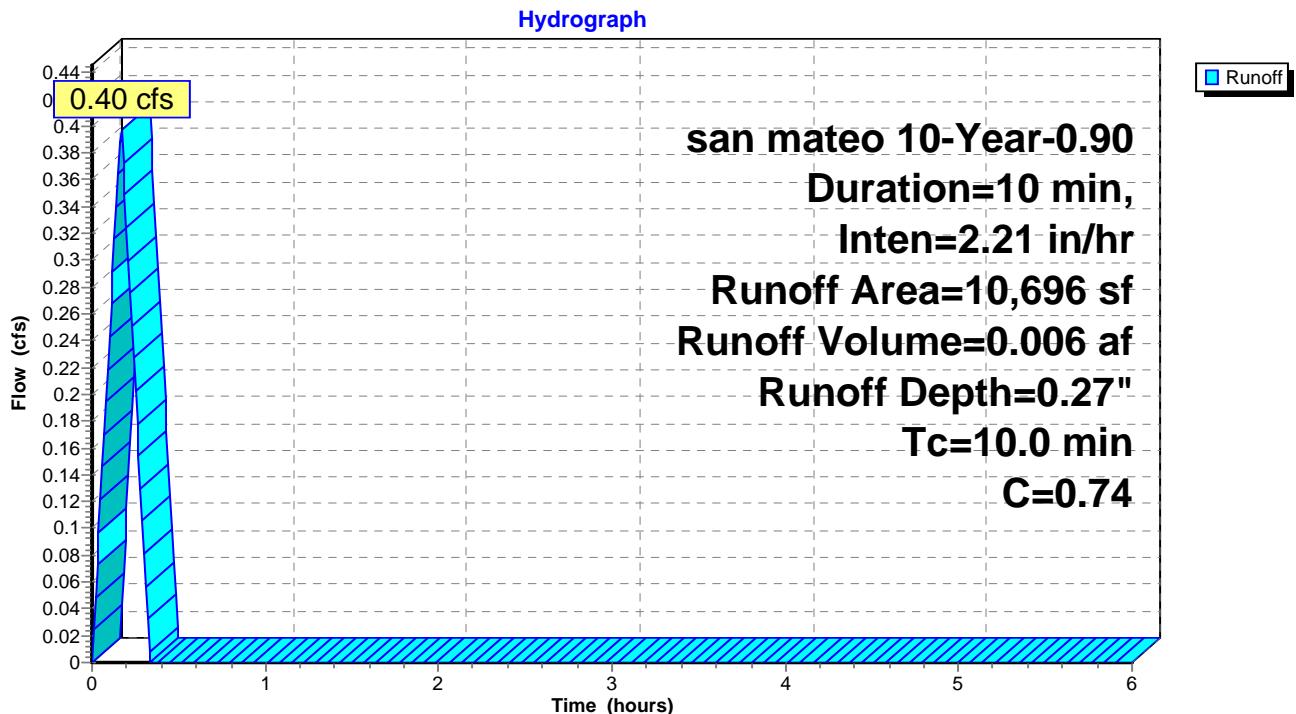
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**Hydrograph for Pond 5P: detention basin**

Time (hours)	Inflow (cfs)	Storage (acre-feet)	Elevation (feet)	Outflow (cfs)	Primary (cfs)	Secondary (cfs)
0.00	<b>0.00</b>	0.000	625.00	0.00	0.00	<b>0.00</b>
0.20	<b>0.48</b>	<b>0.005</b>	<b>626.05</b>	<b>0.11</b>	<b>0.11</b>	0.00
0.40	0.00	<b>0.005</b>	<b>626.19</b>	<b>0.11</b>	<b>0.11</b>	0.00
0.60	0.00	0.004	625.87	0.10	0.10	0.00
0.80	0.00	0.002	625.59	0.08	0.08	0.00
1.00	0.00	0.001	625.33	0.06	0.06	0.00
1.20	0.00	0.000	625.10	0.03	0.03	0.00
1.40	0.00	0.000	625.00	0.00	0.00	0.00
1.60	0.00	0.000	625.00	0.00	0.00	0.00
1.80	0.00	0.000	625.00	0.00	0.00	0.00
2.00	0.00	0.000	625.00	0.00	0.00	0.00
2.20	0.00	0.000	625.00	0.00	0.00	0.00
2.40	0.00	0.000	625.00	0.00	0.00	0.00
2.60	0.00	0.000	625.00	0.00	0.00	0.00
2.80	0.00	0.000	625.00	0.00	0.00	0.00
3.00	0.00	0.000	625.00	0.00	0.00	0.00
3.20	0.00	0.000	625.00	0.00	0.00	0.00
3.40	0.00	0.000	625.00	0.00	0.00	0.00
3.60	0.00	0.000	625.00	0.00	0.00	0.00
3.80	0.00	0.000	625.00	0.00	0.00	0.00
4.00	0.00	0.000	625.00	0.00	0.00	0.00
4.20	0.00	0.000	625.00	0.00	0.00	0.00
4.40	0.00	0.000	625.00	0.00	0.00	0.00
4.60	0.00	0.000	625.00	0.00	0.00	0.00
4.80	0.00	0.000	625.00	0.00	0.00	0.00
5.00	0.00	0.000	625.00	0.00	0.00	0.00
5.20	0.00	0.000	625.00	0.00	0.00	0.00
5.40	0.00	0.000	625.00	0.00	0.00	0.00
5.60	0.00	0.000	625.00	0.00	0.00	0.00
5.80	0.00	0.000	625.00	0.00	0.00	0.00
6.00	0.00	0.000	625.00	0.00	0.00	0.00

**Subcatchment 1S: Lot 12 Post**

**LOT 12**

san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr

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**Hydrograph for Subcatchment 1S: Lot 12 Post**

Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)
0.00	0.00	2.65	0.00	5.30	0.00
0.05	0.12	2.70	0.00	5.35	0.00
0.10	0.24	2.75	0.00	5.40	0.00
0.15	<b>0.36</b>	2.80	0.00	5.45	0.00
0.20	<b>0.32</b>	2.85	0.00	5.50	0.00
0.25	0.20	2.90	0.00	5.55	0.00
0.30	0.08	2.95	0.00	5.60	0.00
0.35	0.00	3.00	0.00	5.65	0.00
0.40	0.00	3.05	0.00	5.70	0.00
0.45	0.00	3.10	0.00	5.75	0.00
0.50	0.00	3.15	0.00	5.80	0.00
0.55	0.00	3.20	0.00	5.85	0.00
0.60	0.00	3.25	0.00	5.90	0.00
0.65	0.00	3.30	0.00	5.95	0.00
0.70	0.00	3.35	0.00	6.00	0.00
0.75	0.00	3.40	0.00		
0.80	0.00	3.45	0.00		
0.85	0.00	3.50	0.00		
0.90	0.00	3.55	0.00		
0.95	0.00	3.60	0.00		
1.00	0.00	3.65	0.00		
1.05	0.00	3.70	0.00		
1.10	0.00	3.75	0.00		
1.15	0.00	3.80	0.00		
1.20	0.00	3.85	0.00		
1.25	0.00	3.90	0.00		
1.30	0.00	3.95	0.00		
1.35	0.00	4.00	0.00		
1.40	0.00	4.05	0.00		
1.45	0.00	4.10	0.00		
1.50	0.00	4.15	0.00		
1.55	0.00	4.20	0.00		
1.60	0.00	4.25	0.00		
1.65	0.00	4.30	0.00		
1.70	0.00	4.35	0.00		
1.75	0.00	4.40	0.00		
1.80	0.00	4.45	0.00		
1.85	0.00	4.50	0.00		
1.90	0.00	4.55	0.00		
1.95	0.00	4.60	0.00		
2.00	0.00	4.65	0.00		
2.05	0.00	4.70	0.00		
2.10	0.00	4.75	0.00		
2.15	0.00	4.80	0.00		
2.20	0.00	4.85	0.00		
2.25	0.00	4.90	0.00		
2.30	0.00	4.95	0.00		
2.35	0.00	5.00	0.00		
2.40	0.00	5.05	0.00		
2.45	0.00	5.10	0.00		
2.50	0.00	5.15	0.00		
2.55	0.00	5.20	0.00		
2.60	0.00	5.25	0.00		

**LOT 12**

*san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr*

Prepared by {enter your company name here}

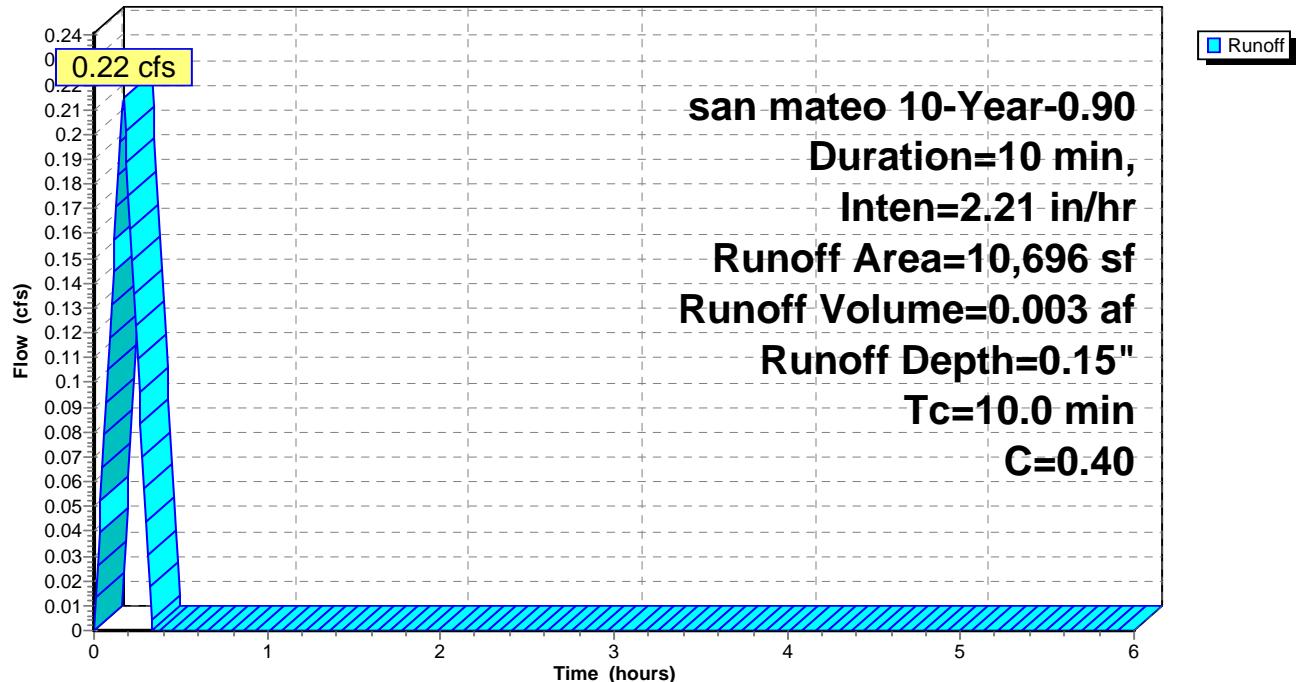
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### Subcatchment 6S: Lot 12 Pre

Hydrograph



**LOT 12**

san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr

Prepared by {enter your company name here}

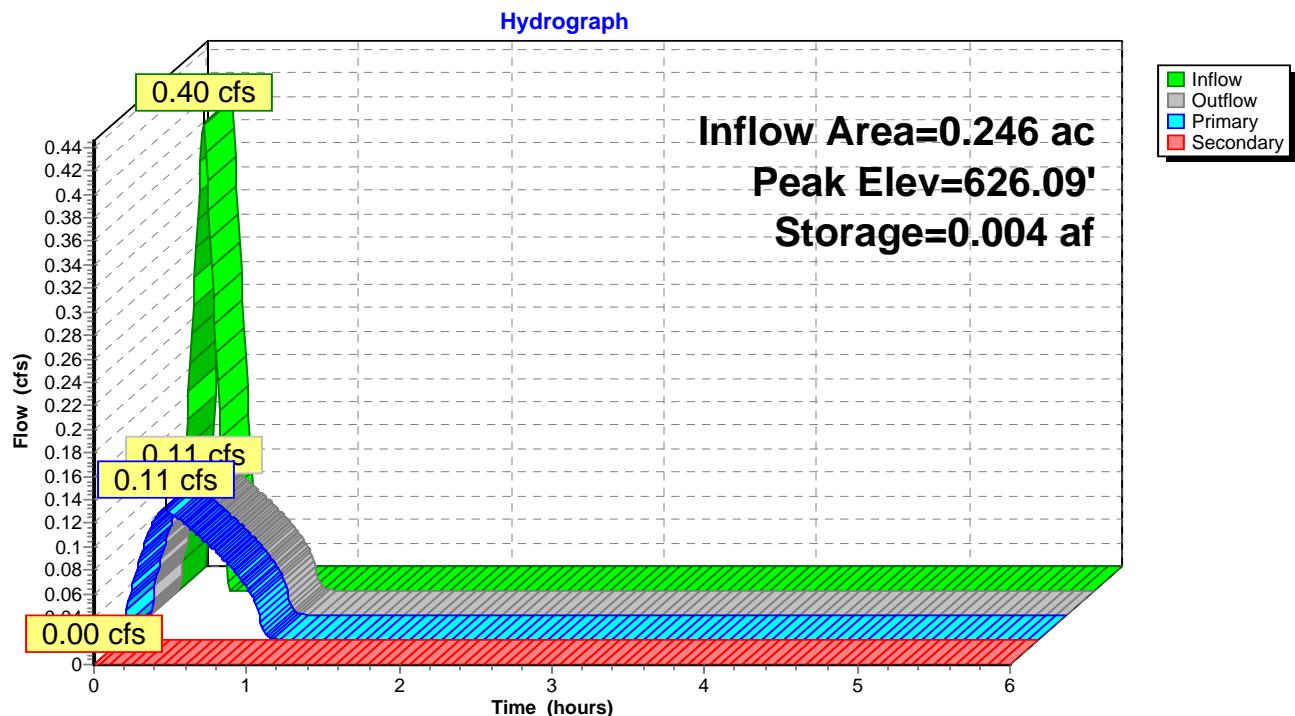
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**Hydrograph for Subcatchment 6S: Lot 12 Pre**

Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)
0.00	0.00	2.65	0.00	5.30	0.00
0.05	0.07	2.70	0.00	5.35	0.00
0.10	0.13	2.75	0.00	5.40	0.00
0.15	<b>0.20</b>	2.80	0.00	5.45	0.00
0.20	<b>0.18</b>	2.85	0.00	5.50	0.00
0.25	0.11	2.90	0.00	5.55	0.00
0.30	0.04	2.95	0.00	5.60	0.00
0.35	0.00	3.00	0.00	5.65	0.00
0.40	0.00	3.05	0.00	5.70	0.00
0.45	0.00	3.10	0.00	5.75	0.00
0.50	0.00	3.15	0.00	5.80	0.00
0.55	0.00	3.20	0.00	5.85	0.00
0.60	0.00	3.25	0.00	5.90	0.00
0.65	0.00	3.30	0.00	5.95	0.00
0.70	0.00	3.35	0.00	6.00	0.00
0.75	0.00	3.40	0.00		
0.80	0.00	3.45	0.00		
0.85	0.00	3.50	0.00		
0.90	0.00	3.55	0.00		
0.95	0.00	3.60	0.00		
1.00	0.00	3.65	0.00		
1.05	0.00	3.70	0.00		
1.10	0.00	3.75	0.00		
1.15	0.00	3.80	0.00		
1.20	0.00	3.85	0.00		
1.25	0.00	3.90	0.00		
1.30	0.00	3.95	0.00		
1.35	0.00	4.00	0.00		
1.40	0.00	4.05	0.00		
1.45	0.00	4.10	0.00		
1.50	0.00	4.15	0.00		
1.55	0.00	4.20	0.00		
1.60	0.00	4.25	0.00		
1.65	0.00	4.30	0.00		
1.70	0.00	4.35	0.00		
1.75	0.00	4.40	0.00		
1.80	0.00	4.45	0.00		
1.85	0.00	4.50	0.00		
1.90	0.00	4.55	0.00		
1.95	0.00	4.60	0.00		
2.00	0.00	4.65	0.00		
2.05	0.00	4.70	0.00		
2.10	0.00	4.75	0.00		
2.15	0.00	4.80	0.00		
2.20	0.00	4.85	0.00		
2.25	0.00	4.90	0.00		
2.30	0.00	4.95	0.00		
2.35	0.00	5.00	0.00		
2.40	0.00	5.05	0.00		
2.45	0.00	5.10	0.00		
2.50	0.00	5.15	0.00		
2.55	0.00	5.20	0.00		
2.60	0.00	5.25	0.00		

**Pond 5P: detention basin**

**LOT 12**

san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr

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**Hydrograph for Pond 5P: detention basin**

Time (hours)	Inflow (cfs)	Storage (acre-feet)	Elevation (feet)	Outflow (cfs)	Primary (cfs)	Secondary (cfs)
0.00	<b>0.00</b>	0.000	625.00	0.00	0.00	<b>0.00</b>
0.20	<b>0.32</b>	<b>0.003</b>	<b>625.90</b>	<b>0.10</b>	<b>0.10</b>	0.00
0.40	0.00	<b>0.003</b>	<b>625.91</b>	<b>0.10</b>	<b>0.10</b>	0.00
0.60	0.00	0.001	625.54	0.08	0.08	0.00
0.80	0.00	0.000	625.21	0.05	0.05	0.00
1.00	0.00	0.000	625.00	0.00	0.00	0.00
1.20	0.00	0.000	625.00	0.00	0.00	0.00
1.40	0.00	0.000	625.00	0.00	0.00	0.00
1.60	0.00	0.000	625.00	0.00	0.00	0.00
1.80	0.00	0.000	625.00	0.00	0.00	0.00
2.00	0.00	0.000	625.00	0.00	0.00	0.00
2.20	0.00	0.000	625.00	0.00	0.00	0.00
2.40	0.00	0.000	625.00	0.00	0.00	0.00
2.60	0.00	0.000	625.00	0.00	0.00	0.00
2.80	0.00	0.000	625.00	0.00	0.00	0.00
3.00	0.00	0.000	625.00	0.00	0.00	0.00
3.20	0.00	0.000	625.00	0.00	0.00	0.00
3.40	0.00	0.000	625.00	0.00	0.00	0.00
3.60	0.00	0.000	625.00	0.00	0.00	0.00
3.80	0.00	0.000	625.00	0.00	0.00	0.00
4.00	0.00	0.000	625.00	0.00	0.00	0.00
4.20	0.00	0.000	625.00	0.00	0.00	0.00
4.40	0.00	0.000	625.00	0.00	0.00	0.00
4.60	0.00	0.000	625.00	0.00	0.00	0.00
4.80	0.00	0.000	625.00	0.00	0.00	0.00
5.00	0.00	0.000	625.00	0.00	0.00	0.00
5.20	0.00	0.000	625.00	0.00	0.00	0.00
5.40	0.00	0.000	625.00	0.00	0.00	0.00
5.60	0.00	0.000	625.00	0.00	0.00	0.00
5.80	0.00	0.000	625.00	0.00	0.00	0.00
6.00	0.00	0.000	625.00	0.00	0.00	0.00

**LOT 15**

*san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr*

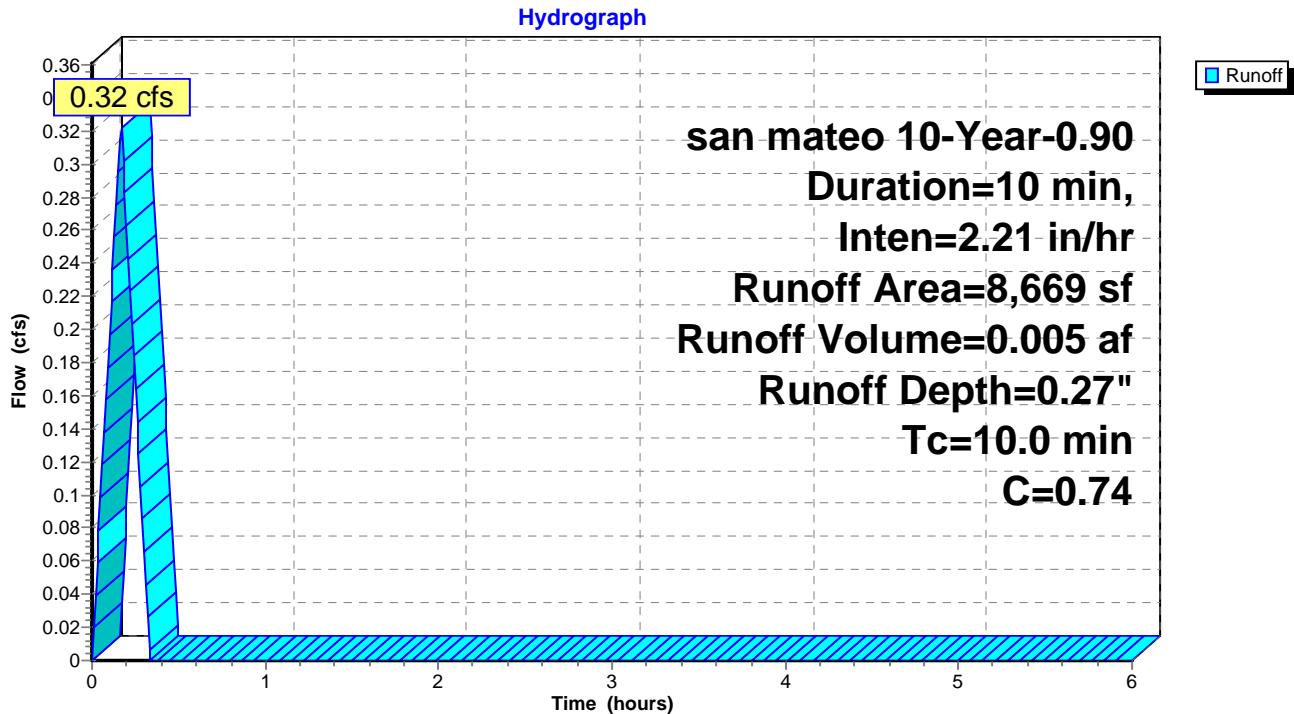
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Page 1

### Subcatchment 1S: Lot 15 Post



**LOT 15**

san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr

Prepared by {enter your company name here}

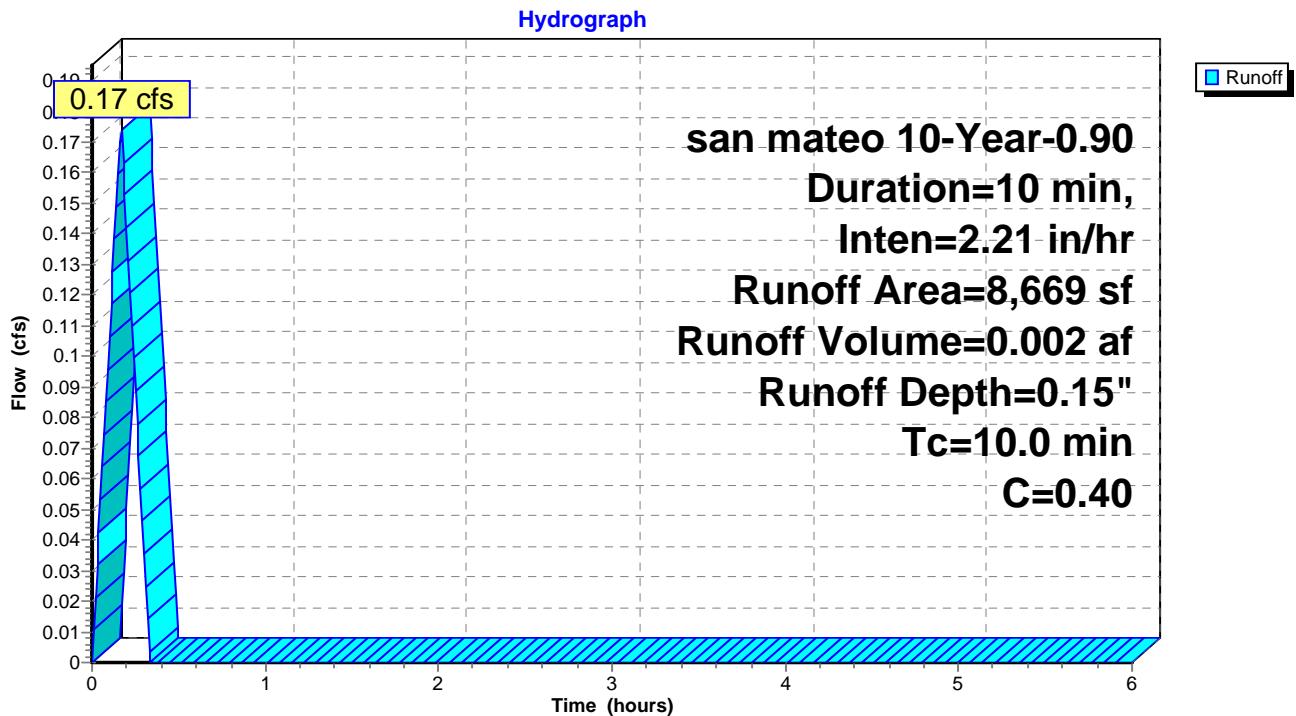
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**Hydrograph for Subcatchment 1S: Lot 15 Post**

Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)
0.00	0.00	2.65	0.00	5.30	0.00
0.05	0.10	2.70	0.00	5.35	0.00
0.10	0.20	2.75	0.00	5.40	0.00
0.15	<b>0.30</b>	2.80	0.00	5.45	0.00
0.20	<b>0.26</b>	2.85	0.00	5.50	0.00
0.25	0.16	2.90	0.00	5.55	0.00
0.30	0.07	2.95	0.00	5.60	0.00
0.35	0.00	3.00	0.00	5.65	0.00
0.40	0.00	3.05	0.00	5.70	0.00
0.45	0.00	3.10	0.00	5.75	0.00
0.50	0.00	3.15	0.00	5.80	0.00
0.55	0.00	3.20	0.00	5.85	0.00
0.60	0.00	3.25	0.00	5.90	0.00
0.65	0.00	3.30	0.00	5.95	0.00
0.70	0.00	3.35	0.00	6.00	0.00
0.75	0.00	3.40	0.00		
0.80	0.00	3.45	0.00		
0.85	0.00	3.50	0.00		
0.90	0.00	3.55	0.00		
0.95	0.00	3.60	0.00		
1.00	0.00	3.65	0.00		
1.05	0.00	3.70	0.00		
1.10	0.00	3.75	0.00		
1.15	0.00	3.80	0.00		
1.20	0.00	3.85	0.00		
1.25	0.00	3.90	0.00		
1.30	0.00	3.95	0.00		
1.35	0.00	4.00	0.00		
1.40	0.00	4.05	0.00		
1.45	0.00	4.10	0.00		
1.50	0.00	4.15	0.00		
1.55	0.00	4.20	0.00		
1.60	0.00	4.25	0.00		
1.65	0.00	4.30	0.00		
1.70	0.00	4.35	0.00		
1.75	0.00	4.40	0.00		
1.80	0.00	4.45	0.00		
1.85	0.00	4.50	0.00		
1.90	0.00	4.55	0.00		
1.95	0.00	4.60	0.00		
2.00	0.00	4.65	0.00		
2.05	0.00	4.70	0.00		
2.10	0.00	4.75	0.00		
2.15	0.00	4.80	0.00		
2.20	0.00	4.85	0.00		
2.25	0.00	4.90	0.00		
2.30	0.00	4.95	0.00		
2.35	0.00	5.00	0.00		
2.40	0.00	5.05	0.00		
2.45	0.00	5.10	0.00		
2.50	0.00	5.15	0.00		
2.55	0.00	5.20	0.00		
2.60	0.00	5.25	0.00		

**Subcatchment 6S: Lot 15 Pre**

**LOT 15**

san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr

Prepared by {enter your company name here}

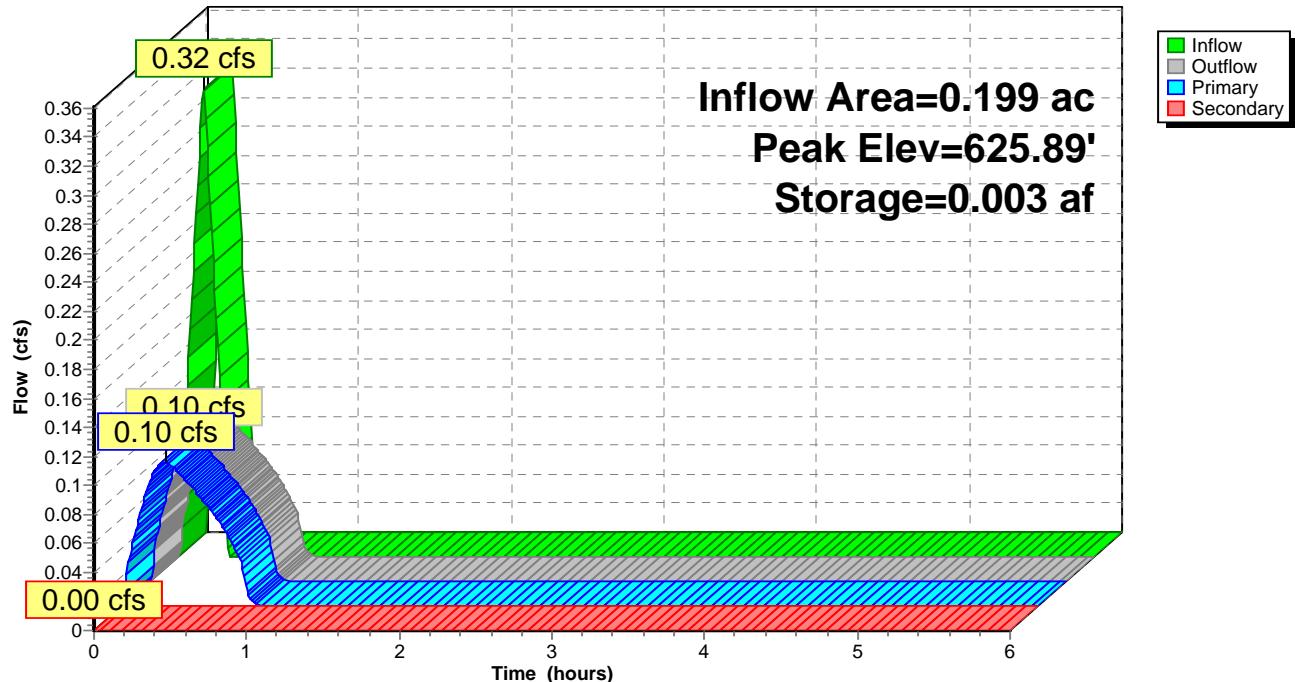
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**Hydrograph for Subcatchment 6S: Lot 15 Pre**

Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)
0.00	0.00	2.65	0.00	5.30	0.00
0.05	0.05	2.70	0.00	5.35	0.00
0.10	0.11	2.75	0.00	5.40	0.00
0.15	<b>0.16</b>	2.80	0.00	5.45	0.00
0.20	<b>0.14</b>	2.85	0.00	5.50	0.00
0.25	0.09	2.90	0.00	5.55	0.00
0.30	0.04	2.95	0.00	5.60	0.00
0.35	0.00	3.00	0.00	5.65	0.00
0.40	0.00	3.05	0.00	5.70	0.00
0.45	0.00	3.10	0.00	5.75	0.00
0.50	0.00	3.15	0.00	5.80	0.00
0.55	0.00	3.20	0.00	5.85	0.00
0.60	0.00	3.25	0.00	5.90	0.00
0.65	0.00	3.30	0.00	5.95	0.00
0.70	0.00	3.35	0.00	6.00	0.00
0.75	0.00	3.40	0.00		
0.80	0.00	3.45	0.00		
0.85	0.00	3.50	0.00		
0.90	0.00	3.55	0.00		
0.95	0.00	3.60	0.00		
1.00	0.00	3.65	0.00		
1.05	0.00	3.70	0.00		
1.10	0.00	3.75	0.00		
1.15	0.00	3.80	0.00		
1.20	0.00	3.85	0.00		
1.25	0.00	3.90	0.00		
1.30	0.00	3.95	0.00		
1.35	0.00	4.00	0.00		
1.40	0.00	4.05	0.00		
1.45	0.00	4.10	0.00		
1.50	0.00	4.15	0.00		
1.55	0.00	4.20	0.00		
1.60	0.00	4.25	0.00		
1.65	0.00	4.30	0.00		
1.70	0.00	4.35	0.00		
1.75	0.00	4.40	0.00		
1.80	0.00	4.45	0.00		
1.85	0.00	4.50	0.00		
1.90	0.00	4.55	0.00		
1.95	0.00	4.60	0.00		
2.00	0.00	4.65	0.00		
2.05	0.00	4.70	0.00		
2.10	0.00	4.75	0.00		
2.15	0.00	4.80	0.00		
2.20	0.00	4.85	0.00		
2.25	0.00	4.90	0.00		
2.30	0.00	4.95	0.00		
2.35	0.00	5.00	0.00		
2.40	0.00	5.05	0.00		
2.45	0.00	5.10	0.00		
2.50	0.00	5.15	0.00		
2.55	0.00	5.20	0.00		
2.60	0.00	5.25	0.00		

**Pond 5P: detention basin****Hydrograph**

**LOT 15**

san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr

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**Hydrograph for Pond 5P: detention basin**

Time (hours)	Inflow (cfs)	Storage (acre-feet)	Elevation (feet)	Outflow (cfs)	Primary (cfs)	Secondary (cfs)
0.00	<b>0.00</b>	0.000	625.00	0.00	0.00	<b>0.00</b>
0.20	<b>0.26</b>	<b>0.002</b>	<b>625.74</b>	<b>0.09</b>	<b>0.09</b>	0.00
0.40	0.00	<b>0.002</b>	<b>625.71</b>	<b>0.09</b>	<b>0.09</b>	0.00
0.60	0.00	0.001	625.36	0.06	0.06	0.00
0.80	0.00	0.000	625.05	0.02	0.02	0.00
1.00	0.00	0.000	625.00	0.00	0.00	0.00
1.20	0.00	0.000	625.00	0.00	0.00	0.00
1.40	0.00	0.000	625.00	0.00	0.00	0.00
1.60	0.00	0.000	625.00	0.00	0.00	0.00
1.80	0.00	0.000	625.00	0.00	0.00	0.00
2.00	0.00	0.000	625.00	0.00	0.00	0.00
2.20	0.00	0.000	625.00	0.00	0.00	0.00
2.40	0.00	0.000	625.00	0.00	0.00	0.00
2.60	0.00	0.000	625.00	0.00	0.00	0.00
2.80	0.00	0.000	625.00	0.00	0.00	0.00
3.00	0.00	0.000	625.00	0.00	0.00	0.00
3.20	0.00	0.000	625.00	0.00	0.00	0.00
3.40	0.00	0.000	625.00	0.00	0.00	0.00
3.60	0.00	0.000	625.00	0.00	0.00	0.00
3.80	0.00	0.000	625.00	0.00	0.00	0.00
4.00	0.00	0.000	625.00	0.00	0.00	0.00
4.20	0.00	0.000	625.00	0.00	0.00	0.00
4.40	0.00	0.000	625.00	0.00	0.00	0.00
4.60	0.00	0.000	625.00	0.00	0.00	0.00
4.80	0.00	0.000	625.00	0.00	0.00	0.00
5.00	0.00	0.000	625.00	0.00	0.00	0.00
5.20	0.00	0.000	625.00	0.00	0.00	0.00
5.40	0.00	0.000	625.00	0.00	0.00	0.00
5.60	0.00	0.000	625.00	0.00	0.00	0.00
5.80	0.00	0.000	625.00	0.00	0.00	0.00
6.00	0.00	0.000	625.00	0.00	0.00	0.00

**LOT 16**

*san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr*

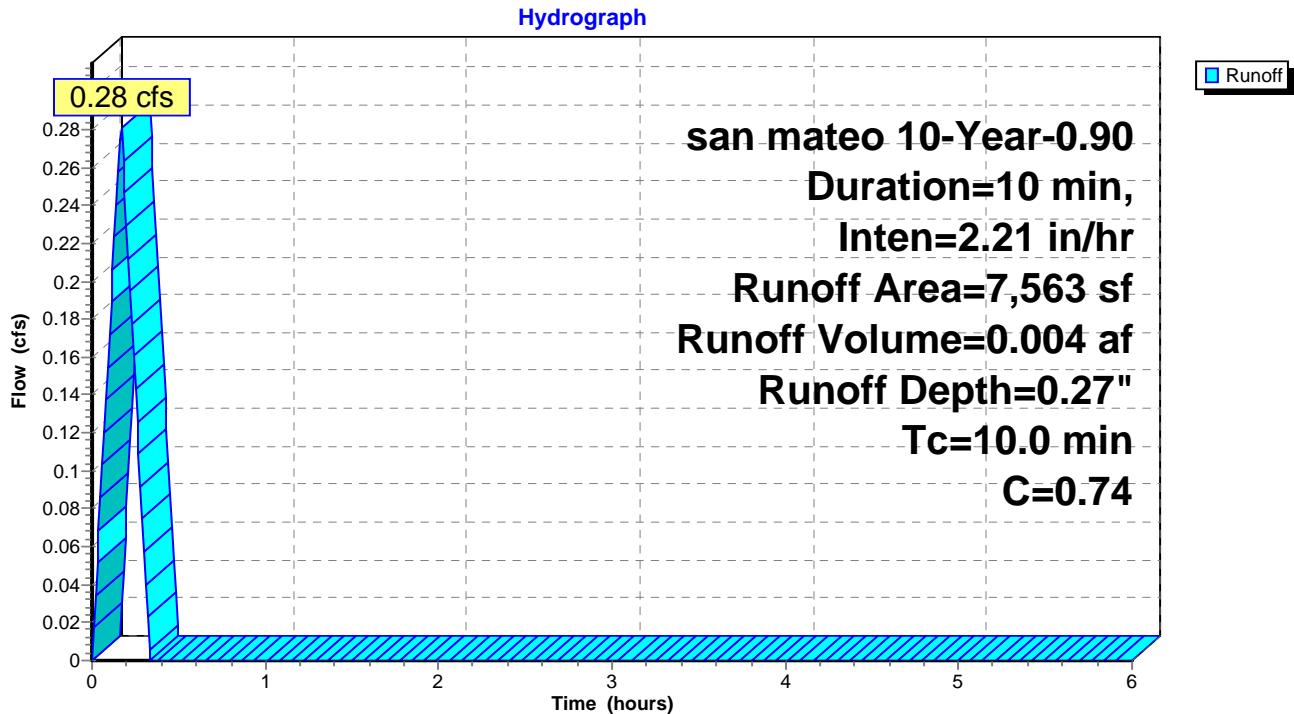
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Page 1

### Subcatchment 1S: Lot 16 Post



**LOT 16**

san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr

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**Hydrograph for Subcatchment 1S: Lot 16 Post**

Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)
0.00	0.00	2.65	0.00	5.30	0.00
0.05	0.09	2.70	0.00	5.35	0.00
0.10	0.17	2.75	0.00	5.40	0.00
0.15	<b>0.26</b>	2.80	0.00	5.45	0.00
0.20	<b>0.23</b>	2.85	0.00	5.50	0.00
0.25	0.14	2.90	0.00	5.55	0.00
0.30	0.06	2.95	0.00	5.60	0.00
0.35	0.00	3.00	0.00	5.65	0.00
0.40	0.00	3.05	0.00	5.70	0.00
0.45	0.00	3.10	0.00	5.75	0.00
0.50	0.00	3.15	0.00	5.80	0.00
0.55	0.00	3.20	0.00	5.85	0.00
0.60	0.00	3.25	0.00	5.90	0.00
0.65	0.00	3.30	0.00	5.95	0.00
0.70	0.00	3.35	0.00	6.00	0.00
0.75	0.00	3.40	0.00		
0.80	0.00	3.45	0.00		
0.85	0.00	3.50	0.00		
0.90	0.00	3.55	0.00		
0.95	0.00	3.60	0.00		
1.00	0.00	3.65	0.00		
1.05	0.00	3.70	0.00		
1.10	0.00	3.75	0.00		
1.15	0.00	3.80	0.00		
1.20	0.00	3.85	0.00		
1.25	0.00	3.90	0.00		
1.30	0.00	3.95	0.00		
1.35	0.00	4.00	0.00		
1.40	0.00	4.05	0.00		
1.45	0.00	4.10	0.00		
1.50	0.00	4.15	0.00		
1.55	0.00	4.20	0.00		
1.60	0.00	4.25	0.00		
1.65	0.00	4.30	0.00		
1.70	0.00	4.35	0.00		
1.75	0.00	4.40	0.00		
1.80	0.00	4.45	0.00		
1.85	0.00	4.50	0.00		
1.90	0.00	4.55	0.00		
1.95	0.00	4.60	0.00		
2.00	0.00	4.65	0.00		
2.05	0.00	4.70	0.00		
2.10	0.00	4.75	0.00		
2.15	0.00	4.80	0.00		
2.20	0.00	4.85	0.00		
2.25	0.00	4.90	0.00		
2.30	0.00	4.95	0.00		
2.35	0.00	5.00	0.00		
2.40	0.00	5.05	0.00		
2.45	0.00	5.10	0.00		
2.50	0.00	5.15	0.00		
2.55	0.00	5.20	0.00		
2.60	0.00	5.25	0.00		

**LOT 16**

*san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr*

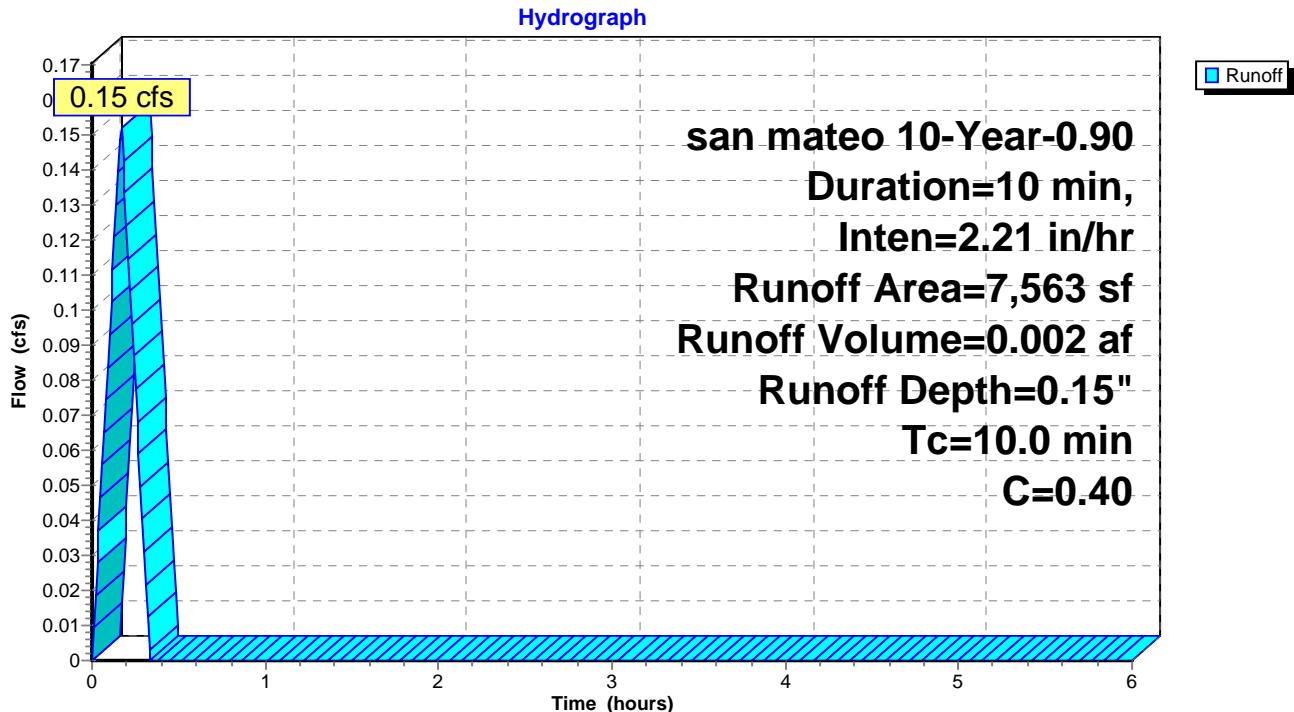
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### Subcatchment 6S: Lot 16 Pre



**LOT 16**

san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr

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**Hydrograph for Subcatchment 6S: Lot 16 Pre**

Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)
0.00	0.00	2.65	0.00	5.30	0.00
0.05	0.05	2.70	0.00	5.35	0.00
0.10	0.09	2.75	0.00	5.40	0.00
0.15	<b>0.14</b>	2.80	0.00	5.45	0.00
0.20	<b>0.12</b>	2.85	0.00	5.50	0.00
0.25	0.08	2.90	0.00	5.55	0.00
0.30	0.03	2.95	0.00	5.60	0.00
0.35	0.00	3.00	0.00	5.65	0.00
0.40	0.00	3.05	0.00	5.70	0.00
0.45	0.00	3.10	0.00	5.75	0.00
0.50	0.00	3.15	0.00	5.80	0.00
0.55	0.00	3.20	0.00	5.85	0.00
0.60	0.00	3.25	0.00	5.90	0.00
0.65	0.00	3.30	0.00	5.95	0.00
0.70	0.00	3.35	0.00	6.00	0.00
0.75	0.00	3.40	0.00		
0.80	0.00	3.45	0.00		
0.85	0.00	3.50	0.00		
0.90	0.00	3.55	0.00		
0.95	0.00	3.60	0.00		
1.00	0.00	3.65	0.00		
1.05	0.00	3.70	0.00		
1.10	0.00	3.75	0.00		
1.15	0.00	3.80	0.00		
1.20	0.00	3.85	0.00		
1.25	0.00	3.90	0.00		
1.30	0.00	3.95	0.00		
1.35	0.00	4.00	0.00		
1.40	0.00	4.05	0.00		
1.45	0.00	4.10	0.00		
1.50	0.00	4.15	0.00		
1.55	0.00	4.20	0.00		
1.60	0.00	4.25	0.00		
1.65	0.00	4.30	0.00		
1.70	0.00	4.35	0.00		
1.75	0.00	4.40	0.00		
1.80	0.00	4.45	0.00		
1.85	0.00	4.50	0.00		
1.90	0.00	4.55	0.00		
1.95	0.00	4.60	0.00		
2.00	0.00	4.65	0.00		
2.05	0.00	4.70	0.00		
2.10	0.00	4.75	0.00		
2.15	0.00	4.80	0.00		
2.20	0.00	4.85	0.00		
2.25	0.00	4.90	0.00		
2.30	0.00	4.95	0.00		
2.35	0.00	5.00	0.00		
2.40	0.00	5.05	0.00		
2.45	0.00	5.10	0.00		
2.50	0.00	5.15	0.00		
2.55	0.00	5.20	0.00		
2.60	0.00	5.25	0.00		

**LOT 16**

*san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr*

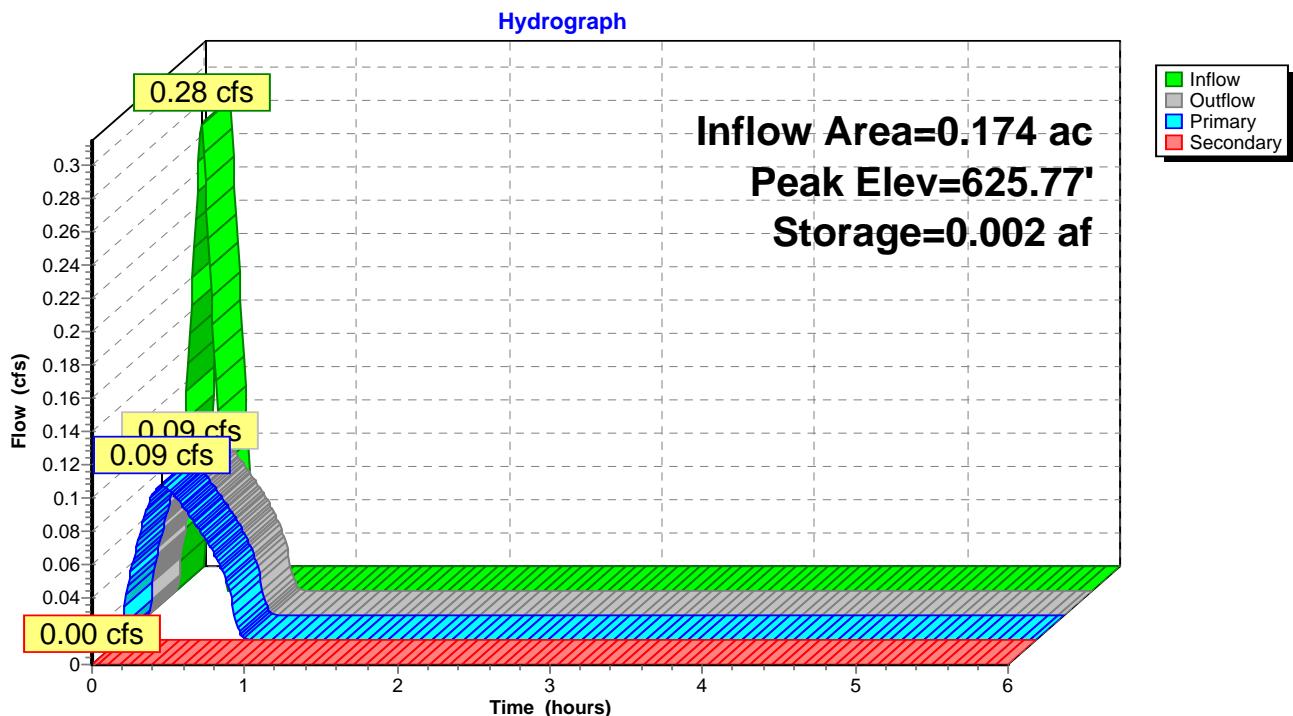
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### Pond 5P: detention basin



**LOT 16**

san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr

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**Hydrograph for Pond 5P: detention basin**

Time (hours)	Inflow (cfs)	Storage (acre-feet)	Elevation (feet)	Outflow (cfs)	Primary (cfs)	Secondary (cfs)
0.00	<b>0.00</b>	0.000	625.00	0.00	0.00	<b>0.00</b>
0.20	<b>0.23</b>	<b>0.002</b>	<b>625.66</b>	<b>0.09</b>	<b>0.09</b>	0.00
0.40	0.00	<b>0.002</b>	<b>625.60</b>	<b>0.08</b>	<b>0.08</b>	0.00
0.60	0.00	0.001	625.27	0.05	0.05	0.00
0.80	0.00	0.000	625.01	0.00	0.00	0.00
1.00	0.00	0.000	625.00	0.00	0.00	0.00
1.20	0.00	0.000	625.00	0.00	0.00	0.00
1.40	0.00	0.000	625.00	0.00	0.00	0.00
1.60	0.00	0.000	625.00	0.00	0.00	0.00
1.80	0.00	0.000	625.00	0.00	0.00	0.00
2.00	0.00	0.000	625.00	0.00	0.00	0.00
2.20	0.00	0.000	625.00	0.00	0.00	0.00
2.40	0.00	0.000	625.00	0.00	0.00	0.00
2.60	0.00	0.000	625.00	0.00	0.00	0.00
2.80	0.00	0.000	625.00	0.00	0.00	0.00
3.00	0.00	0.000	625.00	0.00	0.00	0.00
3.20	0.00	0.000	625.00	0.00	0.00	0.00
3.40	0.00	0.000	625.00	0.00	0.00	0.00
3.60	0.00	0.000	625.00	0.00	0.00	0.00
3.80	0.00	0.000	625.00	0.00	0.00	0.00
4.00	0.00	0.000	625.00	0.00	0.00	0.00
4.20	0.00	0.000	625.00	0.00	0.00	0.00
4.40	0.00	0.000	625.00	0.00	0.00	0.00
4.60	0.00	0.000	625.00	0.00	0.00	0.00
4.80	0.00	0.000	625.00	0.00	0.00	0.00
5.00	0.00	0.000	625.00	0.00	0.00	0.00
5.20	0.00	0.000	625.00	0.00	0.00	0.00
5.40	0.00	0.000	625.00	0.00	0.00	0.00
5.60	0.00	0.000	625.00	0.00	0.00	0.00
5.80	0.00	0.000	625.00	0.00	0.00	0.00
6.00	0.00	0.000	625.00	0.00	0.00	0.00

**LOT 17**

*san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr*

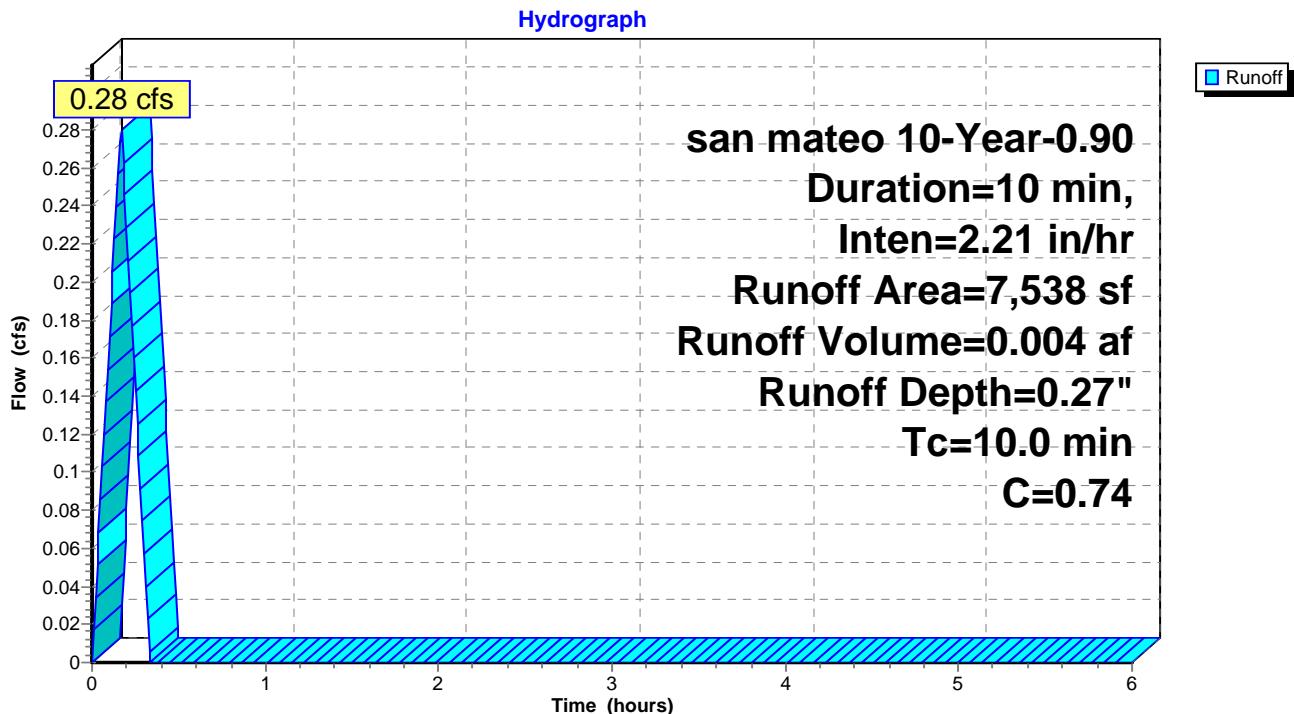
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Page 1

### **Subcatchment 1S: Lot 17 Post**



**LOT 17**

san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr

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**Hydrograph for Subcatchment 1S: Lot 17 Post**

Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)
0.00	0.00	2.65	0.00	5.30	0.00
0.05	0.09	2.70	0.00	5.35	0.00
0.10	0.17	2.75	0.00	5.40	0.00
0.15	<b>0.26</b>	2.80	0.00	5.45	0.00
0.20	<b>0.23</b>	2.85	0.00	5.50	0.00
0.25	0.14	2.90	0.00	5.55	0.00
0.30	0.06	2.95	0.00	5.60	0.00
0.35	0.00	3.00	0.00	5.65	0.00
0.40	0.00	3.05	0.00	5.70	0.00
0.45	0.00	3.10	0.00	5.75	0.00
0.50	0.00	3.15	0.00	5.80	0.00
0.55	0.00	3.20	0.00	5.85	0.00
0.60	0.00	3.25	0.00	5.90	0.00
0.65	0.00	3.30	0.00	5.95	0.00
0.70	0.00	3.35	0.00	6.00	0.00
0.75	0.00	3.40	0.00		
0.80	0.00	3.45	0.00		
0.85	0.00	3.50	0.00		
0.90	0.00	3.55	0.00		
0.95	0.00	3.60	0.00		
1.00	0.00	3.65	0.00		
1.05	0.00	3.70	0.00		
1.10	0.00	3.75	0.00		
1.15	0.00	3.80	0.00		
1.20	0.00	3.85	0.00		
1.25	0.00	3.90	0.00		
1.30	0.00	3.95	0.00		
1.35	0.00	4.00	0.00		
1.40	0.00	4.05	0.00		
1.45	0.00	4.10	0.00		
1.50	0.00	4.15	0.00		
1.55	0.00	4.20	0.00		
1.60	0.00	4.25	0.00		
1.65	0.00	4.30	0.00		
1.70	0.00	4.35	0.00		
1.75	0.00	4.40	0.00		
1.80	0.00	4.45	0.00		
1.85	0.00	4.50	0.00		
1.90	0.00	4.55	0.00		
1.95	0.00	4.60	0.00		
2.00	0.00	4.65	0.00		
2.05	0.00	4.70	0.00		
2.10	0.00	4.75	0.00		
2.15	0.00	4.80	0.00		
2.20	0.00	4.85	0.00		
2.25	0.00	4.90	0.00		
2.30	0.00	4.95	0.00		
2.35	0.00	5.00	0.00		
2.40	0.00	5.05	0.00		
2.45	0.00	5.10	0.00		
2.50	0.00	5.15	0.00		
2.55	0.00	5.20	0.00		
2.60	0.00	5.25	0.00		

**LOT 17**

*san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr*

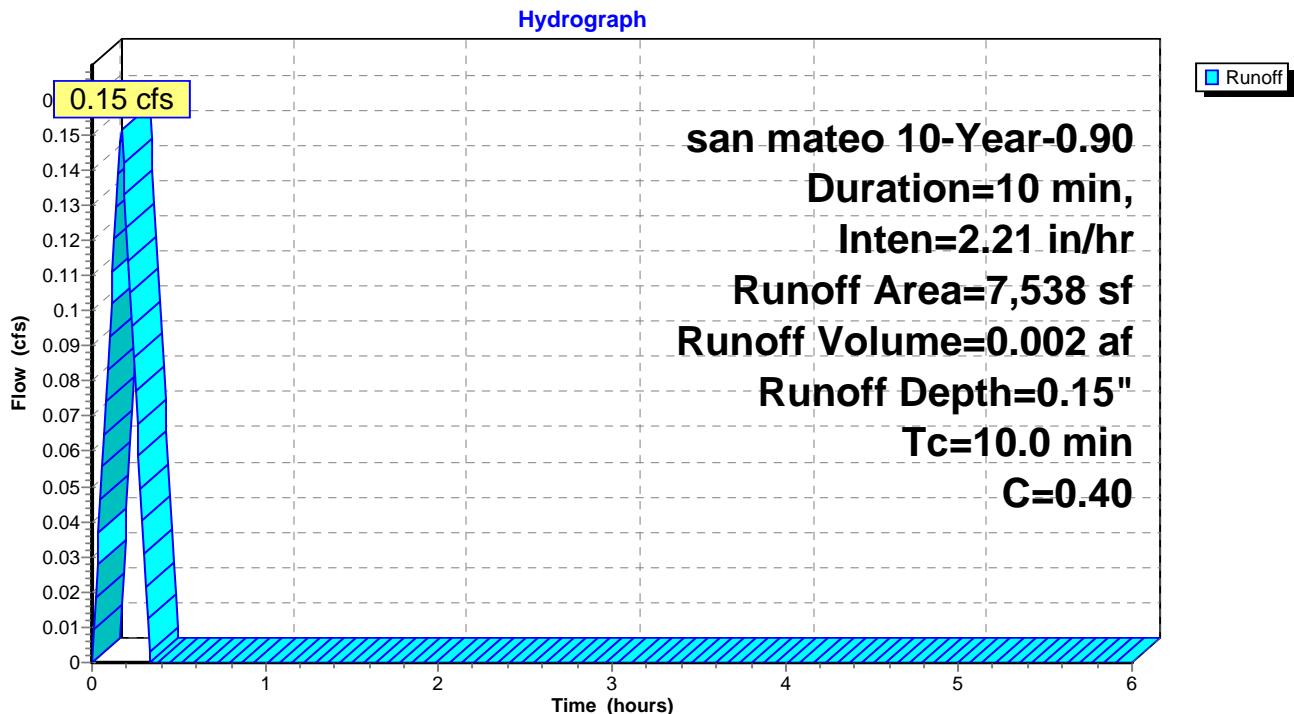
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### Subcatchment 7S: Lot 17 Pre



**LOT 17**

san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr

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**Hydrograph for Subcatchment 7S: Lot 17 Pre**

Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)
0.00	0.00	2.65	0.00	5.30	0.00
0.05	0.05	2.70	0.00	5.35	0.00
0.10	0.09	2.75	0.00	5.40	0.00
0.15	<b>0.14</b>	2.80	0.00	5.45	0.00
0.20	<b>0.12</b>	2.85	0.00	5.50	0.00
0.25	0.08	2.90	0.00	5.55	0.00
0.30	0.03	2.95	0.00	5.60	0.00
0.35	0.00	3.00	0.00	5.65	0.00
0.40	0.00	3.05	0.00	5.70	0.00
0.45	0.00	3.10	0.00	5.75	0.00
0.50	0.00	3.15	0.00	5.80	0.00
0.55	0.00	3.20	0.00	5.85	0.00
0.60	0.00	3.25	0.00	5.90	0.00
0.65	0.00	3.30	0.00	5.95	0.00
0.70	0.00	3.35	0.00	6.00	0.00
0.75	0.00	3.40	0.00		
0.80	0.00	3.45	0.00		
0.85	0.00	3.50	0.00		
0.90	0.00	3.55	0.00		
0.95	0.00	3.60	0.00		
1.00	0.00	3.65	0.00		
1.05	0.00	3.70	0.00		
1.10	0.00	3.75	0.00		
1.15	0.00	3.80	0.00		
1.20	0.00	3.85	0.00		
1.25	0.00	3.90	0.00		
1.30	0.00	3.95	0.00		
1.35	0.00	4.00	0.00		
1.40	0.00	4.05	0.00		
1.45	0.00	4.10	0.00		
1.50	0.00	4.15	0.00		
1.55	0.00	4.20	0.00		
1.60	0.00	4.25	0.00		
1.65	0.00	4.30	0.00		
1.70	0.00	4.35	0.00		
1.75	0.00	4.40	0.00		
1.80	0.00	4.45	0.00		
1.85	0.00	4.50	0.00		
1.90	0.00	4.55	0.00		
1.95	0.00	4.60	0.00		
2.00	0.00	4.65	0.00		
2.05	0.00	4.70	0.00		
2.10	0.00	4.75	0.00		
2.15	0.00	4.80	0.00		
2.20	0.00	4.85	0.00		
2.25	0.00	4.90	0.00		
2.30	0.00	4.95	0.00		
2.35	0.00	5.00	0.00		
2.40	0.00	5.05	0.00		
2.45	0.00	5.10	0.00		
2.50	0.00	5.15	0.00		
2.55	0.00	5.20	0.00		
2.60	0.00	5.25	0.00		

**LOT 17**

*san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr*

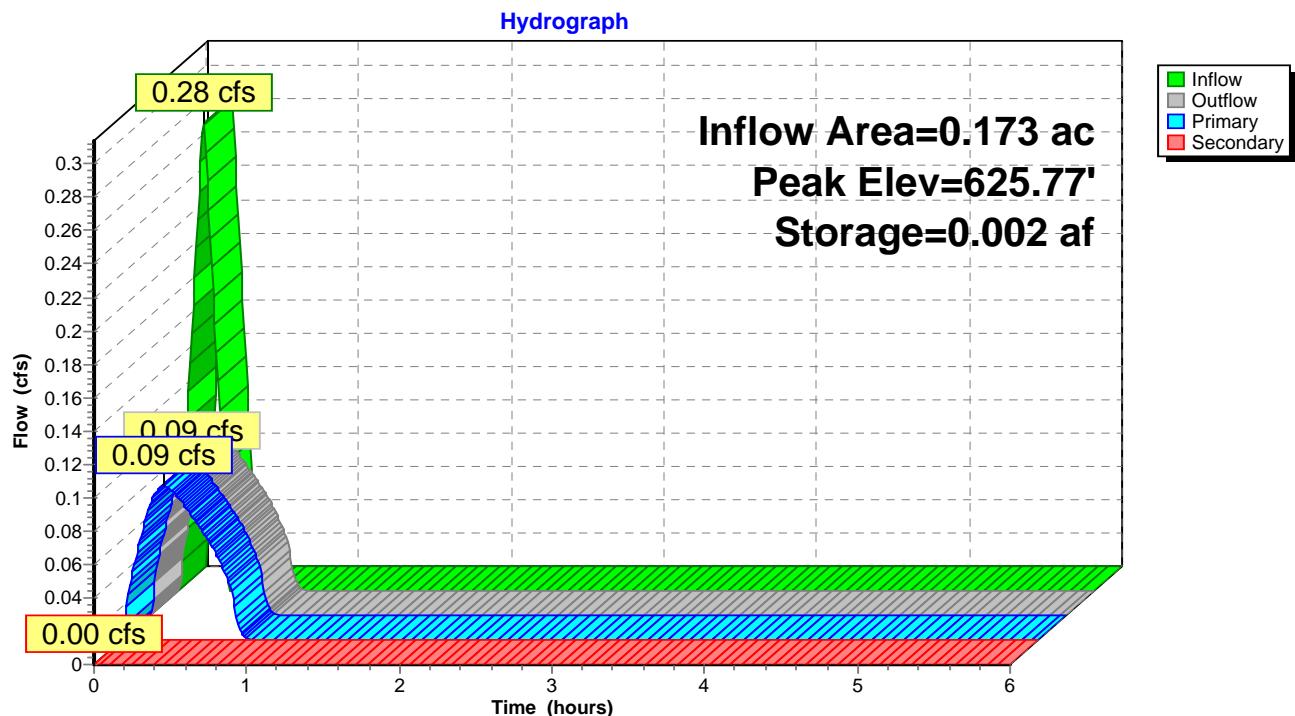
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### Pond 5P: detention basin



**LOT 17**

san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr

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**Hydrograph for Pond 5P: detention basin**

Time (hours)	Inflow (cfs)	Storage (acre-feet)	Elevation (feet)	Outflow (cfs)	Primary (cfs)	Secondary (cfs)
0.00	<b>0.00</b>	0.000	625.00	0.00	0.00	<b>0.00</b>
0.20	<b>0.23</b>	<b>0.002</b>	<b>625.66</b>	<b>0.09</b>	<b>0.09</b>	0.00
0.40	0.00	<b>0.002</b>	<b>625.60</b>	<b>0.08</b>	<b>0.08</b>	0.00
0.60	0.00	0.001	625.27	0.05	0.05	0.00
0.80	0.00	0.000	625.01	0.00	0.00	0.00
1.00	0.00	0.000	625.00	0.00	0.00	0.00
1.20	0.00	0.000	625.00	0.00	0.00	0.00
1.40	0.00	0.000	625.00	0.00	0.00	0.00
1.60	0.00	0.000	625.00	0.00	0.00	0.00
1.80	0.00	0.000	625.00	0.00	0.00	0.00
2.00	0.00	0.000	625.00	0.00	0.00	0.00
2.20	0.00	0.000	625.00	0.00	0.00	0.00
2.40	0.00	0.000	625.00	0.00	0.00	0.00
2.60	0.00	0.000	625.00	0.00	0.00	0.00
2.80	0.00	0.000	625.00	0.00	0.00	0.00
3.00	0.00	0.000	625.00	0.00	0.00	0.00
3.20	0.00	0.000	625.00	0.00	0.00	0.00
3.40	0.00	0.000	625.00	0.00	0.00	0.00
3.60	0.00	0.000	625.00	0.00	0.00	0.00
3.80	0.00	0.000	625.00	0.00	0.00	0.00
4.00	0.00	0.000	625.00	0.00	0.00	0.00
4.20	0.00	0.000	625.00	0.00	0.00	0.00
4.40	0.00	0.000	625.00	0.00	0.00	0.00
4.60	0.00	0.000	625.00	0.00	0.00	0.00
4.80	0.00	0.000	625.00	0.00	0.00	0.00
5.00	0.00	0.000	625.00	0.00	0.00	0.00
5.20	0.00	0.000	625.00	0.00	0.00	0.00
5.40	0.00	0.000	625.00	0.00	0.00	0.00
5.60	0.00	0.000	625.00	0.00	0.00	0.00
5.80	0.00	0.000	625.00	0.00	0.00	0.00
6.00	0.00	0.000	625.00	0.00	0.00	0.00

**LOT 19**

*san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr*

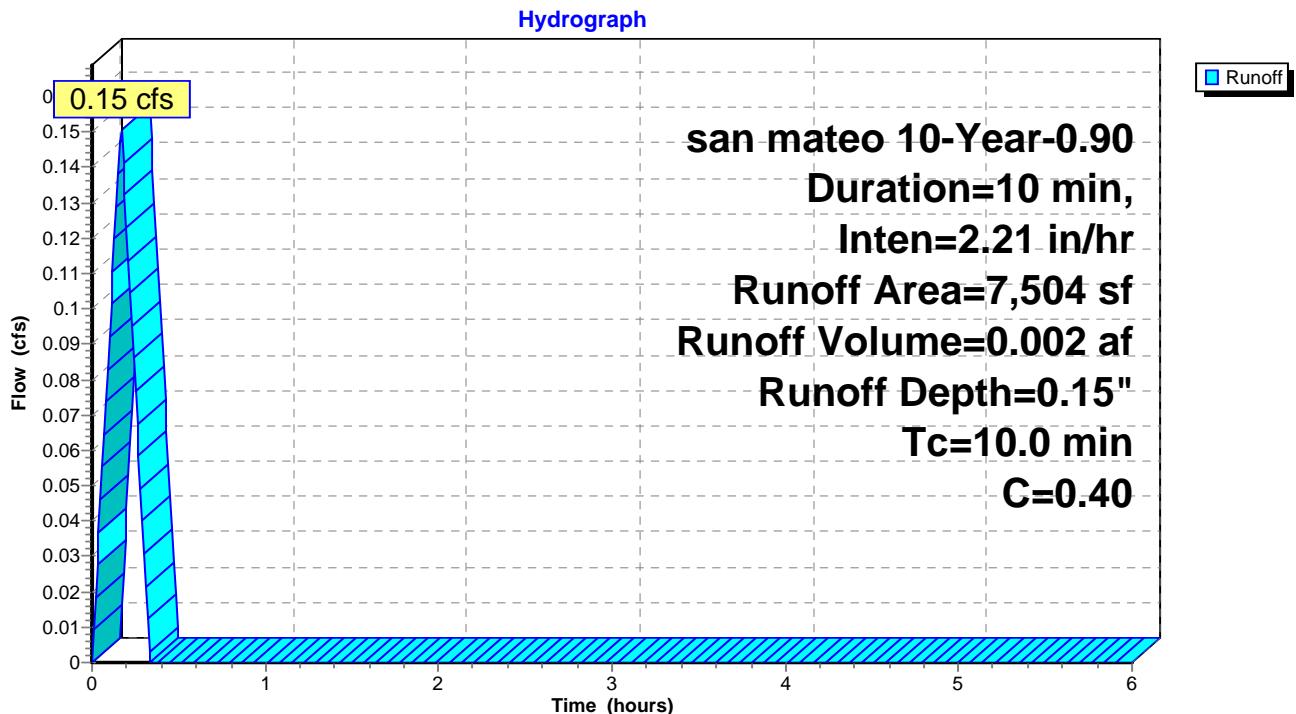
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Page 1

### Subcatchment 7S: Lot 19 Pre



**LOT 19**

san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr

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**Hydrograph for Subcatchment 7S: Lot 19 Pre**

Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)
0.00	0.00	2.65	0.00	5.30	0.00
0.05	0.05	2.70	0.00	5.35	0.00
0.10	0.09	2.75	0.00	5.40	0.00
0.15	<b>0.14</b>	2.80	0.00	5.45	0.00
0.20	<b>0.12</b>	2.85	0.00	5.50	0.00
0.25	0.08	2.90	0.00	5.55	0.00
0.30	0.03	2.95	0.00	5.60	0.00
0.35	0.00	3.00	0.00	5.65	0.00
0.40	0.00	3.05	0.00	5.70	0.00
0.45	0.00	3.10	0.00	5.75	0.00
0.50	0.00	3.15	0.00	5.80	0.00
0.55	0.00	3.20	0.00	5.85	0.00
0.60	0.00	3.25	0.00	5.90	0.00
0.65	0.00	3.30	0.00	5.95	0.00
0.70	0.00	3.35	0.00	6.00	0.00
0.75	0.00	3.40	0.00		
0.80	0.00	3.45	0.00		
0.85	0.00	3.50	0.00		
0.90	0.00	3.55	0.00		
0.95	0.00	3.60	0.00		
1.00	0.00	3.65	0.00		
1.05	0.00	3.70	0.00		
1.10	0.00	3.75	0.00		
1.15	0.00	3.80	0.00		
1.20	0.00	3.85	0.00		
1.25	0.00	3.90	0.00		
1.30	0.00	3.95	0.00		
1.35	0.00	4.00	0.00		
1.40	0.00	4.05	0.00		
1.45	0.00	4.10	0.00		
1.50	0.00	4.15	0.00		
1.55	0.00	4.20	0.00		
1.60	0.00	4.25	0.00		
1.65	0.00	4.30	0.00		
1.70	0.00	4.35	0.00		
1.75	0.00	4.40	0.00		
1.80	0.00	4.45	0.00		
1.85	0.00	4.50	0.00		
1.90	0.00	4.55	0.00		
1.95	0.00	4.60	0.00		
2.00	0.00	4.65	0.00		
2.05	0.00	4.70	0.00		
2.10	0.00	4.75	0.00		
2.15	0.00	4.80	0.00		
2.20	0.00	4.85	0.00		
2.25	0.00	4.90	0.00		
2.30	0.00	4.95	0.00		
2.35	0.00	5.00	0.00		
2.40	0.00	5.05	0.00		
2.45	0.00	5.10	0.00		
2.50	0.00	5.15	0.00		
2.55	0.00	5.20	0.00		
2.60	0.00	5.25	0.00		

**LOT 19**

*san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr*

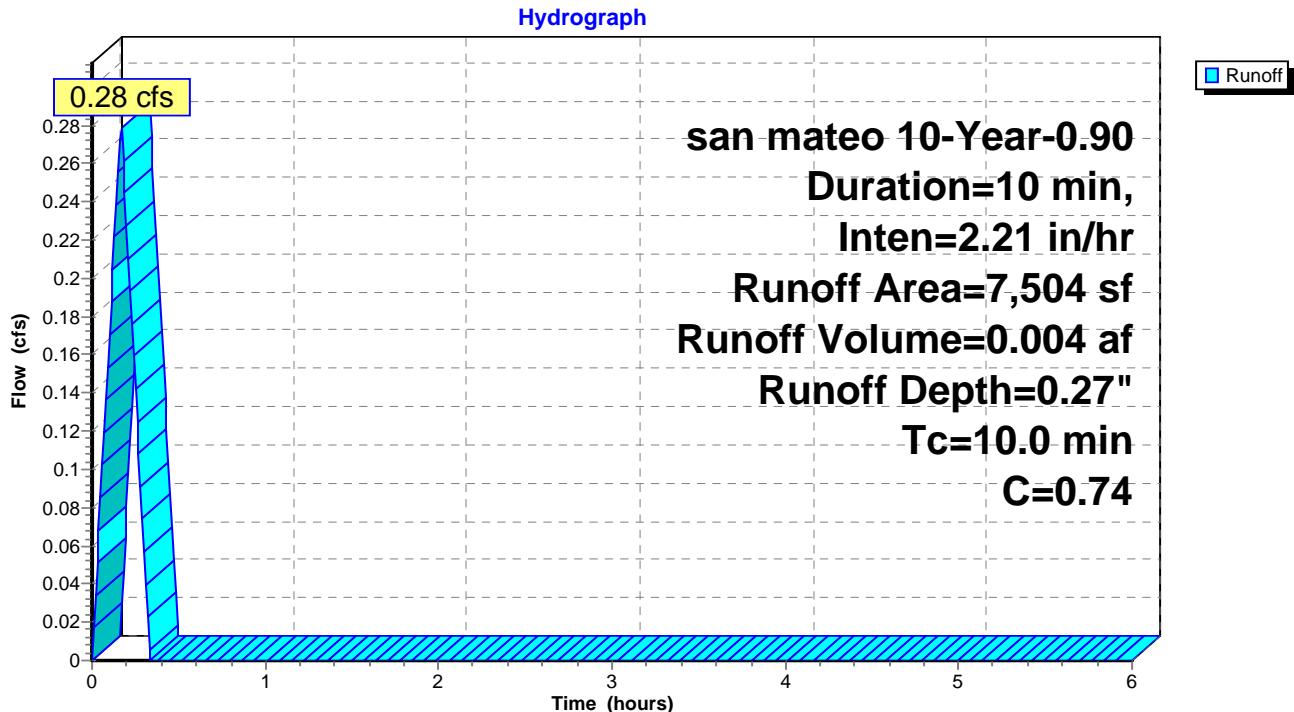
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### **Subcatchment 8S: Lot 19 Post**



**LOT 19**

san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr

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**Hydrograph for Subcatchment 8S: Lot 19 Post**

Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)	Time (hours)	Runoff (cfs)
0.00	0.00	2.65	0.00	5.30	0.00
0.05	0.09	2.70	0.00	5.35	0.00
0.10	0.17	2.75	0.00	5.40	0.00
0.15	<b>0.26</b>	2.80	0.00	5.45	0.00
0.20	<b>0.23</b>	2.85	0.00	5.50	0.00
0.25	0.14	2.90	0.00	5.55	0.00
0.30	0.06	2.95	0.00	5.60	0.00
0.35	0.00	3.00	0.00	5.65	0.00
0.40	0.00	3.05	0.00	5.70	0.00
0.45	0.00	3.10	0.00	5.75	0.00
0.50	0.00	3.15	0.00	5.80	0.00
0.55	0.00	3.20	0.00	5.85	0.00
0.60	0.00	3.25	0.00	5.90	0.00
0.65	0.00	3.30	0.00	5.95	0.00
0.70	0.00	3.35	0.00	6.00	0.00
0.75	0.00	3.40	0.00		
0.80	0.00	3.45	0.00		
0.85	0.00	3.50	0.00		
0.90	0.00	3.55	0.00		
0.95	0.00	3.60	0.00		
1.00	0.00	3.65	0.00		
1.05	0.00	3.70	0.00		
1.10	0.00	3.75	0.00		
1.15	0.00	3.80	0.00		
1.20	0.00	3.85	0.00		
1.25	0.00	3.90	0.00		
1.30	0.00	3.95	0.00		
1.35	0.00	4.00	0.00		
1.40	0.00	4.05	0.00		
1.45	0.00	4.10	0.00		
1.50	0.00	4.15	0.00		
1.55	0.00	4.20	0.00		
1.60	0.00	4.25	0.00		
1.65	0.00	4.30	0.00		
1.70	0.00	4.35	0.00		
1.75	0.00	4.40	0.00		
1.80	0.00	4.45	0.00		
1.85	0.00	4.50	0.00		
1.90	0.00	4.55	0.00		
1.95	0.00	4.60	0.00		
2.00	0.00	4.65	0.00		
2.05	0.00	4.70	0.00		
2.10	0.00	4.75	0.00		
2.15	0.00	4.80	0.00		
2.20	0.00	4.85	0.00		
2.25	0.00	4.90	0.00		
2.30	0.00	4.95	0.00		
2.35	0.00	5.00	0.00		
2.40	0.00	5.05	0.00		
2.45	0.00	5.10	0.00		
2.50	0.00	5.15	0.00		
2.55	0.00	5.20	0.00		
2.60	0.00	5.25	0.00		

**LOT 19**

*san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr*

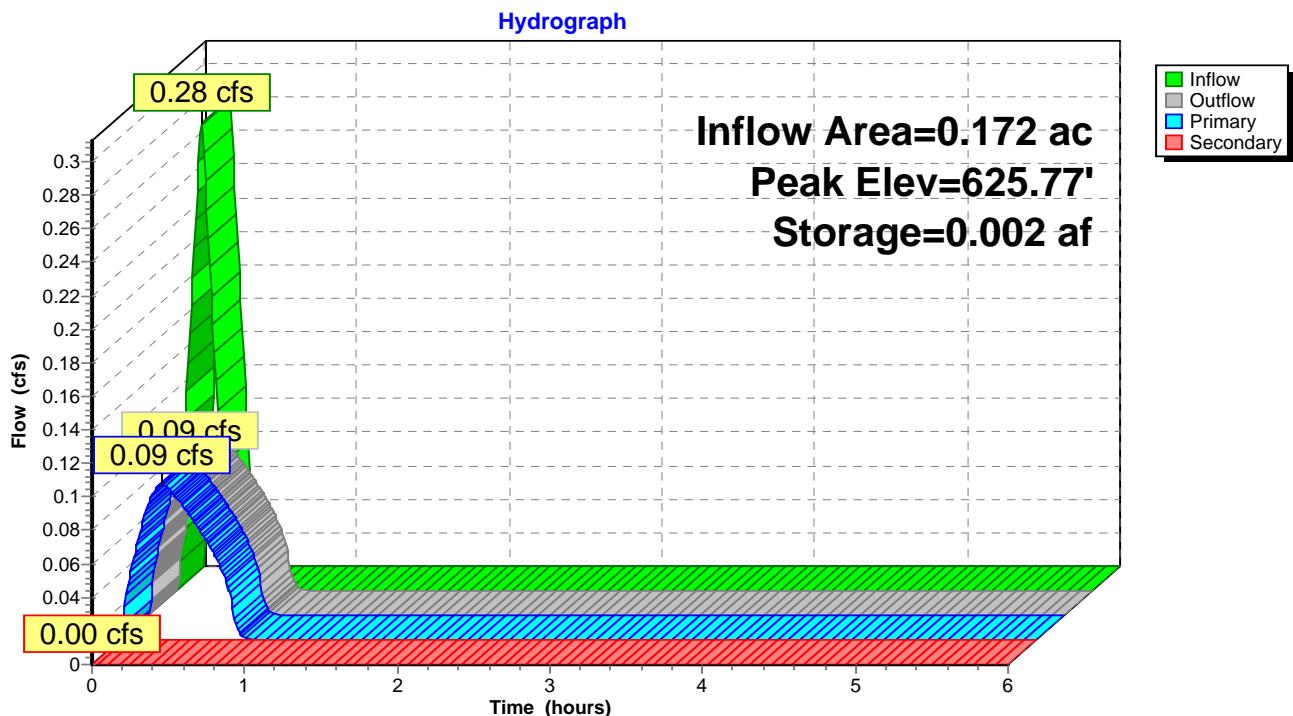
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### Pond 5P: detention basin



**LOT 19**

san mateo 10-Year-0.90 Duration=10 min, Inten=2.21 in/hr

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**Hydrograph for Pond 5P: detention basin**


Time (hours)	Inflow (cfs)	Storage (acre-feet)	Elevation (feet)	Outflow (cfs)	Primary (cfs)	Secondary (cfs)
0.00	<b>0.00</b>	0.000	625.00	0.00	0.00	<b>0.00</b>
0.20	<b>0.23</b>	<b>0.002</b>	<b>625.65</b>	<b>0.08</b>	<b>0.08</b>	0.00
0.40	0.00	<b>0.002</b>	<b>625.60</b>	<b>0.08</b>	<b>0.08</b>	0.00
0.60	0.00	0.001	625.26	0.05	0.05	0.00
0.80	0.00	0.000	625.01	0.00	0.00	0.00
1.00	0.00	0.000	625.00	0.00	0.00	0.00
1.20	0.00	0.000	625.00	0.00	0.00	0.00
1.40	0.00	0.000	625.00	0.00	0.00	0.00
1.60	0.00	0.000	625.00	0.00	0.00	0.00
1.80	0.00	0.000	625.00	0.00	0.00	0.00
2.00	0.00	0.000	625.00	0.00	0.00	0.00
2.20	0.00	0.000	625.00	0.00	0.00	0.00
2.40	0.00	0.000	625.00	0.00	0.00	0.00
2.60	0.00	0.000	625.00	0.00	0.00	0.00
2.80	0.00	0.000	625.00	0.00	0.00	0.00
3.00	0.00	0.000	625.00	0.00	0.00	0.00
3.20	0.00	0.000	625.00	0.00	0.00	0.00
3.40	0.00	0.000	625.00	0.00	0.00	0.00
3.60	0.00	0.000	625.00	0.00	0.00	0.00
3.80	0.00	0.000	625.00	0.00	0.00	0.00
4.00	0.00	0.000	625.00	0.00	0.00	0.00
4.20	0.00	0.000	625.00	0.00	0.00	0.00
4.40	0.00	0.000	625.00	0.00	0.00	0.00
4.60	0.00	0.000	625.00	0.00	0.00	0.00
4.80	0.00	0.000	625.00	0.00	0.00	0.00
5.00	0.00	0.000	625.00	0.00	0.00	0.00
5.20	0.00	0.000	625.00	0.00	0.00	0.00
5.40	0.00	0.000	625.00	0.00	0.00	0.00
5.60	0.00	0.000	625.00	0.00	0.00	0.00
5.80	0.00	0.000	625.00	0.00	0.00	0.00
6.00	0.00	0.000	625.00	0.00	0.00	0.00

## **Appendix C**



**Storm Drain Design by Rational Formula - County of San Mateo  
Ascension Heights Subdivision  
Ascension Dr and Bel Aire Rd, San Mateo  
10 YEAR STORM  
County - Line "C" (Existing)  
Exhibit A.1**

Lea & Braze Job # 2010135



**Storm Drain Design by Rational Formula - County of San Mateo**  
**Ascension Heights Subdivision**  
**Ascension Dr and Bel Aire Rd, San Mateo**  
**10 YEAR STORM**  
**North Side - Line "N"**  
**Exhibit A.2**

Lea & Braze Job # 2010135

Label	Description	Tc (min)	Local Intensity (in/hr)	Area Designation	Area (sf)	Area (acres)	C	System Contributing flow (cfs)	Total System Flow (cfs)	Pipe Size (inches)	Pipe Type	Manning's "n"	Pipe Length (ft)	Pipe Slope (ft/ft)	Average Velocity (ft/s)	Pipe Flow Time (min)	Pipe Capacity (cfs)	Exceeds Capacity
CB-N1	(N) COUNTY INLET	10.00	2.21	AREA N-16	10130	0.23	0.95	0.49	0.49	12	HDPE	0.011	67	2.00%	2.528	0.44	5.95	'NO
P-N1																		
SDMH-N1	(N) COUNTY MANHOLE	10.44	2.17	AREA N-9	15982	0.37		0.12										
				AREA N-9a	4253	0.10	0.50	0.11										
P-N2									0.71	12	HDPE	0.011	96	9.05%	5.379	0.30	12.66	'NO
SDMH-N2	(N) COUNTY MANHOLE	10.74	2.15	AREA N-8	9466	0.22		0.11										
P-N3									0.82	12	HDPE	0.011	107	1.87%	2.445	0.73	5.76	'NO
SDMH-N3	(N) COUNTY MANHOLE	11.47	2.10															
P-N4									0.82	12	HDPE	0.011	586	4.61%	3.839	2.54	9.04	'NO
SDMH-N4	(N) COUNTY MANHOLE	14.01	1.92	AREA N-7	8912	0.20		0.10										
				AREA N-6	9964	0.23		0.11										
				AREA N-5	7500	0.17		0.09										
				AREA N-4	7500	0.17		0.09										
				AREA N-3	7500	0.17		0.09										
				AREA N-2	9000	0.21		0.10										
				AREA N-1	9827	0.23		0.11										
P-N5									1.51	12	HDPE	0.011	66	6.06%	4.401	0.25	10.36	'NO
CB-N2	(N) COUNTY INLET	10.00	2.21	AREA N-10	9707	0.22		0.10										
				AREA N-11	9500	0.22		0.10										
				AREA N-12	9466	0.22		0.10										
				AREA N-17	7898	0.18	0.95	0.38										
P-N6									0.68	12	HDPE	0.011	124	16.13%	7.181	0.29	16.90	'NO
CB-N7	(N) COUNTY INLET	10.29	2.18	AREA N-18	7135	0.16	0.95	0.34										
P-N7									1.02	12	HDPE	0.011	21	1.00%	1.788	0.20	4.21	'NO
CB-N3	(N) COUNTY INLET	10.00	2.21	AREA N-19	6196	0.14	0.5	0.16										
P-N8									0.16	12	HDPE	0.011	43	1.00%	1.788	0.40	4.21	'NO
SDMH-N5	(N) COUNTY MANHOLE	10.40	2.18															
P-N9									0.16	12	HDPE	0.011	140	16.35%	7.229	0.32	17.02	'NO
CB-N4	(N) COUNTY INLET	10.72	2.15	AREA N-20	7114	0.16	0.95	0.33										
P-N10									0.49	12	HDPE	0.011	154	15.62%	7.066	0.36	16.64	'NO
CB-N5	(N) COUNTY INLET	11.09	2.13	AREA N-21	7691	0.18	0.95	0.36										
P-N11									0.85	12	HDPE	0.011	123	16.15%	7.185	0.29	16.92	'NO
CB-N6	(N) COUNTY INLET	11.37	2.11	AREA N-13	9466	0.22	0.95	0.10										
				AREA N-14	9500	0.22	0.95	0.10										
				AREA N-15	8669	0.20	0.95	0.10										
				AREA N-15a	1086	0.02	0.5	0.03										
				AREA N-22	5214	0.12	0.95	0.24										
P-N12									1.41	12	HDPE	0.011	126	12.39%	6.293	0.33	14.82	'NO
CB-N8	(N) COUNTY INLET	10.00	2.21	AREA N-23	6389	0.15	0.95	0.31										
P-N13									0.31	12	HDPE	0.011	38	1.00%	1.788	0.35	4.21	'NO
SDMH-N6	(N) COUNTY MANHOLE	10.29	2.18															
P-N14									2.74	12	HDPE	0.011	72	11.11%	5.959	0.20	14.03	'NO
SDMH-N7	(N) COUNTY MANHOLE	10.49	2.17															
P-N15									4.25	12	HDPE	0.011	110	18.18%	7.623	0.24	17.95	'NO
SDMH-N8	(N) COUNTY MANHOLE	10.73	2.15															
P-N16									4.25	12	HDPE	0.011	42	14.00%	6.690	0.10	15.75	'NO
SDMH-N9	(N) COUNTY MANHOLE	10.83	2.14	AREA N-24	17172	0.39	0.95	0.80										
P-N17									5.06	12	HDPE	0.011	28	7.43%	4.873	0.10	11.47	'NO
SDMH-N10	(N) COUNTY MANHOLE	10.93	2.14															

Label	Description	Tc (min)	Local Intensity (in/hr)	Area Designation	Area (sf)	Area (acres)	C	System Contributing flow (cfs)	Total System Flow (cfs)	Pipe Size (inches)	Pipe Type	Manning's "n"	Pipe Length (ft)	Pipe Slope (ft/ft)	Average Velocity (ft/s)	Pipe Flow Time (min)	Pipe Capacity (cfs)	Exceeds Capacity
P-N18									5.06	12	HDPE	0.011	162	8.23%	5.129	0.53	12.08	'NO
SDMH-N11	(N) COUNTY MANHOLE	11.46	2.10															
P-N19									5.06	12	HDPE	0.011	491	14.05%	6.702	1.22	15.78	'NO
SDMH-C2	(N) COUNTY MANHOLE	11.46	2.10															



Storm Drain Design by Rational Formula - County of San Mateo

Lea & Braze Job # 2010135

## **Ascension Heights Subdivision**

10 YEAR STORM

## **Exhibit A-2**



**Storm Drain Design by Rational Formula - County of San Mateo  
Ascension Heights Subdivision  
Ascension Dr and Bel Aire Rd, San Mateo  
10 YEAR STORM  
County - Line "C"  
Exhibit A-2**

**Lea & Braze Job #** 2010135

**ASCENSION DR. & BEL AIRE RD.  
SAN MATEO, CA**

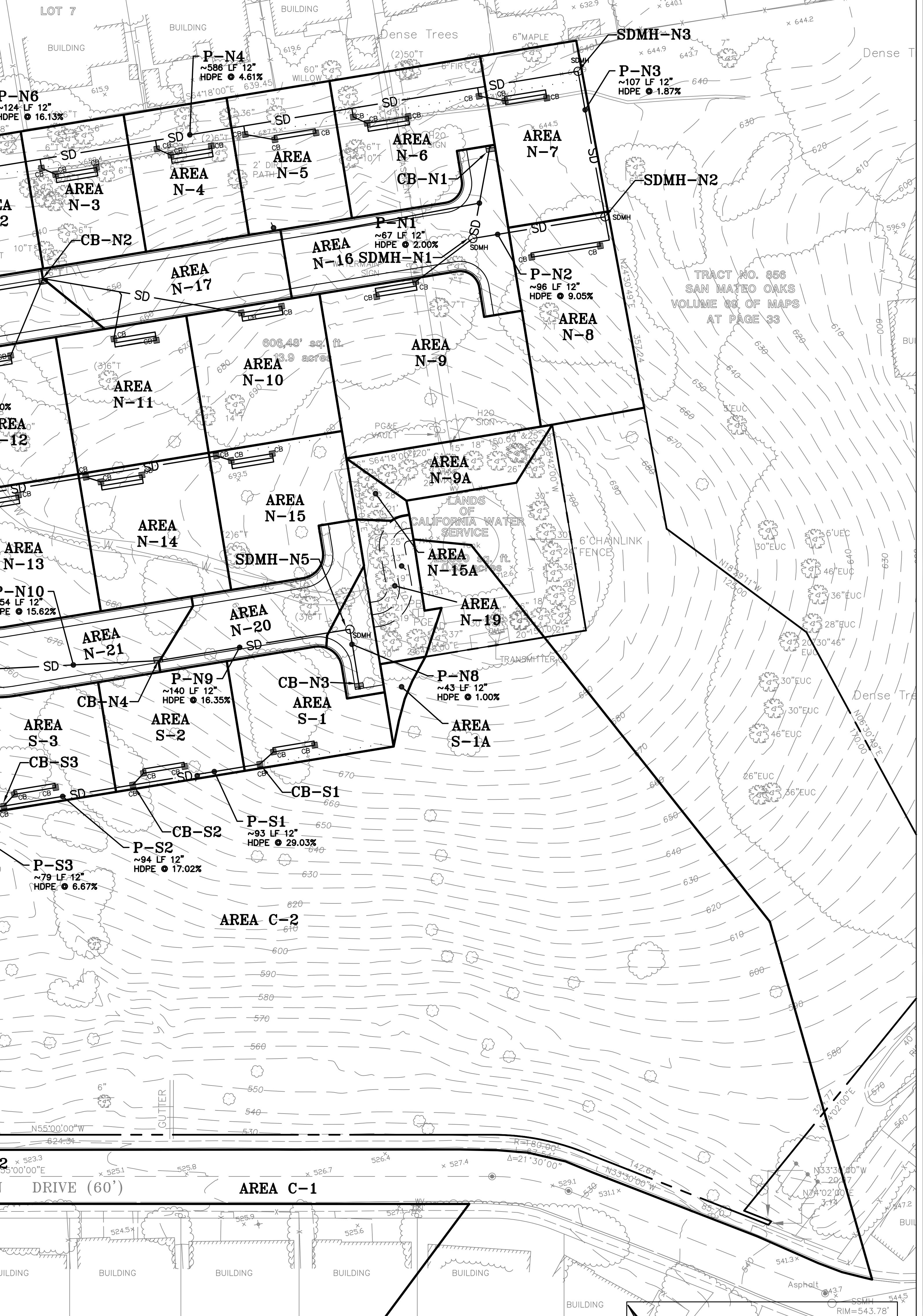
**EXHIBIT A.2  
PROPOSED STORM DRAIN  
SYSTEM  
HYDRO BASE MAP**

REVISIONS BY  
JOB NO: 2010135  
DATE: 3-9-10  
SCALE: 1" = 40'  
DRAWN BY: PT  
SHEET NO:  
1

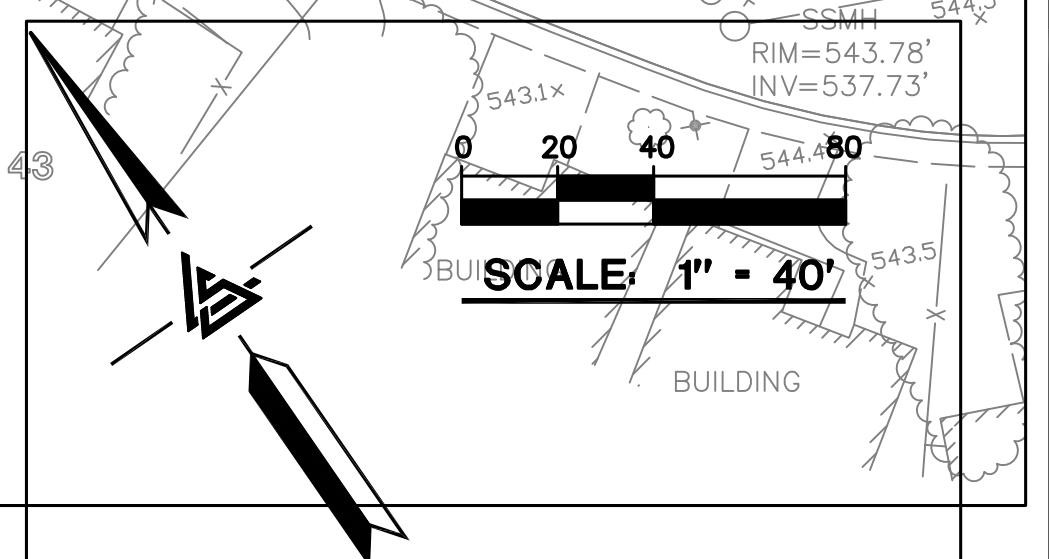
THIS SURVEY IS NOT AN ALTA SURVEY. EASEMENTS  
AND/OR CLOUDS ON TITLE MAY EXIST. THE  
PROPERTY OWNER SHOULD CAREFULLY EXAMINE  
FULL TITLE DOCUMENTS TO DETERMINE THE  
EXISTENCE OF SAME.

TRACT NO. 650  
BAYWOOD PARK  
VOLUME 34 OF MAPS  
AT PAGES 24, 25, AND 26

**AREA C-7 LOT 8**



NOTE: THESE ARE  
REDUCTIONS OF FULL  
SIZED SCALED PLANS




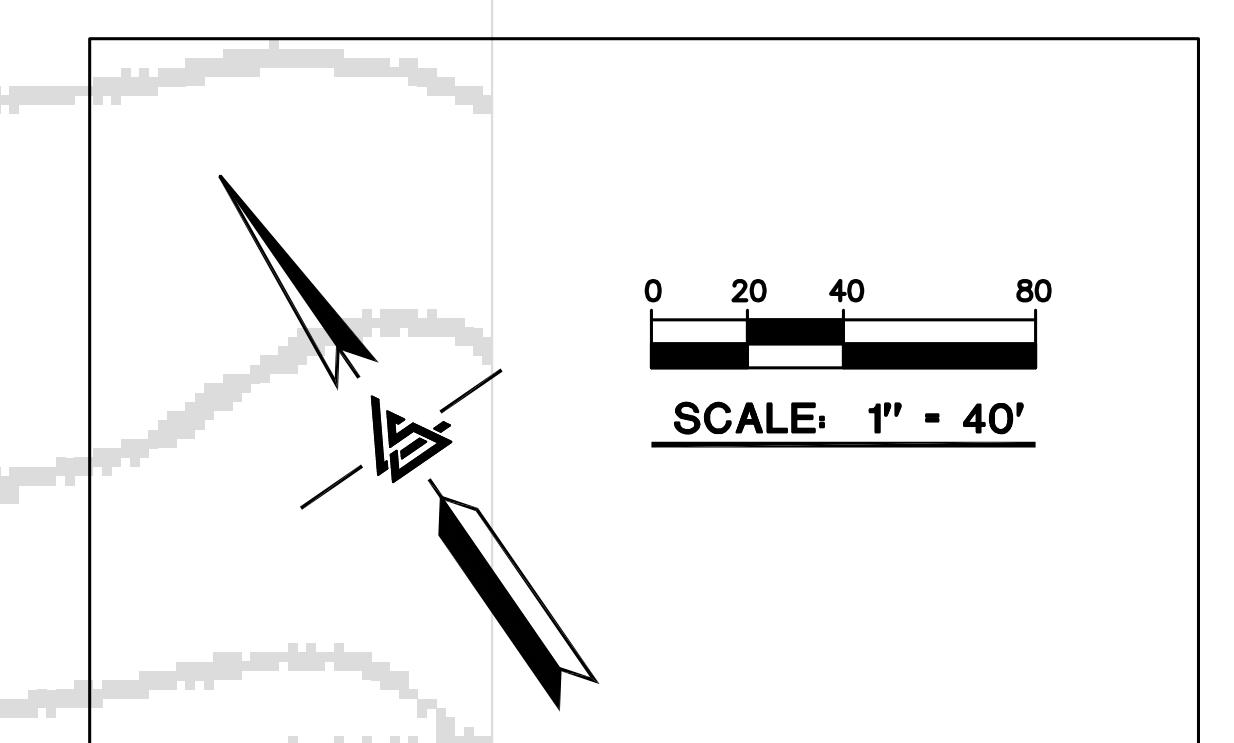
ASCENSION DR. & BEL AIRE RD.  
SAN MATEO, CA

SAN MATEO COUNTY

EXHIBIT A.2  
PROPOSED STORM DRAIN  
SYSTEM  
HYDRO BASE MAP

REVISIONS	BY
JOB NO:	2010135
DATE:	3-9-10
SCALE:	1" = 40'
DRAWN BY:	PT
SHEET NO:	1
OF	2
SHEETS	

NOTE: THESE ARE  
REDUCTIONS OF FULL  
SIZED SCALED PLANS

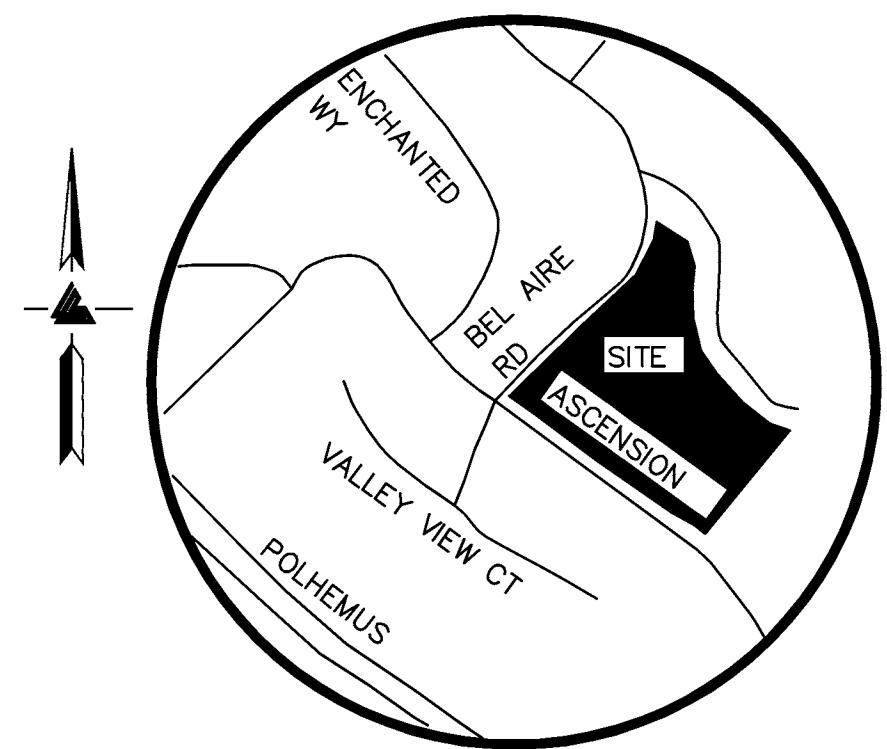


## **Appendix D**

# VESTING TENTATIVE SUBDIVISION MAP ASCENSION HEIGHTS SUBDIVISION SAN MATEO, CALIFORNIA (UNINCORPORATED)



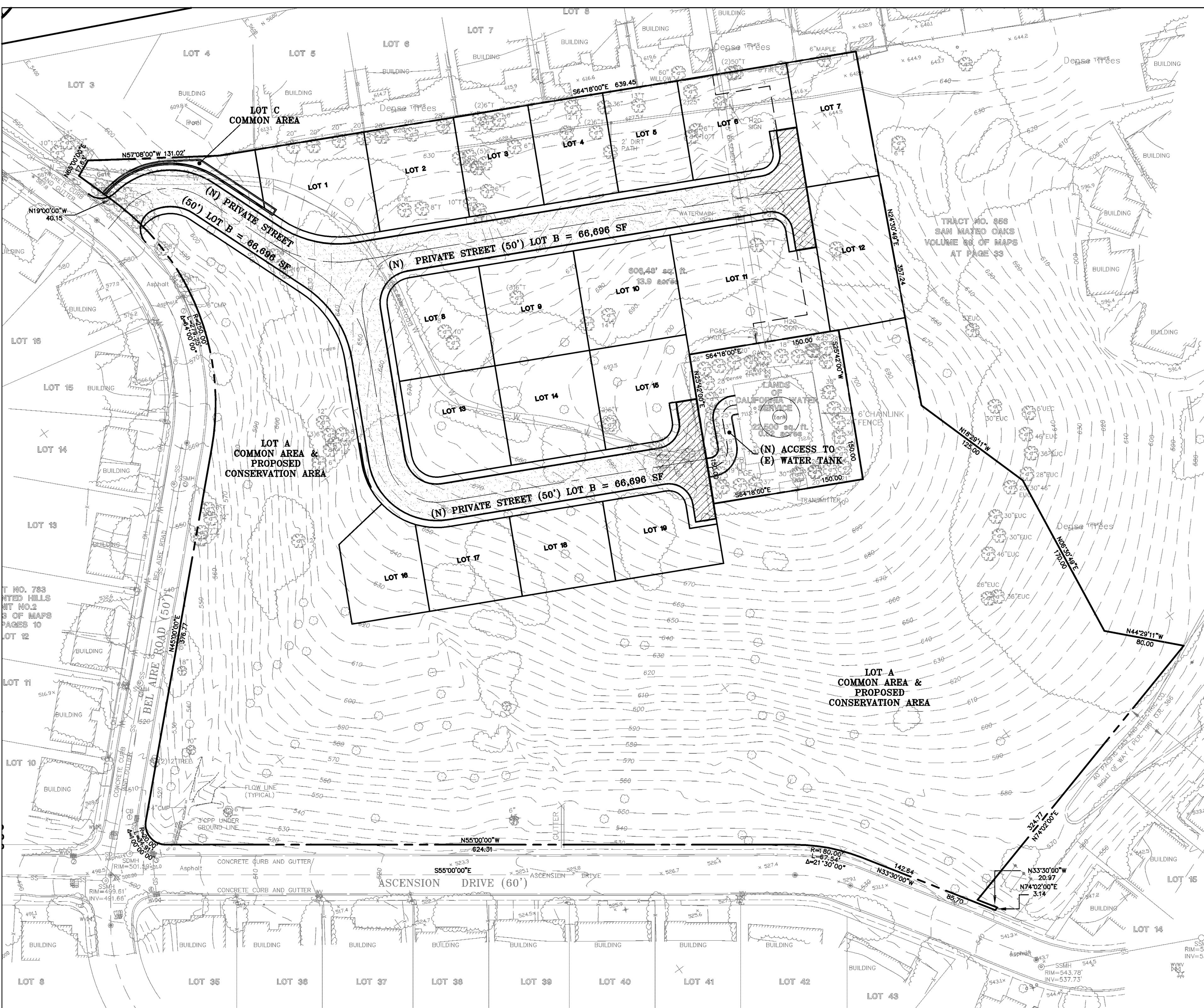
No. 63127  
Exp. 06-30-12



VICINITY MAP  
NO SCALE

LEGEND

EXISTING	PROPOSED	DESCRIPTION
—	—	BOUNDARY
—	—	PROPERTY LINE
SD	—	STORM DRAIN LINE
SS	—	SANITARY SEWER LINE
W	—	WATER LINE
→	—	SET BACK LINE
—	—	FLOW DIRECTION
—	—	RETAINING WALL
—	—	CONCRETE VALLEY GUTTER
—	—	SWALE FLOW DIRECTION
—	—	CONTOURS
—	—	SANITARY SEWER MANHOLE
—	—	SANITARY SEWER CLEANOUT
—	—	STORM DRAIN MANHOLE
—	—	OVERHEAD UTILITY LINE
—	—	STORM WATER TREATMENT UNIT
—	—	SANITARY SEWER UNDERGROUND LINE
—	—	STORM DRAIN UNDERGROUND LINE
—	—	PINE TREE (UNLESS NOTED)
—	—	MISC. UTILITIES
—	—	FIRE HYDRANT
—	—	ELECTRIC POLE
—	—	TREE
—	—	JOINT POLE
—	—	CATCH BASIN
—	—	CURB INLET
—	—	JUNCTION BOX
—	—	ELECTROLIER
—	—	SMALL SIGN
—	—	LIGHT ON POLE
—	—	GUY ANCHOR
—	—	POST
—	—	FENCE
—	—	TREE
—	—	DENSE TREE LINE
—	—	SPOT ELEVATION
—	—	HORIZONTAL AND VERTICAL CONTROL
—	—	PALM TREE
—	—	CITY MONUMENT
—	—	PACIFIC BELL VAULT
—	—	PG&E VAULT
—	—	GUY ANCHOR
—	—	AREA DRAIN
—	—	TREE TO BE REMOVED
—	—	XX" TREE



KEY MAP  
SCALE: 1" - 60'

**BENCHMARK**  
IRON PIPE MONUMENT IN HAND HOLE  
PER. TRACT NO. 783  
ENCHANTED HILL UNIT NO. 2  
VOLUME 53 OF MAPS  
AT PAGE 10  
ELEVATION=583.61'  
ASSUMED

SHEET INDEX

SHEET NO.	DESCRIPTION
C-1	TITLE SHEET
C-2	LOT LAYOUT PLAN
C-3	PRELIMINARY GRADING AND DRAINAGE PLAN
C-4	PRELIMINARY UTILITY COMPOSITE PLAN
C-5	CONCEPTUAL DETAILS

VESTING TENTATIVE  
SUBDIVISION MAP  
TITLE SHEET

ASCENSION HEIGHTS  
SUBDIVISION  
SAN MATEO, CALIFORNIA  
(UNINCORPORATED) SAN MATEO COUNTY

LEA & BRAZE ENGINEERING, INC.  
CIVIL ENGINEERS • LAND SURVEYORS  
2495 INDUSTRIAL PARKWAY WEST  
HAYWARD, CA 94545  
PH: (510) 887-4086  
FAX: (510) 887-3019  
WWW.LEABRAZE.COM

JOB NO: 2010135  
DATE: 11-08-11  
SCALE: 1" = 60'  
DESIGN BY: JT  
DRAWN BY: TB  
SHEET NO:

**C-1**

OF 5 SHEETS



ASCENSION HEIGHTS  
SUBDIVISION  
SAN MATEO, CALIFORNIA  
(UNINCORPORATED) SAN MATEO COUNTY

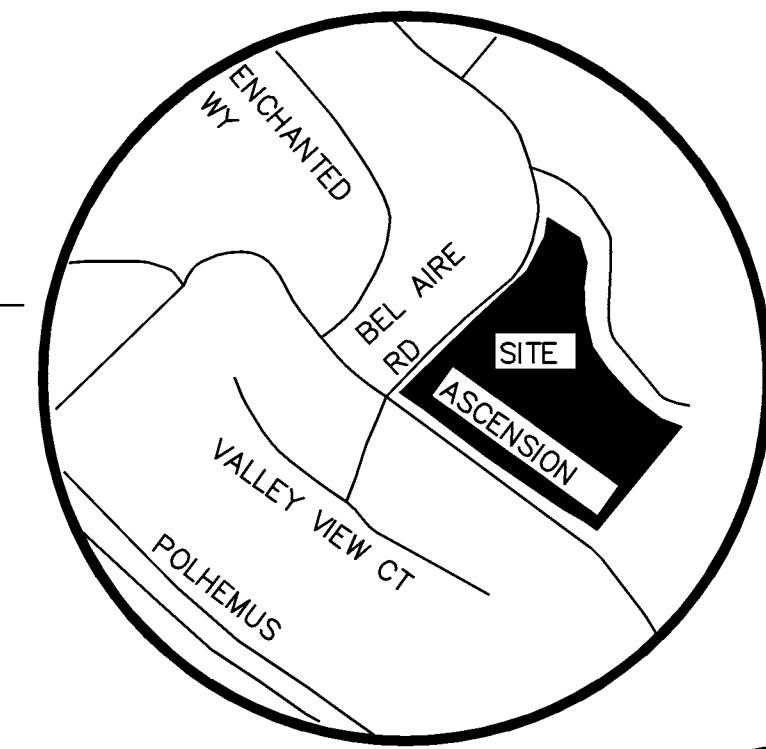
VESTING TENTATIVE  
SUBDIVISION MAP  
PRELIMINARY GRADING  
AND DRAINAGE PLAN

GRADING LEGEND

PROPOSED	DESCRIPTION
→	FLOW DIRECTION
GB	GRADE BREAK
—	RETAINING WALL
~ ~ ~	GRASSY SWALE
—	SWALE FLOW DIRECTION
—	CONTOURS
[X:X']	APPROXIMATE WALL HEIGHT

ESTIMATED EARTHWORK QUANTITIES  
CUT 46,480 C.Y.  
FILL 19,970 C.Y.  
EXPORT 26,510 C.Y.  
CONTRACTOR TO VERIFY QUANTITIES

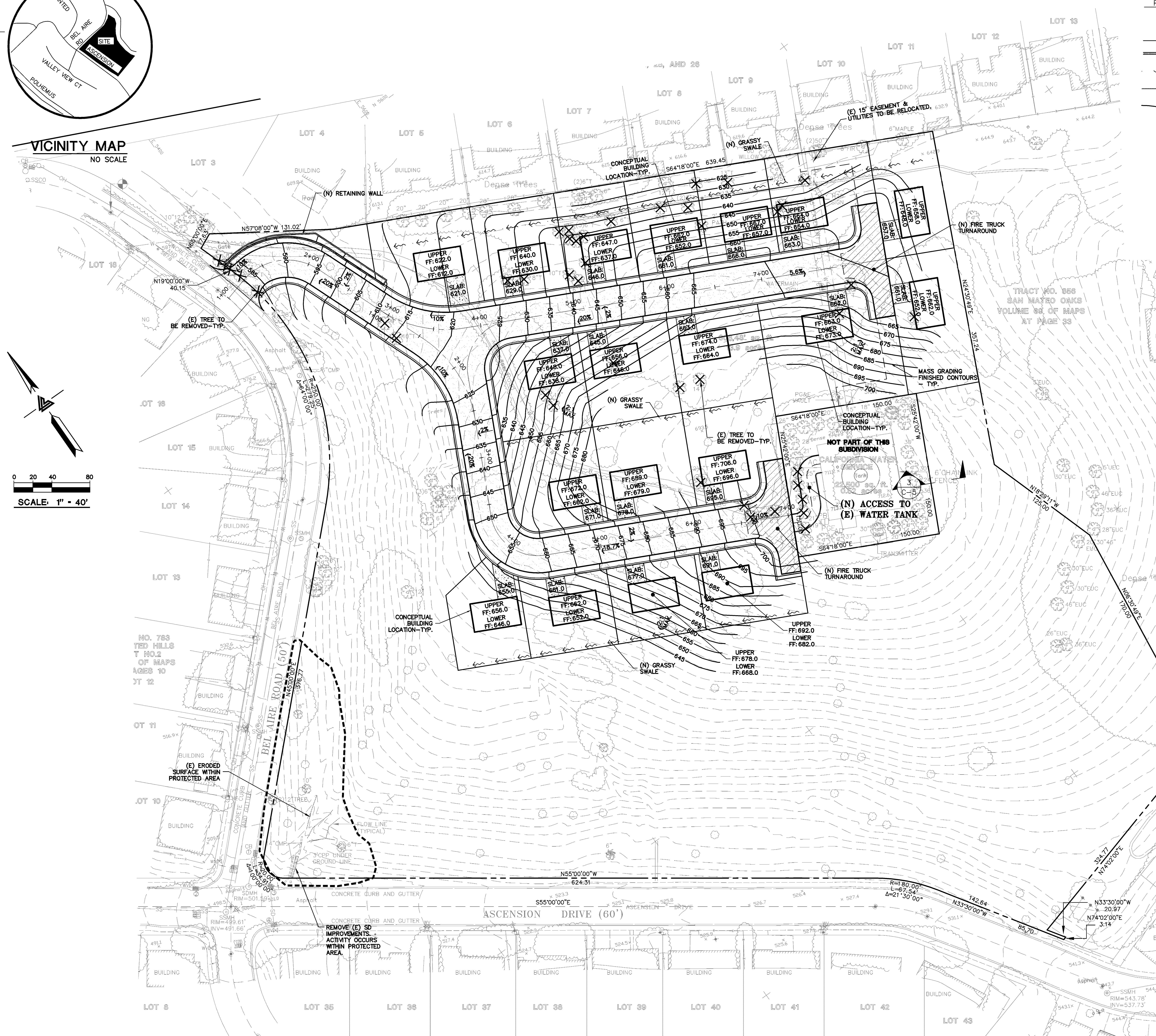
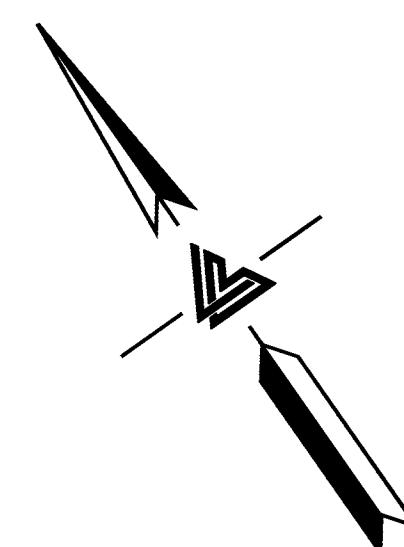
NOTE:  
BUILDINGS SHOWN ARE CONCEPTUAL  
ONLY AND ARE NOT TO BE  
CONSTRUCTED AS SHOWN. THEY  
ARE SHOWN FOR PLANNING DEPT.  
PURPOSES ONLY.



VICINITY MAP

NO SCALE

SCALE: 1" - 40'

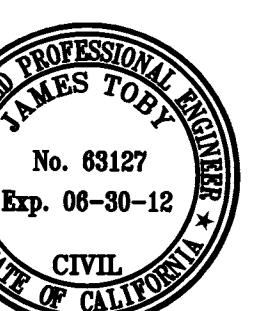


REVISIONS BY  
JOB NO: 2010135  
DATE: 11-08-11  
SCALE: 1" = 40'

DESIGN BY: JT  
DRAWN BY: TB  
SHEET NO:

C-3

OF 5 SHEETS



## UTILITY LEGEND

<u>PROPOSED</u>	<u>DESCRIPTION</u>
—SD—	STORM DRAIN LINE
—SS—	SANITARY SEWER LINE
—W—	WATER LINE
○ SSMH	SANITARY SEWER MANHOLE
○ SSCO	SANITARY SEWER CLEAN OUT
○ SDMH	STORM DRAIN MANHOLE
❖	FIRE HYDRANT
■ CB	CATCH BASIN
■■■	CURB INLET
■■■ JB	JUNCTION BOX

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886  
-3019  
.COM

ASCENSION HEIGHTS  
SUBDIVISION  
SAN MATEO, CALIFORNIA

UNINCORPORATED) SAN MATEO COUNTY

**VESTING TENTATIVE  
SUBDIVISION MAP  
RELIMINARY UTILITY  
COMPOSITE PLAN**

COMPOSITE LAN

REVI  
OB NO:  
ATE:  
CALE:  
ESIGN E  
RAWN E  
HEET N

100

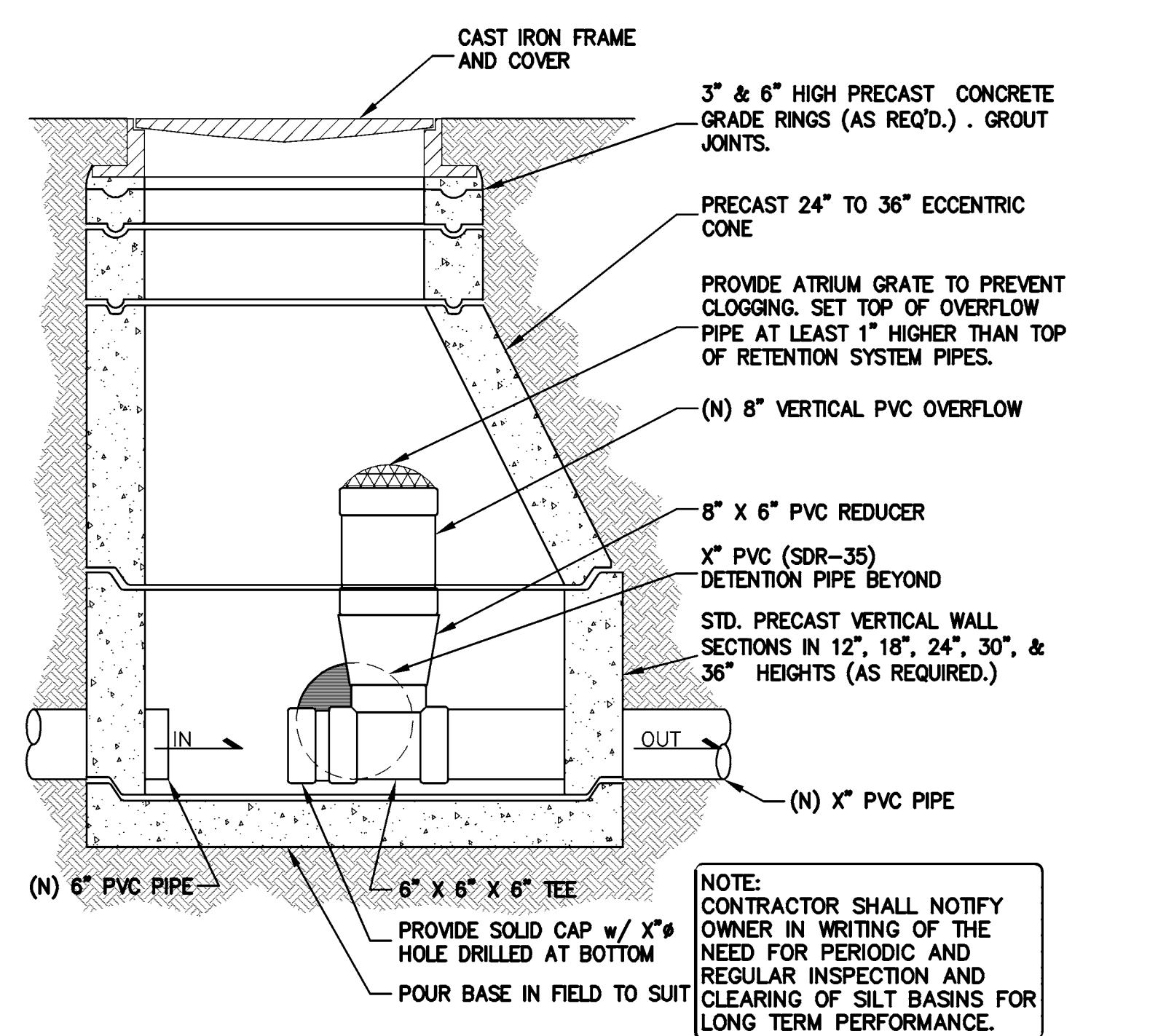
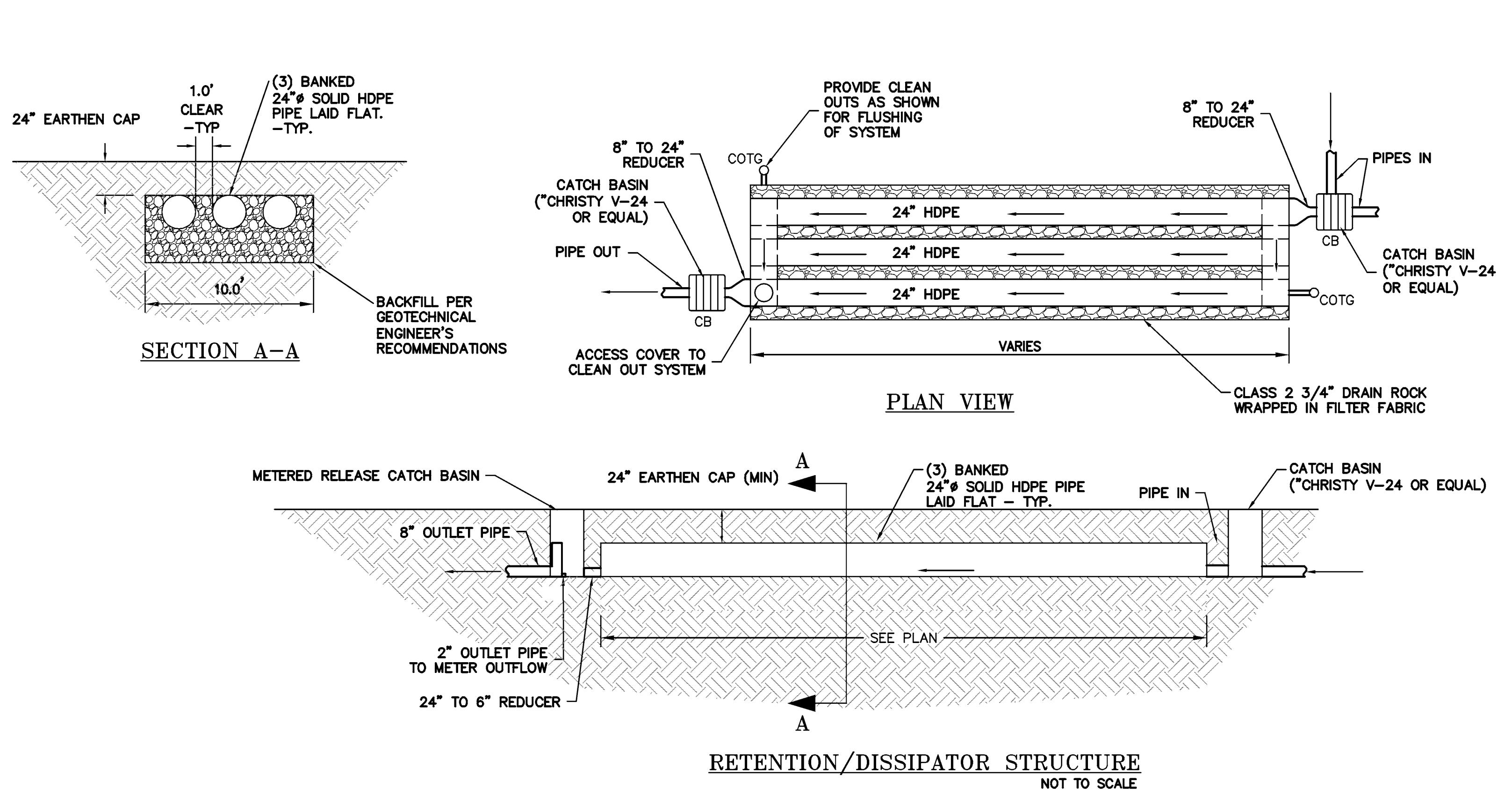
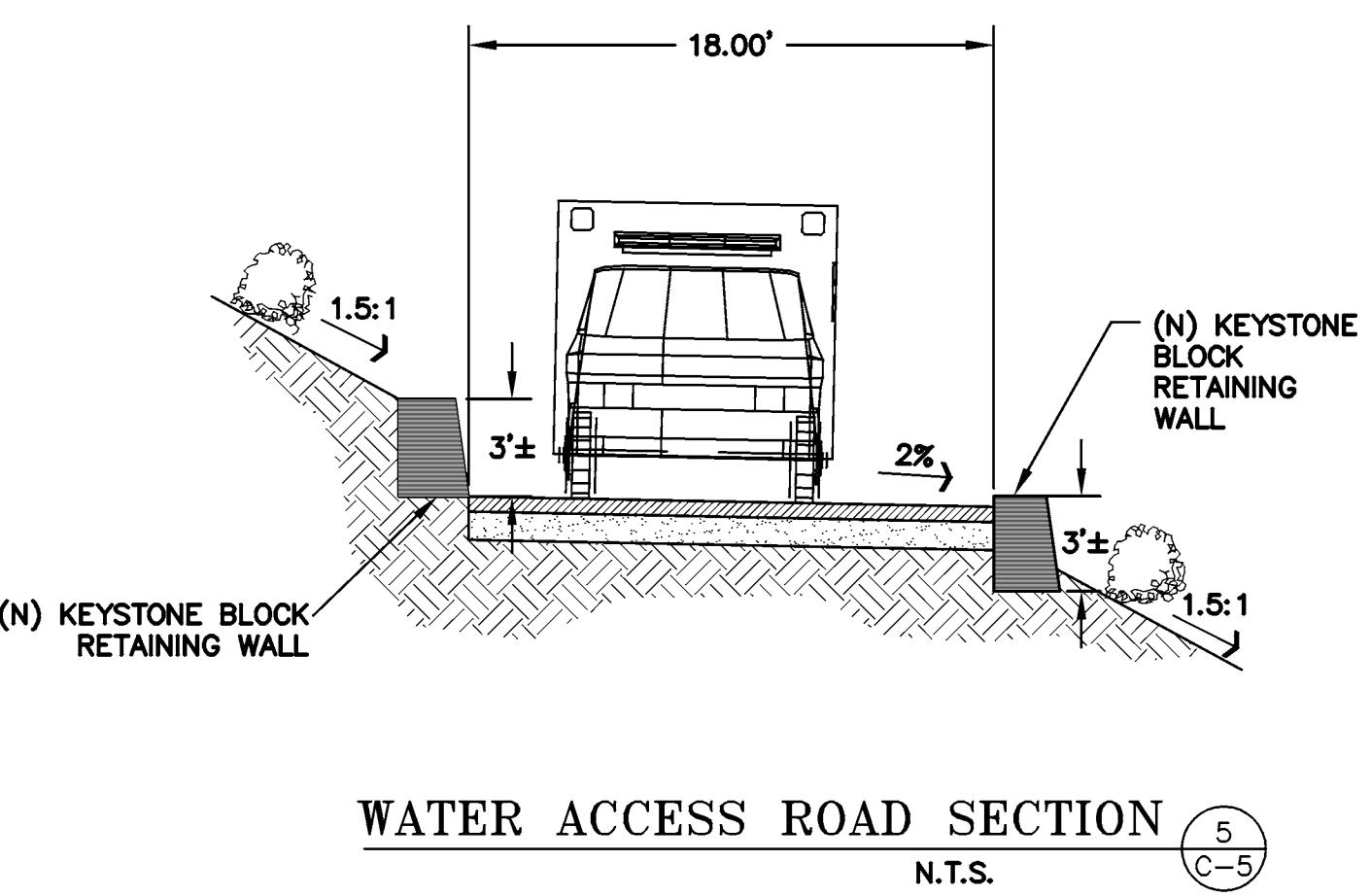
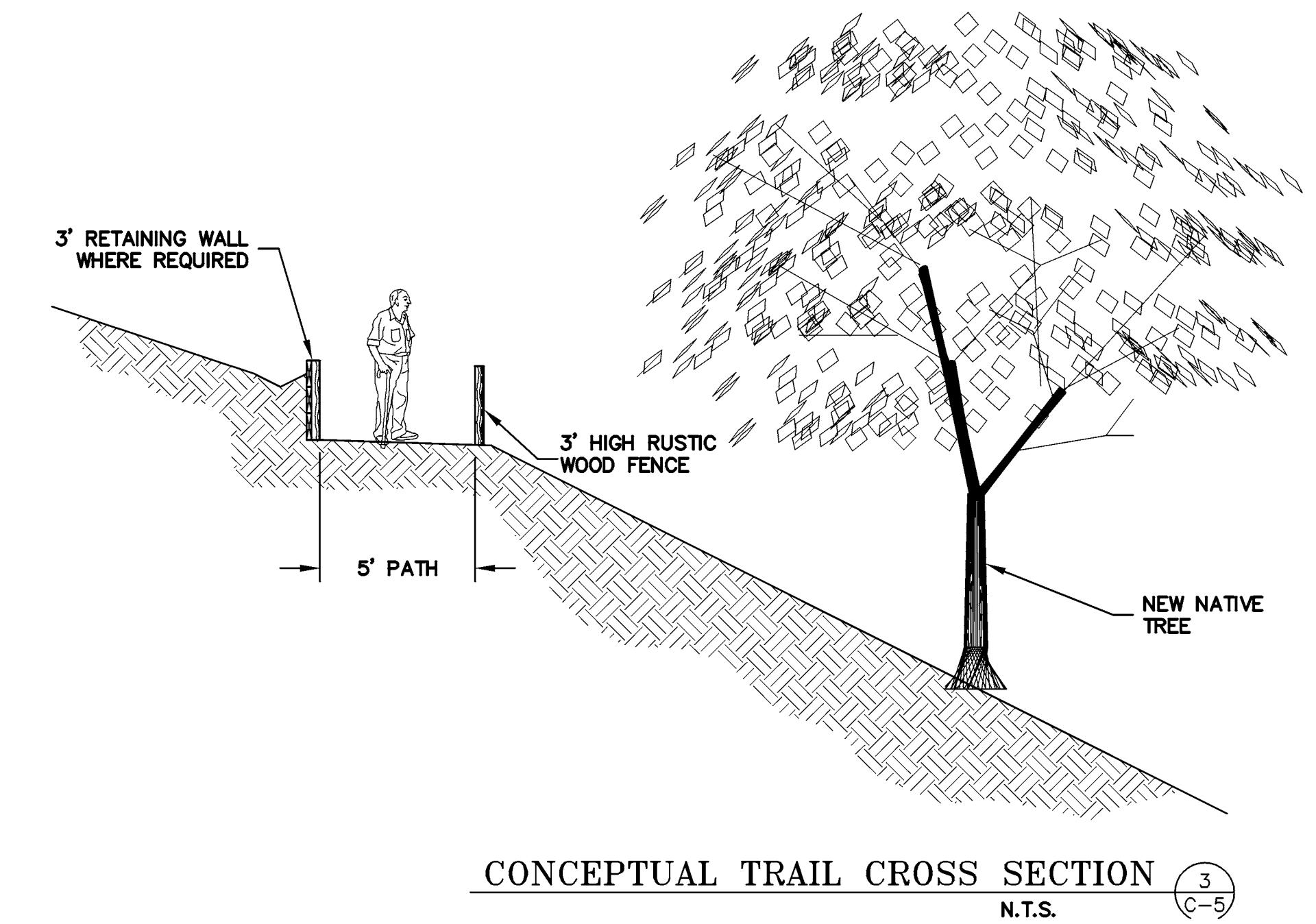
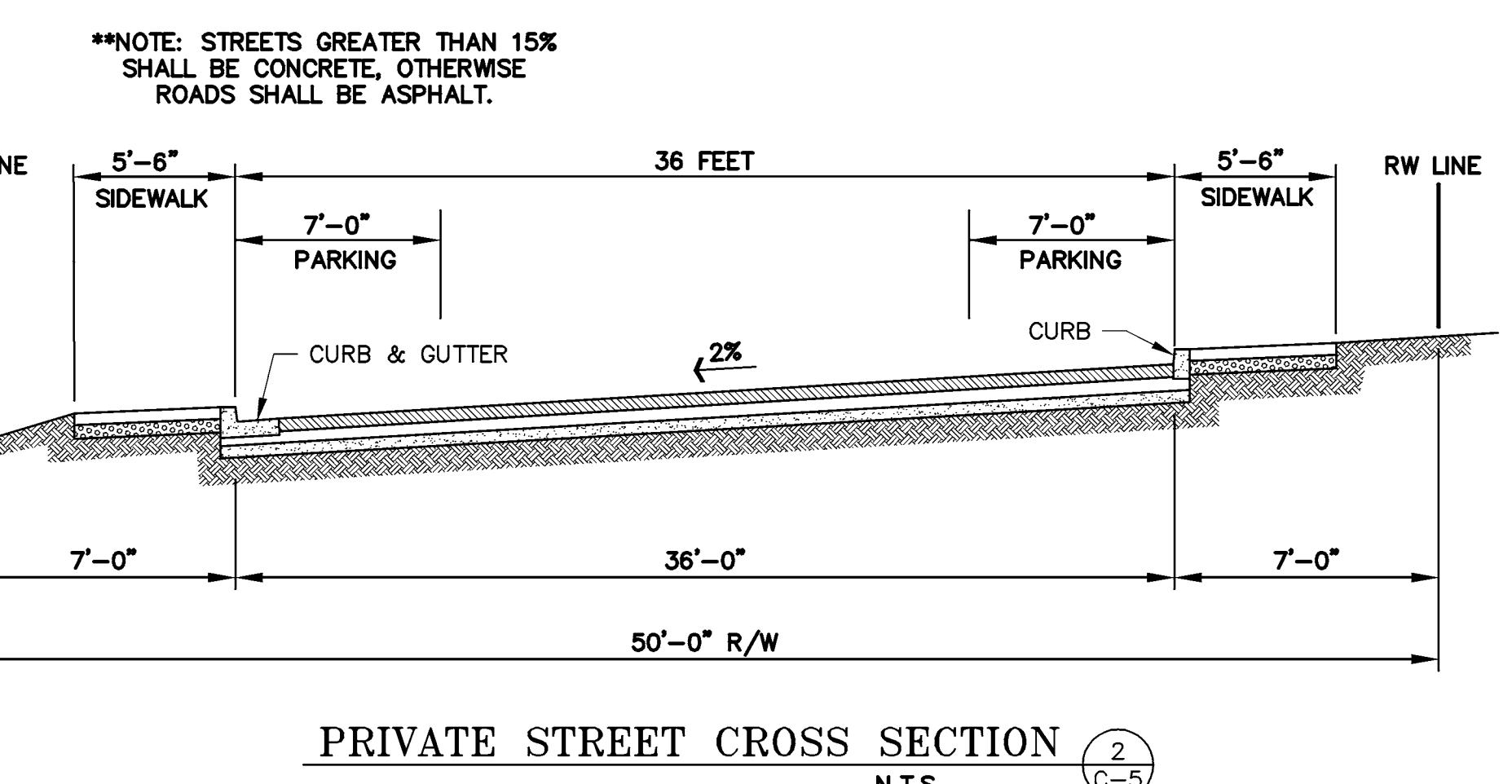
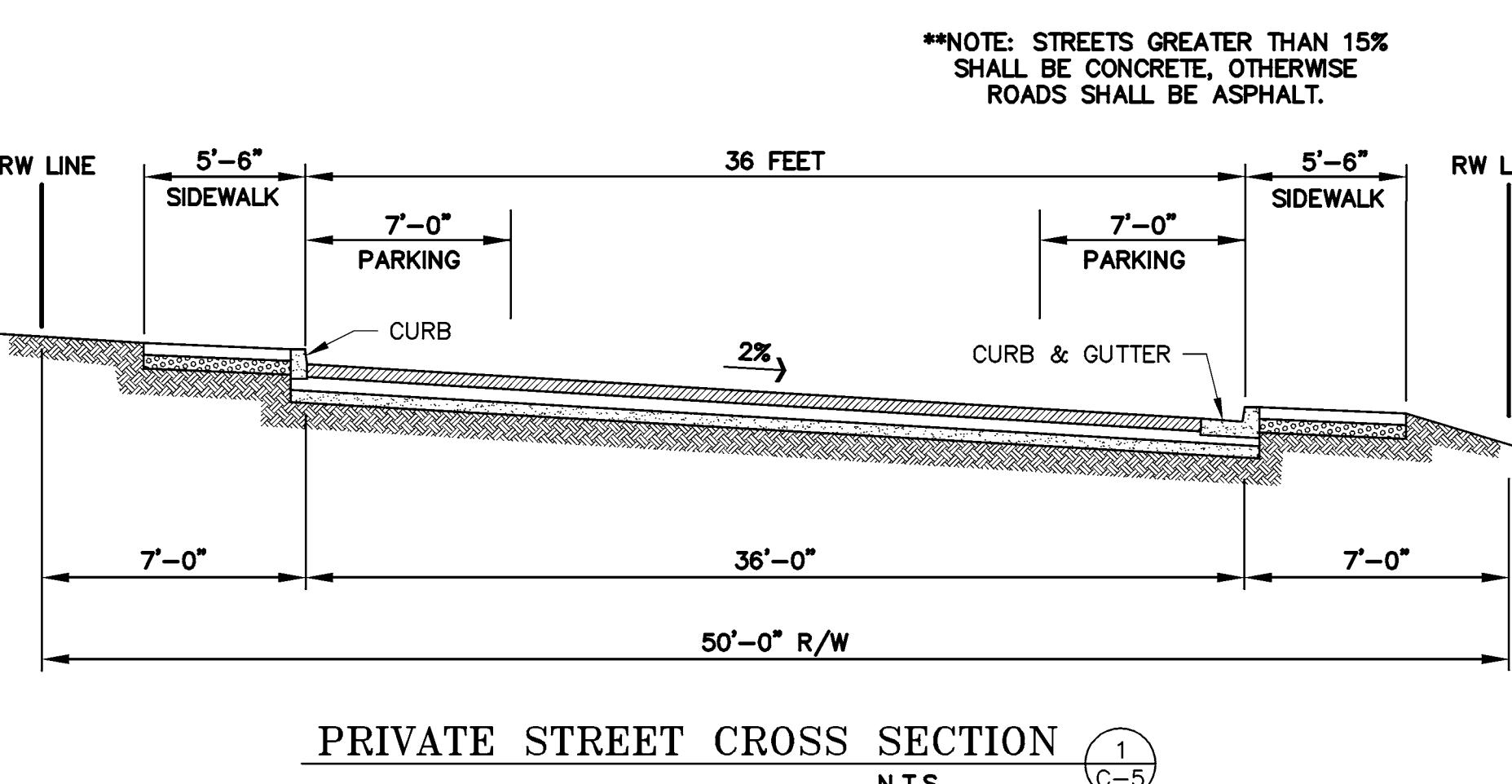
6

25

25

OF

OF 5 SHEETS



METERED RELEASE OUTLET  
 NOT TO SCALE

## **Appendix E**

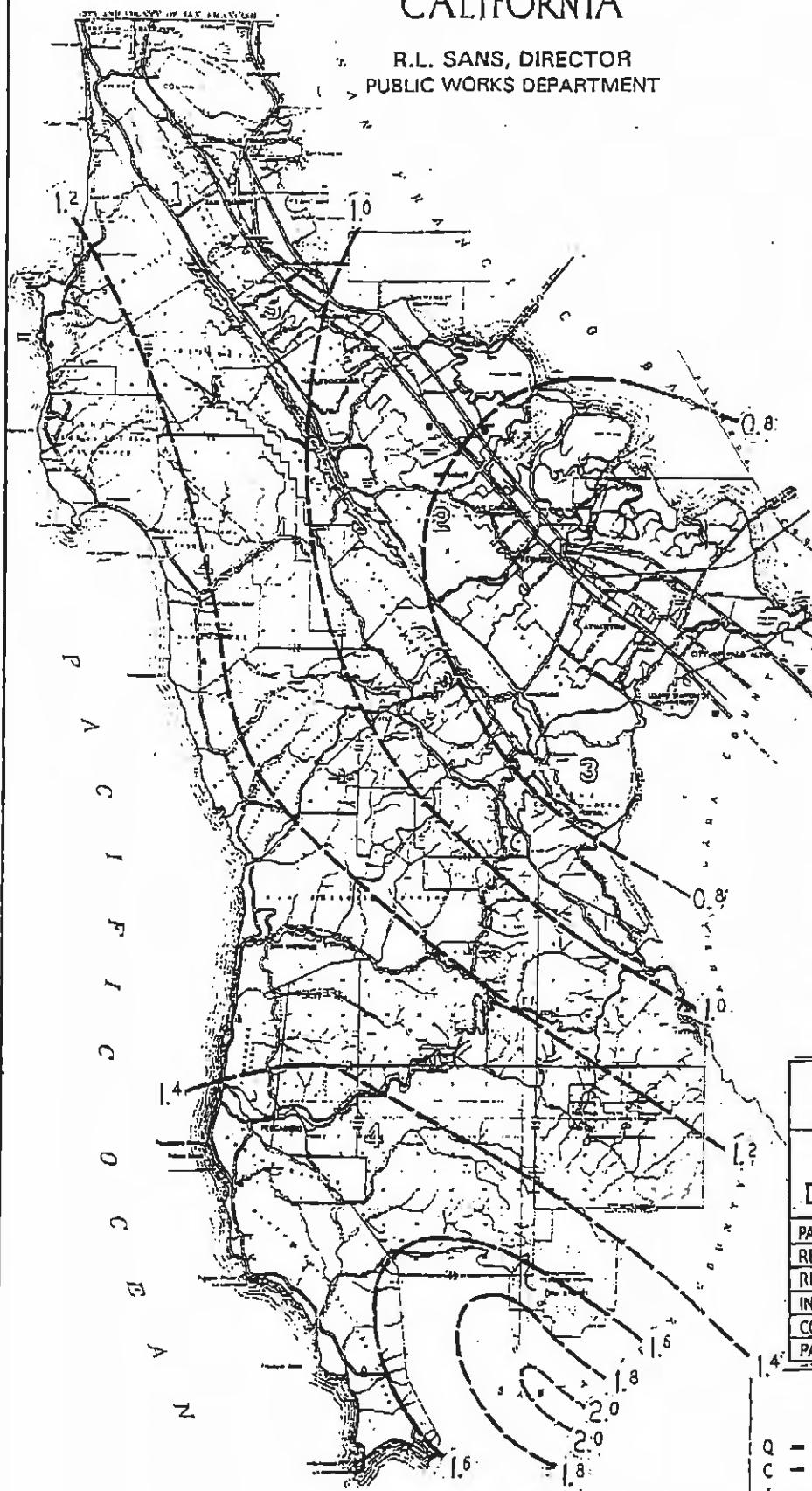
# RAINFALL RUNOFF DATA

## SAN MATEO COUNTY

### CALIFORNIA



R.L. SANS, DIRECTOR  
PUBLIC WORKS DEPARTMENT



TIME OF CONCENTRATION	INTENSITY INCHES PER HOUR	10 YR.	100 YR.
HRS. MIN.			
0--10	2.45	3.60	
0--15	2.05	3.00	
0--20	1.73	2.55	
0--25	1.50	2.22	
0--30	1.33	1.95	
0--35	1.20	1.75	
0--40	1.10	1.61	
0--45	1.02	1.49	
0--50	0.95	1.37	
0--55	0.90	1.28	
1--00	0.86	1.21	
1--15	0.75	1.07	
1--30	0.67	0.95	
1--45	0.61	0.87	
2--00	0.56	0.80	
2--30	0.49	0.70	
3--00	0.44	0.63	
3--30	0.40	0.57	
4--00	0.37	0.53	
4--30	0.34	0.49	
5--00	0.32	0.45	
6--00	0.29	0.41	
7--00	0.26	0.38	
8--00	0.24	0.35	
9--00	0.23	0.33	
10--00	0.21	0.30	
12--00	0.19	0.27	
24--00	0.13	0.18	

RUNOFF COEFFICIENTS	
TYPE OF DEVELOPMENT	COEF.
PARKS AND CEMETERIES	0.30
RESIDENTIAL - ACRES	0.40
RESIDENTIAL - REGULAR	0.50
INDUSTRIAL	0.65
COMMERCIAL	0.75
PAVED AREAS	0.85

#### RATIONAL FORMULA

- Q = C.I.A.F.  
 Q = RUNOFF-CUBIC FEET PER SECOND  
 C = RUNOFF COEFFICIENT- PERCENT  
 I = RAINFALL INTENSITY- INCHES PER HOUR  
 A = DRAINAGE AREA- ACRES Dr. 22-1846  
 F = INTENSITY FACTOR (FROM MAP)  
 TOTAL P.02