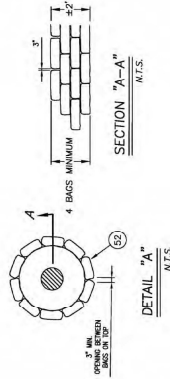


EROSION CONTROL NOTES

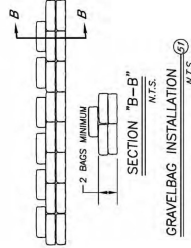
1. IN CASE OF EMERGENCY, CALL: **MIESH PAZEL**
WORK: (780) 363-3475
2. EROSION CONTROL MEASURES FOR EROSION SHALL BE MAINTAINED AT ALL TIMES DURING THE CONSTRUCTION PERIOD. NECESSARY MATERIALS SHALL BE AVAILABLE ON SITE AND CONSTRUCTION OF EROSION CONTROL MEASURES SHALL BE COMPLETED PRIOR TO THE START OF ANY EROSION CONTROL MEASURES. WHEN RAIN IS IMMINENT, MOVED OR MODIFIED WITHOUT THE APPROVAL OF THE ENGINEERING DEPARTMENT.
3. EROSION CONTROL MEASURES SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN THE 5-DAY RAIN PROBABILITY FORECAST EXCEEDS 40%.
4. EROSION CONTROL MEASURES SHALL BE REMOVED FROM CHECK BERMS AND DESLTING BASINS, AND GRADED AREAS AROUND THE TRACT PERIMETER MUST DRAIN AWAY FROM THE FACE OF SLOPE AT THE CONCLUSION OF THE WORK.
5. THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT WATER FROM CATCHING ON HAZARDOUS CONDITIONS. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED AS SHOWN PER PLAN OR AS DIRECTED BY THE CITY INSPECTOR.

SITE PREPARATION:

1. THE EMBANKMENT FOUNDATION AREA SHALL BE CLEARED OF ALL TREES, ROOTS, BRUSH, Boulders, SOIL, AND DEBRIS.
2. EXCESSIVE ORGANIC MATERIAL SHALL BE REMOVED.
3. ALL STORM DRAIN INLETS SHALL BE CAPPED AND/OR CATCH BASINS SHALL BE INSTALLED WITH FILTER FABRIC HELD DOWN BY SAND BAGS AROUND BASINS.

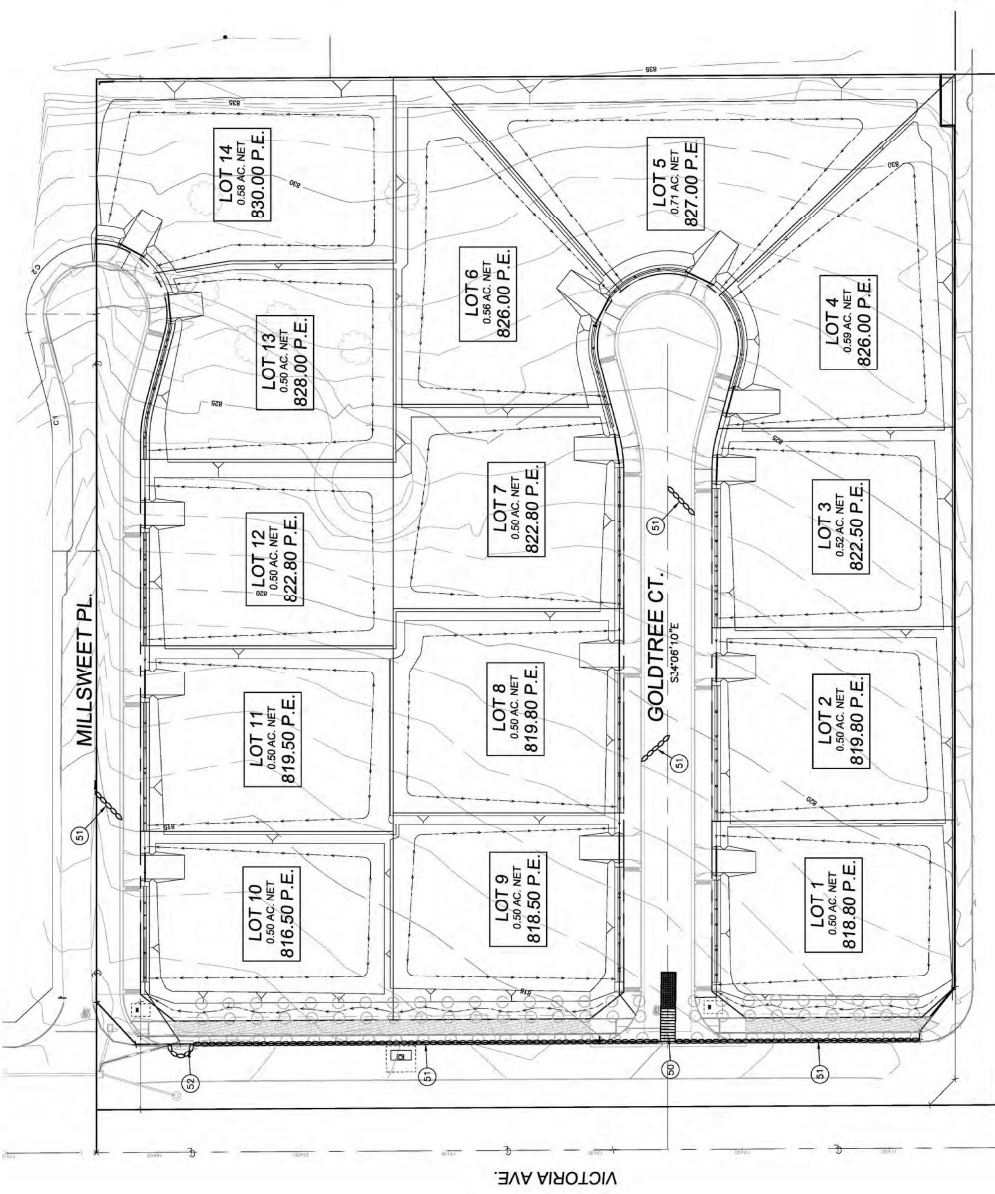
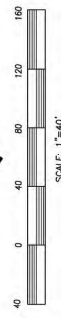


GRAVEL BAG DRAIN PROTECTION



CONSTRUCTION NOTES:

- 50 - CONST. STABILIZED ENTRANCE PER DETAIL ON SHT. 5
- 51 - INSTALL GRAVEL BAGS PER DETAIL HEREON
- 52 - INSTALL GRAVEL BAG PROTECTION PER DETAIL HEREON



SAKE ENGINEERS, INC.
ENGINEERING • SURVEYING • LAND DEVELOPMENT
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CORONA, CALIFORNIA 92709
(951) 279-4041

CITY OF RIVERSIDE BUSINESS IN ACCOUNT WITH DTD 7/30/18

CITY OF RIVERSIDE CALIFORNIA
PLANNING DIVISION
APPROVED BY: _____
DATE: _____

BENCHMARKS:
CITY OF RIVERSIDE BM# EPP2 CHISEL SQUARE IN TOP CORNER AT THE SE CORNER OF INDIANA AVE. & TILLAMORE ST.
ELEV = 728.41'

DIG ALERT
TOLL FREE
1-800-227-2600
48 HOURS BEFORE YOU DIG

WDID #8 33C379764
EROSION CONTROL PLAN
TRACT 37784

CITY OF RIVERSIDE
DEPARTMENT OF PUBLIC WORKS

SAKE: 1"=40'
SHEET: 2-4-2019
JOB NO. JNS553
DATE: 1-22-2020-20201

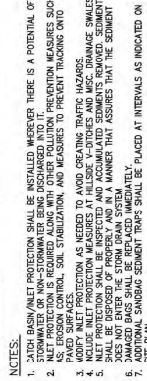
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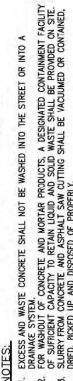
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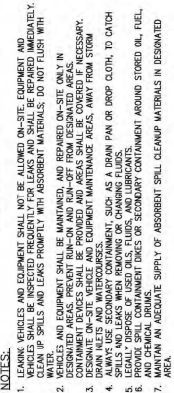
Q



STABILIZED CONSTRUCTION
ENTRANCE / EXIT TC1



EQUIPMENT
REPAIR/MAINTENANCE

WATER POLLUTION
CONTROL PLAN

1. BEST MANAGEMENT PRACTICES (BMP'S) CONTAINED HEREIN REFLECT MINIMUM REQUIREMENTS. FOR ADDITIONAL BMP'S REFER TO CALIFORNIA STORMWATER BMP HANDBOOKS.

3. THE SWQCP SHALL:
 - A. IDENTIFY POTENTIAL POLLUTANT SOURCES AND INCLUDE THE DESIGN AND PLACEMENT OF BMPs TO EFFECTIVELY PROHIBIT THE ENTRY OF POLLUTANTS FROM THE CONSTRUCTION SITE INTO AND ONTO THE STREET AND STORM DRAIN SYSTEM DURING CONSTRUCTION.
 - B. BE KEPT ON SITE AND AMENDED TO REFLECT CHANGING CONDITIONS THROUGHOUT THE COURSE OF CONSTRUCTION.

4. NON-STORMWATER DISCHARGES ARE PROHIBITED FROM ENTERING ANY STORM DRAINAGE SYSTEM AND/OR STREET.

6. POLLUTANTS SHALL BE REMOVED FROM STORMWATER DISCHARGES TO THE MAXIMUM EXTENT PRACTICABLE (MEP) THROUGH DESIGN & IMPLEMENTATION OF THE SWPSP.

8. PORTABLE SANITARY FACILITIES SHALL BE LOCATED ON RELATIVELY LEVEL GROUND AWAY FROM TRAFFIC AREAS, DRAINAGE COURSES, AND STORM DRAIN INLETS.

INCLUDING CONCRETE WASTE STORAGE AND DISPOSAL PROCEDURES.

QUESTIONS	ANSWERS
1. What is the purpose of the management plan?	The purpose of the management plan is to provide a clear and concise statement of the organization's mission, vision, and goals, and to outline the strategies and actions that will be taken to achieve them.
2. What are the key components of a management plan?	The key components of a management plan are: mission statement, vision statement, goals, strategies, and actions.
3. How should the management plan be developed?	The management plan should be developed through a collaborative process involving all levels of the organization. It should be based on a thorough analysis of the organization's current situation and future opportunities and challenges.
4. How should the management plan be communicated?	The management plan should be communicated through a variety of channels, including formal meetings, informal discussions, and written reports. It should be made accessible to all employees and stakeholders.
5. How should the management plan be monitored and evaluated?	The management plan should be monitored and evaluated regularly to ensure that it remains relevant and effective. This can be done through a variety of methods, including performance reviews, surveys, and audits.

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PLANNING DIVISION

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CORONA, CALIFORNIA 92779
(951) 270-1041 FAX: (951) 270-2830

BEST MANAGEMENT PRACTICE

BEST MANAGEMENT PRACTICE
TRACT 37764

SCALE	1	40	SCALE	1	40	SCALE	1	40
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Jul No. JN3053	DECODE SA	W
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Kevin Ballesteros | Phase I Project Manager

5261 West Imperial Highway, Los Angeles, California 90045

301-854-6300

Kevin.Ballesteros@efiglobal.com

Professional Summary:

Mr. Ballesteros has been in the environmental industry since 2016. Mr. Ballesteros started his career in the environmental industry researching human impacts on climate change using remote sensing technologies. Currently, Mr. Ballesteros conducts historical research and works with regulatory bodies to investigate historical and current uses of properties as part of the Phase I Environmental Site Assessment. Mr. Ballesteros's experience includes management of all stages of environmental projects including Phase I Environmental Site Assessments, Transaction Screen Assessments, and Database Reviews.

Licenses and Certifications:

OSHA 40-Hour Hazardous Waste Operations Certified, Safety Unlimited, CA #1605141167706

State of California Department of Public Health Lead-Related Construction Certificate ID#32017

Project Experience:

Phase I ESA at Montclair, California - Served as the Project Manager of a Phase I ESA for the entire 60-acre Montclair Plaza Shopping Mall, with several closed unauthorized release cases. This site included retail shops, offices, restaurants, a former automotive repair facility, and two former gasoline service stations. After extensive historical and regulatory agency research, EFI Global, Inc. was able to determine several concerns for the subject property which included: lack of removal and sampling associated with the first generation underground storage tanks of one of the former gasoline station operation, a former dry cleaners operated inside the mall, another automotive repair facility occupied the site, and lack of sampling performed on the automotive repair facility. EFI Global, Inc. was able to advise the property owner of the aforementioned concerns and that additional investigations were warranted prior to redevelopment of the site.

Phase I ESA at Vernon, California - Served as the Project Manager of a Phase I ESA for a vacant industrial property with a closed unauthorized release case issued by the City of Vernon, which was formerly part of a larger plastic bottle manufacturing operation. The former industrial facility had undergone numerous subsurface assessments and remedial cleanups dating back to 2008. Thorough historical and regulatory agency research indicated that one 10,000-gallon underground storage tank of unknown content was installed on the subject property. EFI Global, Inc. was able to advise the property buyer that the lack of documentation regarding the removal or sampling of the underground storage tanks was a concern and additional remediation work was warranted prior to redevelopment of the site.

Phase I ESA at Whittier, California - Served as the Project Manager of a Phase I ESA for a car wash and automotive repair facility, with former gasoline service station operations and a closed unauthorized release case. During initial project set up and conversations with the property owner during the site reconnaissance, it was believed that no concerns existed on the property. However, historical and regulatory agency research revealed that the property was occupied with four generations of gasoline stations. EFI Global, Inc. was able to advise the property owner that the lack of documentation

regarding the removal or sampling associated with the early generation underground storage tanks at the former gasoline stations were concerns and additional investigations was warranted at the time.

Professional Experience:

Andersen Environmental an EFI Global company, Los Angeles, CA, Environmental Specialist, 2016 – Present

University of California Los Angeles Institute of the Environmental and Sustainability, Los Angeles, CA, Research Assistant 2013 – 2015

Specialized Education:

Bachelor's Degree in Environmental Studies, University of California Los Angeles, Los Angeles, CA, 2015

References:

Nicole Rivera - EFI Global, Inc. - 5261 West Imperial Highway, Los Angeles, CA 90045 - 310.854.6300

Matthew Rodda - EFI Global, Inc. - 5261 West Imperial Highway, Los Angeles, CA 90045 - 310.854.6300

Raul Gaina | Project Manager, Certification

5261 West Imperial Highway, Los Angeles, California 90045

(310) 854-6300

Raul_Gaina@efiglobal.com

Professional Summary:

Raul Gaina has been engaged in the environmental sector since 2013 with experience in environmental consulting, environmental fieldwork, environmental education, environmental remediation, and water/wastewater treatment. Mr. Gaina has worked directly with clients and regulatory bodies to investigate historical and current site use and help clients achieve compliance with federal regulations for residential and commercial properties. Mr. Gaina's experience includes management of all stages of environmental projects including Phase I Environmental Site Assessments, Transaction Screen Assessments, and Database Reviews. In addition, Mr. Gaina has provided project oversight of various stages of site characterization and remediation projects including, soil investigation, groundwater monitoring well installation, monitoring well, and underground storage tank abandonment.

Licenses and Certifications:

Engineer in Training (EIT), Board for Professional Engineers, Land Surveyors, and Geologists
Certificate No. 479387

OSHA 40-Hour Hazardous Waste Operations and Emergency Response Certified, Safety Unlimited,
California, Certificate No. 1703145194159

Project Experience:

JP Morgan Chase Bank, N.A., Dallas, Tx

Phase I Environmental Site Assessment - Henderson, Nevada

Served as the Project Manager of a Phase I ESA for a commercial unit located within larger industrial park. During initial project set up, only the existing subject property address was identified and researched, which did not reveal any items of concern. However, during our site reconnaissance, a groundwater monitoring well was observed within the parking lot area of the subject property, which is indicative of a potential impacted resources at the subject property. Additional historical aerial photograph research revealed that prior to the current development, the subject property and immediately surrounding areas were formerly part of a larger industrial complex with multiple building and above ground storage tanks. After consulting with multiple regulatory agencies, including the Nevada Department of Environmental Protection (NDEP), it was determined that the historical facility was a former manufacturer of ammonium perchlorate – an oxidizer used as a component of solid propellant for rocket fuel. An explosion which destroyed the facility in 1988 resulted in an unauthorized release of perchlorate which impacted groundwater at the subject property and immediately surrounding areas. EFI Global reviewed multiple records, incident reports, correspondence, newspaper clippings, and groundwater monitoring reports on file at the NDEP, Southern Nevada Health Department (SNHD), and Clark County Department of Air Quality (CCDAQ). Based on information obtained from the most recent groundwater monitoring report, EFI Global determined that the concentrations of perchlorate at the subject property were above regulatory standards, which

constituted a Recognized Environmental Condition. However, based on the identification of the responsible party, ongoing remediation activities under the jurisdiction of the NDEP, and low potential for threat to human health due to confinement of the contamination to the groundwater, no further environmental investigation was recommended, and the client was solely advised to continue to adhere to NDEP recommendations and guidance until regulatory closure is obtained.

Pacific Premier Bank, Irvine, California

Phase I Environmental Site Assessment - Westminster, California

Served as the Project Manager for Phase I ESAs for two multi-tenant auto repair facilities. The facilities were both built in the 1960s and have been used for machine shop, spray painting, and auto repair purposes through the present. No records indicating tenants names, property usage, and/or hazardous materials records were available for the properties for the period 1960-1990. Based on the potential use of chlorinated solvents / petroleum hydrocarbons, and storage/handling of hazardous materials, the historical industrial shop, machine shop, and auto repair operations during a period of less stringent regulatory oversight (1965-1990). Additionally, EFI Global determined that an unauthorized release of petroleum hydrocarbons was reported at an adjoining property which bounded both sites. Upon review of the regulatory agency records, it was determined that the contamination on the adjoining site was concentrated in the vicinity of only one of the subject properties and had the potential of only impacting this site. By going above and beyond, review multiple groundwater, sampling, and remediation reports for adjoining properties, EFI Global was able to advise the client of the need to assess the potential impact from this adjoining site to only one of the subject properties instead of both.

Professional Experience:

EFI Global, Inc., Phase I Project Manager, 2017 – present

Smith-Emery GeoServices, Phase I and Phase II Project Manager, 2015 – 2017

Smith-Emery GeoServices, Senior Environmental Specialist, 2014 – 2015

Smith-Emery GeoServices, Environmental Specialist, 2013 – 2014

Education:

Master of Science, Civil and Environmental Engineering, University of California, Los Angeles, California, 2013

Bachelor of Science, Environmental Science, with a Minor in Environmental Engineering, University of California, Los Angeles, California, 2012

References:

Nicole Rivera - EFI Global, Inc. - 5261 West Imperial Highway, Los Angeles, CA 90045 – 310.854.6300

Matthew Rodda - EFI Global, Inc. - 5261 West Imperial Highway, Los Angeles, CA 90045 – 310.854.6300

Brian R. Brennan | Senior Project Manager

5909 Sea Lion Drive, Unit H, Carlsbad, California 92010

760-473-5695

brian.brennan@efiglobal.com

Professional Summary:

Mr. Brennan has over 20 years of environmental consulting experience. Mr. Brennan qualifies as an Environmental Professional with experience that includes preparing, reviewing and managing all aspects of Phase I and II Environmental Site Assessment (ESA) in commercial real estate transactions and large-scale residential developments following ASTM E 1527-13 and 40 CFR Part 312 (AAI) guidelines. Mr. Brennan has proven skills in planning, managing and executing all phases of small to large scale projects involving soil, soil gas and groundwater investigation and remediation at sites impacted by petroleum hydrocarbons, heavy metals, pesticides, and chlorinated solvents. Mr. Brennan's technical skills include developing, maintaining and meeting project scope and financial responsibilities; coordinating and managing professional staff and subcontractors; reviewing and evaluating environmental data and risk assessment; preparing technical writing documents; and communicating to senior and junior staff, regulatory agencies and clients. Mr. Brennan is an experienced project manager with the ability to oversee professional staff in multiple disciplines and geographic locations; tracking and maintaining schedules, budgets and deliverables; and maintaining current clients, while conducting future business development and marketing. Areas of expertise include:

Phase I/II Environmental Site Assessment

Environmental Site Assessment and Mitigation

Project Management

Data Evaluation

Third Party Review

Licenses and Certifications:

OSHA 40-Hour Hazardous Waste Operations Certified

OSHA 8-Hour HAWOPER Annual Refresher

Environmental Professional, per the CFR Title 40, Chapter I, Subchapter J, Part 312, Subpart C, Section 312.21

California Registered Environmental Assessor II (REA-II) No. 07920

Project Experience:

County of Riverside, Economic Development Agency. Former Riverside General Hospital, Riverside, CA. Leaking Underground Storage Tank (LUST) Site Investigation, Remediation and Regulatory Agency (Riverside County DEH) Case Closure.

Gannett Fleming. Former Exide Technologies Facility, City of Industry, CA. Lead-impacted Soil Investigation and Mitigation, and Regulatory Agency (LA County Fire Department) Case Closure.

Standard Pacific Homes. Harmony Gove Village, Master-Planned Community, Escondido, CA. Phase I ESA, Site Investigation, Environmental Monitoring and Sampling, and Regulatory Agency (County of San Diego DEH) Case Closure Associated with Master Planned Community.

KB Home Coastal Inc. Magnolia Trails, Single-family Residential Development, El Cajon, CA. Phase I ESA, Pesticide-Soil Investigation, Remedial Excavation, and Regulatory Agency (County of San Diego DEH) Case Closure.

Dynamic Development Corporation. Proposed Dollar General Store, Imperial, CA. Historical Phase I/II ESA review; LUST Site Investigation and Remediation; and Regulatory Agency (Colorado River Basin Water Quality Control Board) Case Closure.

Heslin Holdings, LLC. Former Mr. Best Cleaners, Oceanside, CA. Former Dry Cleaner Release Site; Chlorinated Solvent Investigation and Mitigation; and Regulatory Agency (County of San Diego) Oversight (closure in-progress).

California Bank & Trust Facility. Commercial Bank Property, Escondido, CA. Site Assessment, Mitigation and Environmental Monitoring, during Redevelopment; and Regulatory Agency (County of San Diego DEH) Case Closure.

Standard Pacific Homes/CalAtlantic Homes/Lennar. Multiple Locations, Southern California. Provided numerous Phase I and II ESA technical services, review and evaluation of previous consultant environmental site assessment and mitigation, soil remediation, and environmental field services related to various Southern California property acquisitions.

KB Home Coastal, Inc. Multiple Locations, Southern California. Provided numerous Phase I and II ESA technical services, review and evaluation of previous consultant environmental site assessment and mitigation, soil remediation, and environmental field services related to various Southern California property acquisitions.

County of Riverside, Economic Development Agency. Multiple Locations, Riverside County. Provided numerous Phase I and II ESA technical services, review and evaluation of previous consultant environmental site assessment and mitigation, soil remediation, and environmental field services throughout the County.

Court Qualifications/ Depositions:

Superior Court of California, County of Riverside / County of Riverside v. Alvin C. Assink, et al., Case No. RIC 512629, July 16, 2012.

Superior Court of California, County of San Diego / Shirey Falls, LP v. Guadalupe and Evangeline Hernandez, Case No. 37-2014-00006580, October 27, 2015.

Professional Experience:

EFI Global, Environmental Senior Project Manager, 2019-Present

EFI Global, Environmental Field Professional, 2018-2019

Environmental Professional/Independent Consultant/Contrator, 2011-2018

EEI, Director, Environmental Services/Senior Project Manager, 2014-2019

Terraphase Environmental Engineering, Senior Project Manager, 2014

EEI, Environmental Senior Project Manager, 2008-2014

EEI, Environmental Project Manager, 2004-2008

EEI, Environmental Staff Scientist, 2000-2004

United States Department of Interior, Yellowstone National Park, Visitor Use Assistance/Wildland Firefighter/GIS Analyst, 2001

City of San Diego, Parks and Recreation, GIS and Environmental Services, Intern, 1999

Specialized Education:

Geographic Information Systems (GIS), ArcGIS , San Diego State University, 2000

The Groundwater Pollution and Hydrology Course, Princeton Groundwater, Inc., 2003

The Remediation Class, Princeton Groundwater, Inc., 2005

Natural Attenuation, Risk Assessment, and Risk-Based Corrective Action (RBCA) Through Applied Groundwater Modeling, National Groundwater Association (NGWA), 2007

California Environmental Quality Act, University of California, San Diego, 2008

Education:

Master of Science, Environmental Engineering, National University, San Diego, California, 2008

Bachelor of Arts, Geography and Environmental Analysis, San Diego State University, San Diego, California, 2000

Hydrology Report

for

TR 38921

Located in the City of Riverside

County of Riverside

APN: 136-220-016

Prepared For:



Warmington

R E S I D E N T I A L

3090 Pullman Street

Costa Mesa, CA 92626

Prepared by:

adkan
ENGINEERS

6879 Airport Drive

Riverside, CA 92504

Tel (951) 688-0241

Fax (951) 688-0599

Job No. 10574

February 26, 2024

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Post-Development Unit Hydrograph.....	4
Riverside County Plates	5

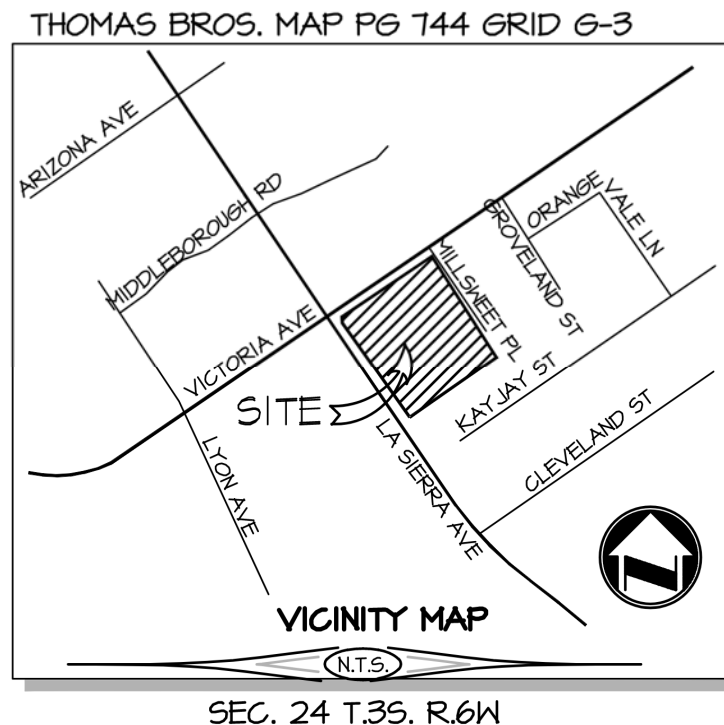
1. Purpose

The purpose of this study is to substantiate the hydrology design of Tract 38921 for the purposes of Entitlement Approval. Adkan Engineers has prepared this study to ensure that adequate size and proper operation of drainage facilities are incorporated into the Post-Development project site.

2. Project Description

Tract 38921 is located in the City of Riverside at the northeast corner of Victoria Avenue and La Sierra Avenue. The planned development will consist of 49 single family residential lots and 2 open space lots on 7.9+/- acres. The site will treat the 2 year 24 hour storm event through the use of an infiltration basin with an additional gravel layer beneath it. Since site flows are tributary to the Arizona Channel, all other storm events (5, 10 & 100 year) are not required to be analyzed.

A. Vicinity Map



3. Pre-Development Hydrology

The site is currently a functioning orange grove and there are no existing storm drain facilities on site. Onsite runoff sheet flows to the south west corner of Millsweet Place and Victoria Ave to an existing drop inlet structure that feeds site flows to City SD tributary to the Arizona Channel.

4. Post-Development Hydrology

Onsite flows are being directed towards the north east corner via a series of gutters throughout the project site. Surface flows in these proposed gutters will be captured via drop inlets and conveyed via an onsite storm drain

system to an infiltration basin located in the north east corner of the site. The infiltration basin will have an additional gravel layer beneath to mitigate the 2 year 24 hour storm flows.

Basin Storage Volume Calculations	
Infiltration Basin Bottom Area (sf)	3674
Basin Top Area (sf)	4899
Depth of Basin (ft)	2.5
Open Basin Volume Provided (cf)	10716
Rock Storage depth (ft)	4.6
Rock Storage Volume (40% void) (cf)	6755
Total Flood Volume Stored	17472
Ex. 2-yr 24-hr Storm Volume (cf)	8233
Prop. 2-yr 24-hr Storm Volume (cf)	26528
Allowable 2-yr 24-hr Storm Volume (mitigated to 110% of existing) (cf)	9056
Prop. 2-yr 24-hr Storm Volume (cf)	26528
Total Flood Volume Stored	17472
Remaining Storm Volume	9056

5. Method of Analysis

The site hydrology was based upon Riverside County Flood Control and Water Conservation District Hydrology Manual, from which pertinent soil and rainfall information was obtained.

Storm flows were determined by the "RATIONAL METHOD HYDROLOGY COMPUTER PROGRAM", Riverside County Flood Control & Water Conservation District 1978 Hydrology Manual, produced by Bondamin Engineering.

The site was also analyzed by the "SYNTHETIC UNIT HYDROLOGY METHOD COMPUTER PROGRAM", Riverside County Flood Control & Water Conservation District 1978 Hydrology Manual, produced by Bondamin Engineering.

6. Conclusion

The hydrologic calculations provided herein substantiate the design of the Post-Development project and indicate the following:

- The Post-Development facilities demonstrate the ability to limit flow discharge from the project site to no greater than 110% of the pre-development 2-year peak flow.

Since site flows are tributary to the Arizona Channel, no other storm events need to be mitigated/analyzed.

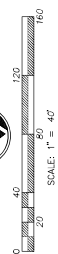
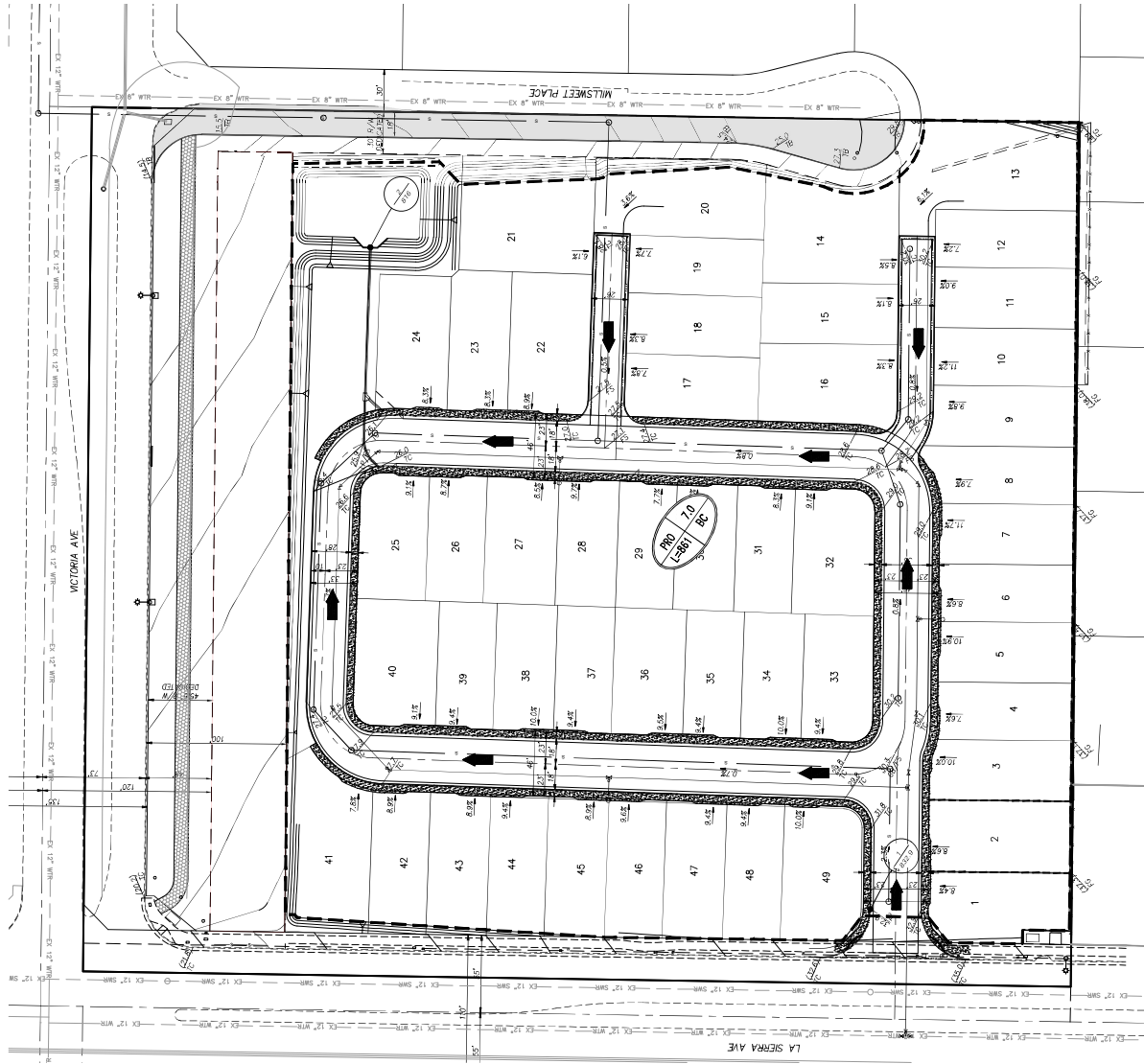
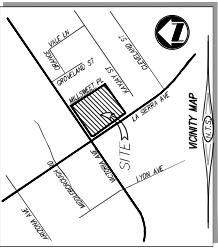
Therefore, it is our conclusion this project **does not** negatively impact the local community or watershed goals.

Section 1

Pre-Development Unit Hydrograph

IN THE COMMUNITY OF WINCHESTER, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA POST DEVELOPMENT UNIT HYDROGRAPH

THOMAS BROS. MAP PG 744 GRID G-3

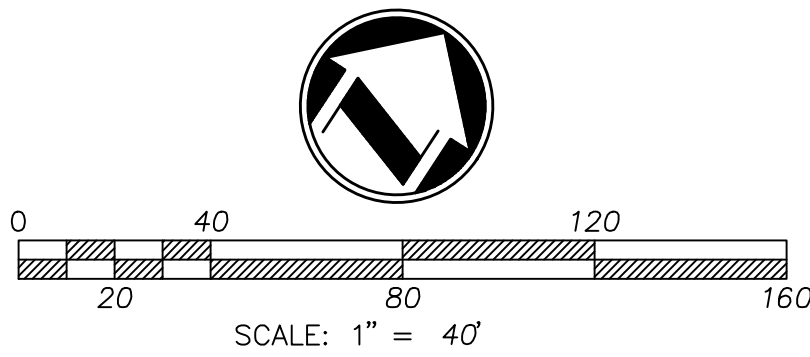
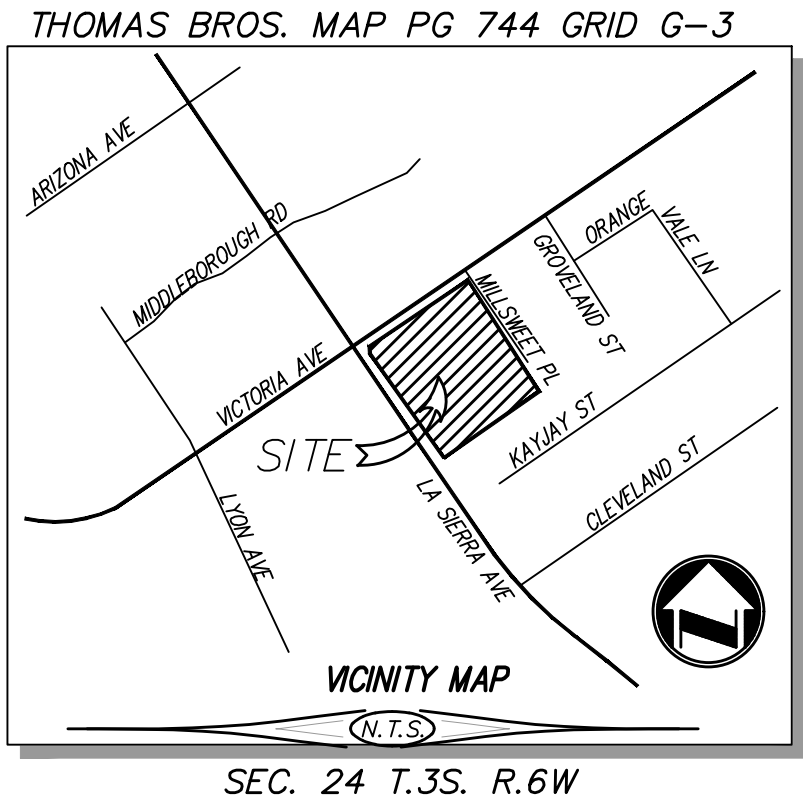
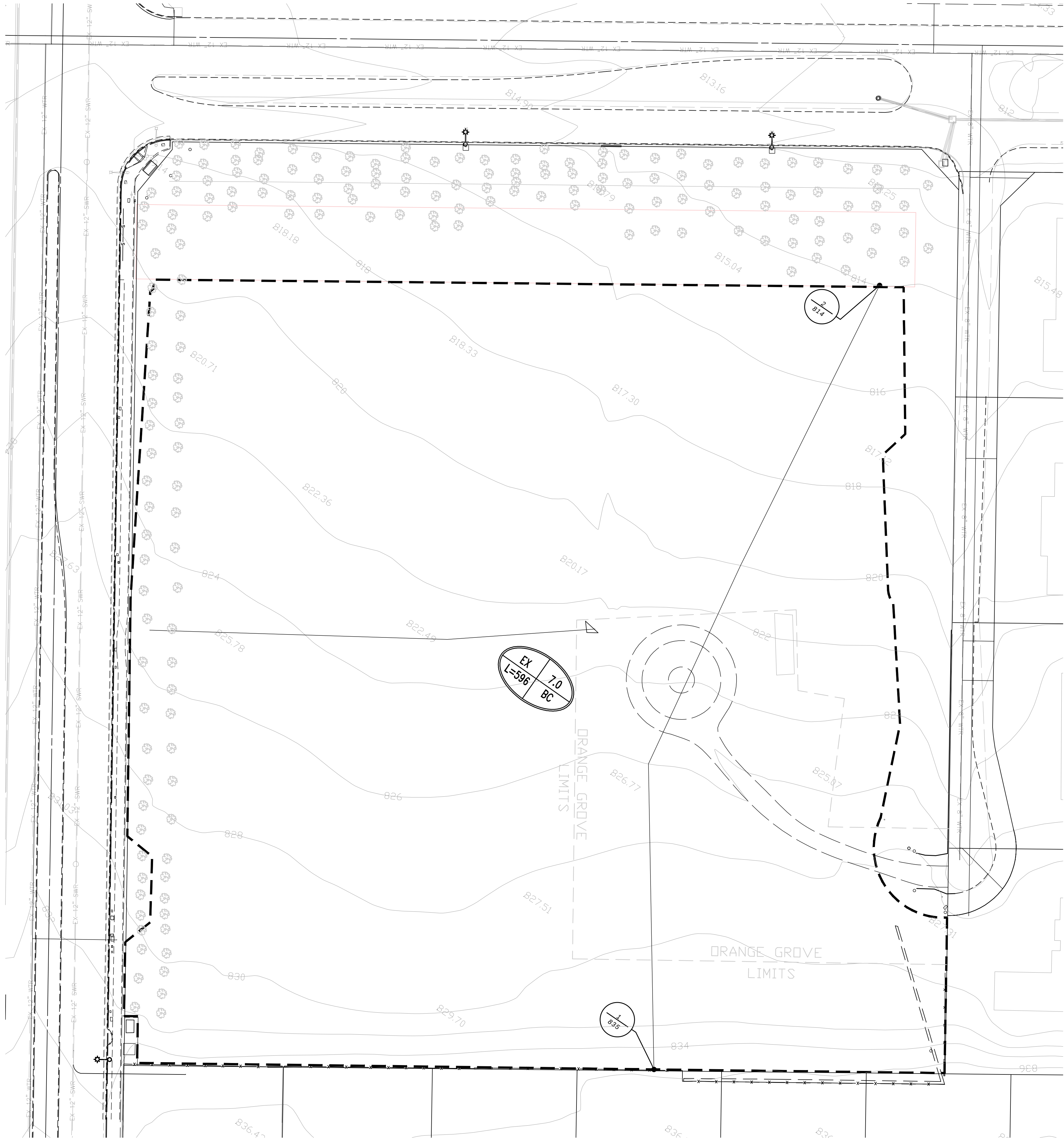


SCALE: 1" = 40'

adkan
ENGINEERS
Civil Engineering & Surveying
1000 E. Main Street, Suite 200
P.O. Box 1000, Winchester, CA 92594
Tel: (951) 885-0061, Fax: (951) 885-0062

IN THE COMMUNITY OF WINCHESTER, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA

PRE DEVELOPMENT UNIT HYDROGRAPH



PLANS PREPARED BY:

adkan
ENGINEERS

Civil Engineering • Surveying • Planning
6879 Airport Drive, Riverside, CA 92504
Tel:(951) 688-0241 • Fax:(951) 688-0599

Unit Hydrograph Analysis

Copyright (C) CIVILCADD/CIVILDESIGN, 1989 - 2008, Version 8.1
Study date 02/22/24 File: EX2YR242.out

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 5006

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input values Used
English Units used in output format

Drainage Area = 7.00(Ac.) = 0.011 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 7.00(Ac.) = 0.011 Sq. Mi.
Length along longest watercourse = 596.00(Ft.)
Length along longest watercourse measured to centroid = 300.00(Ft.)
Length along longest watercourse = 0.113 Mi.
Length along longest watercourse measured to centroid = 0.057 Mi.
Difference in elevation = 26.00(Ft.)
Slope along watercourse = 230.3356 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.038 Hr.
Lag time = 2.26 Min.
25% of lag time = 0.56 Min.
40% of lag time = 0.90 Min.
Unit time = 5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	weighting[1*2]
7.00	1.80	12.60

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	weighting[1*2]
7.00	6.00	42.00

STORM EVENT (YEAR) = 2.00
Area Averaged 2-Year Rainfall = 1.800(In)
Area Averaged 100-Year Rainfall = 6.000(In)

Point rain (area averaged) = 1.800(In)
Areal adjustment factor = 100.00 %
Adjusted average point rain = 1.800(In)

Sub-Area Data:
Area(Ac.) Runoff Index Impervious %
7.000 72.00 0.100
Total Area Entered = 7.00(Ac.)

RI	RI	Infil. Rate	Impervious	Adj. Infil. Rate	Area%	F
AMC2	AMC-1	(In/Hr)	(Dec.)	(In/Hr)	(Dec.)	(In/Hr)
72.0	53.4	0.537	0.100	0.489	1.000	0.489
Sum (F) =						0.489

Area averaged mean soil loss (F) (In/Hr) = 0.489
Minimum soil loss rate ((In/Hr)) = 0.244
(for 24 hour storm duration)
Soil loss rate (decimal) = 0.820

Unit Hydrograph VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)	Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
---------------------------	---------------	-------------------------	--------------------------

1	0.083	221.634	46.905	3.309
2	0.167	443.269	41.886	2.955
3	0.250	664.903	7.981	0.563
4	0.333	886.537	3.228	0.228
Sum = 100.000			Sum=	7.055

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr)		Effective (In/Hr)
				Max	Low	
1	0.08	0.07	0.014	(0.867)	0.012	0.003
2	0.17	0.07	0.014	(0.863)	0.012	0.003
3	0.25	0.07	0.014	(0.860)	0.012	0.003
4	0.33	0.10	0.022	(0.857)	0.018	0.004
5	0.42	0.10	0.022	(0.853)	0.018	0.004
6	0.50	0.10	0.022	(0.850)	0.018	0.004
7	0.58	0.10	0.022	(0.847)	0.018	0.004
8	0.67	0.10	0.022	(0.843)	0.018	0.004
9	0.75	0.10	0.022	(0.840)	0.018	0.004
10	0.83	0.13	0.029	(0.837)	0.024	0.005
11	0.92	0.13	0.029	(0.834)	0.024	0.005
12	1.00	0.13	0.029	(0.830)	0.024	0.005
13	1.08	0.10	0.022	(0.827)	0.018	0.004
14	1.17	0.10	0.022	(0.824)	0.018	0.004
15	1.25	0.10	0.022	(0.820)	0.018	0.004
16	1.33	0.10	0.022	(0.817)	0.018	0.004
17	1.42	0.10	0.022	(0.814)	0.018	0.004
18	1.50	0.10	0.022	(0.811)	0.018	0.004
19	1.58	0.10	0.022	(0.807)	0.018	0.004
20	1.67	0.10	0.022	(0.804)	0.018	0.004
21	1.75	0.10	0.022	(0.801)	0.018	0.004
22	1.83	0.13	0.029	(0.798)	0.024	0.005
23	1.92	0.13	0.029	(0.795)	0.024	0.005
24	2.00	0.13	0.029	(0.791)	0.024	0.005
25	2.08	0.13	0.029	(0.788)	0.024	0.005
26	2.17	0.13	0.029	(0.785)	0.024	0.005
27	2.25	0.13	0.029	(0.782)	0.024	0.005
28	2.33	0.13	0.029	(0.779)	0.024	0.005
29	2.42	0.13	0.029	(0.775)	0.024	0.005
30	2.50	0.13	0.029	(0.772)	0.024	0.005
31	2.58	0.17	0.036	(0.769)	0.030	0.006
32	2.67	0.17	0.036	(0.766)	0.030	0.006
33	2.75	0.17	0.036	(0.763)	0.030	0.006
34	2.83	0.17	0.036	(0.760)	0.030	0.006
35	2.92	0.17	0.036	(0.756)	0.030	0.006
36	3.00	0.17	0.036	(0.753)	0.030	0.006
37	3.08	0.17	0.036	(0.750)	0.030	0.006
38	3.17	0.17	0.036	(0.747)	0.030	0.006
39	3.25	0.17	0.036	(0.744)	0.030	0.006
40	3.33	0.17	0.036	(0.741)	0.030	0.006
41	3.42	0.17	0.036	(0.738)	0.030	0.006
42	3.50	0.17	0.036	(0.735)	0.030	0.006
43	3.58	0.17	0.036	(0.732)	0.030	0.006
44	3.67	0.17	0.036	(0.729)	0.030	0.006
45	3.75	0.17	0.036	(0.726)	0.030	0.006
46	3.83	0.20	0.043	(0.722)	0.035	0.008
47	3.92	0.20	0.043	(0.719)	0.035	0.008
48	4.00	0.20	0.043	(0.716)	0.035	0.008
49	4.08	0.20	0.043	(0.713)	0.035	0.008
50	4.17	0.20	0.043	(0.710)	0.035	0.008
51	4.25	0.20	0.043	(0.707)	0.035	0.008
52	4.33	0.23	0.050	(0.704)	0.041	0.009
53	4.42	0.23	0.050	(0.701)	0.041	0.009
54	4.50	0.23	0.050	(0.698)	0.041	0.009
55	4.58	0.23	0.050	(0.695)	0.041	0.009
56	4.67	0.23	0.050	(0.692)	0.041	0.009
57	4.75	0.23	0.050	(0.689)	0.041	0.009
58	4.83	0.27	0.058	(0.686)	0.047	0.010
59	4.92	0.27	0.058	(0.683)	0.047	0.010
60	5.00	0.27	0.058	(0.680)	0.047	0.010
61	5.08	0.20	0.043	(0.677)	0.035	0.008
62	5.17	0.20	0.043	(0.674)	0.035	0.008
63	5.25	0.20	0.043	(0.672)	0.035	0.008
64	5.33	0.23	0.050	(0.669)	0.041	0.009
65	5.42	0.23	0.050	(0.666)	0.041	0.009
66	5.50	0.23	0.050	(0.663)	0.041	0.009
67	5.58	0.27	0.058	(0.660)	0.047	0.010
68	5.67	0.27	0.058	(0.657)	0.047	0.010
69	5.75	0.27	0.058	(0.654)	0.047	0.010
70	5.83	0.27	0.058	(0.651)	0.047	0.010
71	5.92	0.27	0.058	(0.648)	0.047	0.010
72	6.00	0.27	0.058	(0.645)	0.047	0.010

73	6.08	0.30	0.065	(0.643)	0.053	0.012
74	6.17	0.30	0.065	(0.640)	0.053	0.012
75	6.25	0.30	0.065	(0.637)	0.053	0.012
76	6.33	0.30	0.065	(0.634)	0.053	0.012
77	6.42	0.30	0.065	(0.631)	0.053	0.012
78	6.50	0.30	0.065	(0.628)	0.053	0.012
79	6.58	0.33	0.072	(0.626)	0.059	0.013
80	6.67	0.33	0.072	(0.623)	0.059	0.013
81	6.75	0.33	0.072	(0.620)	0.059	0.013
82	6.83	0.33	0.072	(0.617)	0.059	0.013
83	6.92	0.33	0.072	(0.614)	0.059	0.013
84	7.00	0.33	0.072	(0.612)	0.059	0.013
85	7.08	0.33	0.072	(0.609)	0.059	0.013
86	7.17	0.33	0.072	(0.606)	0.059	0.013
87	7.25	0.33	0.072	(0.603)	0.059	0.013
88	7.33	0.37	0.079	(0.600)	0.065	0.014
89	7.42	0.37	0.079	(0.598)	0.065	0.014
90	7.50	0.37	0.079	(0.595)	0.065	0.014
91	7.58	0.40	0.086	(0.592)	0.071	0.016
92	7.67	0.40	0.086	(0.589)	0.071	0.016
93	7.75	0.40	0.086	(0.587)	0.071	0.016
94	7.83	0.43	0.094	(0.584)	0.077	0.017
95	7.92	0.43	0.094	(0.581)	0.077	0.017
96	8.00	0.43	0.094	(0.579)	0.077	0.017
97	8.08	0.50	0.108	(0.576)	0.089	0.019
98	8.17	0.50	0.108	(0.573)	0.089	0.019
99	8.25	0.50	0.108	(0.571)	0.089	0.019
100	8.33	0.50	0.108	(0.568)	0.089	0.019
101	8.42	0.50	0.108	(0.565)	0.089	0.019
102	8.50	0.50	0.108	(0.563)	0.089	0.019
103	8.58	0.53	0.115	(0.560)	0.094	0.021
104	8.67	0.53	0.115	(0.557)	0.094	0.021
105	8.75	0.53	0.115	(0.555)	0.094	0.021
106	8.83	0.57	0.122	(0.552)	0.100	0.022
107	8.92	0.57	0.122	(0.550)	0.100	0.022
108	9.00	0.57	0.122	(0.547)	0.100	0.022
109	9.08	0.63	0.137	(0.544)	0.112	0.025
110	9.17	0.63	0.137	(0.542)	0.112	0.025
111	9.25	0.63	0.137	(0.539)	0.112	0.025
112	9.33	0.67	0.144	(0.537)	0.118	0.026
113	9.42	0.67	0.144	(0.534)	0.118	0.026
114	9.50	0.67	0.144	(0.531)	0.118	0.026
115	9.58	0.70	0.151	(0.529)	0.124	0.027
116	9.67	0.70	0.151	(0.526)	0.124	0.027
117	9.75	0.70	0.151	(0.524)	0.124	0.027
118	9.83	0.73	0.158	(0.521)	0.130	0.029
119	9.92	0.73	0.158	(0.519)	0.130	0.029
120	10.00	0.73	0.158	(0.516)	0.130	0.029
121	10.08	0.50	0.108	(0.514)	0.089	0.019
122	10.17	0.50	0.108	(0.511)	0.089	0.019
123	10.25	0.50	0.108	(0.509)	0.089	0.019
124	10.33	0.50	0.108	(0.506)	0.089	0.019
125	10.42	0.50	0.108	(0.504)	0.089	0.019
126	10.50	0.50	0.108	(0.501)	0.089	0.019
127	10.58	0.67	0.144	(0.499)	0.118	0.026
128	10.67	0.67	0.144	(0.497)	0.118	0.026
129	10.75	0.67	0.144	(0.494)	0.118	0.026
130	10.83	0.67	0.144	(0.492)	0.118	0.026
131	10.92	0.67	0.144	(0.489)	0.118	0.026
132	11.00	0.67	0.144	(0.487)	0.118	0.026
133	11.08	0.63	0.137	(0.485)	0.112	0.025
134	11.17	0.63	0.137	(0.482)	0.112	0.025
135	11.25	0.63	0.137	(0.480)	0.112	0.025
136	11.33	0.63	0.137	(0.477)	0.112	0.025
137	11.42	0.63	0.137	(0.475)	0.112	0.025
138	11.50	0.63	0.137	(0.473)	0.112	0.025
139	11.58	0.57	0.122	(0.470)	0.100	0.022
140	11.67	0.57	0.122	(0.468)	0.100	0.022
141	11.75	0.57	0.122	(0.466)	0.100	0.022
142	11.83	0.60	0.130	(0.463)	0.106	0.023
143	11.92	0.60	0.130	(0.461)	0.106	0.023
144	12.00	0.60	0.130	(0.459)	0.106	0.023
145	12.08	0.83	0.180	(0.456)	0.148	0.032
146	12.17	0.83	0.180	(0.454)	0.148	0.032
147	12.25	0.83	0.180	(0.452)	0.148	0.032
148	12.33	0.87	0.187	(0.450)	0.154	0.034
149	12.42	0.87	0.187	(0.447)	0.154	0.034
150	12.50	0.87	0.187	(0.445)	0.154	0.034
151	12.58	0.93	0.202	(0.443)	0.165	0.036
152	12.67	0.93	0.202	(0.441)	0.165	0.036
153	12.75	0.93	0.202	(0.438)	0.165	0.036
154	12.83	0.97	0.209	(0.436)	0.171	0.038
155	12.92	0.97	0.209	(0.434)	0.171	0.038
156	13.00	0.97	0.209	(0.432)	0.171	0.038
157	13.08	1.13	0.245	(0.430)	0.201	0.044
158	13.17	1.13	0.245	(0.427)	0.201	0.044

159	13.25	1.13	0.245	(0.425)	0.201	0.044
160	13.33	1.13	0.245	(0.423)	0.201	0.044
161	13.42	1.13	0.245	(0.421)	0.201	0.044
162	13.50	1.13	0.245	(0.419)	0.201	0.044
163	13.58	0.77	0.166	(0.417)	0.136	0.030
164	13.67	0.77	0.166	(0.415)	0.136	0.030
165	13.75	0.77	0.166	(0.412)	0.136	0.030
166	13.83	0.77	0.166	(0.410)	0.136	0.030
167	13.92	0.77	0.166	(0.408)	0.136	0.030
168	14.00	0.77	0.166	(0.406)	0.136	0.030
169	14.08	0.90	0.194	(0.404)	0.159	0.035
170	14.17	0.90	0.194	(0.402)	0.159	0.035
171	14.25	0.90	0.194	(0.400)	0.159	0.035
172	14.33	0.87	0.187	(0.398)	0.154	0.034
173	14.42	0.87	0.187	(0.396)	0.154	0.034
174	14.50	0.87	0.187	(0.394)	0.154	0.034
175	14.58	0.87	0.187	(0.392)	0.154	0.034
176	14.67	0.87	0.187	(0.390)	0.154	0.034
177	14.75	0.87	0.187	(0.388)	0.154	0.034
178	14.83	0.83	0.180	(0.386)	0.148	0.032
179	14.92	0.83	0.180	(0.384)	0.148	0.032
180	15.00	0.83	0.180	(0.382)	0.148	0.032
181	15.08	0.80	0.173	(0.380)	0.142	0.031
182	15.17	0.80	0.173	(0.378)	0.142	0.031
183	15.25	0.80	0.173	(0.376)	0.142	0.031
184	15.33	0.77	0.166	(0.374)	0.136	0.030
185	15.42	0.77	0.166	(0.372)	0.136	0.030
186	15.50	0.77	0.166	(0.370)	0.136	0.030
187	15.58	0.63	0.137	(0.368)	0.112	0.025
188	15.67	0.63	0.137	(0.367)	0.112	0.025
189	15.75	0.63	0.137	(0.365)	0.112	0.025
190	15.83	0.63	0.137	(0.363)	0.112	0.025
191	15.92	0.63	0.137	(0.361)	0.112	0.025
192	16.00	0.63	0.137	(0.359)	0.112	0.025
193	16.08	0.13	0.029	(0.357)	0.024	0.005
194	16.17	0.13	0.029	(0.355)	0.024	0.005
195	16.25	0.13	0.029	(0.354)	0.024	0.005
196	16.33	0.13	0.029	(0.352)	0.024	0.005
197	16.42	0.13	0.029	(0.350)	0.024	0.005
198	16.50	0.13	0.029	(0.348)	0.024	0.005
199	16.58	0.10	0.022	(0.346)	0.018	0.004
200	16.67	0.10	0.022	(0.345)	0.018	0.004
201	16.75	0.10	0.022	(0.343)	0.018	0.004
202	16.83	0.10	0.022	(0.341)	0.018	0.004
203	16.92	0.10	0.022	(0.339)	0.018	0.004
204	17.00	0.10	0.022	(0.338)	0.018	0.004
205	17.08	0.17	0.036	(0.336)	0.030	0.006
206	17.17	0.17	0.036	(0.334)	0.030	0.006
207	17.25	0.17	0.036	(0.333)	0.030	0.006
208	17.33	0.17	0.036	(0.331)	0.030	0.006
209	17.42	0.17	0.036	(0.329)	0.030	0.006
210	17.50	0.17	0.036	(0.328)	0.030	0.006
211	17.58	0.17	0.036	(0.326)	0.030	0.006
212	17.67	0.17	0.036	(0.324)	0.030	0.006
213	17.75	0.17	0.036	(0.323)	0.030	0.006
214	17.83	0.13	0.029	(0.321)	0.024	0.005
215	17.92	0.13	0.029	(0.320)	0.024	0.005
216	18.00	0.13	0.029	(0.318)	0.024	0.005
217	18.08	0.13	0.029	(0.316)	0.024	0.005
218	18.17	0.13	0.029	(0.315)	0.024	0.005
219	18.25	0.13	0.029	(0.313)	0.024	0.005
220	18.33	0.13	0.029	(0.312)	0.024	0.005
221	18.42	0.13	0.029	(0.310)	0.024	0.005
222	18.50	0.13	0.029	(0.309)	0.024	0.005
223	18.58	0.10	0.022	(0.307)	0.018	0.004
224	18.67	0.10	0.022	(0.306)	0.018	0.004
225	18.75	0.10	0.022	(0.304)	0.018	0.004
226	18.83	0.07	0.014	(0.303)	0.012	0.003
227	18.92	0.07	0.014	(0.301)	0.012	0.003
228	19.00	0.07	0.014	(0.300)	0.012	0.003
229	19.08	0.10	0.022	(0.299)	0.018	0.004
230	19.17	0.10	0.022	(0.297)	0.018	0.004
231	19.25	0.10	0.022	(0.296)	0.018	0.004
232	19.33	0.13	0.029	(0.294)	0.024	0.005
233	19.42	0.13	0.029	(0.293)	0.024	0.005
234	19.50	0.13	0.029	(0.292)	0.024	0.005
235	19.58	0.10	0.022	(0.290)	0.018	0.004
236	19.67	0.10	0.022	(0.289)	0.018	0.004
237	19.75	0.10	0.022	(0.288)	0.018	0.004
238	19.83	0.07	0.014	(0.286)	0.012	0.003
239	19.92	0.07	0.014	(0.285)	0.012	0.003
240	20.00	0.07	0.014	(0.284)	0.012	0.003
241	20.08	0.10	0.022	(0.283)	0.018	0.004
242	20.17	0.10	0.022	(0.281)	0.018	0.004
243	20.25	0.10	0.022	(0.280)	0.018	0.004
244	20.33	0.10	0.022	(0.279)	0.018	0.004

245	20.42	0.10	0.022	(0.278)	0.018	0.004
246	20.50	0.10	0.022	(0.277)	0.018	0.004
247	20.58	0.10	0.022	(0.275)	0.018	0.004
248	20.67	0.10	0.022	(0.274)	0.018	0.004
249	20.75	0.10	0.022	(0.273)	0.018	0.004
250	20.83	0.07	0.014	(0.272)	0.012	0.003
251	20.92	0.07	0.014	(0.271)	0.012	0.003
252	21.00	0.07	0.014	(0.270)	0.012	0.003
253	21.08	0.10	0.022	(0.269)	0.018	0.004
254	21.17	0.10	0.022	(0.268)	0.018	0.004
255	21.25	0.10	0.022	(0.267)	0.018	0.004
256	21.33	0.07	0.014	(0.266)	0.012	0.003
257	21.42	0.07	0.014	(0.265)	0.012	0.003
258	21.50	0.07	0.014	(0.264)	0.012	0.003
259	21.58	0.10	0.022	(0.263)	0.018	0.004
260	21.67	0.10	0.022	(0.262)	0.018	0.004
261	21.75	0.10	0.022	(0.261)	0.018	0.004
262	21.83	0.07	0.014	(0.260)	0.012	0.003
263	21.92	0.07	0.014	(0.259)	0.012	0.003
264	22.00	0.07	0.014	(0.258)	0.012	0.003
265	22.08	0.10	0.022	(0.257)	0.018	0.004
266	22.17	0.10	0.022	(0.256)	0.018	0.004
267	22.25	0.10	0.022	(0.256)	0.018	0.004
268	22.33	0.07	0.014	(0.255)	0.012	0.003
269	22.42	0.07	0.014	(0.254)	0.012	0.003
270	22.50	0.07	0.014	(0.253)	0.012	0.003
271	22.58	0.07	0.014	(0.253)	0.012	0.003
272	22.67	0.07	0.014	(0.252)	0.012	0.003
273	22.75	0.07	0.014	(0.251)	0.012	0.003
274	22.83	0.07	0.014	(0.251)	0.012	0.003
275	22.92	0.07	0.014	(0.250)	0.012	0.003
276	23.00	0.07	0.014	(0.249)	0.012	0.003
277	23.08	0.07	0.014	(0.249)	0.012	0.003
278	23.17	0.07	0.014	(0.248)	0.012	0.003
279	23.25	0.07	0.014	(0.248)	0.012	0.003
280	23.33	0.07	0.014	(0.247)	0.012	0.003
281	23.42	0.07	0.014	(0.247)	0.012	0.003
282	23.50	0.07	0.014	(0.246)	0.012	0.003
283	23.58	0.07	0.014	(0.246)	0.012	0.003
284	23.67	0.07	0.014	(0.245)	0.012	0.003
285	23.75	0.07	0.014	(0.245)	0.012	0.003
286	23.83	0.07	0.014	(0.245)	0.012	0.003
287	23.92	0.07	0.014	(0.245)	0.012	0.003
288	24.00	0.07	0.014	(0.245)	0.012	0.003

(Loss Rate Not Used)

Sum = 100.0 Sum = 3.9
Flood volume = Effective rainfall 0.32(In)
times area 7.0(Ac.)/[(In)/(Ft.)] = 0.2(Ac.Ft)
Total soil loss = 1.48(In)
Total soil loss = 0.861(Ac.Ft)
Total rainfall = 1.80(In)
Flood volume = 8232.7 Cubic Feet
Total soil loss = 37504.6 Cubic Feet

Peak flow rate of this hydrograph = 0.311(CFS)

+++++
24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0001	0.01	Q				
0+10	0.0002	0.02	Q				
0+15	0.0003	0.02	Q				
0+20	0.0004	0.02	Q				
0+25	0.0006	0.03	Q				
0+30	0.0008	0.03	Q				
0+35	0.0010	0.03	Q				
0+40	0.0012	0.03	Q				
0+45	0.0014	0.03	Q				
0+50	0.0016	0.03	Q				
0+55	0.0018	0.04	Q				
1+ 0	0.0021	0.04	Q				
1+ 5	0.0023	0.03	Q				
1+10	0.0025	0.03	Q				
1+15	0.0027	0.03	Q				
1+20	0.0029	0.03	Q				
1+25	0.0031	0.03	Q				
1+30	0.0033	0.03	Q				
1+35	0.0035	0.03	Q				
1+40	0.0037	0.03	Q				
1+45	0.0038	0.03	Q				

1+50	0.0041	0.03	Q				
1+55	0.0043	0.04	Q				
2+ 0	0.0046	0.04	Q				
2+ 5	0.0048	0.04	QV				
2+10	0.0051	0.04	QV				
2+15	0.0053	0.04	QV				
2+20	0.0056	0.04	QV				
2+25	0.0058	0.04	QV				
2+30	0.0061	0.04	QV				
2+35	0.0063	0.04	QV				
2+40	0.0067	0.04	QV				
2+45	0.0070	0.05	QV				
2+50	0.0073	0.05	QV				
2+55	0.0076	0.05	QV				
3+ 0	0.0079	0.05	QV				
3+ 5	0.0082	0.05	QV				
3+10	0.0085	0.05	QV				
3+15	0.0089	0.05	QV				
3+20	0.0092	0.05	QV				
3+25	0.0095	0.05	Q V				
3+30	0.0098	0.05	Q V				
3+35	0.0101	0.05	Q V				
3+40	0.0104	0.05	Q V				
3+45	0.0107	0.05	Q V				
3+50	0.0111	0.05	Q V				
3+55	0.0115	0.05	Q V				
4+ 0	0.0118	0.05	Q V				
4+ 5	0.0122	0.05	Q V				
4+10	0.0126	0.05	Q V				
4+15	0.0130	0.05	Q V				
4+20	0.0134	0.06	Q V				
4+25	0.0138	0.06	Q V				
4+30	0.0143	0.06	Q V				
4+35	0.0147	0.06	Q V				
4+40	0.0151	0.06	Q V				
4+45	0.0156	0.06	Q V				
4+50	0.0160	0.07	Q V				
4+55	0.0165	0.07	Q V				
5+ 0	0.0170	0.07	Q V				
5+ 5	0.0175	0.06	Q V				
5+10	0.0179	0.06	Q V				
5+15	0.0183	0.06	Q V				
5+20	0.0187	0.06	Q V				
5+25	0.0191	0.06	Q V				
5+30	0.0195	0.06	Q V				
5+35	0.0200	0.07	Q V				
5+40	0.0205	0.07	Q V				
5+45	0.0210	0.07	Q V				
5+50	0.0215	0.07	Q V				
5+55	0.0220	0.07	Q V				
6+ 0	0.0225	0.07	Q V				
6+ 5	0.0231	0.08	Q V				
6+10	0.0236	0.08	Q V				
6+15	0.0242	0.08	Q V				
6+20	0.0248	0.08	Q V				
6+25	0.0253	0.08	Q V				
6+30	0.0259	0.08	Q V				
6+35	0.0265	0.09	Q V				
6+40	0.0271	0.09	Q V				
6+45	0.0277	0.09	Q V				
6+50	0.0284	0.09	Q V				
6+55	0.0290	0.09	Q V				
7+ 0	0.0296	0.09	Q V				
7+ 5	0.0303	0.09	Q V				
7+10	0.0309	0.09	Q V				
7+15	0.0315	0.09	Q V				
7+20	0.0322	0.10	Q V				
7+25	0.0329	0.10	Q V				
7+30	0.0336	0.10	Q V				
7+35	0.0343	0.10	Q V				
7+40	0.0350	0.11	Q V				
7+45	0.0358	0.11	Q V				
7+50	0.0366	0.11	Q V				
7+55	0.0374	0.12	Q V				
8+ 0	0.0382	0.12	Q V				
8+ 5	0.0391	0.13	Q V				
8+10	0.0400	0.14	Q V				
8+15	0.0409	0.14	Q V				
8+20	0.0419	0.14	Q V				
8+25	0.0428	0.14	Q V				
8+30	0.0438	0.14	Q V				
8+35	0.0448	0.14	Q V				
8+40	0.0458	0.15	Q V				
8+45	0.0468	0.15	Q V				
8+50	0.0478	0.15	Q V				
8+55	0.0489	0.15	Q V				

9+ 0	0.0499	0.16	Q	V			
9+ 5	0.0511	0.16	Q	V			
9+10	0.0522	0.17	Q	V			
9+15	0.0534	0.17	Q	V			
9+20	0.0547	0.18	Q	V			
9+25	0.0559	0.18	Q	V			
9+30	0.0572	0.18	Q	V			
9+35	0.0585	0.19	Q	V			
9+40	0.0598	0.19	Q	V			
9+45	0.0611	0.19	Q	V			
9+50	0.0625	0.20	Q	V			
9+55	0.0638	0.20	Q	V			
10+ 0	0.0652	0.20	Q	V			
10+ 5	0.0664	0.17	Q	V			
10+10	0.0674	0.14	Q	V			
10+15	0.0683	0.14	Q	V			
10+20	0.0693	0.14	Q	V			
10+25	0.0702	0.14	Q	V			
10+30	0.0712	0.14	Q	V			
10+35	0.0723	0.16	Q	V			
10+40	0.0735	0.18	Q	V			
10+45	0.0747	0.18	Q	V			
10+50	0.0760	0.18	Q	V			
10+55	0.0773	0.18	Q	V			
11+ 0	0.0785	0.18	Q	V			
11+ 5	0.0798	0.18	Q	V			
11+10	0.0810	0.17	Q	V			
11+15	0.0822	0.17	Q	V			
11+20	0.0834	0.17	Q	V			
11+25	0.0846	0.17	Q	V			
11+30	0.0858	0.17	Q	V			
11+35	0.0869	0.17	Q	V			
11+40	0.0880	0.16	Q	V			
11+45	0.0891	0.16	Q	V			
11+50	0.0902	0.16	Q	V			
11+55	0.0913	0.16	Q	V			
12+ 0	0.0924	0.16	Q	V			
12+ 5	0.0938	0.19	Q	V			
12+10	0.0953	0.22	Q	V			
12+15	0.0968	0.23	Q	V			
12+20	0.0984	0.23	Q	V			
12+25	0.1001	0.24	Q	V			
12+30	0.1017	0.24	Q	V			
12+35	0.1034	0.25	Q	V			
12+40	0.1052	0.25	Q	V			
12+45	0.1069	0.26	Q	V			
12+50	0.1087	0.26	Q	V			
12+55	0.1105	0.26	Q	V			
13+ 0	0.1124	0.26	Q	V			
13+ 5	0.1143	0.29	Q	V			
13+10	0.1164	0.31	Q	V			
13+15	0.1186	0.31	Q	V			
13+20	0.1207	0.31	Q	V			
13+25	0.1229	0.31	Q	V			
13+30	0.1250	0.31	Q	V			
13+35	0.1268	0.26	Q	V			
13+40	0.1283	0.22	Q	V			
13+45	0.1298	0.21	Q	V			
13+50	0.1313	0.21	Q	V			
13+55	0.1327	0.21	Q	V			
14+ 0	0.1342	0.21	Q	V			
14+ 5	0.1357	0.23	Q	V			
14+10	0.1374	0.24	Q	V			
14+15	0.1391	0.25	Q	V			
14+20	0.1408	0.24	Q	V			
14+25	0.1424	0.24	Q	V			
14+30	0.1440	0.24	Q	V			
14+35	0.1457	0.24	Q	V			
14+40	0.1473	0.24	Q	V			
14+45	0.1490	0.24	Q	V			
14+50	0.1506	0.23	Q	V			
14+55	0.1521	0.23	Q	V			
15+ 0	0.1537	0.23	Q	V			
15+ 5	0.1553	0.22	Q	V			
15+10	0.1568	0.22	Q	V			
15+15	0.1583	0.22	Q	V			
15+20	0.1598	0.22	Q	V			
15+25	0.1612	0.21	Q	V			
15+30	0.1627	0.21	Q	V			
15+35	0.1640	0.19	Q	V			
15+40	0.1652	0.18	Q	V			
15+45	0.1665	0.17	Q	V			
15+50	0.1677	0.17	Q	V			
15+55	0.1688	0.17	Q	V			
16+ 0	0.1700	0.17	Q	V			
16+ 5	0.1708	0.11	Q	V			

16+10	0.1712	0.05	Q				V
16+15	0.1714	0.04	Q				V
16+20	0.1717	0.04	Q				V
16+25	0.1719	0.04	Q				V
16+30	0.1722	0.04	Q				V
16+35	0.1724	0.03	Q				V
16+40	0.1726	0.03	Q				V
16+45	0.1728	0.03	Q				V
16+50	0.1730	0.03	Q				V
16+55	0.1732	0.03	Q				V
17+ 0	0.1734	0.03	Q				V
17+ 5	0.1736	0.04	Q				V
17+10	0.1739	0.04	Q				V
17+15	0.1742	0.05	Q				V
17+20	0.1745	0.05	Q				V
17+25	0.1749	0.05	Q				V
17+30	0.1752	0.05	Q				V
17+35	0.1755	0.05	Q				V
17+40	0.1758	0.05	Q				V
17+45	0.1761	0.05	Q				V
17+50	0.1764	0.04	Q				V
17+55	0.1767	0.04	Q				V
18+ 0	0.1769	0.04	Q				V
18+ 5	0.1772	0.04	Q				V
18+10	0.1774	0.04	Q				V
18+15	0.1777	0.04	Q				V
18+20	0.1779	0.04	Q				V
18+25	0.1782	0.04	Q				V
18+30	0.1784	0.04	Q				V
18+35	0.1787	0.03	Q				V
18+40	0.1789	0.03	Q				V
18+45	0.1790	0.03	Q				V
18+50	0.1792	0.02	Q				V
18+55	0.1793	0.02	Q				V
19+ 0	0.1795	0.02	Q				V
19+ 5	0.1796	0.02	Q				V
19+10	0.1798	0.03	Q				V
19+15	0.1800	0.03	Q				V
19+20	0.1802	0.03	Q				V
19+25	0.1805	0.04	Q				V
19+30	0.1807	0.04	Q				V
19+35	0.1809	0.03	Q				V
19+40	0.1811	0.03	Q				V
19+45	0.1813	0.03	Q				V
19+50	0.1815	0.02	Q				V
19+55	0.1816	0.02	Q				V
20+ 0	0.1817	0.02	Q				V
20+ 5	0.1819	0.02	Q				V
20+10	0.1821	0.03	Q				V
20+15	0.1823	0.03	Q				V
20+20	0.1824	0.03	Q				V
20+25	0.1826	0.03	Q				V
20+30	0.1828	0.03	Q				V
20+35	0.1830	0.03	Q				V
20+40	0.1832	0.03	Q				V
20+45	0.1834	0.03	Q				V
20+50	0.1835	0.02	Q				V
20+55	0.1837	0.02	Q				V
21+ 0	0.1838	0.02	Q				V
21+ 5	0.1840	0.02	Q				V
21+10	0.1841	0.03	Q				V
21+15	0.1843	0.03	Q				V
21+20	0.1845	0.02	Q				V
21+25	0.1846	0.02	Q				V
21+30	0.1848	0.02	Q				V
21+35	0.1849	0.02	Q				V
21+40	0.1851	0.03	Q				V
21+45	0.1853	0.03	Q				V
21+50	0.1854	0.02	Q				V
21+55	0.1856	0.02	Q				V
22+ 0	0.1857	0.02	Q				V
22+ 5	0.1859	0.02	Q				V
22+10	0.1860	0.03	Q				V
22+15	0.1862	0.03	Q				V
22+20	0.1864	0.02	Q				V
22+25	0.1865	0.02	Q				V
22+30	0.1866	0.02	Q				V
22+35	0.1868	0.02	Q				V
22+40	0.1869	0.02	Q				V
22+45	0.1870	0.02	Q				V
22+50	0.1871	0.02	Q				V
22+55	0.1873	0.02	Q				V
23+ 0	0.1874	0.02	Q				V
23+ 5	0.1875	0.02	Q				V
23+10	0.1877	0.02	Q				V
23+15	0.1878	0.02	Q				V

23+20	0.1879	0.02	Q				V
23+25	0.1880	0.02	Q				V
23+30	0.1882	0.02	Q				V
23+35	0.1883	0.02	Q				V
23+40	0.1884	0.02	Q				V
23+45	0.1885	0.02	Q				V
23+50	0.1887	0.02	Q				V
23+55	0.1888	0.02	Q				V
24+ 0	0.1889	0.02	Q				V
24+ 5	0.1890	0.01	Q				V
24+10	0.1890	0.00	Q				V
24+15	0.1890	0.00	Q				V

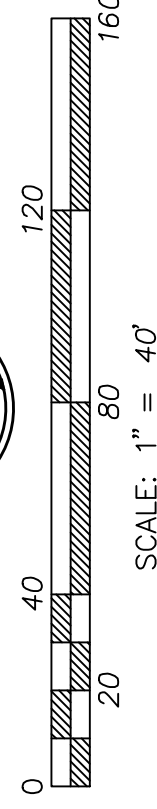
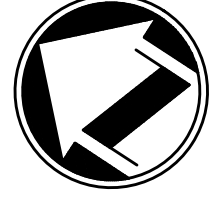
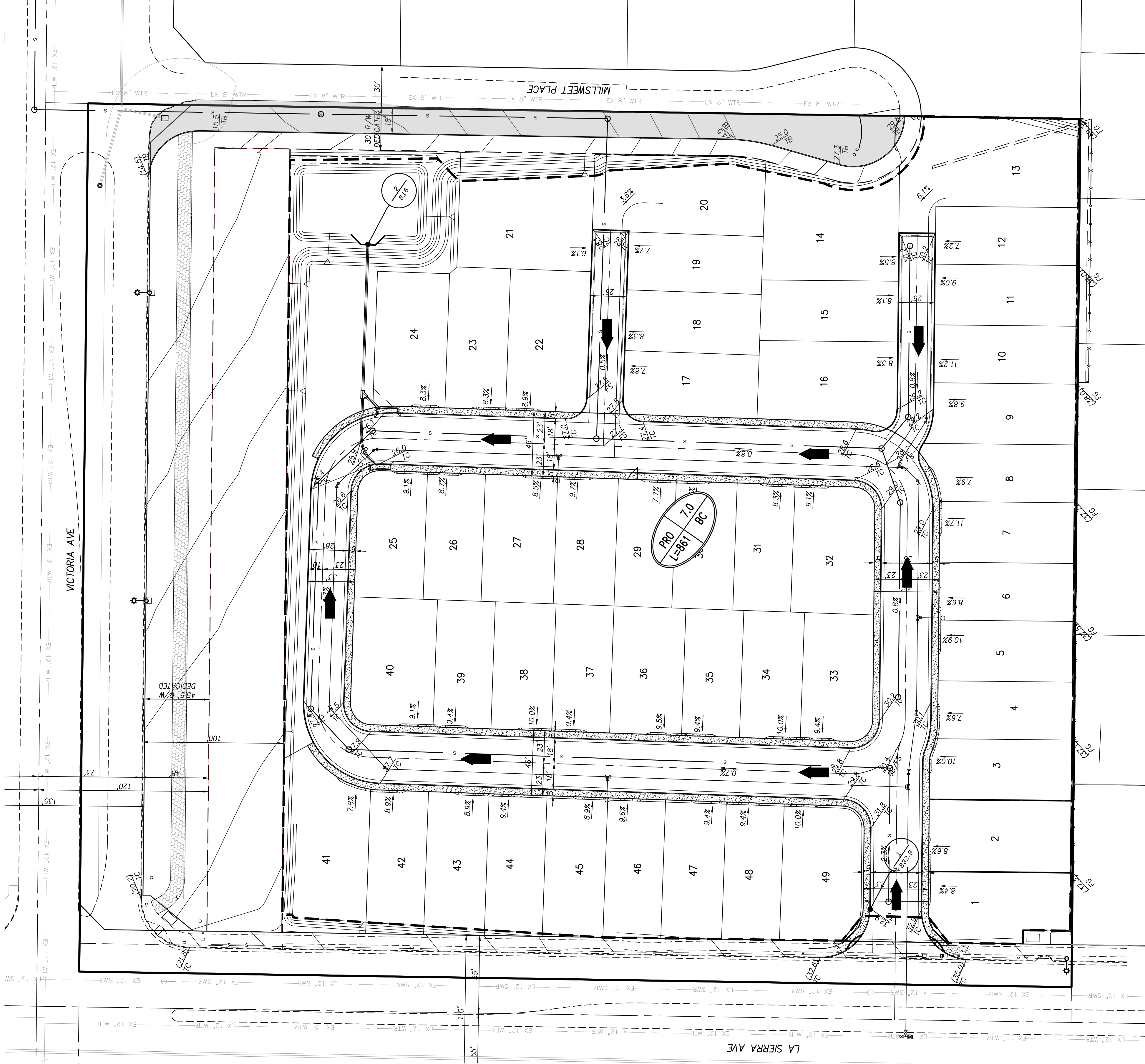
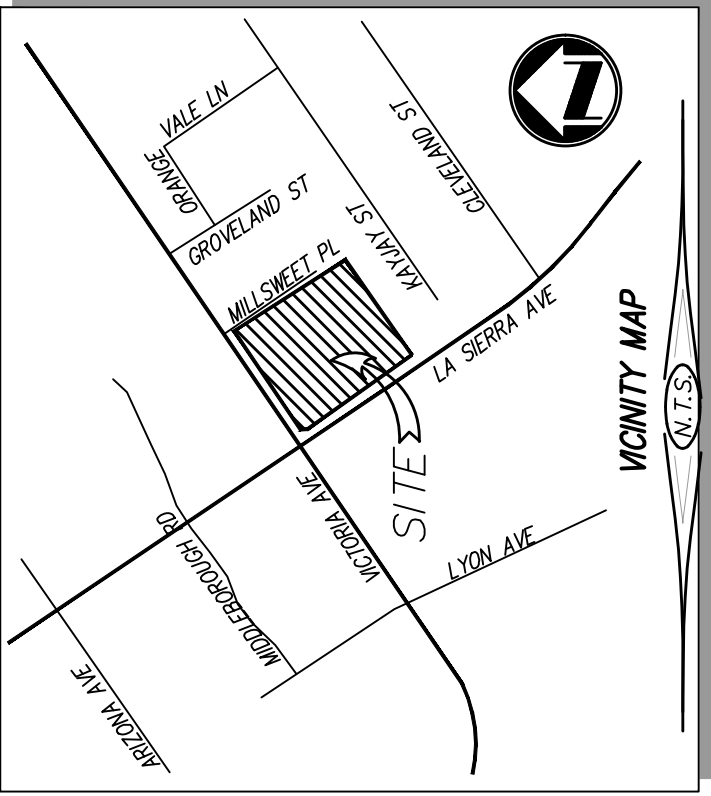
Section 2

Post-Development Unit Hydrograph

IN THE COMMUNITY OF WINCHESTER, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA

POST DEVELOPMENT UNIT HYDROGRAPH

THOMAS BROS. MAP PG 744 GRID G-3



Unit Hydrograph Analysis

Copyright (C) CIVILCADD/CIVILDESIGN, 1989 - 2008, Version 8.1
Study date 02/22/24 File: 2YR242.out

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 5006

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input values Used
English Units used in output format

Drainage Area = 7.00(Ac.) = 0.011 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 7.00(Ac.) = 0.011 Sq. Mi.
Length along longest watercourse = 861.00(Ft.)
Length along longest watercourse measured to centroid = 430.00(Ft.)
Length along longest watercourse = 0.163 Mi.
Length along longest watercourse measured to centroid = 0.081 Mi.
Difference in elevation = 16.90(Ft.)
Slope along watercourse = 103.6376 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.029 Hr.
Lag time = 1.73 Min.
25% of lag time = 0.43 Min.
40% of lag time = 0.69 Min.
Unit time = 5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	weighting[1*2]
7.00	1.80	12.60

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	weighting[1*2]
7.00	6.00	42.00

STORM EVENT (YEAR) = 2.00
Area Averaged 2-Year Rainfall = 1.800(In)
Area Averaged 100-Year Rainfall = 6.000(In)

Point rain (area averaged) = 1.800(In)
Areal adjustment factor = 100.00 %
Adjusted average point rain = 1.800(In)

Sub-Area Data:
Area(Ac.) Runoff Index Impervious %
7.000 69.00 0.600
Total Area Entered = 7.00(Ac.)

RI	RI	Infil. Rate	Impervious	Adj. Infil. Rate	Area%	F
AMC2	AMC-1	(In/Hr)	(Dec.)	(In/Hr)	(Dec.)	(In/Hr)
69.0	49.8	0.574	0.600	0.264	1.000	0.264
Sum (F) =						0.264

Area averaged mean soil loss (F) (In/Hr) = 0.264
Minimum soil loss rate ((In/Hr)) = 0.132
(for 24 hour storm duration)
Soil loss rate (decimal) = 0.420

Unit Hydrograph VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)	Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
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1	0.083	288.833	55.504	3.916
2	0.167	577.666	37.752	2.663
3	0.250	866.500	6.744	0.476
Sum = 100.000			Sum=	7.055

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr)		Effective (In/Hr)
				Max	Low	
1	0.08	0.07	0.014	(0.468)	0.006	0.008
2	0.17	0.07	0.014	(0.466)	0.006	0.008
3	0.25	0.07	0.014	(0.464)	0.006	0.008
4	0.33	0.10	0.022	(0.463)	0.009	0.013
5	0.42	0.10	0.022	(0.461)	0.009	0.013
6	0.50	0.10	0.022	(0.459)	0.009	0.013
7	0.58	0.10	0.022	(0.457)	0.009	0.013
8	0.67	0.10	0.022	(0.455)	0.009	0.013
9	0.75	0.10	0.022	(0.454)	0.009	0.013
10	0.83	0.13	0.029	(0.452)	0.012	0.017
11	0.92	0.13	0.029	(0.450)	0.012	0.017
12	1.00	0.13	0.029	(0.448)	0.012	0.017
13	1.08	0.10	0.022	(0.447)	0.009	0.013
14	1.17	0.10	0.022	(0.445)	0.009	0.013
15	1.25	0.10	0.022	(0.443)	0.009	0.013
16	1.33	0.10	0.022	(0.441)	0.009	0.013
17	1.42	0.10	0.022	(0.439)	0.009	0.013
18	1.50	0.10	0.022	(0.438)	0.009	0.013
19	1.58	0.10	0.022	(0.436)	0.009	0.013
20	1.67	0.10	0.022	(0.434)	0.009	0.013
21	1.75	0.10	0.022	(0.433)	0.009	0.013
22	1.83	0.13	0.029	(0.431)	0.012	0.017
23	1.92	0.13	0.029	(0.429)	0.012	0.017
24	2.00	0.13	0.029	(0.427)	0.012	0.017
25	2.08	0.13	0.029	(0.426)	0.012	0.017
26	2.17	0.13	0.029	(0.424)	0.012	0.017
27	2.25	0.13	0.029	(0.422)	0.012	0.017
28	2.33	0.13	0.029	(0.420)	0.012	0.017
29	2.42	0.13	0.029	(0.419)	0.012	0.017
30	2.50	0.13	0.029	(0.417)	0.012	0.017
31	2.58	0.17	0.036	(0.415)	0.015	0.021
32	2.67	0.17	0.036	(0.414)	0.015	0.021
33	2.75	0.17	0.036	(0.412)	0.015	0.021
34	2.83	0.17	0.036	(0.410)	0.015	0.021
35	2.92	0.17	0.036	(0.408)	0.015	0.021
36	3.00	0.17	0.036	(0.407)	0.015	0.021
37	3.08	0.17	0.036	(0.405)	0.015	0.021
38	3.17	0.17	0.036	(0.403)	0.015	0.021
39	3.25	0.17	0.036	(0.402)	0.015	0.021
40	3.33	0.17	0.036	(0.400)	0.015	0.021
41	3.42	0.17	0.036	(0.398)	0.015	0.021
42	3.50	0.17	0.036	(0.397)	0.015	0.021
43	3.58	0.17	0.036	(0.395)	0.015	0.021
44	3.67	0.17	0.036	(0.393)	0.015	0.021
45	3.75	0.17	0.036	(0.392)	0.015	0.021
46	3.83	0.20	0.043	(0.390)	0.018	0.025
47	3.92	0.20	0.043	(0.388)	0.018	0.025
48	4.00	0.20	0.043	(0.387)	0.018	0.025
49	4.08	0.20	0.043	(0.385)	0.018	0.025
50	4.17	0.20	0.043	(0.384)	0.018	0.025
51	4.25	0.20	0.043	(0.382)	0.018	0.025
52	4.33	0.23	0.050	(0.380)	0.021	0.029
53	4.42	0.23	0.050	(0.379)	0.021	0.029
54	4.50	0.23	0.050	(0.377)	0.021	0.029
55	4.58	0.23	0.050	(0.375)	0.021	0.029
56	4.67	0.23	0.050	(0.374)	0.021	0.029
57	4.75	0.23	0.050	(0.372)	0.021	0.029
58	4.83	0.27	0.058	(0.371)	0.024	0.033
59	4.92	0.27	0.058	(0.369)	0.024	0.033
60	5.00	0.27	0.058	(0.367)	0.024	0.033
61	5.08	0.20	0.043	(0.366)	0.018	0.025
62	5.17	0.20	0.043	(0.364)	0.018	0.025
63	5.25	0.20	0.043	(0.363)	0.018	0.025
64	5.33	0.23	0.050	(0.361)	0.021	0.029
65	5.42	0.23	0.050	(0.359)	0.021	0.029
66	5.50	0.23	0.050	(0.358)	0.021	0.029
67	5.58	0.27	0.058	(0.356)	0.024	0.033
68	5.67	0.27	0.058	(0.355)	0.024	0.033
69	5.75	0.27	0.058	(0.353)	0.024	0.033
70	5.83	0.27	0.058	(0.352)	0.024	0.033
71	5.92	0.27	0.058	(0.350)	0.024	0.033
72	6.00	0.27	0.058	(0.349)	0.024	0.033
73	6.08	0.30	0.065	(0.347)	0.027	0.038

74	6.17	0.30	0.065	(0.345)	0.027	0.038
75	6.25	0.30	0.065	(0.344)	0.027	0.038
76	6.33	0.30	0.065	(0.342)	0.027	0.038
77	6.42	0.30	0.065	(0.341)	0.027	0.038
78	6.50	0.30	0.065	(0.339)	0.027	0.038
79	6.58	0.33	0.072	(0.338)	0.030	0.042
80	6.67	0.33	0.072	(0.336)	0.030	0.042
81	6.75	0.33	0.072	(0.335)	0.030	0.042
82	6.83	0.33	0.072	(0.333)	0.030	0.042
83	6.92	0.33	0.072	(0.332)	0.030	0.042
84	7.00	0.33	0.072	(0.330)	0.030	0.042
85	7.08	0.33	0.072	(0.329)	0.030	0.042
86	7.17	0.33	0.072	(0.327)	0.030	0.042
87	7.25	0.33	0.072	(0.326)	0.030	0.042
88	7.33	0.37	0.079	(0.324)	0.033	0.046
89	7.42	0.37	0.079	(0.323)	0.033	0.046
90	7.50	0.37	0.079	(0.321)	0.033	0.046
91	7.58	0.40	0.086	(0.320)	0.036	0.050
92	7.67	0.40	0.086	(0.318)	0.036	0.050
93	7.75	0.40	0.086	(0.317)	0.036	0.050
94	7.83	0.43	0.094	(0.315)	0.039	0.054
95	7.92	0.43	0.094	(0.314)	0.039	0.054
96	8.00	0.43	0.094	(0.312)	0.039	0.054
97	8.08	0.50	0.108	(0.311)	0.045	0.063
98	8.17	0.50	0.108	(0.310)	0.045	0.063
99	8.25	0.50	0.108	(0.308)	0.045	0.063
100	8.33	0.50	0.108	(0.307)	0.045	0.063
101	8.42	0.50	0.108	(0.305)	0.045	0.063
102	8.50	0.50	0.108	(0.304)	0.045	0.063
103	8.58	0.53	0.115	(0.302)	0.048	0.067
104	8.67	0.53	0.115	(0.301)	0.048	0.067
105	8.75	0.53	0.115	(0.300)	0.048	0.067
106	8.83	0.57	0.122	(0.298)	0.051	0.071
107	8.92	0.57	0.122	(0.297)	0.051	0.071
108	9.00	0.57	0.122	(0.295)	0.051	0.071
109	9.08	0.63	0.137	(0.294)	0.057	0.079
110	9.17	0.63	0.137	(0.293)	0.057	0.079
111	9.25	0.63	0.137	(0.291)	0.057	0.079
112	9.33	0.67	0.144	(0.290)	0.060	0.084
113	9.42	0.67	0.144	(0.288)	0.060	0.084
114	9.50	0.67	0.144	(0.287)	0.060	0.084
115	9.58	0.70	0.151	(0.286)	0.064	0.088
116	9.67	0.70	0.151	(0.284)	0.064	0.088
117	9.75	0.70	0.151	(0.283)	0.064	0.088
118	9.83	0.73	0.158	(0.282)	0.067	0.092
119	9.92	0.73	0.158	(0.280)	0.067	0.092
120	10.00	0.73	0.158	(0.279)	0.067	0.092
121	10.08	0.50	0.108	(0.277)	0.045	0.063
122	10.17	0.50	0.108	(0.276)	0.045	0.063
123	10.25	0.50	0.108	(0.275)	0.045	0.063
124	10.33	0.50	0.108	(0.273)	0.045	0.063
125	10.42	0.50	0.108	(0.272)	0.045	0.063
126	10.50	0.50	0.108	(0.271)	0.045	0.063
127	10.58	0.67	0.144	(0.269)	0.060	0.084
128	10.67	0.67	0.144	(0.268)	0.060	0.084
129	10.75	0.67	0.144	(0.267)	0.060	0.084
130	10.83	0.67	0.144	(0.266)	0.060	0.084
131	10.92	0.67	0.144	(0.264)	0.060	0.084
132	11.00	0.67	0.144	(0.263)	0.060	0.084
133	11.08	0.63	0.137	(0.262)	0.057	0.079
134	11.17	0.63	0.137	(0.260)	0.057	0.079
135	11.25	0.63	0.137	(0.259)	0.057	0.079
136	11.33	0.63	0.137	(0.258)	0.057	0.079
137	11.42	0.63	0.137	(0.256)	0.057	0.079
138	11.50	0.63	0.137	(0.255)	0.057	0.079
139	11.58	0.57	0.122	(0.254)	0.051	0.071
140	11.67	0.57	0.122	(0.253)	0.051	0.071
141	11.75	0.57	0.122	(0.251)	0.051	0.071
142	11.83	0.60	0.130	(0.250)	0.054	0.075
143	11.92	0.60	0.130	(0.249)	0.054	0.075
144	12.00	0.60	0.130	(0.248)	0.054	0.075
145	12.08	0.83	0.180	(0.246)	0.076	0.104
146	12.17	0.83	0.180	(0.245)	0.076	0.104
147	12.25	0.83	0.180	(0.244)	0.076	0.104
148	12.33	0.87	0.187	(0.243)	0.079	0.109
149	12.42	0.87	0.187	(0.242)	0.079	0.109
150	12.50	0.87	0.187	(0.240)	0.079	0.109
151	12.58	0.93	0.202	(0.239)	0.085	0.117
152	12.67	0.93	0.202	(0.238)	0.085	0.117
153	12.75	0.93	0.202	(0.237)	0.085	0.117
154	12.83	0.97	0.209	(0.236)	0.088	0.121
155	12.92	0.97	0.209	(0.234)	0.088	0.121
156	13.00	0.97	0.209	(0.233)	0.088	0.121
157	13.08	1.13	0.245	(0.232)	0.103	0.142
158	13.17	1.13	0.245	(0.231)	0.103	0.142
159	13.25	1.13	0.245	(0.230)	0.103	0.142

160	13.33	1.13	0.245	(0.228)	0.103	0.142
161	13.42	1.13	0.245	(0.227)	0.103	0.142
162	13.50	1.13	0.245	(0.226)	0.103	0.142
163	13.58	0.77	0.166	(0.225)	0.070	0.096
164	13.67	0.77	0.166	(0.224)	0.070	0.096
165	13.75	0.77	0.166	(0.223)	0.070	0.096
166	13.83	0.77	0.166	(0.222)	0.070	0.096
167	13.92	0.77	0.166	(0.220)	0.070	0.096
168	14.00	0.77	0.166	(0.219)	0.070	0.096
169	14.08	0.90	0.194	(0.218)	0.082	0.113
170	14.17	0.90	0.194	(0.217)	0.082	0.113
171	14.25	0.90	0.194	(0.216)	0.082	0.113
172	14.33	0.87	0.187	(0.215)	0.079	0.109
173	14.42	0.87	0.187	(0.214)	0.079	0.109
174	14.50	0.87	0.187	(0.213)	0.079	0.109
175	14.58	0.87	0.187	(0.212)	0.079	0.109
176	14.67	0.87	0.187	(0.210)	0.079	0.109
177	14.75	0.87	0.187	(0.209)	0.079	0.109
178	14.83	0.83	0.180	(0.208)	0.076	0.104
179	14.92	0.83	0.180	(0.207)	0.076	0.104
180	15.00	0.83	0.180	(0.206)	0.076	0.104
181	15.08	0.80	0.173	(0.205)	0.073	0.100
182	15.17	0.80	0.173	(0.204)	0.073	0.100
183	15.25	0.80	0.173	(0.203)	0.073	0.100
184	15.33	0.77	0.166	(0.202)	0.070	0.096
185	15.42	0.77	0.166	(0.201)	0.070	0.096
186	15.50	0.77	0.166	(0.200)	0.070	0.096
187	15.58	0.63	0.137	(0.199)	0.057	0.079
188	15.67	0.63	0.137	(0.198)	0.057	0.079
189	15.75	0.63	0.137	(0.197)	0.057	0.079
190	15.83	0.63	0.137	(0.196)	0.057	0.079
191	15.92	0.63	0.137	(0.195)	0.057	0.079
192	16.00	0.63	0.137	(0.194)	0.057	0.079
193	16.08	0.13	0.029	(0.193)	0.012	0.017
194	16.17	0.13	0.029	(0.192)	0.012	0.017
195	16.25	0.13	0.029	(0.191)	0.012	0.017
196	16.33	0.13	0.029	(0.190)	0.012	0.017
197	16.42	0.13	0.029	(0.189)	0.012	0.017
198	16.50	0.13	0.029	(0.188)	0.012	0.017
199	16.58	0.10	0.022	(0.187)	0.009	0.013
200	16.67	0.10	0.022	(0.186)	0.009	0.013
201	16.75	0.10	0.022	(0.185)	0.009	0.013
202	16.83	0.10	0.022	(0.184)	0.009	0.013
203	16.92	0.10	0.022	(0.183)	0.009	0.013
204	17.00	0.10	0.022	(0.182)	0.009	0.013
205	17.08	0.17	0.036	(0.181)	0.015	0.021
206	17.17	0.17	0.036	(0.181)	0.015	0.021
207	17.25	0.17	0.036	(0.180)	0.015	0.021
208	17.33	0.17	0.036	(0.179)	0.015	0.021
209	17.42	0.17	0.036	(0.178)	0.015	0.021
210	17.50	0.17	0.036	(0.177)	0.015	0.021
211	17.58	0.17	0.036	(0.176)	0.015	0.021
212	17.67	0.17	0.036	(0.175)	0.015	0.021
213	17.75	0.17	0.036	(0.174)	0.015	0.021
214	17.83	0.13	0.029	(0.173)	0.012	0.017
215	17.92	0.13	0.029	(0.173)	0.012	0.017
216	18.00	0.13	0.029	(0.172)	0.012	0.017
217	18.08	0.13	0.029	(0.171)	0.012	0.017
218	18.17	0.13	0.029	(0.170)	0.012	0.017
219	18.25	0.13	0.029	(0.169)	0.012	0.017
220	18.33	0.13	0.029	(0.168)	0.012	0.017
221	18.42	0.13	0.029	(0.168)	0.012	0.017
222	18.50	0.13	0.029	(0.167)	0.012	0.017
223	18.58	0.10	0.022	(0.166)	0.009	0.013
224	18.67	0.10	0.022	(0.165)	0.009	0.013
225	18.75	0.10	0.022	(0.164)	0.009	0.013
226	18.83	0.07	0.014	(0.164)	0.006	0.008
227	18.92	0.07	0.014	(0.163)	0.006	0.008
228	19.00	0.07	0.014	(0.162)	0.006	0.008
229	19.08	0.10	0.022	(0.161)	0.009	0.013
230	19.17	0.10	0.022	(0.160)	0.009	0.013
231	19.25	0.10	0.022	(0.160)	0.009	0.013
232	19.33	0.13	0.029	(0.159)	0.012	0.017
233	19.42	0.13	0.029	(0.158)	0.012	0.017
234	19.50	0.13	0.029	(0.158)	0.012	0.017
235	19.58	0.10	0.022	(0.157)	0.009	0.013
236	19.67	0.10	0.022	(0.156)	0.009	0.013
237	19.75	0.10	0.022	(0.155)	0.009	0.013
238	19.83	0.07	0.014	(0.155)	0.006	0.008
239	19.92	0.07	0.014	(0.154)	0.006	0.008
240	20.00	0.07	0.014	(0.153)	0.006	0.008
241	20.08	0.10	0.022	(0.153)	0.009	0.013
242	20.17	0.10	0.022	(0.152)	0.009	0.013
243	20.25	0.10	0.022	(0.151)	0.009	0.013
244	20.33	0.10	0.022	(0.151)	0.009	0.013
245	20.42	0.10	0.022	(0.150)	0.009	0.013

1+55	0.0140	0.12	Q				
2+ 0	0.0148	0.12	Q				
2+ 5	0.0156	0.12	QV				
2+10	0.0164	0.12	QV				
2+15	0.0172	0.12	QV				
2+20	0.0181	0.12	QV				
2+25	0.0189	0.12	QV				
2+30	0.0197	0.12	QV				
2+35	0.0206	0.13	QV				
2+40	0.0216	0.15	QV				
2+45	0.0226	0.15	QV				
2+50	0.0236	0.15	QV				
2+55	0.0247	0.15	QV				
3+ 0	0.0257	0.15	QV				
3+ 5	0.0267	0.15	QV				
3+10	0.0277	0.15	QV				
3+15	0.0287	0.15	QV				
3+20	0.0297	0.15	QV				
3+25	0.0307	0.15	Q V				
3+30	0.0318	0.15	Q V				
3+35	0.0328	0.15	Q V				
3+40	0.0338	0.15	Q V				
3+45	0.0348	0.15	Q V				
3+50	0.0359	0.16	Q V				
3+55	0.0371	0.17	Q V				
4+ 0	0.0384	0.18	Q V				
4+ 5	0.0396	0.18	Q V				
4+10	0.0408	0.18	Q V				
4+15	0.0420	0.18	Q V				
4+20	0.0433	0.19	Q V				
4+25	0.0447	0.20	Q V				
4+30	0.0462	0.21	Q V				
4+35	0.0476	0.21	Q V				
4+40	0.0490	0.21	Q V				
4+45	0.0504	0.21	Q V				
4+50	0.0520	0.22	Q V				
4+55	0.0536	0.23	Q V				
5+ 0	0.0552	0.24	Q V				
5+ 5	0.0566	0.20	Q V				
5+10	0.0578	0.18	Q V				
5+15	0.0591	0.18	Q V				
5+20	0.0604	0.19	Q V				
5+25	0.0618	0.20	Q V				
5+30	0.0632	0.21	Q V				
5+35	0.0647	0.22	Q V				
5+40	0.0664	0.23	Q V				
5+45	0.0680	0.24	Q V				
5+50	0.0696	0.24	Q V				
5+55	0.0712	0.24	Q V				
6+ 0	0.0729	0.24	Q V				
6+ 5	0.0746	0.25	Q V				
6+10	0.0764	0.26	Q V				
6+15	0.0782	0.27	Q V				
6+20	0.0801	0.27	Q V				
6+25	0.0819	0.27	Q V				
6+30	0.0837	0.27	Q V				
6+35	0.0857	0.28	Q V				
6+40	0.0877	0.29	Q V				
6+45	0.0897	0.29	Q V				
6+50	0.0917	0.29	Q V				
6+55	0.0938	0.29	Q V				
7+ 0	0.0958	0.29	Q V				
7+ 5	0.0978	0.29	Q V				
7+10	0.0998	0.29	Q V				
7+15	0.1019	0.29	Q V				
7+20	0.1040	0.31	Q V				
7+25	0.1062	0.32	Q V				
7+30	0.1085	0.32	Q V				
7+35	0.1108	0.34	Q V				
7+40	0.1132	0.35	Q V				
7+45	0.1157	0.35	Q V				
7+50	0.1182	0.37	Q V				
7+55	0.1209	0.38	Q V				
8+ 0	0.1235	0.38	Q V				
8+ 5	0.1264	0.42	Q V				
8+10	0.1294	0.44	Q V				
8+15	0.1324	0.44	Q V				
8+20	0.1355	0.44	Q V				
8+25	0.1385	0.44	Q V				
8+30	0.1416	0.44	Q V				
8+35	0.1447	0.46	Q V				
8+40	0.1479	0.47	Q V				
8+45	0.1512	0.47	Q V				
8+50	0.1546	0.49	Q V				
8+55	0.1580	0.50	Q V				
9+ 0	0.1614	0.50	Q V				

9+ 5	0.1651	0.53	Q	V			
9+10	0.1689	0.56	Q	V			
9+15	0.1728	0.56	Q	V			
9+20	0.1768	0.58	Q	V			
9+25	0.1808	0.59	Q	V			
9+30	0.1849	0.59	Q	V			
9+35	0.1891	0.61	Q	V			
9+40	0.1933	0.62	Q	V			
9+45	0.1976	0.62	Q	V			
9+50	0.2019	0.64	Q	V			
9+55	0.2064	0.65	Q	V			
10+ 0	0.2109	0.65	Q	V			
10+ 5	0.2145	0.53	Q	V			
10+10	0.2177	0.46	Q	V			
10+15	0.2207	0.44	Q	V			
10+20	0.2238	0.44	Q	V			
10+25	0.2268	0.44	Q	V			
10+30	0.2299	0.44	Q	V			
10+35	0.2335	0.52	Q	V			
10+40	0.2375	0.58	Q	V			
10+45	0.2415	0.59	Q	V			
10+50	0.2456	0.59	Q	V			
10+55	0.2496	0.59	Q	V			
11+ 0	0.2537	0.59	Q	V			
11+ 5	0.2576	0.57	Q	V			
11+10	0.2615	0.56	Q	V			
11+15	0.2654	0.56	Q	V			
11+20	0.2692	0.56	Q	V			
11+25	0.2731	0.56	Q	V			
11+30	0.2769	0.56	Q	V			
11+35	0.2806	0.53	Q	V			
11+40	0.2841	0.51	Q	V			
11+45	0.2875	0.50	Q	V			
11+50	0.2911	0.52	Q	V			
11+55	0.2947	0.53	Q	V			
12+ 0	0.2984	0.53	Q	V			
12+ 5	0.3028	0.65	Q	V			
12+10	0.3078	0.72	Q	V			
12+15	0.3129	0.74	Q	V			
12+20	0.3180	0.75	Q	V			
12+25	0.3233	0.76	Q	V			
12+30	0.3286	0.77	Q	V			
12+35	0.3341	0.80	Q	V			
12+40	0.3397	0.82	Q	V			
12+45	0.3454	0.83	Q	V			
12+50	0.3512	0.84	Q	V			
12+55	0.3571	0.85	Q	V			
13+ 0	0.3630	0.85	Q	V			
13+ 5	0.3694	0.94	Q	V			
13+10	0.3763	0.99	Q	V			
13+15	0.3832	1.00	Q	V			
13+20	0.3901	1.00	Q	V			
13+25	0.3970	1.00	Q	V			
13+30	0.4039	1.00	Q	V			
13+35	0.4095	0.82	Q	V			
13+40	0.4144	0.70	Q	V			
13+45	0.4190	0.68	Q	V			
13+50	0.4237	0.68	Q	V			
13+55	0.4284	0.68	Q	V			
14+ 0	0.4330	0.68	Q	V			
14+ 5	0.4382	0.74	Q	V			
14+10	0.4436	0.79	Q	V			
14+15	0.4491	0.80	Q	V			
14+20	0.4544	0.78	Q	V			
14+25	0.4597	0.77	Q	V			
14+30	0.4650	0.77	Q	V			
14+35	0.4703	0.77	Q	V			
14+40	0.4756	0.77	Q	V			
14+45	0.4808	0.77	Q	V			
14+50	0.4860	0.75	Q	V			
14+55	0.4911	0.74	Q	V			
15+ 0	0.4962	0.74	Q	V			
15+ 5	0.5011	0.72	Q	V			
15+10	0.5060	0.71	Q	V			
15+15	0.5109	0.71	Q	V			
15+20	0.5156	0.69	Q	V			
15+25	0.5203	0.68	Q	V			
15+30	0.5250	0.68	Q	V			
15+35	0.5292	0.61	Q	V			
15+40	0.5331	0.57	Q	V			
15+45	0.5370	0.56	Q	V			
15+50	0.5408	0.56	Q	V			
15+55	0.5447	0.56	Q	V			
16+ 0	0.5486	0.56	Q	V			
16+ 5	0.5507	0.31	Q	V			
16+10	0.5517	0.15	Q	V			

16+15	0.5525	0.12	Q				V
16+20	0.5534	0.12	Q				V
16+25	0.5542	0.12	Q				V
16+30	0.5550	0.12	Q				V
16+35	0.5557	0.10	Q				V
16+40	0.5563	0.09	Q				V
16+45	0.5569	0.09	Q				V
16+50	0.5575	0.09	Q				V
16+55	0.5581	0.09	Q				V
17+ 0	0.5587	0.09	Q				V
17+ 5	0.5596	0.12	Q				V
17+10	0.5606	0.14	Q				V
17+15	0.5616	0.15	Q				V
17+20	0.5626	0.15	Q				V
17+25	0.5636	0.15	Q				V
17+30	0.5646	0.15	Q				V
17+35	0.5656	0.15	Q				V
17+40	0.5667	0.15	Q				V
17+45	0.5677	0.15	Q				V
17+50	0.5686	0.13	Q				V
17+55	0.5694	0.12	Q				V
18+ 0	0.5702	0.12	Q				V
18+ 5	0.5710	0.12	Q				V
18+10	0.5718	0.12	Q				V
18+15	0.5726	0.12	Q				V
18+20	0.5735	0.12	Q				V
18+25	0.5743	0.12	Q				V
18+30	0.5751	0.12	Q				V
18+35	0.5758	0.10	Q				V
18+40	0.5764	0.09	Q				V
18+45	0.5770	0.09	Q				V
18+50	0.5775	0.07	Q				V
18+55	0.5779	0.06	Q				V
19+ 0	0.5783	0.06	Q				V
19+ 5	0.5789	0.08	Q				V
19+10	0.5794	0.09	Q				V
19+15	0.5801	0.09	Q				V
19+20	0.5808	0.10	Q				V
19+25	0.5816	0.12	Q				V
19+30	0.5824	0.12	Q				V
19+35	0.5831	0.10	Q				V
19+40	0.5837	0.09	Q				V
19+45	0.5843	0.09	Q				V
19+50	0.5848	0.07	Q				V
19+55	0.5852	0.06	Q				V
20+ 0	0.5856	0.06	Q				V
20+ 5	0.5862	0.08	Q				V
20+10	0.5868	0.09	Q				V
20+15	0.5874	0.09	Q				V
20+20	0.5880	0.09	Q				V
20+25	0.5886	0.09	Q				V
20+30	0.5892	0.09	Q				V
20+35	0.5898	0.09	Q				V
20+40	0.5904	0.09	Q				V
20+45	0.5910	0.09	Q				V
20+50	0.5915	0.07	Q				V
20+55	0.5919	0.06	Q				V
21+ 0	0.5923	0.06	Q				V
21+ 5	0.5929	0.08	Q				V
21+10	0.5935	0.09	Q				V
21+15	0.5941	0.09	Q				V
21+20	0.5946	0.07	Q				V
21+25	0.5950	0.06	Q				V
21+30	0.5954	0.06	Q				V
21+35	0.5959	0.08	Q				V
21+40	0.5965	0.09	Q				V
21+45	0.5971	0.09	Q				V
21+50	0.5976	0.07	Q				V
21+55	0.5980	0.06	Q				V
22+ 0	0.5984	0.06	Q				V
22+ 5	0.5989	0.08	Q				V
22+10	0.5995	0.09	Q				V
22+15	0.6002	0.09	Q				V
22+20	0.6007	0.07	Q				V
22+25	0.6011	0.06	Q				V
22+30	0.6015	0.06	Q				V
22+35	0.6019	0.06	Q				V
22+40	0.6023	0.06	Q				V
22+45	0.6027	0.06	Q				V
22+50	0.6031	0.06	Q				V
22+55	0.6035	0.06	Q				V
23+ 0	0.6039	0.06	Q				V
23+ 5	0.6043	0.06	Q				V
23+10	0.6047	0.06	Q				V
23+15	0.6051	0.06	Q				V
23+20	0.6055	0.06	Q				V

23+25	0.6059	0.06	Q				V
23+30	0.6063	0.06	Q				V
23+35	0.6068	0.06	Q				V
23+40	0.6072	0.06	Q				V
23+45	0.6076	0.06	Q				V
23+50	0.6080	0.06	Q				V
23+55	0.6084	0.06	Q				V
24+ 0	0.6088	0.06	Q				V
24+ 5	0.6090	0.03	Q				V
24+10	0.6090	0.00	Q				V

Section 3

Riverside County Plates