

CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Interim Director



Mayor Timothy M. Keller

March 8, 2022

Ron Hensley, P.E.
THE Group/The Hensley Engineering Group
300 Branding Iron Rd. NE
Rio Rancho, NM 87124

Re: Palomas Meadow Subdivision – D21D031

Dear Mr. Hensley,

Based upon the information provided in your submittal with Engineering Stamp date 11/10/20, I have the following minor comments:

1. Please update the stamp dates. Provide same date on all stamped sheets (including the report).
2. Provide riprap between discharge point and the existing culverts including side slopes up to the 100-year WSEL.
3. All disturbed areas within City of Albuquerque right-of-way must be re-vegetated with native seeding.

If you have any questions, please contact me at 924-3999 or e-mail sbiazar@cabq.gov

Sincerely,

Shahab Biazar, P.E., CFM
City Engineer, Planning Dept.
Development and Review Services

C: file

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 11/2018)

Project Title: PALOMAS MEADOW SUBDIVISION Building Permit #: _____ Hydrology File #: D21

DRB#: _____ EPC#: _____ Work Order#: _____

Legal Description: Lots 12, 13, 14, 15, 18, 19, 20, and 21, North Albuquerque Acres, Tract 3, Unit 2

City Address: 9901 Palomas Ave. NE.,

Applicant: THE Group Contact: Ron Hensley

Address: 300 Branding Iron Rd. SE, Rio Rancho, NM 87124

Phone#: 505-410-1622 Fax#: _____ E-mail: ron@thegroup.cc

Owner: CLEARBROOK LLC Contact: Scott Henry

Address: 8801 Jefferson NE Bldg. A, ALBUQUERQUE, NM 87113

Phone#: 505-858-1800 Fax#: _____ E-mail: scotth@stillbrooke.com

TYPE OF SUBMITTAL: ☒ PLAT (33 # OF LOTS) ☐ RESIDENCE ☐ DRB SITE ☐ ADMIN SITE

IS THIS A RESUBMITTAL?: ☒ Yes ☐ No

DEPARTMENT: ☐ TRAFFIC/ TRANSPORTATION ☒ HYDROLOGY/ DRAINAGE

Check all that Apply:

TYPE OF SUBMITTAL:

- ☐ ENGINEER/ARCHITECT CERTIFICATION
- ☐ PAD CERTIFICATION
- ☐ CONCEPTUAL G & D PLAN
- ☒ GRADING PLAN
- ☐ DRAINAGE MASTER PLAN
- ☒ DRAINAGE REPORT
- ☐ FLOODPLAIN DEVELOPMENT PERMIT APPLIC
- ☐ ELEVATION CERTIFICATE
- ☐ CLOMR/LOMR
- ☐ TRAFFIC CIRCULATION LAYOUT (TCL)
- ☐ TRAFFIC IMPACT STUDY (TIS)
- ☐ OTHER (SPECIFY) _____
- ☐ PRE-DESIGN MEETING?

TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

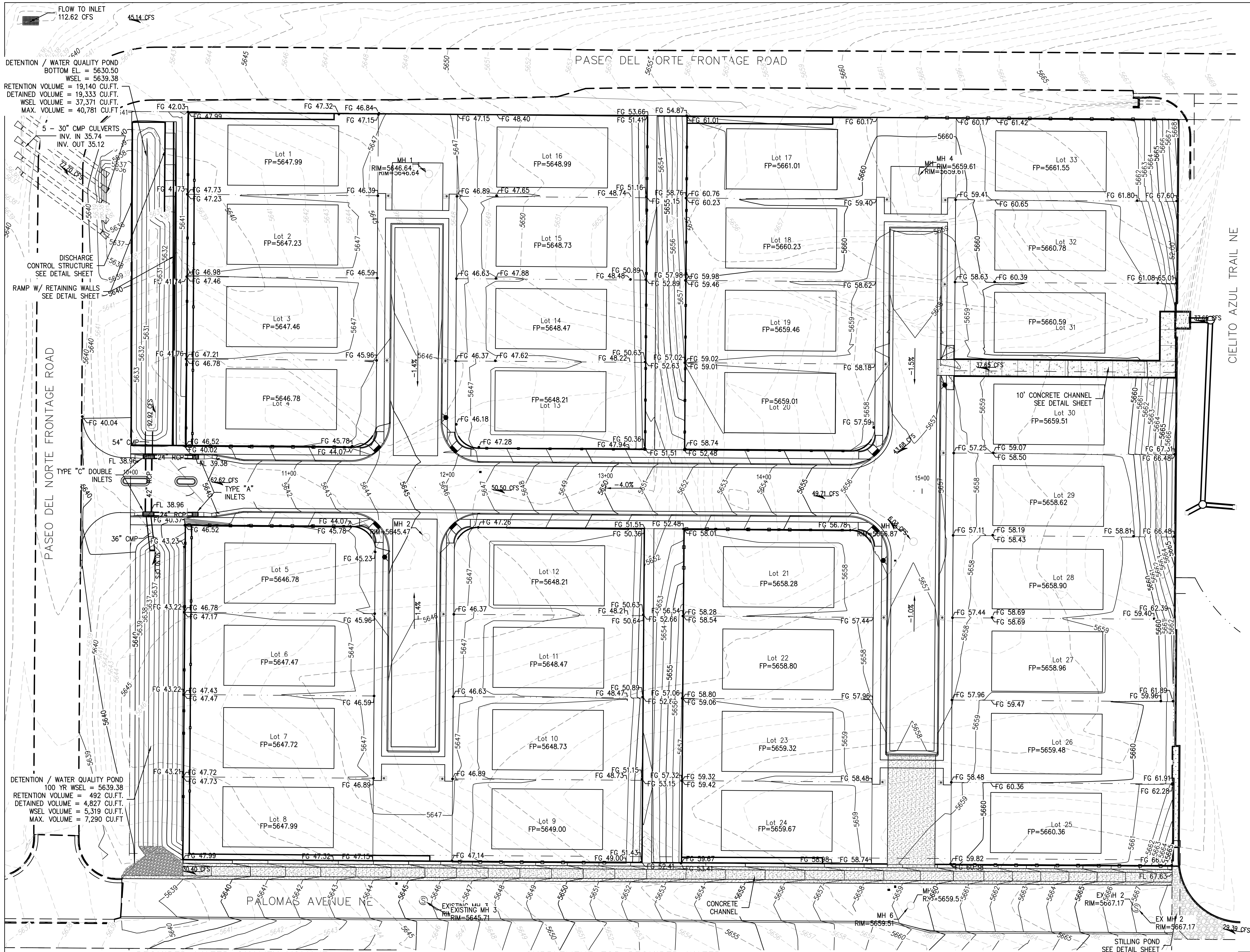
- ☐ BUILDING PERMIT APPROVAL
- ☐ CERTIFICATE OF OCCUPANCY
- ☐ PRELIMINARY PLAT APPROVAL
- ☐ SITE PLAN FOR SUB'D APPROVAL
- ☐ SITE PLAN FOR BLDG. PERMIT APPROVAL
- ☐ FINAL PLAT APPROVAL
- ☐ SIA/ RELEASE OF FINANCIAL GUARANTEE
- ☐ FOUNDATION PERMIT APPROVAL
- ☐ GRADING PERMIT APPROVAL
- ☐ SO-19 APPROVAL
- ☐ PAVING PERMIT APPROVAL
- ☐ GRADING/ PAD CERTIFICATION
- ☐ WORK ORDER APPROVAL
- ☐ CLOMR/LOMR
- ☐ FLOODPLAIN DEVELOPMENT PERMIT
- ☒ OTHER (SPECIFY) County Plat

DATE SUBMITTED: 2/16/2022 By: Ron E. Hensley

COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED: _____

FEE PAID: _____



REQUIRED WATER QUALITY VOLUME

CIELO VISTA
PER A=0 PER B=22 PER C=10 PER D=68
RUNOFF VOLUME=0.33063 INCHES=0.1553 ACRE-Feet
PEAK DISCHARGE RATE=4.45 CFS BASIN AREA=0.0088 SQ. MI.
PALOMAS MEADOW
PER A=0 PER B=10 PER C=35 PER D=55
RUNOFF VOLUME=0.26742 INCHES=0.1527 ACRE-Feet
PEAK DISCHARGE RATE=4.37 CFS BASIN AREA=0.0107 SQ. MI.

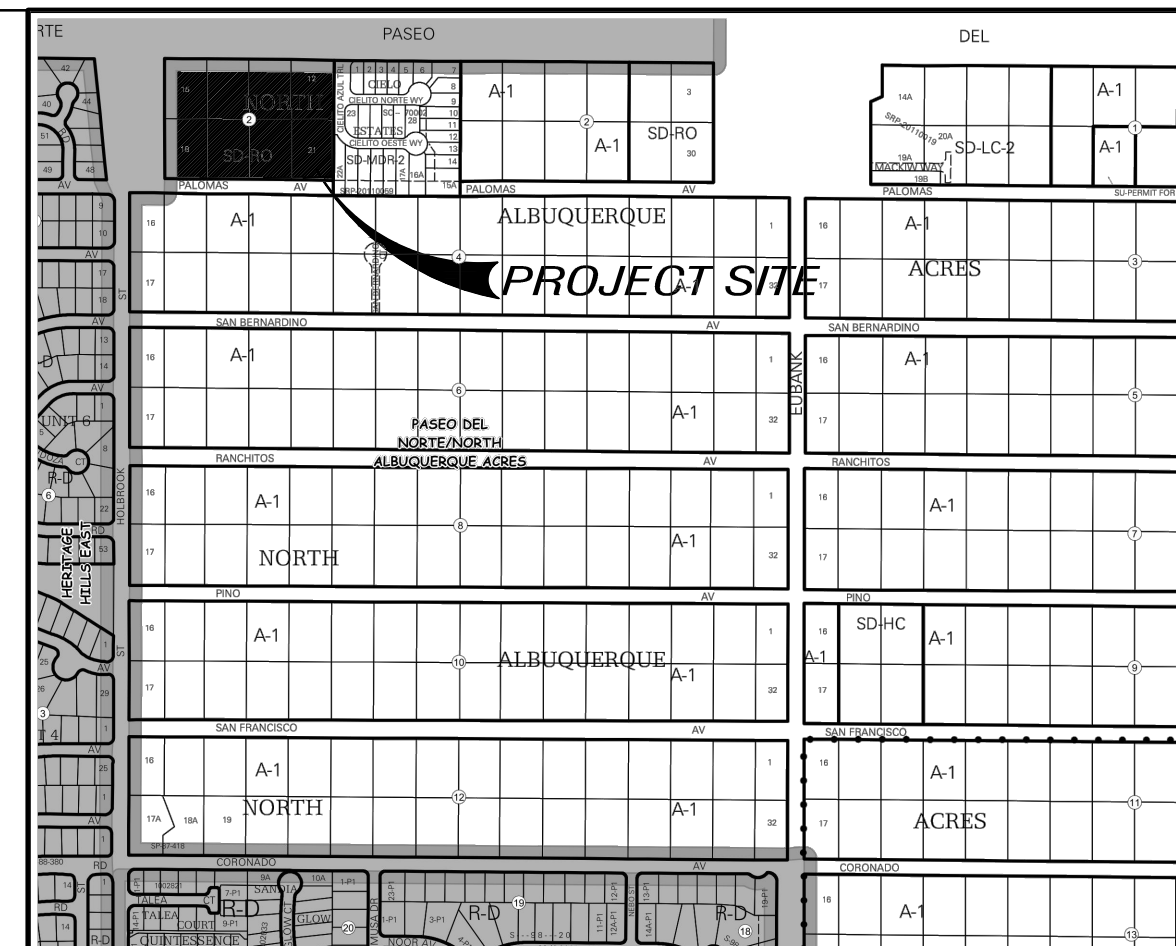
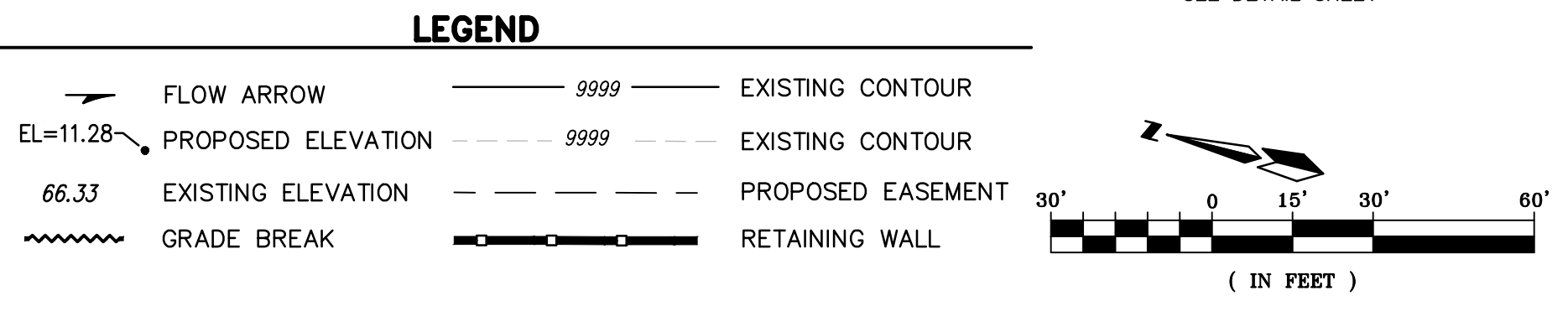
QUALITY VOLUME

THE SUBDIVISION SHALL BE RESPONSIBLE FOR MAINTAINING WATER QUALITY RETENTION AS SHOWN TO RETAIN 90TH PERCENTILE STORM OF 0.615" RAINFALL. THE CITY REQUIRED VOLUME SHALL BE EQUAL TO:
CIELO VISTA = 0.1553 AC.FT. = 6,957 CU.FT.
PALOMAS PARK = 0.1527 AC.FT. = 8,408 CU.FT.
REQUIRED VOLUME = 15,365 CU.FT.
VOLUME PROVIDED = 15,795 CU.FT.

DRAINAGE AS DEPICTED ON THIS PLAN SHALL BE MAINTAINED.

SUPPLEMENT FOR REQUIRED WATER QUALITY VOLUME

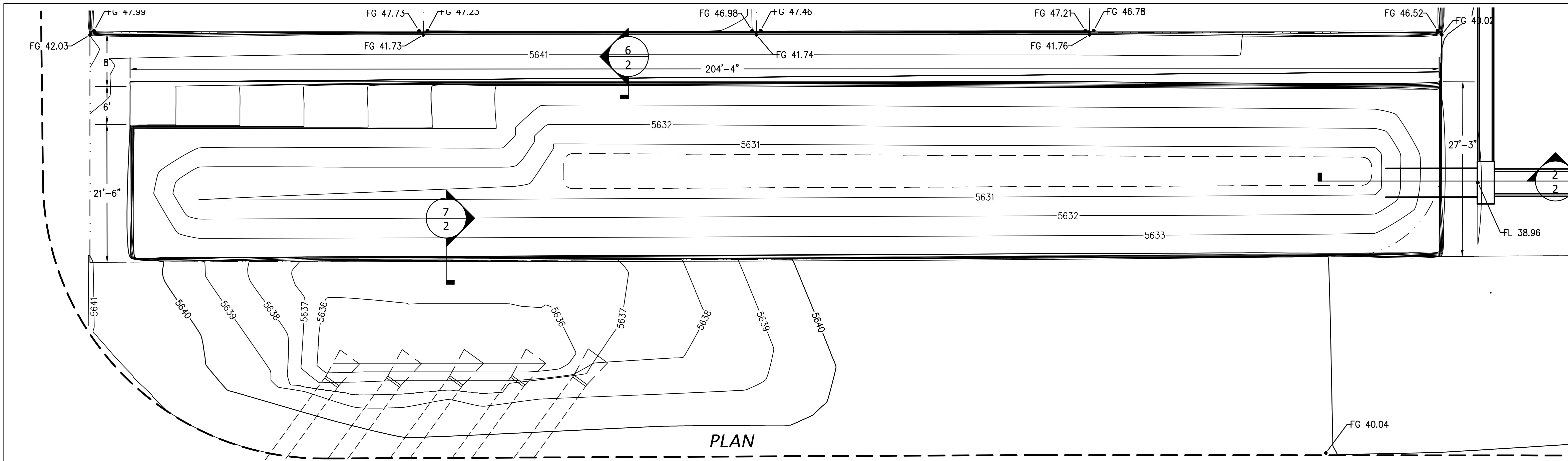
DRAINAGE AS DEPICTED ON THIS PLAN SHALL BE MAINTAINED. THE SUBDIVISION SHALL BE RESPONSIBLE FOR MAINTAINING WATER QUALITY RETENTION AS SHOWN TO RETAIN 90TH PERCENTILE STORM. THE CITY REQUIRED VOLUME SHALL BE EQUAL TO:
CIELO VISTA = 188,475 SQ.FT. * 0.42/12 = 6,957 CU.FT.
PALOMAS PARK = 164,064 SQ.FT. * 0.42/12 = 5,742 CU.FT.
REQUIRED VOLUME = 12,699 CU.FT.
VOLUME PROVIDED = 15,795 CU.FT.



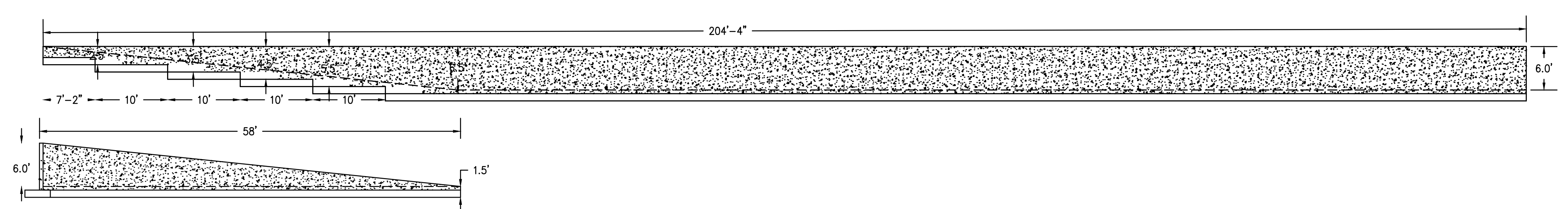
- VICINITY MAP D-21**
- GENERAL NOTES**
- THE ENGINEER HAS UNDERTAKEN LIMITED FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UNDERGROUND UTILITY LINES. MAKES NO REPRESENTATION PERTAINING THERETO AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREOF. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY, AND PRESERVE ANY AND ALL EXISTING UTILITIES. THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES IN PLANNING AND CONDUCTING EXCAVATION, WHETHER BY CALLING OR NOTIFYING THE UTILITIES, COMPLYING WITH "BLUE STAKES" PROCEDURES, OR OTHERWISE.
- THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR.
- THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, ARE INTENDED FOR USE ON THIS PROJECT AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF GND ENGINEERING, LLC. IN THE EVENT OF UNAUTHORIZED USE, THE USER ASSUMES ALL RESPONSIBILITY AND LIABILITY WHICH RESULTS.
- GRADING NOTES:**
- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER THIS CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREIN, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION, UPDATE NO. 8.
 - THE EROSION PROTECTION SPECIFIED ON THIS PLAN IS THE MINIMUM RECOMMENDED. THE OWNER IS ENCOURAGED TO INCORPORATE EROSION RESISTANT LANDSCAPING ON AREAS WHERE EROSION MAY OCCUR SUCH AS SLOPES AND SWALES. THE OWNER IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION CONTROL FEATURES NECESSARY TO PRESERVE THE DESIGN INTENT OF THE GRADING PLAN.
 - THE DRAINAGE INFRASTRUCTURE SHOWN ON THIS PLAN IS THE RESPONSIBILITY OF THE PROPERTY OWNER.
 - ALL DISTURBED AREAS OUTSIDE THE BUILDING PAD MUST BE RESEED OR LANDSCAPED
 - TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, (260-1990) FOR LOCATION OF EXISTING UTILITIES.
 - PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS AND EXISTING PAVEMENT. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM OF DELAY.
- EROSION CONTROL NOTES**
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
 - CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.
 - CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
 - REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
 - ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL (CITY) ACCEPTANCE OF ANY PROJECT.

THE group
THE HENSLEY ENGINEERING GROUP
300 BRANDING IRON RD. SE
RIO RANCHO, NEW MEXICO 87124
Phone (505) 410-1622

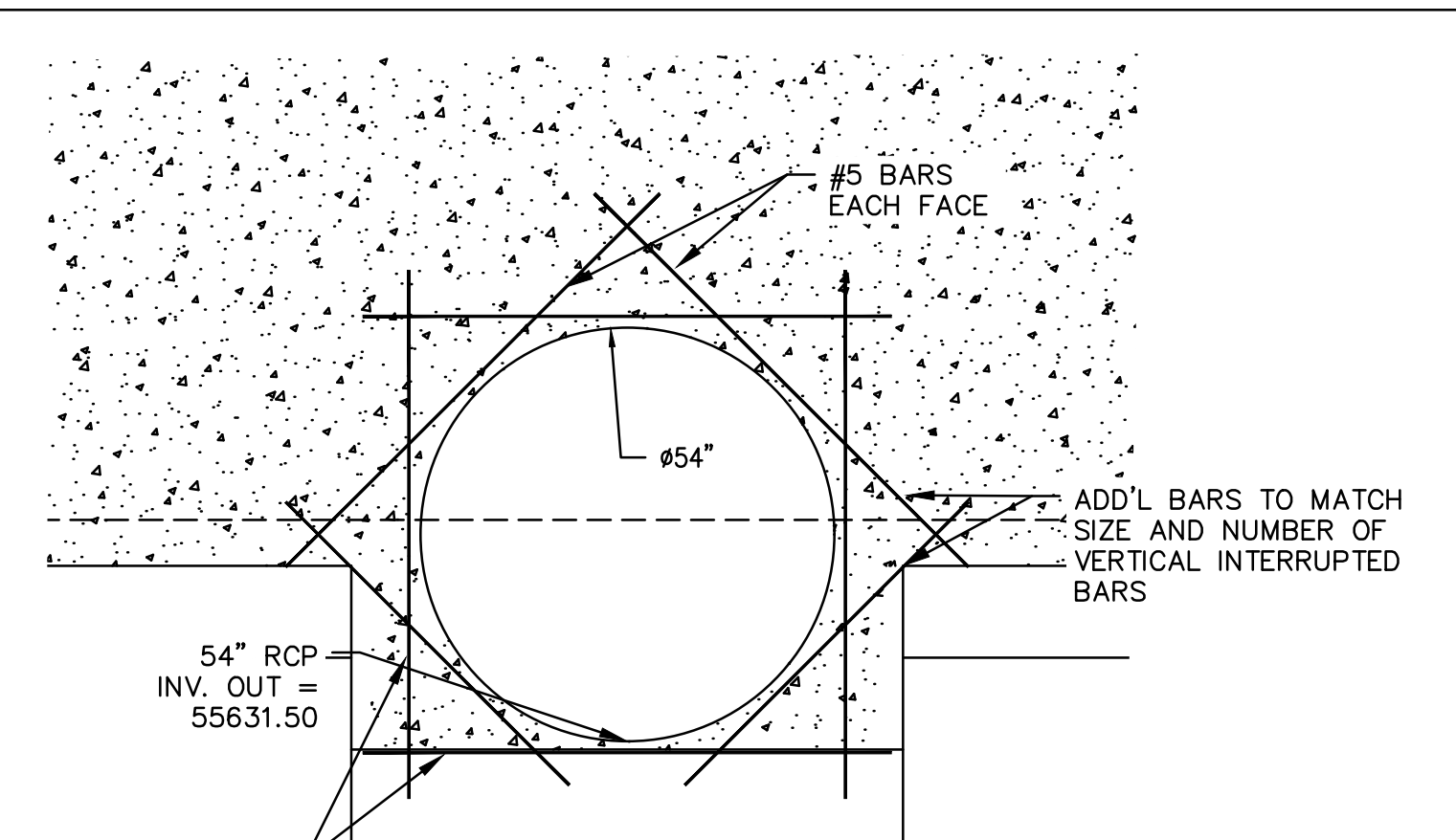
NO.	DESCRIPTION	DATE	BY
REVISIONS			
COUNTY OF BERNALILLO			
PALOMAS MEADOW SUBDIVISION			
INFRASTRUCTURE IMPROVEMENTS			
GRADING AND DRAINAGE GRADING PLAN			
PROJECT NO. 729191	DRAWN: REH CHECKED: REH	DATE: 8-13-2021 SCALE:	



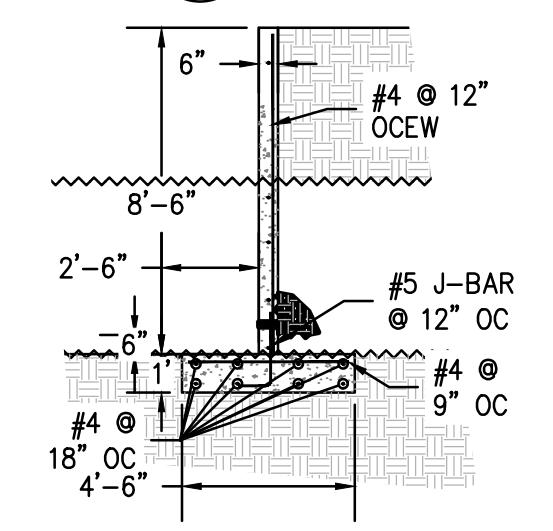
PLAN



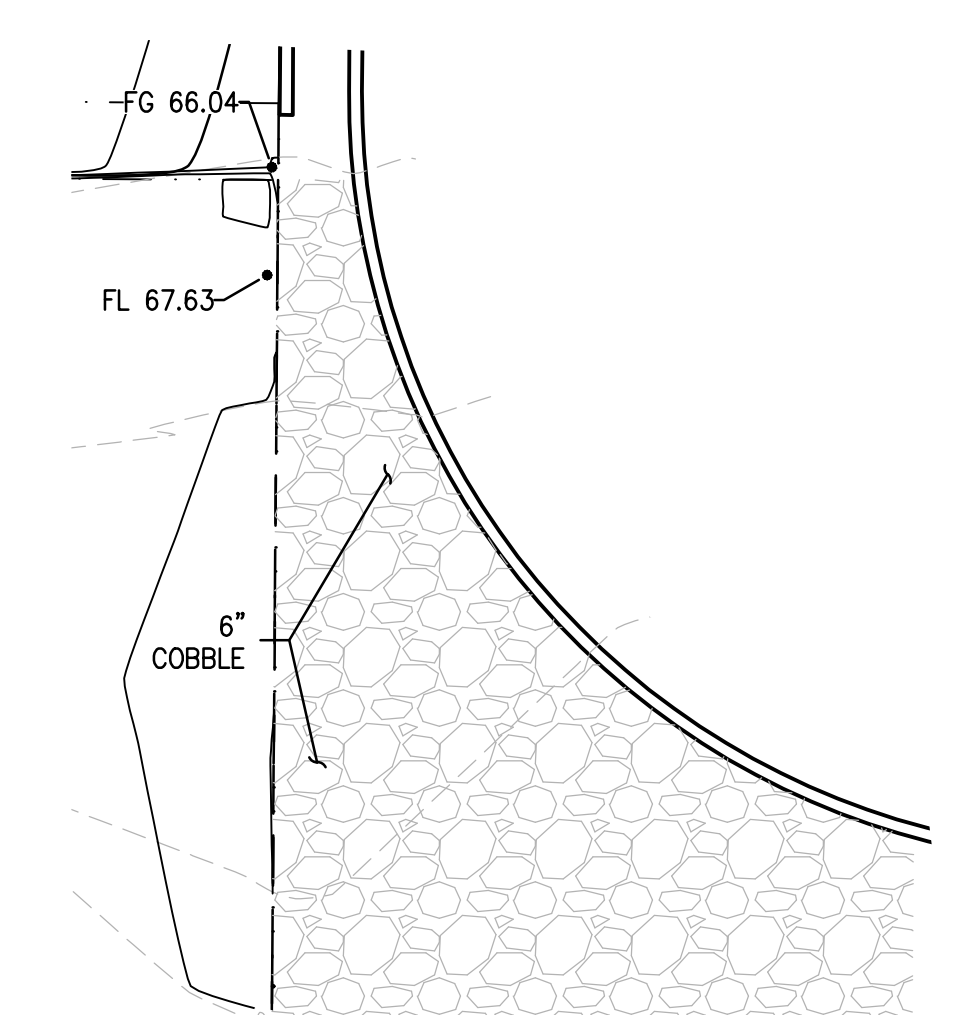
ELEVATIONS



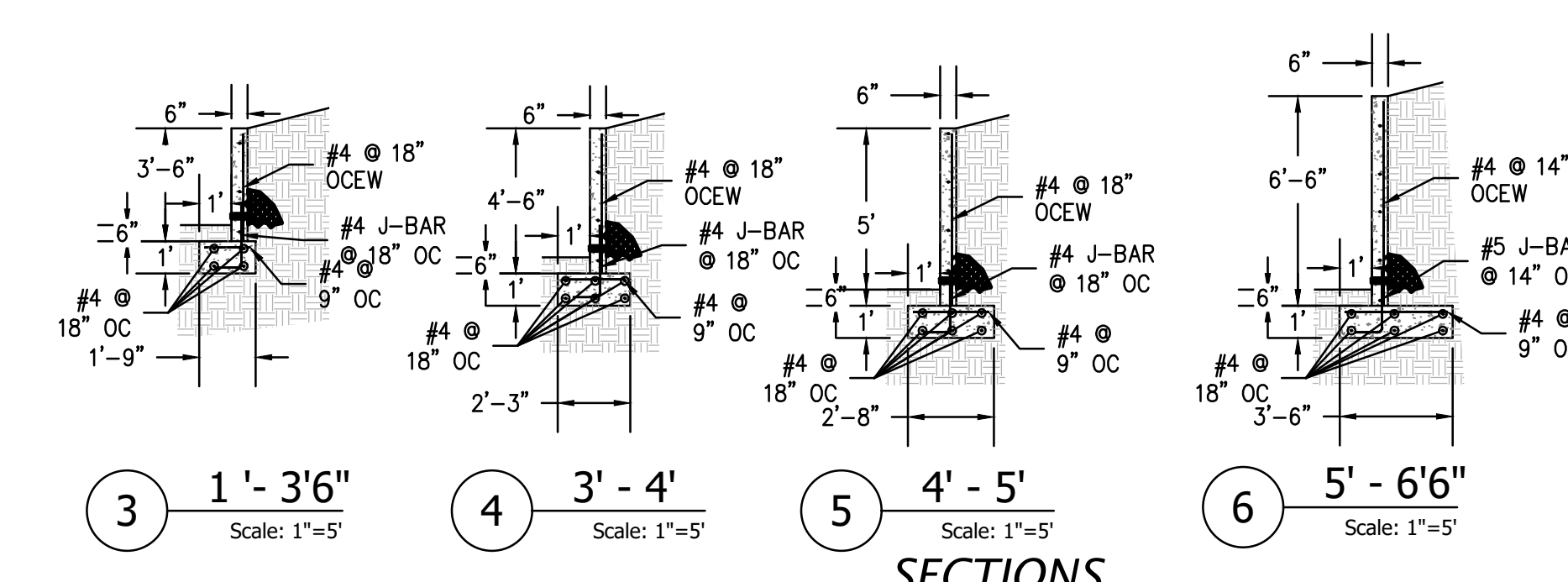
1 PIPE PENETRATION
Scale: 1"=2'



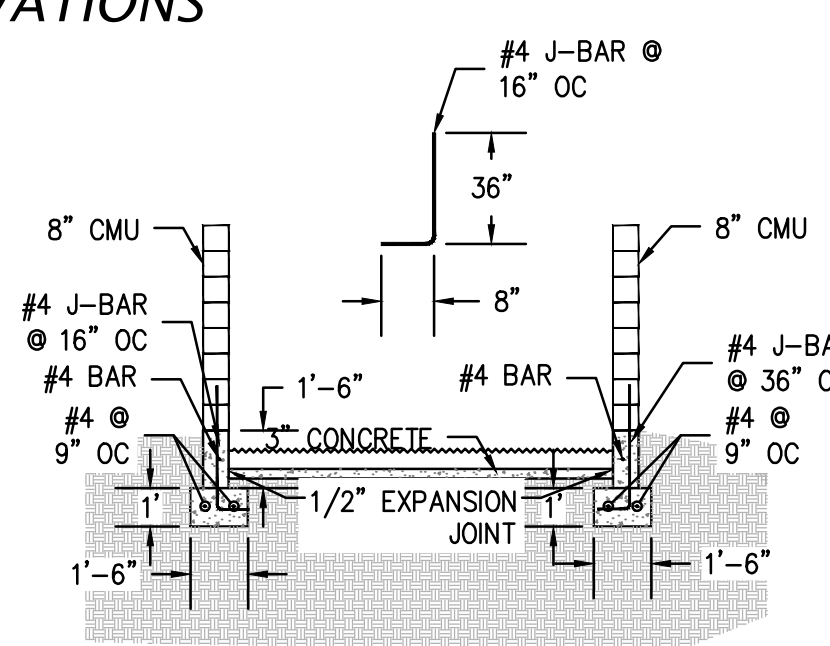
2 8'6" PIPE PENETRATION SECTION
Scale: 1"=5'



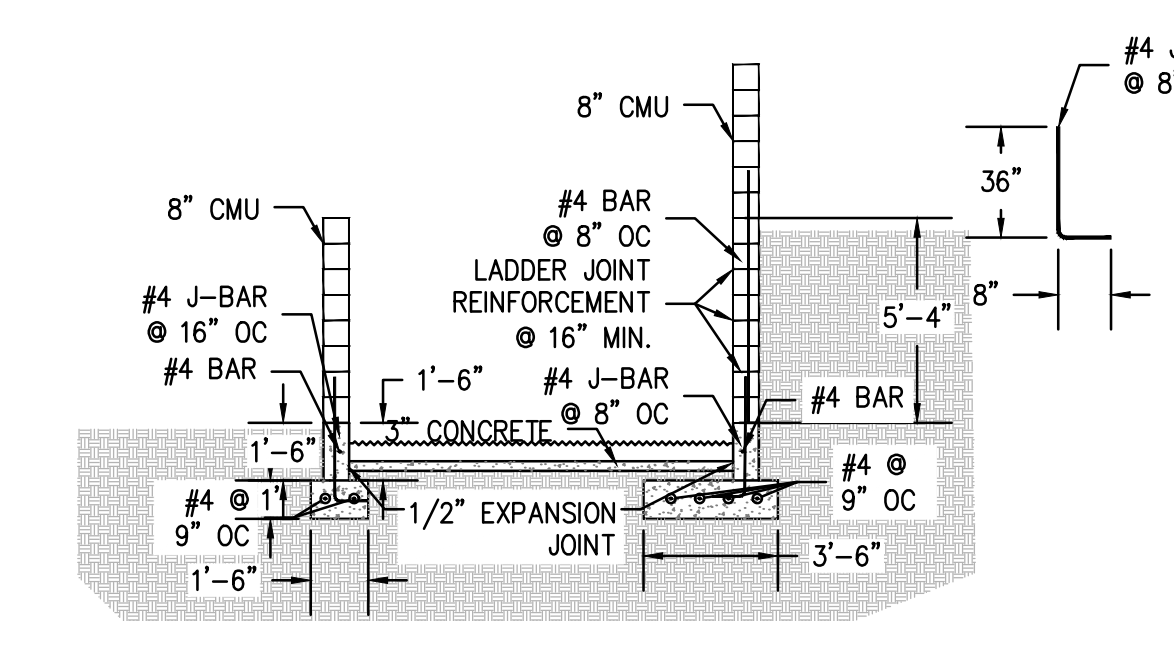
PALOMAS STILLING POND
SCALE 1' = 10'



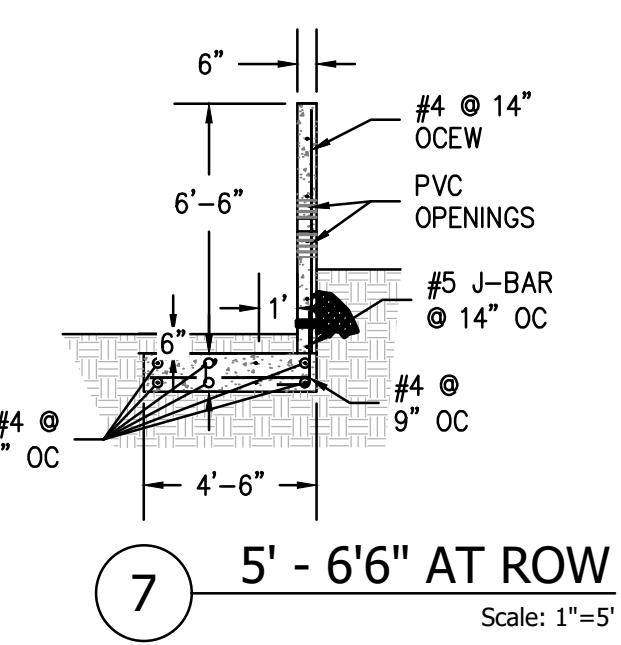
SECTIONS



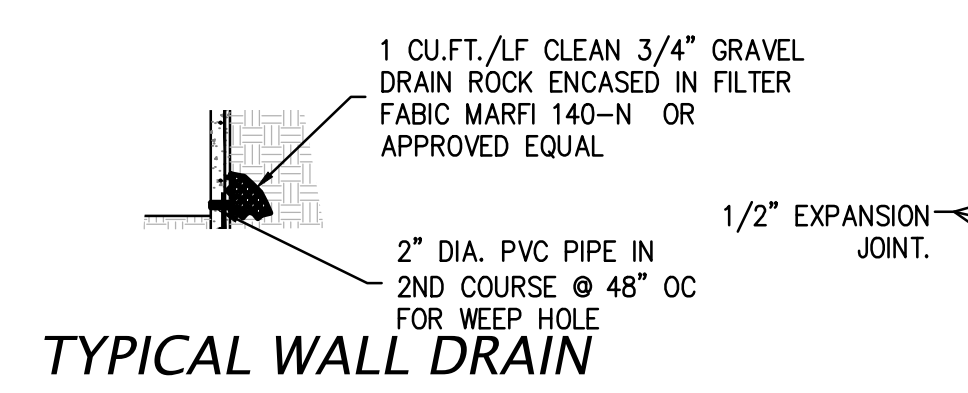
8 CHANNEL SECTION
Scale: 1"=5'



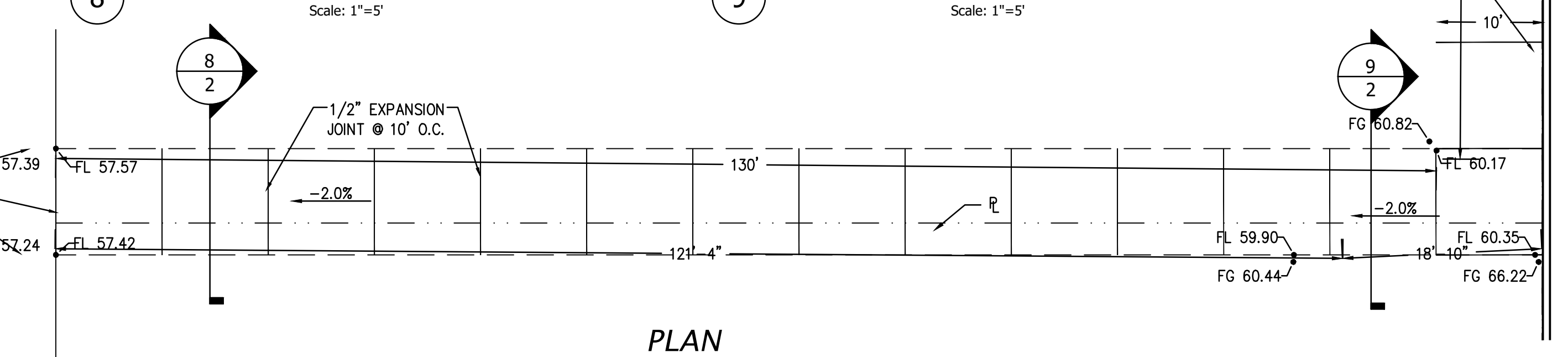
9 CHANNEL SECTION
Scale: 1"=5'



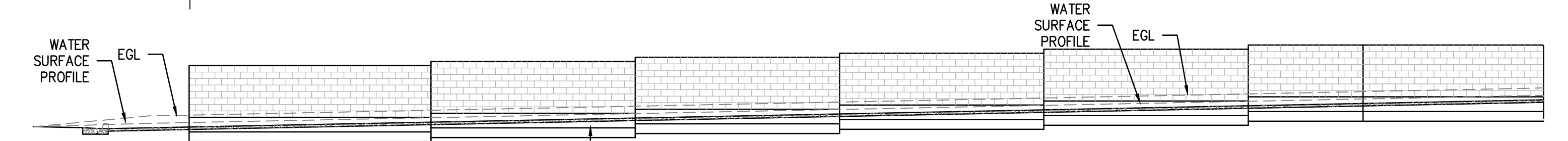
7 5' - 6'6" AT ROW
Scale: 1"=5'



TYPICAL WALL DRAIN



PLAN



ELEVATION
ONSITE DRAINAGE CHANNEL
SCALE 1' = 10'

POND RAMP AND RETAINING WALLS
SCALE 1' = 10'



NO.	DESCRIPTION	DATE	BY
REVISIONS			
COUNTY OF BERNALILLO			
PALOMAS MEADOW SUBDIVISION			
INFRASTRUCTURE IMPROVEMENTS			
GRADING AND DRAINAGE GRADING DETAILS			
PROJECT NO. 729191	DRAWN: REH	DATE: 8-13-2021	CHECKED: REH



DRAINAGE INFORMATION

LOCATION & DESCRIPTION

THE PROPOSED SITE IS 8 EXISTING LOTS ENCOMPASSING APPROXIMATELY 7.15 ACRES LOCATED ON THE NORTH SIDE OF PALOMAS AVE. EAST OF HOLBROOK AVE. ADJACENT TO THE CITY LIMITS AS SEEN ON THE VICINITY MAP. THE SITE IS UNDEVELOPED. THE ADJACENT PROPERTIES TO THE EAST ARE DEVELOPED AS THE CIELO ESTATES SUBDIVISION.

FLOODPLAIN STATUS

THIS PROJECT, AS SHOWN ON FEMA'S FLOOD INSURANCE RATE MAP 35001C0141G, DATED 9/26/2008 IS NOT WITHIN A DESIGNATED 100-YEAR FLOODPLAIN. AN EXHIBIT WITH THE SITE SHOWN ON THE FIRM PANEL IS INCLUDED ON THIS SHEET.

METHODOLOGY

THE HYDROLOGY FOR THIS PROJECT WAS ANALYZED USING AHYMO SOFTWARE.

PRECIPITATION

THE 100-YR 24-HR DURATION STORM WAS USED AS THE DESIGN STORM FOR THIS ANALYSIS. THE PRINCIPAL DESIGN STORM IS THE 100-YEAR EVENT DEFINED BY THE NOAA ATLAS 14 VOLUME 1 VERSION 5, AND SUBSEQUENT UPDATES. .

DRAINAGE CONDITIONS

THE SITE CURRENTLY COMBINES WITH THE UPSTREAM BASIN AND DISCHARGES RUNOFF TO THE EXISTING CULVERTS ADJACENT TO THE NORTHWEST CORNER OF THE SITE.

HYDROLOGIC DATA – PASEO CONSTRUCTION

BASINS	AREA (acres)	LAND TREATMENT PERCENTAGES BY TYPE				YIELD (cfs/ac)	Q ¹⁰⁰ (cfs)	V ¹⁰⁰⁻²⁴ (acft)
		A	B	C	D			
EX1	12.24	0	20	20	60	3.69	45.14	2.48
EX2	6.13	85	10	5	0	1.88	11.52	0.41
EX3	10.76	85	10	5	0	1.88	20.19	0.72
EX4	3.13	85	10	5	0	1.88	5.88	0.21
EX5	2.01	0	20	20	60	3.69	7.43	0.41
EX6	5.64	85	10	5	0	1.88	10.59	0.38
EX7	6.35	85	10	5	0	1.88	11.93	0.42
EX8	0.80*	85	10	5	0	1.88	1.50	0.05
TO INLET	47.07					2.44	112.68	5.02

* SUB BASIN CURRENTLY IS COMBINED WITH OF1 AND DRAINS TO PALOMAS WEST

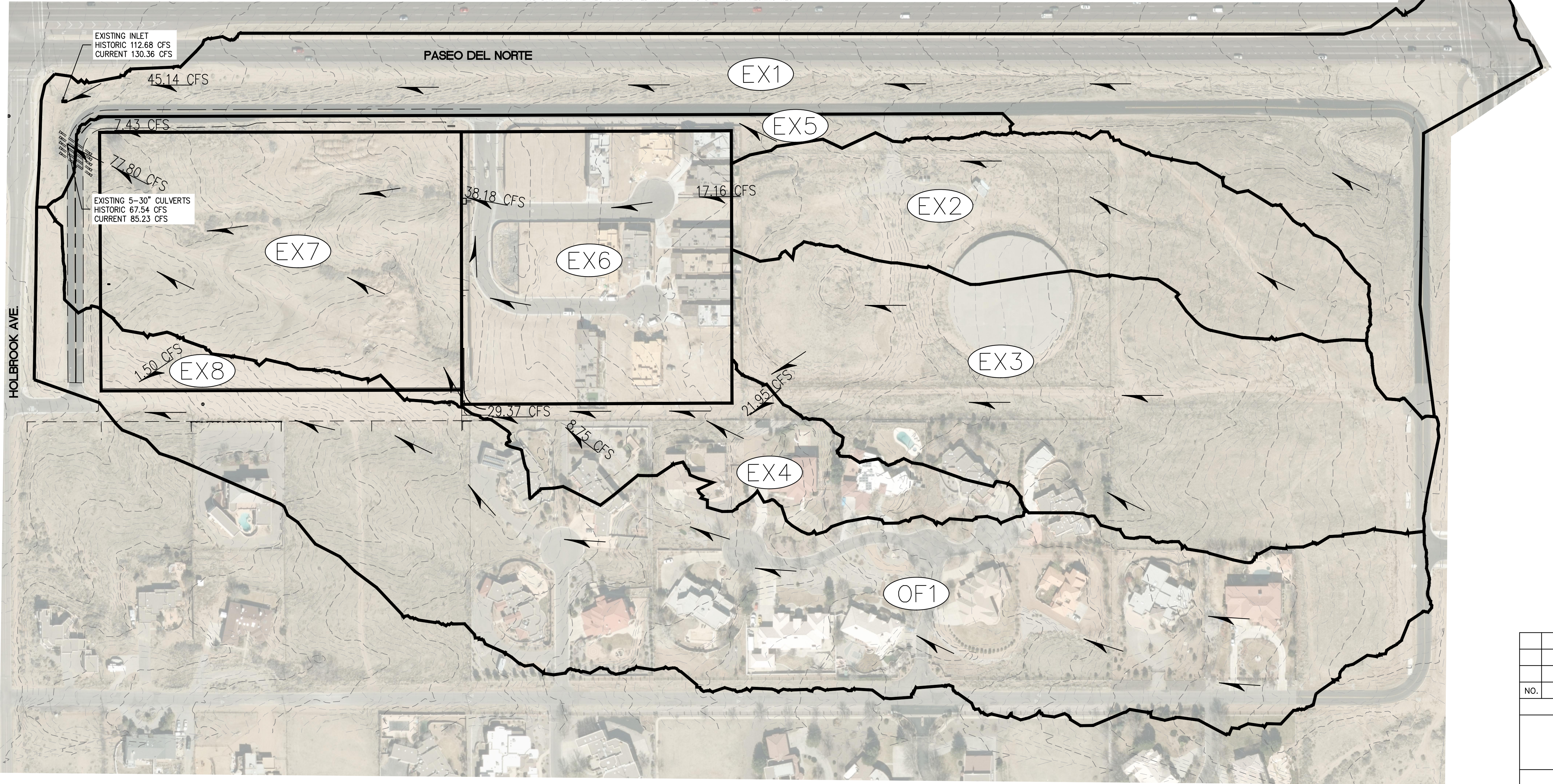
HYDROLOGIC DATA – CURRENT CONDITIONS

BASINS	AREA (acres)	LAND TREATMENT PERCENTAGES BY TYPE				YIELD (cfs/ac)	Q ¹⁰⁰ (cfs)	V ¹⁰⁰⁻²⁴ (acft)
		A	B	C	D			
EX1	12.24	0	20	20	60	3.69	45.14	2.48
EX2	6.13	22	23	38	17	2.80	17.13	0.72
EX3	10.76	22	23	38	17	2.80	30.01	1.25
EX4	3.13	22	23	38	17	2.80	8.75	0.37
EX5	2.01	0	20	20	60	3.69	7.43	0.41
EX6	5.64	0	22	10	68	3.79	21.35	1.22
EX7	6.35	85	10	5	0	1.88	11.93	0.42
EX8	0.80*	85	10	5	0	1.88	1.50	0.05
TO INLET	47.07					2.82	130.36	6.85

* SUB BASIN CURRENTLY IS COMBINED WITH OF1 AND DRAINS TO PALOMAS WEST



FIRM MAP NO. 35001C0141G

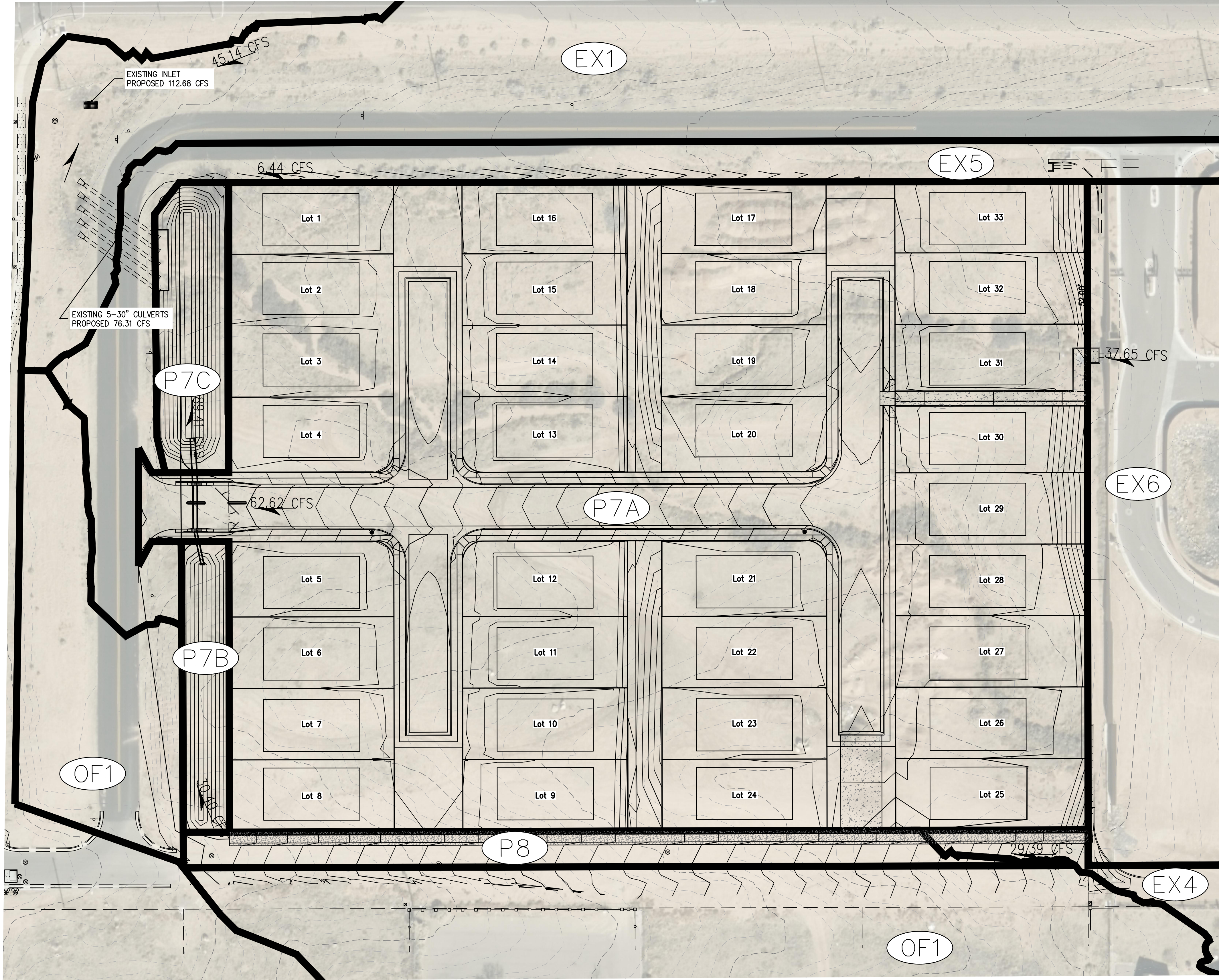


THE HENSLEY ENGINEERING GROUP
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Phone: (505) 410-1622

NO.	DESCRIPTION	DATE	BY
REVISIONS			
COUNTY OF BERNALILLO			
PALOMAS MEADOW SUBDIVISION			
SUBDIVISION IMPROVEMENTS			
GRADING AND DRAINAGE CURRENT BASIN MAP			
PROJECT NO.	DRAWN: REH	DATE: 11-01-2020	
	CHECKED: REH	SCALE:	



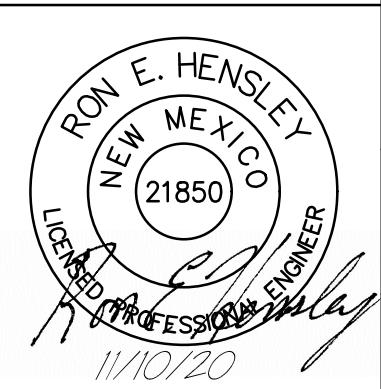
HYDROLOGIC DATA — PROPOSED									
BASINS	AREA (acres)	LAND TREATMENT PERCENTAGES BY TYPE				YIELD (cfs/oc)	Q ¹⁰⁰ (cfs)	V ¹⁰⁰⁻²⁴ (acft)	
		A	B	C	D				
EX1	12.24	0	20	20	60	3.69	45.14	2.48	
EX2	6.13	22	23	38	17	2.80	17.13	0.72	
EX3	10.76	22	23	38	17	2.80	30.01	1.25	
EX4	3.13	22	23	38	17	2.80	8.75	0.37	
EX5	1.74	0	20	20	60	3.70	6.44	0.35	
EX6	5.64	0	22	10	68	3.79	21.35	1.22	
P7A	6.85	0	10	35	55	3.63	25.29	1.30	
P7B	0.17	0	0	100	0	3.09	0.51	0.02	
P7C	0.25	0	0	100	0	3.06	0.76	0.03	
P8	0.34	0	0	70	30	3.49	1.18	0.05	
TO INLET	47.26					2.38	112.68	7.73	



FIRM MAP NO. 35001C0141G



NO.	DESCRIPTION	DATE	BY
REVISIONS			
COUNTY OF BERNALILLO			
PALOMAS MEADOW SUBDIVISION			
SUBDIVISION IMPROVEMENTS			
GRADING AND DRAINAGE PROPOSED BASIN MAP			
PROJECT NO.	DRAWN: REH	DATE: 11-10-2020	
	CHECKED: REH	SCALE:	



DRAINAGE REPORT
FOR
PALOMAS MEADOW SUBDIVISION
BERNALILLO COUNTY, NM
November 2020



Prepared By



The HENSLEY ENGINEERING GROUP

Ron E. Hensley P.E.
300 Branding Iron Road S.E.
Rio Rancho, NM 87124

Contents

I. PURPOSE	2
II. INTRODUCTION	2
Figure 1 - Holbrook Basin.....	2
III. HYDROLOGY	2
Table 1 – Holbrook Basin Post Paseo Runoff Summary.....	3
Table 2 – Holbrook Basin Current Runoff Summary.....	3
Table 3 - Holbrook Basin Proposed Runoff Summary	4
IV. HYDRAULICS.....	4
V. WATER QUALITY	6
VI. SUMMARY AND CONCLUSION	7
VII. Appendix	8
Storm Drain Calculations.....	8
Historic and Existing Runoff Calculations / AHYMO	9
Proposed Runoff Calculations / AHYMO	15

ATTACHMENTS

PALOMAS MEADOW GRADING PLAN

PALOMAS MEADOW BASIN MAPS

I. PURPOSE

This report is submitted in support for the Grading and Drainage Plan of Palomas Meadow Subdivision. The subdivision consists of 33 residential lots with common areas on 7.15 acres. The report provides a description and summary of the hydrology and hydraulic conditions of the existing drainage conditions and the drainage design of the subdivision improvements

II. INTRODUCTION

The proposed subdivision is in a basin that encompasses approximately 46 acres, shown below, that is located at the intersection of Paseo Del Norte and Holbrook Ave. The historic, current and proposed runoff conditions are summarized in Tables 1, 2 & 3. Excepting 0.80 acres of the site that drains to Palomas, runoff from the basin surface flows to the northwest to an inlet structure constructed in conjunction with the construction of Paseo Del Norte. The inlet and drain system were constructed to capture the developed flow from Paseo Del Norte and historic flow from the basin.

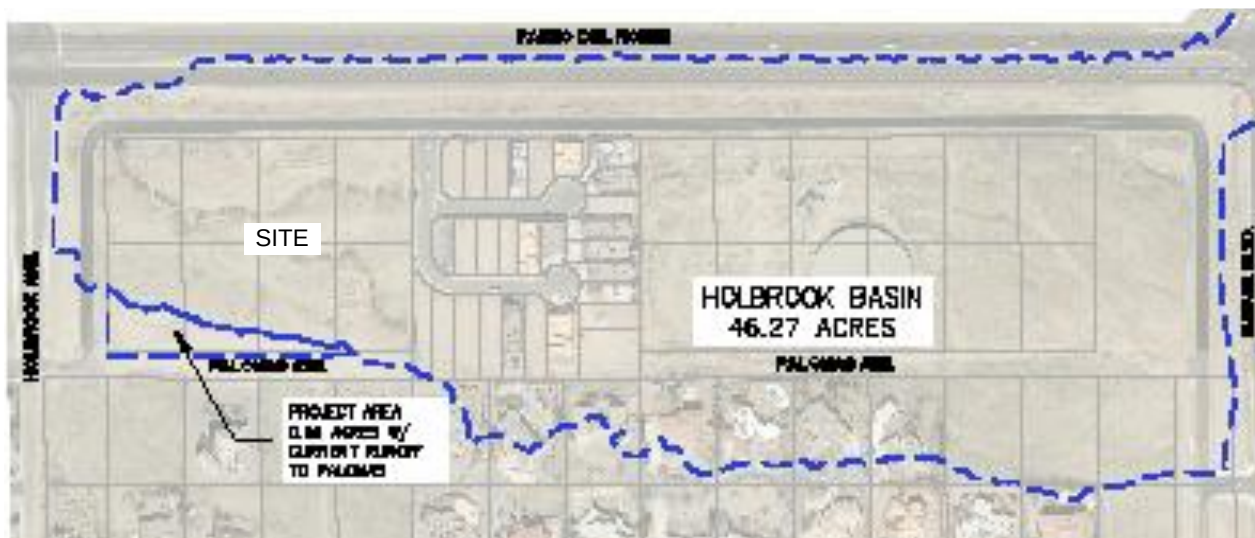


Figure 1 - Holbrook Basin

III. HYDROLOGY

This report provides the existing and proposed runoff conditions from the basin that includes the proposed subdivision. Development within the basin has split flow routes into the seven sub-basins depicted on the attached Current Basin Map. The tables on the following pages summarize the runoff from the conditions created with the construction of Paseo Del Norte and subsequent development of Cielo Estates Subdivision as depicted on the attached Grading and Drainage Plans and Basin Maps.

The construction of Paseo Del Norte established the overall basin boundary and the design flows reaching the storm drain system. Basin EX8 is within the bounds of the proposed subdivision, but the runoff from this area currently discharges to Palomas Ave. and proceeds west.

BASIN	AREA (ACRES)	LAND TREATMENT PERCENTAGES BY TYPE				YIELD (CFS/AC)	Q ¹⁰⁰ (CFS)	V ¹⁰⁰⁻²⁴ (AC.FT.)
EX1	12.24	0	20	20	60	3.69	45.14	2.48
Ex2	6.13	85	10	5	0	1.57	11.52	0.41
EX3	10.76	85	10	5	0	1.57	20.19	0.72
EX4	3.13	85	10	5	0	1.57	5.88	0.21
EX5	2.01	0	20	20	60	1.57	7.43	0.41
EX6	5.64	85	10	5	0	1.57	10.59	0.38
EX7	6.35	85	10	5	0	1.57	11.93	0.42
EX8	0.80	85	10	5	0	1.57	1.50	0.05
TOTAL	47.07					2.53	112.68	5.02

Table 1 – Holbrook Basin Post Paseo Runoff Summary

Construction of the Cielo Estates subdivision modified the drainage runoff and water courses with the development. Table 2 summarizes the changes in runoff due to this development.

BASIN	AREA (ACRES)	LAND TREATMENT PERCENTAGES BY TYPE				YIELD (CFS/AC)	Q ¹⁰⁰ (CFS)	V ¹⁰⁰⁻²⁴ (AC.FT.)
EX1	12.24	0	20	20	60	3.69	45.14	2.48
Ex2	6.13	22	23	38	17	2.80	17.13	0.72
EX3	10.76	22	23	38	17	2.80	30.01	1.25
EX4	3.13	22	23	38	17	2.80	5.88	0.21
EX5	2.01	0	20	20	60	3.69	7.43	0.41
EX6	5.64	0	22	10	68	3.79	21.35	1.22
EX7	6.35	85	10	5	0	1.88	11.93	0.42
EX8	0.80	85	10	5	0	1.88	1.50	0.05
TOTAL	47.07					2.82	130.36	6.85

Table 2 – Holbrook Basin Current Runoff Summary

As shown on the Current Basin Map, the development of Cielo Estates diverted two of the upstream sub-basins. Sub-basin EX2 is routed through Cielo Estates to the historic discharge point. However, the flow at this point includes fully developed flow for sub-basin EX6, Cielo Estates. Sub-basin EX3 is diverted to the vacated ROW of Palomas Ave. However, appropriate containment structures were not constructed.

The proposed development of the site is 33 residential lots with HOA Tracts. The impervious land use percentage is calculated at 55 percent. The remainder of the basin is analyzed estimating the existing conditions within the basin and area calculations of the Cielo Estates drainage plans. Table 3 summarizes the runoff from the proposed conditions as depicted on the attached Palomas Meadow Drainage Plan.

BASIN	AREA (ACRES)	LAND TREATMENT PERCENTAGES BY TYPE				YIELD (CFS/AC)	Q ¹⁰⁰ (CFS)	V ¹⁰⁰⁻²⁴ (AC.FT.)
EX1	12.24	0	20	20	60	3.69	45.14	2.48
EX2	6.13	22	23	38	17	2.80	17.13	0.72
EX3	10.76	22	23	38	17	2.80	30.01	1.25
EX4	3.13	22	23	38	17	2.80	8.75	0.37
EX5	2.01	0	20	20	60	3.70	6.44	0.35
EX6	5.64	0	22	10	68	3.79	21.35	1.22
P7A	6.85	0	10	35	55	3.63	25.29	1.30
P7B	0.17	0	0	100	0	3.09	0.51	0.02
P7C	0.25	0	0	100	0	3.06	0.76	0.03
P8	0.34	0	0	70	30	3.49	1.18	0.05
TOTAL	47.26					2.38	112.68	7.73

Table 3 - Holbrook Basin Proposed Runoff Summary

IV. HYDRAULICS

The hydraulics of the project are routed through open channel, storm drain and interior street flows. Offsite runoff entering the subdivision will be captured in drainage channels routing flows from two points at the eastern boundary of the subdivision and routed to the detention ponds.

The sub-basins EX3 and EX4 discharge to a point in the southeast corner on Palomas Ave. from the vacated ROW of Palomas Ave. This runoff will be directed through a settling pond to a channel along Palomas Ave. Figure 5 depicts and quantifies the combined flows from the upstream basins and sub-basin P8, the north Palomas ROW.

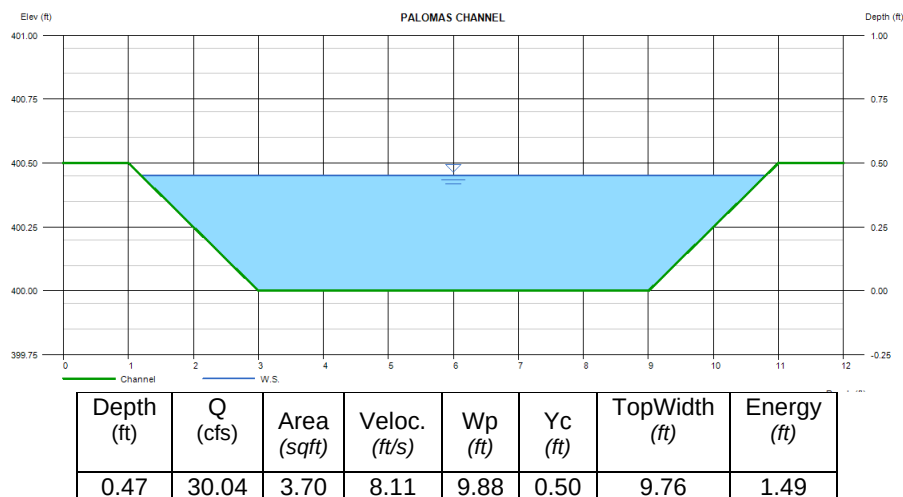


Figure 2 Palomas Channel Section

DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

Sub-basins EX2 and EX6 enter the subdivision at the eastern boundary. The flow is captured to a 10-foot drainage channel as shown on the Grading Plan and depicted in Figure 2.

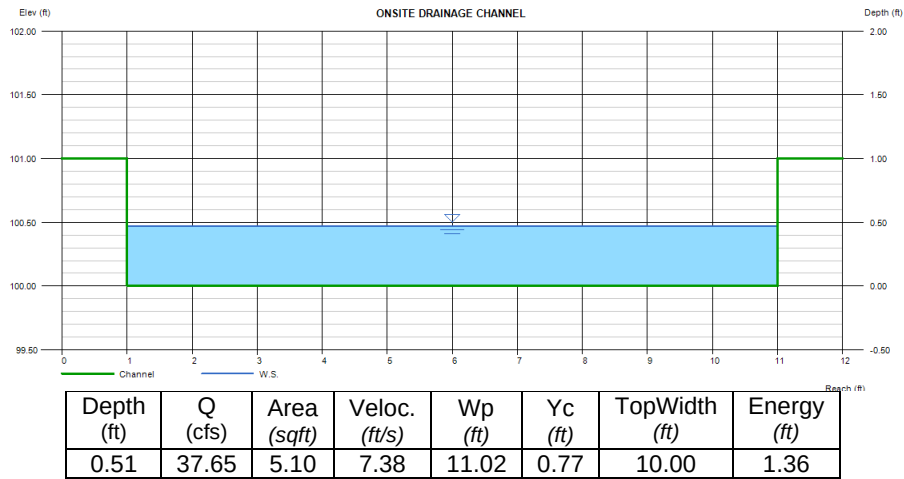


Figure 3 Onsite Drainage Channel

The flow from the channel is combined with street flows in Desert Lark. To be contained within the street cross section as shown in figure 4.

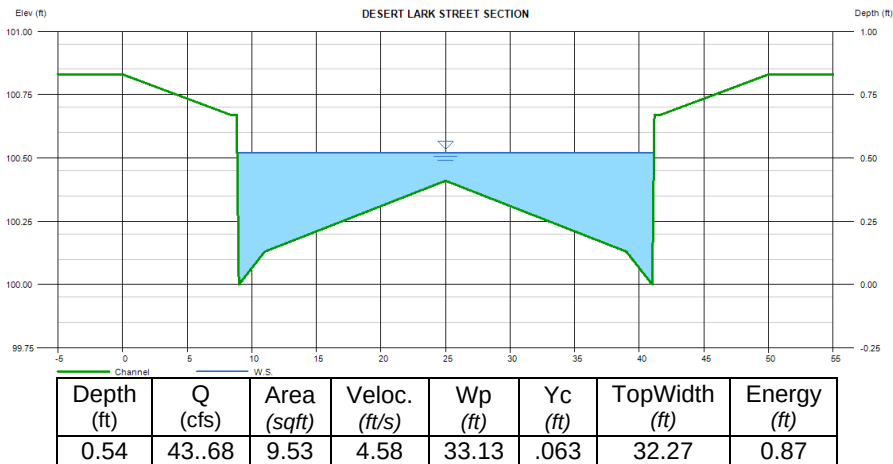


Figure 4 Desert Lark Section

The street flow from Desert Lark is then diverted west in Isabelline Lane. Additional runoff from the subdivision is routed to Isabelline Lane proceeding west. All the runoff from offsite and site in Isabelline Lane is then captured at the inlets in a sump condition adjacent to the site entrance. Street flows do not exceed curb height and are contained within the street right-of-way.

DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

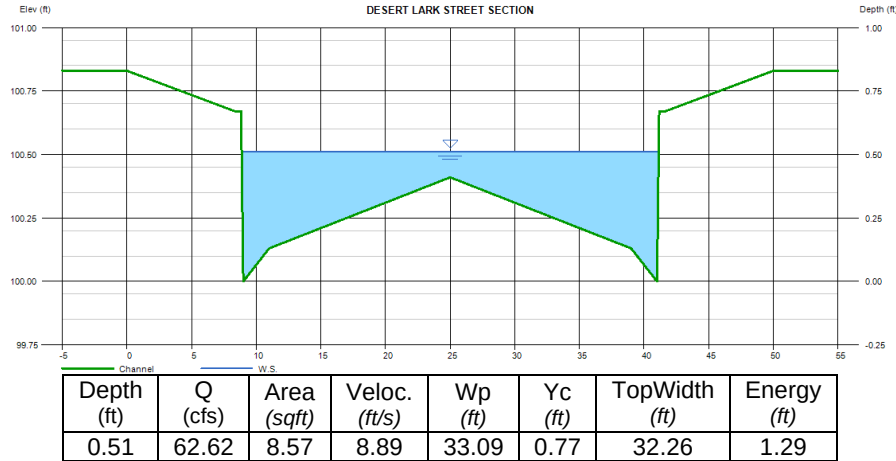


Figure 5 Isabelline Section

All flows from the basin are then captured by the proposed detention ponds for controlled discharge to the existing culverts through the orifice openings in the structure depicted on the Grading Plan. As shown below, the rating curve of the outflow is based on the flow through 22 at 8 inch and 5 at 6 inch orifice openings in structure wall shown on the Grading Plan. Figure 5 is graph of the standard orifice equation of $Q=C_dA(2gh)^{0.5}$ for the 27 openings.

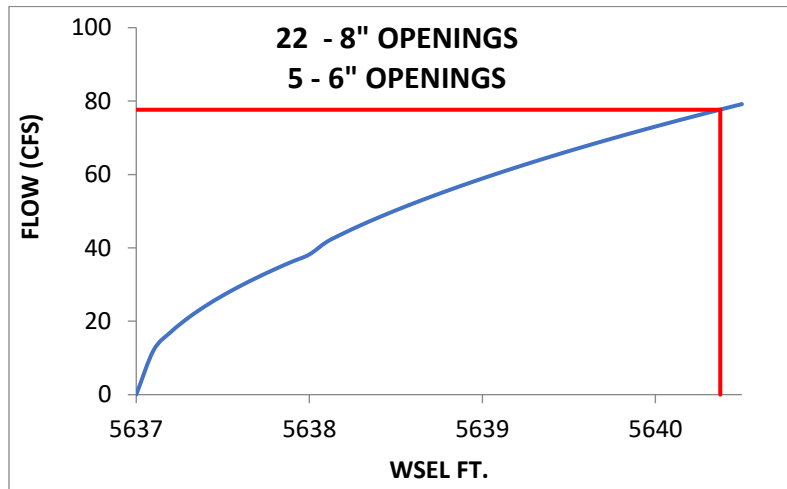


Figure 6 – Pond Discharge Rating Curve

The detention pond is proposed to have adequate capacity to control the developed flows from the site and Cielo Vista Subdivision.

V. WATER QUALITY

The proposed ponds will accommodate the retention volume required from the 90th percentile storm from the proposed development in addition to the volume required for the adjacent development of Cielo Vista Estates as calculated to manage the runoff from a 0.62 inch storm.

The methodology used in the U.S. Environmental Protection Agency (EPA) Report, Estimating Predevelopment Hydrology in the Middle Rio Grande Watershed, New Mexico, TetraTech, April 2014, EPA Publication Number 832-R-14-007, yields runoff values of 0.42 inches from the impervious area for the 90th percentile storm. As shown on the Grading Plan, this volume per the calculations is 6,957 cu.ft. for the Cielo Vista Subdivision and 5,847 cu.ft. for the proposed subdivision for a total required volume of 12,444 cu.ft. The proposed volume is 12,568 cu.ft.

Sediment control from flow via upstream natural channels has been addressed with the existing and proposed stilling ponds at the points of outflow from the natural channels. The upstream basin including the ABCWUA site was constructed to discharge via a 5' weir to a channel within Cielo Vista Estates as seen in Figure 7 below. This structure stills the velocity of the flows with a detention volume of approximately 1,600 cu.ft. with a depth of 8". Upstream of the weir is a sediment deposition area with minimal slope.

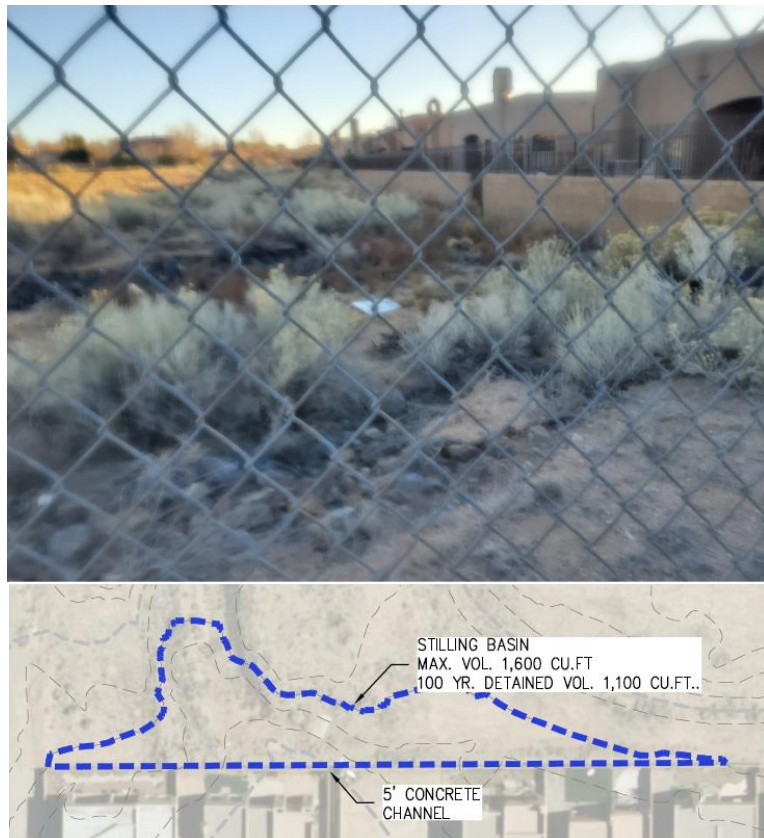


Figure 7 ABCWUA Stilling Pond

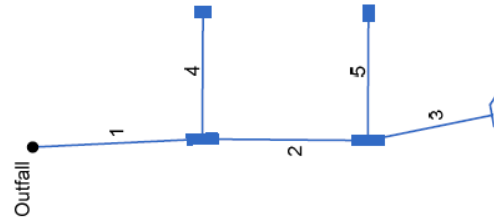
VI. SUMMARY AND CONCLUSION

Runoff from the proposed Palomas Meadow Subdivision is contained within the proposed improvements, and adequate downstream capacity exists for the flow rates that will be generated from the area runoff.

DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

VII. Appendix

Storm Drain Calculations



Line No.	Line ID	Flow rate (cfs)	Line Size (in)	Line shape	Line length (ft)	Invert EL Dn (ft)	Invert EL Up (ft)	Line Slope (%)	HGL Down (ft)	HGL Up (ft)	Minor loss (ft)	HGL Junct (ft)	Dns Line No.	Junction Type
1	54 INCH CMP	92.92	54	Cir	32.000	5633.00	5633.16	0.500	5638.00*	5638.22*	0.80	5639.02	End	Combination
2	42 INCH RCP	61.61	42	Cir	31.430	5633.26	5633.42	0.510	5639.02*	5639.22*	0.96	5640.18	1	Combination
3	36 INCH CMP	30.30	36	Cir	23.980	5633.52	5637.50	16.597	5640.18	5640.30	0.30	5640.61	2	OpenHeadwall
4	24 INCH RCP	31.31	24	Cir	24.000	5633.26	5635.48	9.251	5639.02*	5639.81*	1.54	5641.35	1	Combination
5	24 INCH RCP	31.31	24	Cir	24.000	5633.52	5635.48	8.167	5640.18*	5640.97*	1.54	5642.51	2	Combination

INLET REPORT

Line No	Inlet ID	Q = CIA (cfs)	Q carry (cfs)	Q capt (cfs)	Q Byp (cfs)	Junc Type	Curb Inlet		Grate Inlet			Gutter							Inlet			Byp Line No
							Ht (in)	L (ft)	Area (sqft)	L (ft)	W (ft)	So (ft/ft)	W (ft)	Sw (ft/ft)	Sx (ft/ft)	n	Depth (ft)	Spread (ft)	Depth (ft)	Spread (ft)	Depr (in)	
1	LEFT TYPE C	0.00	21.70	21.70	0.00	Comb	8.0	6.00	9.06	5.28	1.72	Sag	2.00	0.063	0.020	0.013	0.72	31.72	0.89	31.72	2.0	Off
2	RIGHT TYPE C	0.00	21.56	21.56	0.00	Comb	8.0	6.00	9.06	5.28	1.72	Sag	2.00	0.063	0.020	0.013	0.72	31.57	0.88	31.57	2.0	Off
3	HEADWALL	30.30*	0.00	30.30	0.00	Hdwl	0.0	0.00	0.00	0.00	0.00	Sag	0.00	0.000	0.000	0.013	0.00	0.00	0.00	0.00	0.0	Off
4	LEFT TYPE A	31.31*	0.00	9.61	21.70	Comb	8.0	3.00	0.00	3.00	2.00	0.040	2.00	0.063	0.020	0.017	0.49	20.33	0.61	17.62	2.0	1
5	RIGHT TYPE A	31.31*	0.00	9.75	21.56	Comb	8.0	3.00	0.00	2.00	2.00	0.040	2.00	0.063	0.020	0.017	0.49	20.33	0.60	17.58	2.0	2

HGL CALCULATIONS

Line	Size (in)	Q (cfs)	Downstream								Len (ft)	Upstream								Check		JL coeff (K)	Minor loss (ft)
			Invert elev (ft)	HGL elev (ft)	Depth (ft)	Area (sqft)	Vel (ft/s)	Vel head (ft)	EGL elev (ft)	Sf (%)		Invert elev (ft)	HGL elev (ft)	Depth (ft)	Area (sqft)	Vel (ft/s)	Vel head (ft)	EGL elev (ft)	Sf (%)	Ave Sf (%)	Enrgy loss (ft)		
1	54	92.92	5633.00	5638.00	4.50	15.90	5.84	0.53	5638.53	0.699	32.000	5633.16	5638.22	4.50	15.90	5.84	0.53	5638.75	0.699	0.699	0.224	1.50	0.80
2	42	61.61	5633.26	5639.02	3.50	9.62	6.40	0.64	5639.66	0.642	31.430	5633.42	5639.22	3.50	9.62	6.40	0.64	5639.86	0.641	0.641	0.202	1.50	0.96
3	36	30.30	5633.52	5640.18	3.00	7.07	4.29	0.29	5640.46	0.646	23.980	5637.50	5640.30	2.80	6.87	4.41	0.30	5640.61	0.558	0.602	0.144	1.00	0.30
4	24	31.31	5633.26	5639.02	2.00	3.14	9.97	1.54	5640.56	3.278	24.000	5635.48	5639.81	2.00	3.14	9.97	1.54	5641.35	3.277	3.278	0.787	1.00	1.54
5	24	31.31	5633.52	5640.18	2.00	3.14	9.97	1.54	5641.72	3.278	24.000	5635.48	5640.97	2.00	3.14	9.97	1.54	5642.51	3.277	3.278	0.787	1.00	1.54

DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

Historic and Existing Runoff Calculations / AHYMO

* Project Palomas Meadow

* HISTORIC CONDITIONS

* 100 YEAR 24 HOUR RAINFALL TABLE

RAINFALL TYPE=2 RAIN QUARTER=0
RAIN ONE=1.96 IN RAIN SIX=2.64 IN
RAIN DAY=3.60 IN DT=0.03333 HRS

*S COMPUTE HYD BASIN HISTORIC

COMPUTE NM HYD ID=1 HYDNO=1 AREA=0.07229 SQ MI
PER A=85 PER B=10 PER C=5 PER D=0
TP=.1667 HR MASS RAIN=-1

PRINT HYD ID=1 CODE=5

*

*S PASEO CONSTRUCTION

*

*S COMPUTE HYD BASIN X1

COMPUTE NM HYD ID=1 HYDNO=101 AREA=0.01912 SQ MI
PER A=0 PER B=20 PER C=20 PER D=60
TP=.1667 HR MASS RAIN=-1

PRINT HYD ID=1 CODE=5

*S COMPUTE HYD BASIN X2

COMPUTE NM HYD ID=2 HYDNO=102 AREA=0.00959 SQ MI
PER A=85 PER B=10 PER C=5 PER D=0
TP=.1667 HR MASS RAIN=-1

PRINT HYD ID=2 CODE=5

*S COMPUTE HYD BASIN X3

COMPUTE NM HYD ID=3 HYDNO=103 AREA=0.01681 SQ MI
PER A=85 PER B=10 PER C=5 PER D=0
TP=.1667 HR MASS RAIN=-1

PRINT HYD ID=3 CODE=5

*S COMPUTE HYD BASIN X4

COMPUTE NM HYD ID=4 HYDNO=104 AREA=0.00489 SQ MI
PER A=85 PER B=10 PER C=5 PER D=0
TP=.1667 HR MASS RAIN=-1

PRINT HYD ID=4 CODE=5

*S COMPUTE HYD BASIN X5

COMPUTE NM HYD ID=5 HYDNO=105 AREA=0.00314 SQ MI
PER A=0 PER B=20 PER C=20 PER D=60
TP=.1667 HR MASS RAIN=-1

PRINT HYD ID=5 CODE=5

*S COMPUTE HYD BASIN X6

COMPUTE NM HYD ID=6 HYDNO=106 AREA=0.00881 SQ MI
PER A=85 PER B=10 PER C=5 PER D=0
TP=.1667 HR MASS RAIN=-1

PRINT HYD ID=6 CODE=5

*S COMPUTE HYD BASIN X7

COMPUTE NM HYD ID=7 HYDNO=107 AREA=0.00993 SQ MI
PER A=85 PER B=10 PER C=5 PER D=0
TP=.1667 HR MASS RAIN=-1

DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

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PRINT HYD          ID=7   CODE=5
*
ADD HYD            ID=10  HYDNO=201
                   ID=2   ID=6
PRINT HYD          ID=10  CODE=5
*
ADD HYD            ID=11  HYDNO=202
                   ID=3   ID=4
PRINT HYD          ID=11  CODE=5
*
ADD HYD            ID=12  HYDNO=203
                   ID=11  ID=7
PRINT HYD          ID=12  CODE=5
*
ADD HYD            ID=13  HYDNO=204
                   ID=12  ID=10
PRINT HYD          ID=13  CODE=5
*
ADD HYD            ID=14  HYDNO=205
                   ID=13  ID=5
PRINT HYD          ID=14  CODE=5
*
ADD HYD            ID=15  HYDNO=206
                   ID=14  ID=1
PRINT HYD          ID=15  CODE=5
*
*S   CIELO ESTATES CONSTRUCTION
*
*S   COMPUTE HYD BASIN X1
COMPUTE NM HYD     ID=1   HYDNO=101  AREA=0.01912 SQ MI
                   PER A=0 PER B=20 PER C=20 PER D=60
                   TP=.1667 HR MASS RAIN=-1
PRINT HYD          ID=1   CODE=5

*S   COMPUTE HYD BASIN X2
COMPUTE NM HYD     ID=2   HYDNO=102  AREA=0.00959 SQ MI
                   PER A=22 PER B=23 PER C=38 PER D=17
                   TP=.1667 HR MASS RAIN=-1
PRINT HYD          ID=2   CODE=5
*
*****
ROUTE RESERVOIR    ID=30  HYD=302  INFLOW ID=2  CODE=10
                   OUTFLOW          STORAGE          ELEV
                   (CFS)             (AC-FT)          (FT)
                   0.00             0.0000            5677
                   0.01             0.0069            5678
                   0.02             0.0138            5679
                   0.03             0.0207            5680
                   0.90             0.0209            5680.1
                   10.00            0.0236            5680.5
                   15.40            0.0253            5680.67
                   28.30            0.0306            5681
                   39.60            0.0367            5681.25
                   PRINT HYD          ID=30  CODE=2

```


DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

```

*****
*
*S  COMPUTE HYD BASIN X3
COMPUTE NM HYD      ID=3  HYDNO=103  AREA=0.01681 SQ MI
                     PER A=22 PER B=23 PER C=38 PER D=17
                     TP=.1667 HR MASS RAIN=-1
PRINT HYD           ID=3  CODE=5
*
*****
ROUTE RESERVOIR      ID=31 HYD=303 INFLOW ID=3 CODE=10
                     OUTFLOW      STORAGE      ELEV
                     (CFS)         (AC-FT)      (FT
0.00                0.0000          5659.26
0.01                0.0210          5660.26
15.12               0.0860          5661.26
21.39               0.1960          5662.26
26.20               0.3550          5663.26
30.25               0.6910          5664.26
33.82               0.8290          5665.26
                     PRINT HYD      ID=31 CODE=2
*****
*
*S  COMPUTE HYD BASIN X4
COMPUTE NM HYD      ID=4  HYDNO=104  AREA=0.00489 SQ MI
                     PER A=22 PER B=23 PER C=38 PER D=17
                     TP=.1667 HR MASS RAIN=-1
PRINT HYD           ID=4  CODE=5
*S  COMPUTE HYD BASIN X5
COMPUTE NM HYD      ID=5  HYDNO=105  AREA=0.00314 SQ MI
                     PER A=0 PER B=20 PER C=20 PER D=60
                     TP=.1667 HR MASS RAIN=-1
PRINT HYD           ID=5  CODE=5
*S  COMPUTE HYD BASIN X6
COMPUTE NM HYD      ID=6  HYDNO=106  AREA=0.00881 SQ MI
                     PER A=0 PER B=22 PER C=10 PER D=68
                     TP=.1667 HR MASS RAIN=-1
PRINT HYD           ID=6  CODE=5
*S  COMPUTE HYD BASIN X7
COMPUTE NM HYD      ID=7  HYDNO=107  AREA=0.00993 SQ MI
                     PER A=85 PER B=10 PER C=5 PER D=0
                     TP=.1667 HR MASS RAIN=-1
PRINT HYD           ID=7  CODE=5
*
ADD HYD              ID=10 HYDNO=206
                     ID=30 ID=6
PRINT HYD           ID=10 CODE=5
*
COMPUTE RATING CURVE CID=1 VS NO=1 CODE=-1 SLP=0.015
                     DIA=2.5 FT N=0.017
*
ROUTE MCUNGE         ID=30 HYD NO=206 INFLOW ID=10 DT=0.01
                     LENGTH=120 FT NS=0 SLOPE=0.015
*
ADD HYD              ID=11 HYDNO=207

```

DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

```

ID=30 ID=7
PRINT HYD ID=11 CODE=5
*
ADD HYD ID=12 HYDNO=204
ID=31 ID=4
PRINT HYD ID=12 CODE=5
*
STORE RATING CURVE CID=1 VS NO=-15
ELEV AREA FLOW
(FT) (SQ FT) (CFS)
100 0.0 0.0
100.02 0.117 0.02
100.1 0.614 2.160
100.2 1.350 7.513
100.3 2.160 15.17
100.4 3.040 25.21
100.5 4.00 37.61
*
ROUTE MCUNGE ID=30 HYD NO=204 INFLOW ID=12 DT=0.01
LENGTH=550 FT NS=0 SLOPE=0.03
*
ADD HYD ID=13 HYDNO=204
ID=11 ID=30
PRINT HYD ID=13 CODE=5
*
ADD HYD ID=14 HYDNO=205
ID=13 ID=5
PRINT HYD ID=14 CODE=5
*
ADD HYD ID=15 HYDNO=207
ID=14 ID=1
PRINT HYD ID=15 CODE=5
*
FINISH

```


DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

COMMAND	HYDROGRAPH IDENTIFICATION	FROM ID NO.	TO ID NO.	AREA (SQ MI)	PEAK DISCHARGE (CFS)	RUNOFF VOLUME (AC-FT)	RUNOFF (INCHES)	TIME TO PEAK (HOURS)	CFS PER ACRE	PAGE = 1 NOTATION
RAINFALL TYPE= 2 NOAA 14										RAIN24= 3.600
*S COMPUTE HYD BASIN HISTORIC	1.00	-	1	0.07229	87.19	3.081	0.79904	1.567	1.884	PER IMP= 0.00
*S PASEO CONSTRUCTION										
*S COMPUTE HYD BASIN X1	101.00	-	1	0.01912	45.14	2.482	2.43357	1.567	3.689	PER IMP= 60.00
*S COMPUTE HYD BASIN X2	102.00	-	2	0.00959	11.52	0.409	0.79904	1.567	1.877	PER IMP= 0.00
*S COMPUTE HYD BASIN X3	103.00	-	3	0.01681	20.19	0.716	0.79904	1.567	1.877	PER IMP= 0.00
*S COMPUTE HYD BASIN X4	104.00	-	4	0.00489	5.88	0.208	0.79904	1.567	1.879	PER IMP= 0.00
*S COMPUTE HYD BASIN X5	105.00	-	5	0.00314	7.43	0.408	2.43357	1.567	3.697	PER IMP= 60.00
*S COMPUTE HYD BASIN X6	106.00	-	6	0.00881	10.59	0.375	0.79904	1.567	1.878	PER IMP= 0.00
*S COMPUTE HYD BASIN X7	107.00	-	7	0.00993	11.93	0.423	0.79904	1.567	1.877	PER IMP= 0.00
ADD HYD	201.00	2& 6	10	0.01840	22.11	0.784	0.79904	1.567	1.878	
ADD HYD	202.00	3& 4	11	0.02170	26.07	0.925	0.79904	1.567	1.877	
ADD HYD	203.00	11& 7	12	0.03163	38.00	1.348	0.79904	1.567	1.877	
ADD HYD	204.00	12&10	13	0.05003	60.11	2.132	0.79904	1.567	1.877	
ADD HYD	205.00	13& 5	14	0.05317	67.54	2.540	0.89556	1.567	1.985	
ADD HYD	206.00	14& 1	15	0.07229	112.68	5.021	1.30235	1.567	2.435	
*S CIELO ESTATES CONSTRUCTION										
*S COMPUTE HYD BASIN X1	101.00	-	1	0.01912	45.14	2.482	2.43357	1.567	3.689	PER IMP= 60.00
*S COMPUTE HYD BASIN X2	102.00	-	2	0.00959	17.13	0.715	1.39790	1.567	2.791	PER IMP= 17.00
ROUTE RESERVOIR	302.00	2	30	0.00959	17.16	0.715	1.39787	1.567	2.797	AC-FT= 0.026
*S COMPUTE HYD BASIN X3	103.00	-	3	0.01681	30.01	1.253	1.39790	1.567	2.790	PER IMP= 17.00
ROUTE RESERVOIR	303.00	3	31	0.01681	21.95	1.253	1.39756	1.667	2.040	AC-FT= 0.214
*S COMPUTE HYD BASIN X4	104.00	-	4	0.00489	8.75	0.365	1.39790	1.567	2.795	PER IMP= 17.00
*S COMPUTE HYD BASIN X5	105.00	-	5	0.00314	7.43	0.408	2.43357	1.567	3.697	PER IMP= 60.00
*S COMPUTE HYD BASIN X6	106.00	-	6	0.00881	21.35	1.223	2.60186	1.567	3.787	PER IMP= 68.00

DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

*S COMPUTE HYD BASIN X7

COMPUTE NM HYD	107.00	-	7	0.00993	11.93	0.423	0.79904	1.567	1.877	PER IMP=	0.00
ADD HYD	206.00	30&	6 10	0.01840	38.52	1.937	1.97363	1.567	3.271		
ROUTE MCUNGE	206.00	10	30	0.01840	38.18	1.934	1.97094	1.567	3.242	CCODE =	0.2
ADD HYD	207.00	30&	7 11	0.02833	50.11	2.357	1.56018	1.567	2.764		
ADD HYD	204.00	31&	4 12	0.02170	29.44	1.616	1.39606	1.600	2.120		
ROUTE MCUNGE	204.00	12	30	0.02170	29.37	1.606	1.38794	1.633	2.115	CCODE =	0.2
ADD HYD	204.00	11&	30 13	0.05003	77.80	3.964	1.48547	1.567	2.430		
ADD HYD	205.00	13&	5 14	0.05317	85.23	4.371	1.54146	1.567	2.505		
ADD HYD	207.00	14&	1 15	0.07229	130.36	6.853	1.77741	1.567	2.818		
FINISH											

DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

Proposed Runoff Calculations / AHYMO

* Project Palomas Meadow

* PROPOSED CONDITIONS

* 100 YEAR 24 HOUR RAINFALL TABLE

RAINFALL TYPE=2 RAIN QUARTER=0
RAIN ONE=1.96 IN RAIN SIX=2.64 IN
RAIN DAY=3.60 IN DT=0.03333 HRS

*S PROPOSED CONDITION

*

*S COMPUTE HYD BASIN X1

COMPUTE NM HYD ID=1 HYDNO=101 AREA=0.01912 SQ MI
PER A=0 PER B=20 PER C=20 PER D=60
TP=.1667 HR MASS RAIN=-1

PRINT HYD ID=1 CODE=5

*S COMPUTE HYD BASIN X2

COMPUTE NM HYD ID=2 HYDNO=102 AREA=0.00959 SQ MI
PER A=22 PER B=23 PER C=38 PER D=17
TP=.1667 HR MASS RAIN=-1

PRINT HYD ID=2 CODE=5

*

ROUTE RESERVOIR	ID=32 HYD=302 INFLOW	ID=2	CODE=10
	OUTFLOW	STORAGE	ELEV
	(CFS)	(AC-FT)	(FT)
	0.00	0.0000	5677
	0.01	0.0069	5678
	0.02	0.0138	5679
	0.03	0.0207	5680
	0.90	0.0209	5680.1
	10.00	0.0236	5680.5
	15.40	0.0253	5680.67
	28.30	0.0306	5681
	39.60	0.0367	5681.25

PRINT HYD ID=30 CODE=2

*

*S COMPUTE HYD BASIN X3

COMPUTE NM HYD ID=3 HYDNO=103 AREA=0.01681 SQ MI
PER A=22 PER B=23 PER C=38 PER D=17
TP=.1667 HR MASS RAIN=-1

PRINT HYD ID=3 CODE=5

*

ROUTE RESERVOIR	ID=33 HYD=303 INFLOW	ID=3	CODE=10
	OUTFLOW	STORAGE	ELEV
	(CFS)	(AC-FT)	(FT)
	0.00	0.0000	5659.26
	0.01	0.0210	5660.26
	15.12	0.0860	5661.26
	21.39	0.1960	5662.26
	26.20	0.3550	5663.26
	30.25	0.6910	5664.26
	33.82	0.8290	5665.26

PRINT HYD ID=31 CODE=2

*

*S COMPUTE HYD BASIN X4

COMPUTE NM HYD ID=4 HYDNO=104 AREA=0.00489 SQ MI
PER A=22 PER B=23 PER C=38 PER D=17

DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

```

TP=.1667 HR MASS RAIN=-1
PRINT HYD          ID=4    CODE=5

*S  COMPUTE HYD BASIN X5
COMPUTE NM HYD     ID=5    HYDNO=105  AREA=0.00272 SQ MI
PER A=0 PER B=20 PER C=20 PER D=60
TP=.1667 HR MASS RAIN=-1
PRINT HYD          ID=5    CODE=5

*S  COMPUTE HYD BASIN X6
COMPUTE NM HYD     ID=6    HYDNO=106  AREA=0.00881 SQ MI
PER A=0 PER B=22 PER C=10 PER D=68
TP=.1667 HR MASS RAIN=-1
PRINT HYD          ID=6    CODE=5

*S  COMPUTE HYD BASIN P7A
COMPUTE NM HYD     ID=7    HYDNO=107  AREA=0.01071 SQ MI
PER A=0 PER B=10 PER C=35 PER D=55
TP=.1667 HR MASS RAIN=-1
PRINT HYD          ID=7    CODE=5
*
*S  COMPUTE HYD BASIN P7B
COMPUTE NM HYD     ID=8    HYDNO=108  AREA=0.00026 SQ MI
PER A=0 PER B=0 PER C=100 PER D=0
TP=.1667 HR MASS RAIN=-1
PRINT HYD          ID=8    CODE=5
*
*S  COMPUTE HYD BASIN P7C
COMPUTE NM HYD     ID=9    HYDNO=109  AREA=0.00039 SQ MI
PER A=0 PER B=0 PER C=100 PER D=0
TP=.1667 HR MASS RAIN=-1
PRINT HYD          ID=9    CODE=5
*
*S  COMPUTE HYD BASIN P8
COMPUTE NM HYD     ID=10   HYDNO=110  AREA=0.00053 SQ MI
PER A=0 PER B=0 PER C=70 PER D=30
TP=.1667 HR MASS RAIN=-1
PRINT HYD          ID=10   CODE=5
*
ADD HYD            ID=22   HYDNO=201
ID=33 ID=4
PRINT HYD          ID=22   CODE=5
*
STORE RATING CURVE CID=1 VS NO=-15
ELEV  AREA  FLOW
(FT)  (SQ FT)  (CFS)
100    0.0    0.0
100.02 0.117  0.02
100.1  0.614  2.160
100.2  1.350  7.513
100.3  2.160  15.17
100.4  3.040  25.21
100.5  4.00   37.61
*
ROUTE MCUNGE       ID=34   HYD NO=204 INFLOW ID=22 DT=0.01
LENGTH=1000 FT    NS=0    SLOPE=0.03
*
ADD HYD            ID=23   HYDNO=202
ID=34 ID=10
PRINT HYD          ID=23   CODE=5
*
ADD HYD            ID=24   HYDNO=203

```


DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

```

ID=23 ID=8
PRINT HYD ID=24 CODE=5
*
*****
ROUTE RESERVOIR ID=38 HYD=301 INFLOW ID=24 CODE=10
OUTFLOW STORAGE ELEV
(CFS) (AC-FT) (FT)
0.00 0.0000 5636.9
0.01 0.0010 5637
0.02 0.0113 5637.5
0.03 0.0282 5638
9.30 0.0519 5638.5
17.40 0.0828 5639
30.00 0.1211 5639.5
30.20 0.1674 5640
30.40 0.2709 5641
PRINT HYD ID=30 CODE=2
*****
*
ADD HYD ID=26 HYDNO=204
ID=32 ID=6
PRINT HYD ID=26 CODE=5
*
COMPUTE RATING CURVE CID=1 VS NO=1 CODE=-1 SLP=0.015
DIA=2.5 FT N=0.017
*
ROUTE MCUNGE ID=30 HYD NO=206 INFLOW ID=26 DT=0.01
LENGTH=120 FT NS=0 SLOPE=0.015
*
STORE RATING CURVE CID=1 VS NO=-15
ELEV AREA FLOW
(FT) (SQ FT) (CFS)
100 0.0 0.0
100.02 0.004 0.003
100.1 0.155 0.355
100.2 0.786 3.071
100.3 2.382 9.62
100.4 4.976 25.36
100.5 8.179 56.46
*
ROUTE MCUNGE ID=30 HYD NO=204 INFLOW ID=30 DT=0.01
LENGTH=732 FT NS=0 SLOPE=0.035
*
ADD HYD ID=21 HYDNO=205
ID=30 ID=7
PRINT HYD ID=21 CODE=5
*
ADD HYD ID=24 HYDNO=206
ID=21 ID=38
PRINT HYD ID=24 CODE=5
*
ADD HYD ID=25 HYDNO=207
ID=24 ID=9
PRINT HYD ID=25 CODE=5
*
ADD HYD ID=26 HYDNO=208
ID=25 ID=5
PRINT HYD ID=26 CODE=5
*
*****
ROUTE RESERVOIR ID=37 HYD=302 INFLOW ID=26 CODE=10
OUTFLOW STORAGE ELEV

```

DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

(CFS)	(AC-FT)	(FT
0.00	0.0000	5633
0.01	0.0593	5634
0.011	0.1324	5635
0.012	0.2230	5636
0.014	0.2772	5636.5
12.08	0.2887	5636.6
27.00	0.3372	5637
38.19	0.4034	5637.5
50.22	0.4761	5638
58.89	0.5553	5638.5
66.36	0.6413	5639
73.05	0.7340	5639.5
79.17	0.8336	5640
100.00	0.9000	5640.1

PRINT HYD ID=30 CODE=2

*

ADD HYD ID=27 HYDNO=209

ID=37 ID=1

PRINT HYD ID=27 CODE=10

*

FINISH

DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

COMMAND	HYDROGRAPH IDENTIFICATION	FROM ID NO.	TO ID NO.	AREA (SQ MI)	PEAK DISCHARGE (CFS)	RUNOFF VOLUME (AC-FT)	RUNOFF (INCHES)	TIME TO PEAK (HOURS)	CFS PER ACRE	PAGE = 1 NOTATION
RAINFALL TYPE= 2 NOAA 14										RAIN24= 3.600
*S PROPOSED CONDITION										
*S COMPUTE HYD BASIN X1										
COMPUTE NM HYD	101.00	-	1	0.01912	45.14	2.482	2.43357	1.567	3.689	PER IMP= 60.00
*S COMPUTE HYD BASIN X2										
COMPUTE NM HYD	102.00	-	2	0.00959	17.13	0.715	1.39790	1.567	2.791	PER IMP= 17.00
ROUTE RESERVOIR	302.00	2	32	0.00959	17.16	0.715	1.39787	1.567	2.797	AC-FT= 0.026
*S COMPUTE HYD BASIN X3										
COMPUTE NM HYD	103.00	-	3	0.01681	30.01	1.253	1.39790	1.567	2.790	PER IMP= 17.00
ROUTE RESERVOIR	303.00	3	33	0.01681	21.95	1.253	1.39756	1.667	2.040	AC-FT= 0.214
*S COMPUTE HYD BASIN X4										
COMPUTE NM HYD	104.00	-	4	0.00489	8.75	0.365	1.39790	1.567	2.795	PER IMP= 17.00
*S COMPUTE HYD BASIN X5										
COMPUTE NM HYD	105.00	-	5	0.00272	6.44	0.353	2.43357	1.567	3.699	PER IMP= 60.00
*S COMPUTE HYD BASIN X6										
COMPUTE NM HYD	106.00	-	6	0.00881	21.35	1.223	2.60186	1.567	3.787	PER IMP= 68.00
*S COMPUTE HYD BASIN P7A										
COMPUTE NM HYD	107.00	-	7	0.01071	25.29	1.342	2.34984	1.567	3.689	PER IMP= 55.00
*S COMPUTE HYD BASIN P7B										
COMPUTE NM HYD	108.00	-	8	0.00026	0.51	0.017	1.19783	1.567	3.087	PER IMP= 0.00
*S COMPUTE HYD BASIN P7C										
COMPUTE NM HYD	109.00	-	9	0.00039	0.76	0.025	1.19783	1.567	3.064	PER IMP= 0.00
*S COMPUTE HYD BASIN P8										
COMPUTE NM HYD	110.00	-	10	0.00053	1.18	0.052	1.84103	1.567	3.487	PER IMP= 30.00
ADD HYD	201.00	33& 4	22	0.02170	29.44	1.616	1.39606	1.600	2.120	
ROUTE MCUNGE	204.00	22	34	0.02170	29.39	1.606	1.38793	1.633	2.116	CCODE = 0.2
ADD HYD	202.00	34&10	23	0.02223	30.40	1.658	1.39872	1.633	2.137	
ADD HYD	203.00	23& 8	24	0.02249	30.85	1.675	1.39639	1.633	2.143	
ROUTE RESERVOIR	301.00	24	38	0.02249	30.00	1.675	1.39639	1.667	2.085	AC-FT= 0.122
ADD HYD	204.00	32& 6	26	0.01840	38.52	1.937	1.97363	1.567	3.271	
ROUTE MCUNGE	206.00	26	30	0.01840	38.18	1.934	1.97094	1.567	3.242	CCODE = 0.2
ROUTE MCUNGE	204.00	31	30	0.01840	37.65	1.934	1.97095	1.600	3.197	CCODE = 0.2
ADD HYD	205.00	30& 7	21	0.02911	62.62	3.276	2.11034	1.567	3.361	
ADD HYD	206.00	21&38	24	0.05160	89.41	4.951	1.79913	1.600	2.707	
ADD HYD	207.00	24& 9	25	0.05199	90.14	4.976	1.79462	1.600	2.709	
ADD HYD	208.00	25& 5	26	0.05471	96.22	5.329	1.82638	1.600	2.748	
ROUTE RESERVOIR	302.00	26	37	0.05471	77.60	5.141	1.76205	1.700	2.216	AC-FT= 0.808
ADD HYD	209.00	37& 1	27	0.07383	112.62	7.623	1.93595	1.600	2.383	
FINISH										

DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

AHYMO PROGRAM (AHYMO-S4) - Version: S4.02a - Rel: 02a
 RUN DATE (MON/DAY/YR) = 12/10/2020
 START TIME (HR:MIN:SEC) = 10:42:23 USER NO.= AHYMO-S4TempUser05901704
 INPUT FILE = F:\stillbrooke\palomas\DRAINAGE\PROPOSED palomas HYDROLOGY.hmi

* Project Palomas Meadow
 * PROPOSED CONDITIONS
 * 100 YEAR 24 HOUR RAINFALL TABLE

RAINFALL TYPE=2 RAIN QUARTER=0
 RAIN ONE=1.96 IN RAIN SIX=2.64 IN
 RAIN DAY=3.60 IN DT=0.03333 HRS

24-HOUR RAINFALL DIST. - BASED ON NOAA ATLAS 14 FOR CONVECTIVE AREAS (NM & AZ) - D1

DT =	0.033330 HOURS	END TIME =	23.997601 HOURS
0.0000	0.0030	0.0060	0.0092
0.0232	0.0272	0.0314	0.0355
0.0751	0.0857	0.0971	0.1085
0.1564	0.1688	0.1819	0.1956
0.2571	0.2760	0.2949	0.3202
0.4467	0.4998	0.5530	0.6254
1.2976	1.4882	1.6238	1.7594
1.9945	2.0374	2.0672	2.0970
2.1829	2.1994	2.2149	2.2293
2.2819	2.2929	2.3038	2.3140
2.3538	2.3584	2.3628	2.3673
2.3840	2.3880	2.3919	2.3959
2.4108	2.4144	2.4179	2.4214
2.4349	2.4381	2.4413	2.4445
2.4568	2.4598	2.4627	2.4656
2.4769	2.4797	2.4825	2.4852
2.4959	2.4985	2.5011	2.5037
2.5139	2.5164	2.5188	2.5213
2.5309	2.5333	2.5356	2.5380
2.5472	2.5494	2.5517	2.5539
2.5627	2.5648	2.5670	2.5691
2.5775	2.5796	2.5816	2.5837
2.5917	2.5937	2.5957	2.5976
2.6054	2.6073	2.6092	2.6111
2.6185	2.6203	2.6222	2.6240
2.6312	2.6330	2.6347	2.6365
2.6435	2.6453	2.6471	2.6489
2.6560	2.6577	2.6595	2.6613

DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

2.6684	2.6702	2.6720	2.6737	2.6755	2.6773	2.6791
2.6809	2.6826	2.6844	2.6862	2.6880	2.6897	2.6915
2.6933	2.6951	2.6969	2.6986	2.7004	2.7022	2.7040
2.7057	2.7075	2.7093	2.7111	2.7128	2.7146	2.7164
2.7182	2.7200	2.7217	2.7235	2.7253	2.7271	2.7288
2.7306	2.7324	2.7342	2.7360	2.7377	2.7395	2.7413
2.7431	2.7448	2.7466	2.7484	2.7502	2.7520	2.7537
2.7555	2.7573	2.7591	2.7608	2.7626	2.7644	2.7662
2.7680	2.7697	2.7715	2.7733	2.7751	2.7768	2.7786
2.7804	2.7822	2.7840	2.7857	2.7875	2.7893	2.7911
2.7928	2.7946	2.7964	2.7982	2.7999	2.8017	2.8035
2.8053	2.8071	2.8088	2.8106	2.8124	2.8142	2.8159
2.8177	2.8195	2.8213	2.8231	2.8248	2.8266	2.8284
2.8302	2.8319	2.8337	2.8355	2.8373	2.8391	2.8408
2.8426	2.8444	2.8462	2.8479	2.8497	2.8515	2.8533
2.8551	2.8568	2.8586	2.8604	2.8622	2.8639	2.8657
2.8675	2.8693	2.8711	2.8728	2.8746	2.8764	2.8782
2.8799	2.8817	2.8835	2.8853	2.8870	2.8888	2.8906
2.8924	2.8942	2.8959	2.8977	2.8995	2.9013	2.9030
2.9048	2.9066	2.9084	2.9102	2.9119	2.9137	2.9155
2.9173	2.9190	2.9208	2.9226	2.9244	2.9262	2.9279
2.9297	2.9315	2.9333	2.9350	2.9368	2.9386	2.9404
2.9422	2.9439	2.9457	2.9475	2.9493	2.9510	2.9528
2.9546	2.9564	2.9582	2.9599	2.9617	2.9635	2.9653
2.9670	2.9688	2.9706	2.9724	2.9742	2.9759	2.9777
2.9795	2.9813	2.9830	2.9848	2.9866	2.9884	2.9901
2.9919	2.9937	2.9955	2.9973	2.9990	3.0008	3.0026
3.0044	3.0061	3.0079	3.0097	3.0115	3.0133	3.0150
3.0168	3.0186	3.0204	3.0221	3.0239	3.0257	3.0275
3.0293	3.0310	3.0328	3.0346	3.0364	3.0381	3.0399
3.0417	3.0435	3.0453	3.0470	3.0488	3.0506	3.0524
3.0541	3.0559	3.0577	3.0595	3.0613	3.0630	3.0648
3.0666	3.0684	3.0701	3.0719	3.0737	3.0755	3.0772
3.0790	3.0808	3.0826	3.0844	3.0861	3.0879	3.0897
3.0915	3.0932	3.0950	3.0968	3.0986	3.1004	3.1021
3.1039	3.1057	3.1075	3.1092	3.1110	3.1128	3.1146
3.1164	3.1181	3.1199	3.1217	3.1235	3.1252	3.1270
3.1288	3.1306	3.1324	3.1341	3.1359	3.1377	3.1395
3.1412	3.1430	3.1448	3.1466	3.1484	3.1501	3.1519
3.1537	3.1555	3.1572	3.1590	3.1608	3.1626	3.1644
3.1661	3.1679	3.1697	3.1715	3.1732	3.1750	3.1768
3.1786	3.1803	3.1821	3.1839	3.1857	3.1875	3.1892
3.1910	3.1928	3.1946	3.1963	3.1981	3.1999	3.2017

DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

3.2035	3.2052	3.2070	3.2088	3.2106	3.2123	3.2141
3.2159	3.2177	3.2195	3.2212	3.2230	3.2248	3.2266
3.2283	3.2301	3.2319	3.2337	3.2355	3.2372	3.2390
3.2408	3.2426	3.2443	3.2461	3.2479	3.2497	3.2515
3.2532	3.2550	3.2568	3.2586	3.2603	3.2621	3.2639
3.2657	3.2674	3.2692	3.2710	3.2728	3.2746	3.2763
3.2781	3.2799	3.2817	3.2834	3.2852	3.2870	3.2888
3.2906	3.2923	3.2941	3.2959	3.2977	3.2994	3.3012
3.3030	3.3048	3.3066	3.3083	3.3101	3.3119	3.3137
3.3154	3.3172	3.3190	3.3208	3.3226	3.3243	3.3261
3.3279	3.3297	3.3314	3.3332	3.3350	3.3368	3.3386
3.3403	3.3421	3.3439	3.3457	3.3474	3.3492	3.3510
3.3528	3.3545	3.3563	3.3581	3.3599	3.3617	3.3634
3.3652	3.3670	3.3688	3.3705	3.3723	3.3741	3.3759
3.3777	3.3794	3.3812	3.3830	3.3848	3.3865	3.3883
3.3901	3.3919	3.3937	3.3954	3.3972	3.3990	3.4008
3.4025	3.4043	3.4061	3.4079	3.4097	3.4114	3.4132
3.4150	3.4168	3.4185	3.4203	3.4221	3.4239	3.4257
3.4274	3.4292	3.4310	3.4328	3.4345	3.4363	3.4381
3.4399	3.4417	3.4434	3.4452	3.4470	3.4488	3.4505
3.4523	3.4541	3.4559	3.4576	3.4594	3.4612	3.4630
3.4648	3.4665	3.4683	3.4701	3.4719	3.4736	3.4754
3.4772	3.4790	3.4808	3.4825	3.4843	3.4861	3.4879
3.4896	3.4914	3.4932	3.4950	3.4968	3.4985	3.5003
3.5021	3.5039	3.5056	3.5074	3.5092	3.5110	3.5128
3.5145	3.5163	3.5181	3.5199	3.5216	3.5234	3.5252
3.5270	3.5288	3.5305	3.5323	3.5341	3.5359	3.5376
3.5394	3.5412	3.5430	3.5447	3.5465	3.5483	3.5501
3.5519	3.5536	3.5554	3.5572	3.5590	3.5607	3.5625
3.5643	3.5661	3.5679	3.5696	3.5714	3.5732	3.5750
3.5767	3.5785	3.5803	3.5821	3.5839	3.5856	3.5874
3.5892	3.5910	3.5927	3.5945	3.5963	3.5981	3.6000

*S PROPOSED CONDITION

*

*S COMPUTE HYD BASIN X1

COMPUTE NM HYD ID=1 HYDNO=101 AREA=0.01912 SQ MI
 PER A=0 PER B=20 PER C=20 PER D=60
 TP=.1667 HR MASS RAIN=-1

K = 0.090852HR TP = 0.166700HR K/TP RATIO = 0.545000 SHAPE CONSTANT, N = 7.106428
 UNIT PEAK = 36.217 CFS UNIT VOLUME = 0.9999 B = 526.28 P60 = 1.9600

DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

AREA = 0.011472 SQ MI IA = 0.10000 INCHES INF = 0.04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.033330

K = 0.149046HR TP = 0.166700HR K/TP RATIO = 0.894098 SHAPE CONSTANT, N = 3.965387
 UNIT PEAK = 16.189 CFS UNIT VOLUME = 0.9993 B = 352.86 P60 = 1.9600
 AREA = 0.007648 SQ MI IA = 0.42500 INCHES INF = 1.04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.033330

PRINT HYD ID=1 CODE=5

PARTIAL HYDROGRAPH 101.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
0.000	0.0	5.166	0.4	10.332	0.4	15.498	0.4	20.665	0.4
0.167	0.0	5.333	0.4	10.499	0.4	15.665	0.4	20.831	0.4
0.333	0.0	5.499	0.4	10.666	0.4	15.832	0.4	20.998	0.4
0.500	0.0	5.666	0.4	10.832	0.4	15.998	0.4	21.165	0.4
0.667	0.5	5.833	0.4	10.999	0.4	16.165	0.4	21.331	0.4
0.833	1.9	5.999	0.4	11.166	0.4	16.332	0.4	21.498	0.4
1.000	2.6	6.166	0.4	11.332	0.4	16.498	0.4	21.665	0.4
1.167	4.2	6.333	0.4	11.499	0.4	16.665	0.4	21.831	0.4
1.333	10.1	6.499	0.4	11.665	0.4	16.832	0.4	21.998	0.4
1.500	40.4	6.666	0.4	11.832	0.4	16.998	0.4	22.164	0.4
1.667	33.4	6.833	0.4	11.999	0.4	17.165	0.4	22.331	0.4
1.833	15.1	6.999	0.4	12.165	0.4	17.332	0.4	22.498	0.4
2.000	8.0	7.166	0.4	12.332	0.4	17.498	0.4	22.664	0.4
2.166	5.3	7.333	0.4	12.499	0.4	17.665	0.4	22.831	0.4
2.333	3.7	7.499	0.4	12.665	0.4	17.832	0.4	22.998	0.4
2.500	2.4	7.666	0.4	12.832	0.4	17.998	0.4	23.164	0.4
2.666	1.5	7.833	0.4	12.999	0.4	18.165	0.4	23.331	0.4
2.833	1.1	7.999	0.4	13.165	0.4	18.331	0.4	23.498	0.4
3.000	0.8	8.166	0.4	13.332	0.4	18.498	0.4	23.664	0.4
3.166	0.7	8.332	0.4	13.499	0.4	18.665	0.4	23.831	0.4
3.333	0.5	8.499	0.4	13.665	0.4	18.831	0.4	23.998	0.4
3.500	0.5	8.666	0.4	13.832	0.4	18.998	0.4	24.164	0.2
3.666	0.4	8.832	0.4	13.999	0.4	19.165	0.4	24.331	0.1
3.833	0.4	8.999	0.4	14.165	0.4	19.331	0.4	24.498	0.0
4.000	0.4	9.166	0.4	14.332	0.4	19.498	0.4	24.664	0.0
4.166	0.4	9.332	0.4	14.499	0.4	19.665	0.4	24.831	0.0
4.333	0.4	9.499	0.4	14.665	0.4	19.831	0.4	24.998	0.0
4.500	0.4	9.666	0.4	14.832	0.4	19.998	0.4	25.164	0.0

DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

4.666	0.4	9.832	0.4	14.998	0.4	20.165	0.4	25.331	0.0
4.833	0.4	9.999	0.4	15.165	0.4	20.331	0.4		
4.999	0.4	10.166	0.4	15.332	0.4	20.498	0.4		

RUNOFF VOLUME = 2.43357 INCHES = 2.4816 ACRE-FEET
 PEAK DISCHARGE RATE = 45.14 CFS AT 1.567 HOURS BASIN AREA = 0.0191 SQ. MI.

*S COMPUTE HYD BASIN X2

COMPUTE NM HYD ID=2 HYDNO=102 AREA=0.00959 SQ MI
 PER A=22 PER B=23 PER C=38 PER D=17
 TP=.1667 HR MASS RAIN=-1

K = 0.090852HR TP = 0.166700HR K/TP RATIO = 0.545000 SHAPE CONSTANT, N = 7.106428
 UNIT PEAK = 5.1469 CFS UNIT VOLUME = 0.9979 B = 526.28 P60 = 1.9600
 AREA = 0.001630 SQ MI IA = 0.10000 INCHES INF = 0.04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.033330

K = 0.160265HR TP = 0.166700HR K/TP RATIO = 0.961396 SHAPE CONSTANT, N = 3.674880
 UNIT PEAK = 15.895 CFS UNIT VOLUME = 0.9993 B = 332.88 P60 = 1.9600
 AREA = 0.007960 SQ MI IA = 0.47108 INCHES INF = 1.16904 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.033330

PRINT HYD ID=2 CODE=5

PARTIAL HYDROGRAPH 102.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
0.000	0.0	4.999	0.1	9.999	0.1	14.998	0.1	19.998	0.1
0.167	0.0	5.166	0.1	10.166	0.1	15.165	0.1	20.165	0.1
0.333	0.0	5.333	0.1	10.332	0.1	15.332	0.1	20.331	0.1
0.500	0.0	5.499	0.1	10.499	0.1	15.498	0.1	20.498	0.1
0.667	0.1	5.666	0.1	10.666	0.1	15.665	0.1	20.665	0.1
0.833	0.3	5.833	0.1	10.832	0.1	15.832	0.1	20.831	0.1
1.000	0.4	5.999	0.1	10.999	0.1	15.998	0.1	20.998	0.1
1.167	0.6	6.166	0.1	11.166	0.1	16.165	0.1	21.165	0.1
1.333	2.4	6.333	0.1	11.332	0.1	16.332	0.1	21.331	0.1
1.500	15.1	6.499	0.1	11.499	0.1	16.498	0.1	21.498	0.1
1.667	13.1	6.666	0.1	11.665	0.1	16.665	0.1	21.665	0.1

DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

1.833	5.5	6.833	0.1	11.832	0.1	16.832	0.1	21.831	0.1
2.000	2.5	6.999	0.1	11.999	0.1	16.998	0.1	21.998	0.1
2.166	1.6	7.166	0.1	12.165	0.1	17.165	0.1	22.164	0.1
2.333	1.1	7.333	0.1	12.332	0.1	17.332	0.1	22.331	0.1
2.500	0.8	7.499	0.1	12.499	0.1	17.498	0.1	22.498	0.1
2.666	0.5	7.666	0.1	12.665	0.1	17.665	0.1	22.664	0.1
2.833	0.4	7.833	0.1	12.832	0.1	17.832	0.1	22.831	0.1
3.000	0.3	7.999	0.1	12.999	0.1	17.998	0.1	22.998	0.1
3.166	0.2	8.166	0.1	13.165	0.1	18.165	0.1	23.164	0.1
3.333	0.2	8.332	0.1	13.332	0.1	18.331	0.1	23.331	0.1
3.500	0.1	8.499	0.1	13.499	0.1	18.498	0.1	23.498	0.1
3.666	0.1	8.666	0.1	13.665	0.1	18.665	0.1	23.664	0.1
3.833	0.1	8.832	0.1	13.832	0.1	18.831	0.1	23.831	0.1
4.000	0.1	8.999	0.1	13.999	0.1	18.998	0.1	23.998	0.1
4.166	0.1	9.166	0.1	14.165	0.1	19.165	0.1	24.164	0.0
4.333	0.1	9.332	0.1	14.332	0.1	19.331	0.1	24.331	0.0
4.500	0.1	9.499	0.1	14.499	0.1	19.498	0.1	24.498	0.0
4.666	0.0	9.666	0.1	14.665	0.1	19.665	0.1	24.664	0.0
4.833	0.0	9.832	0.1	14.832	0.1	19.831	0.1	24.831	0.0

RUNOFF VOLUME = 1.39790 INCHES = 0.7150 ACRE-FEET
 PEAK DISCHARGE RATE = 17.13 CFS AT 1.567 HOURS BASIN AREA = 0.0096 SQ. MI.

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ROUTE RESERVOIR      ID=32 HYD=302 INFLOW ID=2 CODE=10
                        OUTFLOW          STORAGE          ELEV
                        (CFS)             (AC-FT)         (FT
                        0.00              0.0000          5677
                        0.01              0.0069          5678
                        0.02              0.0138          5679
                        0.03              0.0207          5680
                        0.90              0.0209          5680.1
                        10.00             0.0236          5680.5
                        15.40             0.0253          5680.67
                        28.30             0.0306          5681
                        39.60             0.0367          5681.25
PRINT HYD              ID=30 CODE=2
  
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DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
0.00	0.00	5677.00	0.000	0.00
0.33	0.00	5677.00	0.000	0.00
0.67	0.07	5677.03	0.000	0.00
1.00	0.37	5678.02	0.007	0.01
1.33	2.42	5680.16	0.021	2.27
1.67	13.09	5680.60	0.025	13.27
2.00	2.51	5680.17	0.021	2.54
2.33	1.15	5680.11	0.021	1.15
2.67	0.52	5680.06	0.021	0.52
3.00	0.26	5680.03	0.021	0.27
3.33	0.15	5680.01	0.021	0.15
3.67	0.10	5680.01	0.021	0.10
4.00	0.07	5680.00	0.021	0.07
4.33	0.06	5680.00	0.021	0.06
4.67	0.05	5680.00	0.021	0.05
5.00	0.05	5680.00	0.021	0.05
5.33	0.05	5680.00	0.021	0.05
5.67	0.05	5680.00	0.021	0.05
6.00	0.05	5680.00	0.021	0.05
6.33	0.06	5680.00	0.021	0.06
6.67	0.06	5680.00	0.021	0.06
7.00	0.06	5680.00	0.021	0.06
7.33	0.06	5680.00	0.021	0.06
7.67	0.06	5680.00	0.021	0.06
8.00	0.06	5680.00	0.021	0.06
8.33	0.06	5680.00	0.021	0.06
8.67	0.06	5680.00	0.021	0.06
9.00	0.06	5680.00	0.021	0.06
9.33	0.06	5680.00	0.021	0.06
9.67	0.06	5680.00	0.021	0.06
10.00	0.06	5680.00	0.021	0.06
10.33	0.06	5680.00	0.021	0.06
10.67	0.06	5680.00	0.021	0.06
11.00	0.06	5680.00	0.021	0.06
11.33	0.06	5680.00	0.021	0.06
11.67	0.06	5680.00	0.021	0.06
12.00	0.06	5680.00	0.021	0.06
12.33	0.06	5680.00	0.021	0.06
12.67	0.06	5680.00	0.021	0.06
13.00	0.06	5680.00	0.021	0.06

DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

13.33	0.06	5680.00	0.021	0.06
13.67	0.06	5680.00	0.021	0.06
14.00	0.06	5680.00	0.021	0.06
14.33	0.06	5680.00	0.021	0.06
14.67	0.06	5680.00	0.021	0.06
15.00	0.06	5680.00	0.021	0.06
15.33	0.06	5680.00	0.021	0.06
15.67	0.06	5680.00	0.021	0.06
16.00	0.06	5680.00	0.021	0.06
16.33	0.06	5680.00	0.021	0.06
16.67	0.06	5680.00	0.021	0.06
17.00	0.06	5680.00	0.021	0.06
17.33	0.06	5680.00	0.021	0.06
17.66	0.06	5680.00	0.021	0.06
18.00	0.06	5680.00	0.021	0.06
18.33	0.06	5680.00	0.021	0.06

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
18.66	0.06	5680.00	0.021	0.06
19.00	0.06	5680.00	0.021	0.06
19.33	0.06	5680.00	0.021	0.06
19.66	0.06	5680.00	0.021	0.06
20.00	0.06	5680.00	0.021	0.06
20.33	0.06	5680.00	0.021	0.06
20.66	0.06	5680.00	0.021	0.06
21.00	0.06	5680.00	0.021	0.06
21.33	0.06	5680.00	0.021	0.06
21.66	0.06	5680.00	0.021	0.06
22.00	0.06	5680.00	0.021	0.06
22.33	0.06	5680.00	0.021	0.06
22.66	0.06	5680.00	0.021	0.06
23.00	0.06	5680.00	0.021	0.06
23.33	0.06	5680.00	0.021	0.06
23.66	0.06	5680.00	0.021	0.06
24.00	0.06	5680.00	0.021	0.06
24.33	0.01	5679.98	0.021	0.03
24.66	0.00	5679.88	0.020	0.03
25.00	0.00	5679.77	0.019	0.03
25.33	0.00	5679.66	0.018	0.03
25.66	0.00	5679.56	0.018	0.03
26.00	0.00	5679.46	0.017	0.02

DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

26.33	0.00	5679.36	0.016	0.02
26.66	0.00	5679.27	0.016	0.02
27.00	0.00	5679.18	0.015	0.02
27.33	0.00	5679.09	0.014	0.02
27.66	0.00	5679.01	0.014	0.02
28.00	0.00	5678.93	0.013	0.02
28.33	0.00	5678.86	0.013	0.02
28.66	0.00	5678.79	0.012	0.02
29.00	0.00	5678.72	0.012	0.02
29.33	0.00	5678.65	0.011	0.02
29.66	0.00	5678.58	0.011	0.02
30.00	0.00	5678.52	0.011	0.02
30.33	0.00	5678.46	0.010	0.01
30.66	0.00	5678.41	0.010	0.01
31.00	0.00	5678.35	0.009	0.01
31.33	0.00	5678.30	0.009	0.01
31.66	0.00	5678.25	0.009	0.01
32.00	0.00	5678.20	0.008	0.01
32.33	0.00	5678.15	0.008	0.01
32.66	0.00	5678.11	0.008	0.01
33.00	0.00	5678.06	0.007	0.01
33.33	0.00	5678.02	0.007	0.01
33.66	0.00	5677.98	0.007	0.01
34.00	0.00	5677.94	0.007	0.01
34.33	0.00	5677.91	0.006	0.01
34.66	0.00	5677.87	0.006	0.01
35.00	0.00	5677.84	0.006	0.01
35.33	0.00	5677.80	0.006	0.01
35.66	0.00	5677.77	0.005	0.01
36.00	0.00	5677.74	0.005	0.01
36.33	0.00	5677.71	0.005	0.01
36.66	0.00	5677.69	0.005	0.01
37.00	0.00	5677.66	0.005	0.01
TIME	INFLOW	ELEV	VOLUME	OUTFLOW
(HRS)	(CFS)	(FEET)	(AC-FT)	(CFS)
37.33	0.00	5677.63	0.004	0.01
37.66	0.00	5677.61	0.004	0.01
38.00	0.00	5677.58	0.004	0.01
38.33	0.00	5677.56	0.004	0.01
38.66	0.00	5677.54	0.004	0.01
39.00	0.00	5677.52	0.004	0.01

DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

39.33 0.00 5677.50 0.003 0.00
 PEAK DISCHARGE = 17.164 CFS - PEAK OCCURS AT HOUR 1.57
 MAXIMUM WATER SURFACE ELEVATION = 5680.715
 MAXIMUM STORAGE = 0.0260 AC-FT INCREMENTAL TIME= 0.033330HRS

*

*S COMPUTE HYD BASIN X3

COMPUTE NM HYD ID=3 HYDNO=103 AREA=0.01681 SQ MI
 PER A=22 PER B=23 PER C=38 PER D=17
 TP=.1667 HR MASS RAIN=-1

K = 0.090852HR TP = 0.166700HR K/TP RATIO = 0.545000 SHAPE CONSTANT, N = 7.106428
 UNIT PEAK = 9.0218 CFS UNIT VOLUME = 0.9990 B = 526.28 P60 = 1.9600
 AREA = 0.002858 SQ MI IA = 0.10000 INCHES INF = 0.04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.033330

K = 0.160265HR TP = 0.166700HR K/TP RATIO = 0.961396 SHAPE CONSTANT, N = 3.674880
 UNIT PEAK = 27.861 CFS UNIT VOLUME = 0.9997 B = 332.88 P60 = 1.9600
 AREA = 0.013952 SQ MI IA = 0.47108 INCHES INF = 1.16904 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.033330

PRINT HYD ID=3 CODE=5

PARTIAL HYDROGRAPH 103.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
0.000	0.0	5.166	0.1	10.332	0.1	15.498	0.1	20.665	0.1
0.167	0.0	5.333	0.1	10.499	0.1	15.665	0.1	20.831	0.1
0.333	0.0	5.499	0.1	10.666	0.1	15.832	0.1	20.998	0.1
0.500	0.0	5.666	0.1	10.832	0.1	15.998	0.1	21.165	0.1
0.667	0.1	5.833	0.1	10.999	0.1	16.165	0.1	21.331	0.1
0.833	0.5	5.999	0.1	11.166	0.1	16.332	0.1	21.498	0.1
1.000	0.7	6.166	0.1	11.332	0.1	16.498	0.1	21.665	0.1
1.167	1.0	6.333	0.1	11.499	0.1	16.665	0.1	21.831	0.1
1.333	4.2	6.499	0.1	11.665	0.1	16.832	0.1	21.998	0.1
1.500	26.5	6.666	0.1	11.832	0.1	16.998	0.1	22.164	0.1
1.667	22.9	6.833	0.1	11.999	0.1	17.165	0.1	22.331	0.1
1.833	9.6	6.999	0.1	12.165	0.1	17.332	0.1	22.498	0.1
2.000	4.4	7.166	0.1	12.332	0.1	17.498	0.1	22.664	0.1
2.166	2.8	7.333	0.1	12.499	0.1	17.665	0.1	22.831	0.1

DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

2.333	2.0	7.499	0.1	12.665	0.1	17.832	0.1	22.998	0.1
2.500	1.4	7.666	0.1	12.832	0.1	17.998	0.1	23.164	0.1
2.666	0.9	7.833	0.1	12.999	0.1	18.165	0.1	23.331	0.1
2.833	0.7	7.999	0.1	13.165	0.1	18.331	0.1	23.498	0.1
3.000	0.5	8.166	0.1	13.332	0.1	18.498	0.1	23.664	0.1
3.166	0.3	8.332	0.1	13.499	0.1	18.665	0.1	23.831	0.1
3.333	0.3	8.499	0.1	13.665	0.1	18.831	0.1	23.998	0.1
3.500	0.2	8.666	0.1	13.832	0.1	18.998	0.1	24.164	0.1
3.666	0.2	8.832	0.1	13.999	0.1	19.165	0.1	24.331	0.0
3.833	0.1	8.999	0.1	14.165	0.1	19.331	0.1	24.498	0.0
4.000	0.1	9.166	0.1	14.332	0.1	19.498	0.1	24.664	0.0
4.166	0.1	9.332	0.1	14.499	0.1	19.665	0.1	24.831	0.0
4.333	0.1	9.499	0.1	14.665	0.1	19.831	0.1	24.998	0.0
4.500	0.1	9.666	0.1	14.832	0.1	19.998	0.1		
4.666	0.1	9.832	0.1	14.998	0.1	20.165	0.1		
4.833	0.1	9.999	0.1	15.165	0.1	20.331	0.1		
4.999	0.1	10.166	0.1	15.332	0.1	20.498	0.1		

RUNOFF VOLUME = 1.39790 INCHES = 1.2533 ACRE-FEET
 PEAK DISCHARGE RATE = 30.01 CFS AT 1.567 HOURS BASIN AREA = 0.0168 SQ. MI.

*

 ROUTE RESERVOIR ID=33 HYD=303 INFLOW ID=3 CODE=10
 OUTFLOW STORAGE ELEV
 (CFS) (AC-FT) (FT)
 0.00 0.0000 5659.26
 0.01 0.0210 5660.26
 15.12 0.0860 5661.26
 21.39 0.1960 5662.26
 26.20 0.3550 5663.26
 30.25 0.6910 5664.26
 33.82 0.8290 5665.26
 PRINT HYD ID=31 CODE=2

* * * * *
 TIME INFLOW ELEV VOLUME OUTFLOW
 (HRS) (CFS) (FEET) (AC-FT) (CFS)
 0.00 0.00 5659.26 0.000 0.00

DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

0.33	0.00	5659.26	0.000	0.00
0.67	0.12	5659.28	0.000	0.00
1.00	0.65	5659.85	0.012	0.01
1.33	4.24	5660.44	0.033	2.70
1.67	22.93	5662.38	0.214	21.95
2.00	4.40	5660.71	0.050	6.84
2.33	2.01	5660.41	0.031	2.25
2.67	0.91	5660.33	0.025	1.03
3.00	0.47	5660.29	0.023	0.52
3.33	0.27	5660.28	0.022	0.29
3.67	0.17	5660.27	0.022	0.19
4.00	0.13	5660.27	0.022	0.14
4.33	0.11	5660.27	0.021	0.11
4.67	0.09	5660.27	0.021	0.10
5.00	0.09	5660.27	0.021	0.09
5.33	0.09	5660.27	0.021	0.09
5.67	0.09	5660.27	0.021	0.09
6.00	0.09	5660.27	0.021	0.09
6.33	0.10	5660.27	0.021	0.10
6.67	0.10	5660.27	0.021	0.10
7.00	0.10	5660.27	0.021	0.10
7.33	0.10	5660.27	0.021	0.10
7.67	0.10	5660.27	0.021	0.10
8.00	0.10	5660.27	0.021	0.10
8.33	0.10	5660.27	0.021	0.10
8.67	0.10	5660.27	0.021	0.10
9.00	0.10	5660.27	0.021	0.10
9.33	0.10	5660.27	0.021	0.10
9.67	0.10	5660.27	0.021	0.10
10.00	0.10	5660.27	0.021	0.10
10.33	0.10	5660.27	0.021	0.10
10.67	0.10	5660.27	0.021	0.10
11.00	0.10	5660.27	0.021	0.10
11.33	0.10	5660.27	0.021	0.10
11.67	0.10	5660.27	0.021	0.10
12.00	0.10	5660.27	0.021	0.10
12.33	0.10	5660.27	0.021	0.10
12.67	0.10	5660.27	0.021	0.10
13.00	0.10	5660.27	0.021	0.10
13.33	0.10	5660.27	0.021	0.10
13.67	0.10	5660.27	0.021	0.10
14.00	0.10	5660.27	0.021	0.10
14.33	0.10	5660.27	0.021	0.10

DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

14.67	0.10	5660.27	0.021	0.10
15.00	0.10	5660.27	0.021	0.10
15.33	0.10	5660.27	0.021	0.10
15.67	0.10	5660.27	0.021	0.10
16.00	0.10	5660.27	0.021	0.10
16.33	0.10	5660.27	0.021	0.10
16.67	0.10	5660.27	0.021	0.10
17.00	0.10	5660.27	0.021	0.10
17.33	0.10	5660.27	0.021	0.10
17.66	0.10	5660.27	0.021	0.10
18.00	0.10	5660.27	0.021	0.10
18.33	0.10	5660.27	0.021	0.10

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
18.66	0.10	5660.27	0.021	0.10
19.00	0.10	5660.27	0.021	0.10
19.33	0.10	5660.27	0.021	0.10
19.66	0.10	5660.27	0.021	0.10
20.00	0.10	5660.27	0.021	0.10
20.33	0.10	5660.27	0.021	0.10
20.66	0.10	5660.27	0.021	0.10
21.00	0.10	5660.27	0.021	0.10
21.33	0.10	5660.27	0.021	0.10
21.66	0.10	5660.27	0.021	0.10
22.00	0.10	5660.27	0.021	0.10
22.33	0.10	5660.27	0.021	0.10
22.66	0.10	5660.27	0.021	0.10
23.00	0.10	5660.27	0.021	0.10
23.33	0.10	5660.27	0.021	0.10
23.66	0.10	5660.27	0.021	0.10
24.00	0.10	5660.27	0.021	0.10
24.33	0.02	5660.26	0.021	0.03
24.66	0.00	5660.26	0.021	0.01
25.00	0.00	5660.25	0.021	0.01
25.33	0.00	5660.23	0.020	0.01
25.66	0.00	5660.22	0.020	0.01
26.00	0.00	5660.21	0.020	0.01
26.33	0.00	5660.20	0.020	0.01
26.66	0.00	5660.19	0.019	0.01
27.00	0.00	5660.17	0.019	0.01
27.33	0.00	5660.16	0.019	0.01

DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

27.66	0.00	5660.15	0.019	0.01
28.00	0.00	5660.14	0.018	0.01
28.33	0.00	5660.13	0.018	0.01
28.66	0.00	5660.11	0.018	0.01
29.00	0.00	5660.10	0.018	0.01
29.33	0.00	5660.09	0.017	0.01
29.66	0.00	5660.08	0.017	0.01
30.00	0.00	5660.07	0.017	0.01
30.33	0.00	5660.06	0.017	0.01
30.66	0.00	5660.05	0.017	0.01
31.00	0.00	5660.04	0.016	0.01
31.33	0.00	5660.03	0.016	0.01
31.66	0.00	5660.02	0.016	0.01
32.00	0.00	5660.01	0.016	0.01
32.33	0.00	5660.00	0.016	0.01
32.66	0.00	5659.99	0.015	0.01
33.00	0.00	5659.98	0.015	0.01
33.33	0.00	5659.97	0.015	0.01
33.66	0.00	5659.96	0.015	0.01
34.00	0.00	5659.95	0.015	0.01
34.33	0.00	5659.94	0.014	0.01
34.66	0.00	5659.94	0.014	0.01
35.00	0.00	5659.93	0.014	0.01
35.33	0.00	5659.92	0.014	0.01
35.66	0.00	5659.91	0.014	0.01
36.00	0.00	5659.90	0.013	0.01
36.33	0.00	5659.89	0.013	0.01
36.66	0.00	5659.88	0.013	0.01
37.00	0.00	5659.88	0.013	0.01
TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
37.33	0.00	5659.87	0.013	0.01
37.66	0.00	5659.86	0.013	0.01
38.00	0.00	5659.85	0.012	0.01
38.33	0.00	5659.84	0.012	0.01
38.66	0.00	5659.84	0.012	0.01
39.00	0.00	5659.83	0.012	0.01
39.33	0.00	5659.82	0.012	0.01
39.66	0.00	5659.81	0.012	0.01
40.00	0.00	5659.81	0.011	0.01
40.33	0.00	5659.80	0.011	0.01

DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

40.66	0.00	5659.79	0.011	0.01
41.00	0.00	5659.79	0.011	0.01
41.33	0.00	5659.78	0.011	0.01
41.66	0.00	5659.77	0.011	0.01
42.00	0.00	5659.77	0.011	0.01
42.33	0.00	5659.76	0.010	0.00

PEAK DISCHARGE = 21.947 CFS - PEAK OCCURS AT HOUR 1.67
 MAXIMUM WATER SURFACE ELEVATION = 5662.375
 MAXIMUM STORAGE = 0.2144 AC-FT INCREMENTAL TIME= 0.033330HRS

*

*S COMPUTE HYD BASIN X4

COMPUTE NM HYD ID=4 HYDNO=104 AREA=0.00489 SQ MI
 PER A=22 PER B=23 PER C=38 PER D=17
 TP=.1667 HR MASS RAIN=-1

K = 0.090852HR TP = 0.166700HR K/TP RATIO = 0.545000 SHAPE CONSTANT, N = 7.106428
 UNIT PEAK = 2.6244 CFS UNIT VOLUME = 0.9958 B = 526.28 P60 = 1.9600
 AREA = 0.000831 SQ MI IA = 0.10000 INCHES INF = 0.04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.033330

K = 0.160265HR TP = 0.166700HR K/TP RATIO = 0.961396 SHAPE CONSTANT, N = 3.674880
 UNIT PEAK = 8.1048 CFS UNIT VOLUME = 0.9985 B = 332.88 P60 = 1.9600
 AREA = 0.004059 SQ MI IA = 0.47108 INCHES INF = 1.16904 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.033330

PRINT HYD ID=4 CODE=5

PARTIAL HYDROGRAPH 104.00

TIME	FLOW	TIME	FLOW	TIME	FLOW	TIME	FLOW	TIME	FLOW
HRS	CFS	HRS	CFS	HRS	CFS	HRS	CFS	HRS	CFS
0.000	0.0	4.999	0.0	9.999	0.0	14.998	0.0	19.998	0.0
0.167	0.0	5.166	0.0	10.166	0.0	15.165	0.0	20.165	0.0
0.333	0.0	5.333	0.0	10.332	0.0	15.332	0.0	20.331	0.0
0.500	0.0	5.499	0.0	10.499	0.0	15.498	0.0	20.498	0.0
0.667	0.0	5.666	0.0	10.666	0.0	15.665	0.0	20.665	0.0
0.833	0.1	5.833	0.0	10.832	0.0	15.832	0.0	20.831	0.0
1.000	0.2	5.999	0.0	10.999	0.0	15.998	0.0	20.998	0.0
1.167	0.3	6.166	0.0	11.166	0.0	16.165	0.0	21.165	0.0
1.333	1.2	6.333	0.0	11.332	0.0	16.332	0.0	21.331	0.0

DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

1.500	7.7	6.499	0.0	11.499	0.0	16.498	0.0	21.498	0.0
1.667	6.7	6.666	0.0	11.665	0.0	16.665	0.0	21.665	0.0
1.833	2.8	6.833	0.0	11.832	0.0	16.832	0.0	21.831	0.0
2.000	1.3	6.999	0.0	11.999	0.0	16.998	0.0	21.998	0.0
2.166	0.8	7.166	0.0	12.165	0.0	17.165	0.0	22.164	0.0
2.333	0.6	7.333	0.0	12.332	0.0	17.332	0.0	22.331	0.0
2.500	0.4	7.499	0.0	12.499	0.0	17.498	0.0	22.498	0.0
2.666	0.3	7.666	0.0	12.665	0.0	17.665	0.0	22.664	0.0
2.833	0.2	7.833	0.0	12.832	0.0	17.832	0.0	22.831	0.0
3.000	0.1	7.999	0.0	12.999	0.0	17.998	0.0	22.998	0.0
3.166	0.1	8.166	0.0	13.165	0.0	18.165	0.0	23.164	0.0
3.333	0.1	8.332	0.0	13.332	0.0	18.331	0.0	23.331	0.0
3.500	0.1	8.499	0.0	13.499	0.0	18.498	0.0	23.498	0.0
3.666	0.1	8.666	0.0	13.665	0.0	18.665	0.0	23.664	0.0
3.833	0.0	8.832	0.0	13.832	0.0	18.831	0.0	23.831	0.0
4.000	0.0	8.999	0.0	13.999	0.0	18.998	0.0	23.998	0.0
4.166	0.0	9.166	0.0	14.165	0.0	19.165	0.0	24.164	0.0
4.333	0.0	9.332	0.0	14.332	0.0	19.331	0.0	24.331	0.0
4.500	0.0	9.499	0.0	14.499	0.0	19.498	0.0	24.498	0.0
4.666	0.0	9.666	0.0	14.665	0.0	19.665	0.0	24.664	0.0
4.833	0.0	9.832	0.0	14.832	0.0	19.831	0.0		

RUNOFF VOLUME = 1.39790 INCHES = 0.3646 ACRE-FEET
 PEAK DISCHARGE RATE = 8.75 CFS AT 1.567 HOURS BASIN AREA = 0.0049 SQ. MI.

*S COMPUTE HYD BASIN X5

COMPUTE NM HYD ID=5 HYDNO=105 AREA=0.00272 SQ MI
 PER A=0 PER B=20 PER C=20 PER D=60
 TP=.1667 HR MASS RAIN=-1

K = 0.090852HR TP = 0.166700HR K/TP RATIO = 0.545000 SHAPE CONSTANT, N = 7.106428
 UNIT PEAK = 5.1523 CFS UNIT VOLUME = 0.9979 B = 526.28 P60 = 1.9600
 AREA = 0.001632 SQ MI IA = 0.10000 INCHES INF = 0.04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.033330

K = 0.149046HR TP = 0.166700HR K/TP RATIO = 0.894098 SHAPE CONSTANT, N = 3.965387
 UNIT PEAK = 2.3030 CFS UNIT VOLUME = 0.9944 B = 352.86 P60 = 1.9600
 AREA = 0.001088 SQ MI IA = 0.42500 INCHES INF = 1.04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.033330

DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

PRINT HYD

ID=5 CODE=5

PARTIAL HYDROGRAPH 105.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
0.000	0.0	4.999	0.1	9.999	0.1	14.998	0.1	19.998	0.1
0.167	0.0	5.166	0.1	10.166	0.1	15.165	0.1	20.165	0.1
0.333	0.0	5.333	0.1	10.332	0.1	15.332	0.1	20.331	0.1
0.500	0.0	5.499	0.1	10.499	0.1	15.498	0.1	20.498	0.1
0.667	0.1	5.666	0.1	10.666	0.1	15.665	0.1	20.665	0.1
0.833	0.3	5.833	0.1	10.832	0.1	15.832	0.1	20.831	0.1
1.000	0.4	5.999	0.1	10.999	0.1	15.998	0.1	20.998	0.1
1.167	0.6	6.166	0.1	11.166	0.1	16.165	0.1	21.165	0.1
1.333	1.4	6.333	0.1	11.332	0.1	16.332	0.1	21.331	0.1
1.500	5.8	6.499	0.1	11.499	0.1	16.498	0.1	21.498	0.1
1.667	4.8	6.666	0.1	11.665	0.1	16.665	0.1	21.665	0.1
1.833	2.1	6.833	0.1	11.832	0.1	16.832	0.1	21.831	0.1
2.000	1.1	6.999	0.1	11.999	0.1	16.998	0.1	21.998	0.1
2.166	0.8	7.166	0.1	12.165	0.1	17.165	0.1	22.164	0.1
2.333	0.5	7.333	0.1	12.332	0.1	17.332	0.1	22.331	0.1
2.500	0.3	7.499	0.1	12.499	0.1	17.498	0.1	22.498	0.1
2.666	0.2	7.666	0.1	12.665	0.1	17.665	0.1	22.664	0.1
2.833	0.1	7.833	0.1	12.832	0.1	17.832	0.1	22.831	0.1
3.000	0.1	7.999	0.1	12.999	0.1	17.998	0.1	22.998	0.1
3.166	0.1	8.166	0.1	13.165	0.1	18.165	0.1	23.164	0.1
3.333	0.1	8.332	0.1	13.332	0.1	18.331	0.1	23.331	0.1
3.500	0.1	8.499	0.1	13.499	0.1	18.498	0.1	23.498	0.1
3.666	0.1	8.666	0.1	13.665	0.1	18.665	0.1	23.664	0.1
3.833	0.1	8.832	0.1	13.832	0.1	18.831	0.1	23.831	0.1
4.000	0.1	8.999	0.1	13.999	0.1	18.998	0.1	23.998	0.1
4.166	0.1	9.166	0.1	14.165	0.1	19.165	0.1	24.164	0.0
4.333	0.1	9.332	0.1	14.332	0.1	19.331	0.1	24.331	0.0
4.500	0.1	9.499	0.1	14.499	0.1	19.498	0.1	24.498	0.0
4.666	0.0	9.666	0.1	14.665	0.1	19.665	0.1	24.664	0.0
4.833	0.0	9.832	0.1	14.832	0.1	19.831	0.1	24.831	0.0

RUNOFF VOLUME = 2.43357 INCHES = 0.3530 ACRE-FEET
 PEAK DISCHARGE RATE = 6.44 CFS AT 1.567 HOURS BASIN AREA = 0.0027 SQ. MI.

DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

*S COMPUTE HYD BASIN X6

COMPUTE NM HYD ID=6 HYDNO=106 AREA=0.00881 SQ MI
 PER A=0 PER B=22 PER C=10 PER D=68
 TP=.1667 HR MASS RAIN=-1

K = 0.090852HR TP = 0.166700HR K/TP RATIO = 0.545000 SHAPE CONSTANT, N = 7.106428
 UNIT PEAK = 18.913 CFS UNIT VOLUME = 0.9996 B = 526.28 P60 = 1.9600
 AREA = 0.005991 SQ MI IA = 0.10000 INCHES INF = 0.04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.033330

K = 0.154815HR TP = 0.166700HR K/TP RATIO = 0.928703 SHAPE CONSTANT, N = 3.809383
 UNIT PEAK = 5.7882 CFS UNIT VOLUME = 0.9979 B = 342.26 P60 = 1.9600
 AREA = 0.002819 SQ MI IA = 0.45312 INCHES INF = 1.11875 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.033330

PRINT HYD ID=6 CODE=5

PARTIAL HYDROGRAPH 106.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
0.000	0.0	5.166	0.2	10.332	0.2	15.498	0.2	20.665	0.2
0.167	0.0	5.333	0.2	10.499	0.2	15.665	0.2	20.831	0.2
0.333	0.0	5.499	0.2	10.666	0.2	15.832	0.2	20.998	0.2
0.500	0.0	5.666	0.2	10.832	0.2	15.998	0.2	21.165	0.2
0.667	0.3	5.833	0.2	10.999	0.2	16.165	0.2	21.331	0.2
0.833	1.0	5.999	0.2	11.166	0.2	16.332	0.2	21.498	0.2
1.000	1.4	6.166	0.2	11.332	0.2	16.498	0.2	21.665	0.2
1.167	2.2	6.333	0.2	11.499	0.2	16.665	0.2	21.831	0.2
1.333	5.0	6.499	0.2	11.665	0.2	16.832	0.2	21.998	0.2
1.500	19.1	6.666	0.2	11.832	0.2	16.998	0.2	22.164	0.2
1.667	15.7	6.833	0.2	11.999	0.2	17.165	0.2	22.331	0.2
1.833	7.2	6.999	0.2	12.165	0.2	17.332	0.2	22.498	0.2
2.000	3.9	7.166	0.2	12.332	0.2	17.498	0.2	22.664	0.2
2.166	2.6	7.333	0.2	12.499	0.2	17.665	0.2	22.831	0.2
2.333	1.8	7.499	0.2	12.665	0.2	17.832	0.2	22.998	0.2
2.500	1.2	7.666	0.2	12.832	0.2	17.998	0.2	23.164	0.2
2.666	0.7	7.833	0.2	12.999	0.2	18.165	0.2	23.331	0.2
2.833	0.5	7.999	0.2	13.165	0.2	18.331	0.2	23.498	0.2
3.000	0.4	8.166	0.2	13.332	0.2	18.498	0.2	23.664	0.2
3.166	0.3	8.332	0.2	13.499	0.2	18.665	0.2	23.831	0.2

DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

3.333	0.3	8.499	0.2	13.665	0.2	18.831	0.2	23.998	0.2
3.500	0.2	8.666	0.2	13.832	0.2	18.998	0.2	24.164	0.1
3.666	0.2	8.832	0.2	13.999	0.2	19.165	0.2	24.331	0.0
3.833	0.2	8.999	0.2	14.165	0.2	19.331	0.2	24.498	0.0
4.000	0.2	9.166	0.2	14.332	0.2	19.498	0.2	24.664	0.0
4.166	0.2	9.332	0.2	14.499	0.2	19.665	0.2	24.831	0.0
4.333	0.2	9.499	0.2	14.665	0.2	19.831	0.2	24.998	0.0
4.500	0.2	9.666	0.2	14.832	0.2	19.998	0.2	25.164	0.0
4.666	0.2	9.832	0.2	14.998	0.2	20.165	0.2		
4.833	0.2	9.999	0.2	15.165	0.2	20.331	0.2		
4.999	0.2	10.166	0.2	15.332	0.2	20.498	0.2		

RUNOFF VOLUME = 2.60186 INCHES = 1.2225 ACRE-FEET
 PEAK DISCHARGE RATE = 21.35 CFS AT 1.567 HOURS BASIN AREA = 0.0088 SQ. MI.

*S COMPUTE HYD BASIN P7A

COMPUTE NM HYD ID=7 HYDNO=107 AREA=0.01071 SQ MI
 PER A=0 PER B=10 PER C=35 PER D=55
 TP=.1667 HR MASS RAIN=-1

K = 0.090852HR TP = 0.166700HR K/TP RATIO = 0.545000 SHAPE CONSTANT, N = 7.106428
 UNIT PEAK = 18.596 CFS UNIT VOLUME = 0.9996 B = 526.28 P60 = 1.9600
 AREA = 0.005891 SQ MI IA = 0.10000 INCHES INF = 0.04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.033330

K = 0.140500HR TP = 0.166700HR K/TP RATIO = 0.842830 SHAPE CONSTANT, N = 4.226750
 UNIT PEAK = 10.698 CFS UNIT VOLUME = 0.9988 B = 370.01 P60 = 1.9600
 AREA = 0.004820 SQ MI IA = 0.38333 INCHES INF = 0.92333 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.033330

PRINT HYD ID=7 CODE=5

PARTIAL HYDROGRAPH 107.00

TIME	FLOW	TIME	FLOW	TIME	FLOW	TIME	FLOW	TIME	FLOW
HRS	CFS	HRS	CFS	HRS	CFS	HRS	CFS	HRS	CFS
0.000	0.0	5.166	0.2	10.332	0.2	15.498	0.2	20.665	0.2
0.167	0.0	5.333	0.2	10.499	0.2	15.665	0.2	20.831	0.2
0.333	0.0	5.499	0.2	10.666	0.2	15.832	0.2	20.998	0.2

DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

0.500	0.0	5.666	0.2	10.832	0.2	15.998	0.2	21.165	0.2
0.667	0.2	5.833	0.2	10.999	0.2	16.165	0.2	21.331	0.2
0.833	1.0	5.999	0.2	11.166	0.2	16.332	0.2	21.498	0.2
1.000	1.3	6.166	0.2	11.332	0.2	16.498	0.2	21.665	0.2
1.167	2.2	6.333	0.2	11.499	0.2	16.665	0.2	21.831	0.2
1.333	5.6	6.499	0.2	11.665	0.2	16.832	0.2	21.998	0.2
1.500	22.6	6.666	0.2	11.832	0.2	16.998	0.2	22.164	0.2
1.667	18.7	6.833	0.2	11.999	0.2	17.165	0.2	22.331	0.2
1.833	8.3	6.999	0.2	12.165	0.2	17.332	0.2	22.498	0.2
2.000	4.4	7.166	0.2	12.332	0.2	17.498	0.2	22.664	0.2
2.166	2.8	7.333	0.2	12.499	0.2	17.665	0.2	22.831	0.2
2.333	2.0	7.499	0.2	12.665	0.2	17.832	0.2	22.998	0.2
2.500	1.3	7.666	0.2	12.832	0.2	17.998	0.2	23.164	0.2
2.666	0.8	7.833	0.2	12.999	0.2	18.165	0.2	23.331	0.2
2.833	0.6	7.999	0.2	13.165	0.2	18.331	0.2	23.498	0.2
3.000	0.4	8.166	0.2	13.332	0.2	18.498	0.2	23.664	0.2
3.166	0.3	8.332	0.2	13.499	0.2	18.665	0.2	23.831	0.2
3.333	0.3	8.499	0.2	13.665	0.2	18.831	0.2	23.998	0.2
3.500	0.2	8.666	0.2	13.832	0.2	18.998	0.2	24.164	0.1
3.666	0.2	8.832	0.2	13.999	0.2	19.165	0.2	24.331	0.0
3.833	0.2	8.999	0.2	14.165	0.2	19.331	0.2	24.498	0.0
4.000	0.2	9.166	0.2	14.332	0.2	19.498	0.2	24.664	0.0
4.166	0.2	9.332	0.2	14.499	0.2	19.665	0.2	24.831	0.0
4.333	0.2	9.499	0.2	14.665	0.2	19.831	0.2	24.998	0.0
4.500	0.2	9.666	0.2	14.832	0.2	19.998	0.2	25.164	0.0
4.666	0.2	9.832	0.2	14.998	0.2	20.165	0.2		
4.833	0.2	9.999	0.2	15.165	0.2	20.331	0.2		
4.999	0.2	10.166	0.2	15.332	0.2	20.498	0.2		

RUNOFF VOLUME = 2.34984 INCHES = 1.3422 ACRE-FEET
PEAK DISCHARGE RATE = 25.29 CFS AT 1.567 HOURS BASIN AREA = 0.0107 SQ. MI.

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*S COMPUTE HYD BASIN P7B
COMPUTE NM HYD ID=8 HYDNO=108 AREA=0.00026 SQ MI
PER A=0 PER B=0 PER C=100 PER D=0
TP=.1667 HR MASS RAIN=-1

K = 0.133663HR TP = 0.166700HR K/TP RATIO = 0.801815 SHAPE CONSTANT, N = 4.466583
UNIT PEAK = 0.60074 CFS UNIT VOLUME = 0.9782 B = 385.17 P60 = 1.9600
AREA = 0.000260 SQ MI IA = 0.35000 INCHES INF = 0.83000 INCHES PER HOUR

DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.033330

PRINT HYD ID=8 CODE=5

PARTIAL HYDROGRAPH 108.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
0.000	0.0	0.667	0.0	1.333	0.1	2.000	0.1	2.666	0.0
0.167	0.0	0.833	0.0	1.500	0.5	2.166	0.0		
0.333	0.0	1.000	0.0	1.667	0.4	2.333	0.0		
0.500	0.0	1.167	0.0	1.833	0.2	2.500	0.0		

RUNOFF VOLUME = 1.19783 INCHES = 0.0166 ACRE-FEET
 PEAK DISCHARGE RATE = 0.51 CFS AT 1.567 HOURS BASIN AREA = 0.0003 SQ. MI.

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*S COMPUTE HYD BASIN P7C

COMPUTE NM HYD ID=9 HYDNO=109 AREA=0.00039 SQ MI
 PER A=0 PER B=0 PER C=100 PER D=0
 TP=.1667 HR MASS RAIN=-1

K = 0.133663HR TP = 0.166700HR K/TP RATIO = 0.801815 SHAPE CONSTANT, N = 4.466583
 UNIT PEAK = 0.90111 CFS UNIT VOLUME = 0.9856 B = 385.17 P60 = 1.9600
 AREA = 0.000390 SQ MI IA = 0.35000 INCHES INF = 0.83000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.033330

PRINT HYD ID=9 CODE=5

PARTIAL HYDROGRAPH 109.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
0.000	0.0	0.667	0.0	1.333	0.1	2.000	0.1	2.666	0.0
0.167	0.0	0.833	0.0	1.500	0.7	2.166	0.1	2.833	0.0
0.333	0.0	1.000	0.0	1.667	0.6	2.333	0.0		
0.500	0.0	1.167	0.0	1.833	0.2	2.500	0.0		

RUNOFF VOLUME = 1.19783 INCHES = 0.0249 ACRE-FEET
 PEAK DISCHARGE RATE = 0.76 CFS AT 1.567 HOURS BASIN AREA = 0.0004 SQ. MI.

DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

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*S COMPUTE HYD BASIN P8

COMPUTE NM HYD ID=10 HYDNO=110 AREA=0.00053 SQ MI
PER A=0 PER B=0 PER C=70 PER D=30
TP=.1667 HR MASS RAIN=-1

K = 0.090852HR TP = 0.166700HR K/TP RATIO = 0.545000 SHAPE CONSTANT, N = 7.106428
UNIT PEAK = 0.50197 CFS UNIT VOLUME = 0.9756 B = 526.28 P60 = 1.9600
AREA = 0.000159 SQ MI IA = 0.10000 INCHES INF = 0.04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.033330

K = 0.133663HR TP = 0.166700HR K/TP RATIO = 0.801815 SHAPE CONSTANT, N = 4.466583
UNIT PEAK = 0.85721 CFS UNIT VOLUME = 0.9844 B = 385.17 P60 = 1.9600
AREA = 0.000371 SQ MI IA = 0.35000 INCHES INF = 0.83000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.033330

PRINT HYD ID=10 CODE=5

PARTIAL HYDROGRAPH 110.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
0.000	0.0	4.999	0.0	9.999	0.0	14.998	0.0	19.998	0.0
0.167	0.0	5.166	0.0	10.166	0.0	15.165	0.0	20.165	0.0
0.333	0.0	5.333	0.0	10.332	0.0	15.332	0.0	20.331	0.0
0.500	0.0	5.499	0.0	10.499	0.0	15.498	0.0	20.498	0.0
0.667	0.0	5.666	0.0	10.666	0.0	15.665	0.0	20.665	0.0
0.833	0.0	5.833	0.0	10.832	0.0	15.832	0.0	20.831	0.0
1.000	0.0	5.999	0.0	10.999	0.0	15.998	0.0	20.998	0.0
1.167	0.1	6.166	0.0	11.166	0.0	16.165	0.0	21.165	0.0
1.333	0.2	6.333	0.0	11.332	0.0	16.332	0.0	21.331	0.0
1.500	1.1	6.499	0.0	11.499	0.0	16.498	0.0	21.498	0.0
1.667	0.9	6.666	0.0	11.665	0.0	16.665	0.0	21.665	0.0
1.833	0.4	6.833	0.0	11.832	0.0	16.832	0.0	21.831	0.0
2.000	0.2	6.999	0.0	11.999	0.0	16.998	0.0	21.998	0.0
2.166	0.1	7.166	0.0	12.165	0.0	17.165	0.0	22.164	0.0
2.333	0.1	7.333	0.0	12.332	0.0	17.332	0.0	22.331	0.0
2.500	0.0	7.499	0.0	12.499	0.0	17.498	0.0	22.498	0.0
2.666	0.0	7.666	0.0	12.665	0.0	17.665	0.0	22.664	0.0
2.833	0.0	7.833	0.0	12.832	0.0	17.832	0.0	22.831	0.0

DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

3.000	0.0	7.999	0.0	12.999	0.0	17.998	0.0	22.998	0.0
3.166	0.0	8.166	0.0	13.165	0.0	18.165	0.0	23.164	0.0
3.333	0.0	8.332	0.0	13.332	0.0	18.331	0.0	23.331	0.0
3.500	0.0	8.499	0.0	13.499	0.0	18.498	0.0	23.498	0.0
3.666	0.0	8.666	0.0	13.665	0.0	18.665	0.0	23.664	0.0
3.833	0.0	8.832	0.0	13.832	0.0	18.831	0.0	23.831	0.0
4.000	0.0	8.999	0.0	13.999	0.0	18.998	0.0	23.998	0.0
4.166	0.0	9.166	0.0	14.165	0.0	19.165	0.0	24.164	0.0
4.333	0.0	9.332	0.0	14.332	0.0	19.331	0.0		
4.500	0.0	9.499	0.0	14.499	0.0	19.498	0.0		
4.666	0.0	9.666	0.0	14.665	0.0	19.665	0.0		
4.833	0.0	9.832	0.0	14.832	0.0	19.831	0.0		

RUNOFF VOLUME = 1.84103 INCHES = 0.0520 ACRE-FEET
 PEAK DISCHARGE RATE = 1.18 CFS AT 1.567 HOURS BASIN AREA = 0.0005 SQ. MI.

*
 ADD HYD ID=22 HYDNO=201
 ID=33 ID=4
 PRINT HYD ID=22 CODE=5

PARTIAL HYDROGRAPH 201.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
0.000	0.0	16.665	0.1	33.330	0.0	49.995	0.0	66.660	0.0
0.167	0.0	16.832	0.1	33.497	0.0	50.162	0.0	66.826	0.0
0.333	0.0	16.998	0.1	33.663	0.0	50.328	0.0	66.993	0.0
0.500	0.0	17.165	0.1	33.830	0.0	50.495	0.0	67.160	0.0
0.667	0.0	17.332	0.1	33.997	0.0	50.662	0.0	67.326	0.0
0.833	0.1	17.498	0.1	34.163	0.0	50.828	0.0	67.493	0.0
1.000	0.2	17.665	0.1	34.330	0.0	50.995	0.0	67.660	0.0
1.167	0.8	17.832	0.1	34.497	0.0	51.161	0.0	67.826	0.0
1.333	3.9	17.998	0.1	34.663	0.0	51.328	0.0	67.993	0.0
1.500	24.0	18.165	0.1	34.830	0.0	51.495	0.0	68.160	0.0
1.667	28.6	18.331	0.1	34.997	0.0	51.661	0.0	68.326	0.0
1.833	21.1	18.498	0.1	35.163	0.0	51.828	0.0	68.493	0.0
2.000	8.1	18.665	0.1	35.330	0.0	51.995	0.0	68.660	0.0
2.166	4.1	18.831	0.1	35.496	0.0	52.161	0.0	68.826	0.0
2.333	2.8	18.998	0.1	35.663	0.0	52.328	0.0	68.993	0.0
2.500	2.0	19.165	0.1	35.830	0.0	52.495	0.0	69.160	0.0

DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

2.666	1.3	19.331	0.1	35.996	0.0	52.661	0.0	69.326	0.0
2.833	0.9	19.498	0.1	36.163	0.0	52.828	0.0	69.493	0.0
3.000	0.7	19.665	0.1	36.330	0.0	52.995	0.0	69.660	0.0
3.166	0.5	19.831	0.1	36.496	0.0	53.161	0.0	69.826	0.0
3.333	0.4	19.998	0.1	36.663	0.0	53.328	0.0	69.993	0.0
3.500	0.3	20.165	0.1	36.830	0.0	53.495	0.0	70.159	0.0
3.666	0.2	20.331	0.1	36.996	0.0	53.661	0.0	70.326	0.0
3.833	0.2	20.498	0.1	37.163	0.0	53.828	0.0	70.493	0.0
4.000	0.2	20.665	0.1	37.330	0.0	53.995	0.0	70.659	0.0
4.166	0.1	20.831	0.1	37.496	0.0	54.161	0.0	70.826	0.0
4.333	0.1	20.998	0.1	37.663	0.0	54.328	0.0	70.993	0.0
4.500	0.1	21.165	0.1	37.830	0.0	54.494	0.0	71.159	0.0
4.666	0.1	21.331	0.1	37.996	0.0	54.661	0.0	71.326	0.0
4.833	0.1	21.498	0.1	38.163	0.0	54.828	0.0	71.493	0.0
4.999	0.1	21.665	0.1	38.330	0.0	54.994	0.0	71.659	0.0
5.166	0.1	21.831	0.1	38.496	0.0	55.161	0.0	71.826	0.0
5.333	0.1	21.998	0.1	38.663	0.0	55.328	0.0	71.993	0.0
5.499	0.1	22.164	0.1	38.829	0.0	55.494	0.0	72.159	0.0
5.666	0.1	22.331	0.1	38.996	0.0	55.661	0.0	72.326	0.0
5.833	0.1	22.498	0.1	39.163	0.0	55.828	0.0	72.493	0.0
5.999	0.1	22.664	0.1	39.329	0.0	55.994	0.0	72.659	0.0
6.166	0.1	22.831	0.1	39.496	0.0	56.161	0.0	72.826	0.0
6.333	0.1	22.998	0.1	39.663	0.0	56.328	0.0	72.992	0.0
6.499	0.1	23.164	0.1	39.829	0.0	56.494	0.0	73.159	0.0
6.666	0.1	23.331	0.1	39.996	0.0	56.661	0.0	73.326	0.0
6.833	0.1	23.498	0.1	40.163	0.0	56.828	0.0	73.492	0.0
6.999	0.1	23.664	0.1	40.329	0.0	56.994	0.0	73.659	0.0
7.166	0.1	23.831	0.1	40.496	0.0	57.161	0.0	73.826	0.0
7.333	0.1	23.998	0.1	40.663	0.0	57.327	0.0	73.992	0.0
7.499	0.1	24.164	0.1	40.829	0.0	57.494	0.0	74.159	0.0
7.666	0.1	24.331	0.0	40.996	0.0	57.661	0.0	74.326	0.0
7.833	0.1	24.498	0.0	41.163	0.0	57.827	0.0	74.492	0.0
7.999	0.1	24.664	0.0	41.329	0.0	57.994	0.0	74.659	0.0
8.166	0.1	24.831	0.0	41.496	0.0	58.161	0.0	74.826	0.0
8.332	0.1	24.998	0.0	41.662	0.0	58.327	0.0	74.992	0.0
8.499	0.1	25.164	0.0	41.829	0.0	58.494	0.0	75.159	0.0
8.666	0.1	25.331	0.0	41.996	0.0	58.661	0.0	75.326	0.0
8.832	0.1	25.497	0.0	42.162	0.0	58.827	0.0	75.492	0.0
8.999	0.1	25.664	0.0	42.329	0.0	58.994	0.0	75.659	0.0
9.166	0.1	25.831	0.0	42.496	0.0	59.161	0.0	75.826	0.0
9.332	0.1	25.997	0.0	42.662	0.0	59.327	0.0	75.992	0.0
9.499	0.1	26.164	0.0	42.829	0.0	59.494	0.0	76.159	0.0
9.666	0.1	26.331	0.0	42.996	0.0	59.661	0.0	76.325	0.0

DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

9.832	0.1	26.497	0.0	43.162	0.0	59.827	0.0	76.492	0.0
9.999	0.1	26.664	0.0	43.329	0.0	59.994	0.0	76.659	0.0
10.166	0.1	26.831	0.0	43.496	0.0	60.161	0.0	76.825	0.0
10.332	0.1	26.997	0.0	43.662	0.0	60.327	0.0	76.992	0.0
10.499	0.1	27.164	0.0	43.829	0.0	60.494	0.0	77.159	0.0
10.666	0.1	27.331	0.0	43.996	0.0	60.660	0.0	77.325	0.0
10.832	0.1	27.497	0.0	44.162	0.0	60.827	0.0	77.492	0.0
10.999	0.1	27.664	0.0	44.329	0.0	60.994	0.0	77.659	0.0
11.166	0.1	27.831	0.0	44.496	0.0	61.160	0.0	77.825	0.0
11.332	0.1	27.997	0.0	44.662	0.0	61.327	0.0	77.992	0.0
11.499	0.1	28.164	0.0	44.829	0.0	61.494	0.0	78.159	0.0
11.665	0.1	28.331	0.0	44.995	0.0	61.660	0.0	78.325	0.0
11.832	0.1	28.497	0.0	45.162	0.0	61.827	0.0	78.492	0.0
11.999	0.1	28.664	0.0	45.329	0.0	61.994	0.0	78.659	0.0
12.165	0.1	28.830	0.0	45.495	0.0	62.160	0.0	78.825	0.0
12.332	0.1	28.997	0.0	45.662	0.0	62.327	0.0	78.992	0.0
12.499	0.1	29.164	0.0	45.829	0.0	62.494	0.0	79.158	0.0
12.665	0.1	29.330	0.0	45.995	0.0	62.660	0.0	79.325	0.0
12.832	0.1	29.497	0.0	46.162	0.0	62.827	0.0	79.492	0.0
12.999	0.1	29.664	0.0	46.329	0.0	62.994	0.0	79.658	0.0
13.165	0.1	29.830	0.0	46.495	0.0	63.160	0.0	79.825	0.0
13.332	0.1	29.997	0.0	46.662	0.0	63.327	0.0	79.992	0.0
13.499	0.1	30.164	0.0	46.829	0.0	63.493	0.0	80.158	0.0
13.665	0.1	30.330	0.0	46.995	0.0	63.660	0.0	80.325	0.0
13.832	0.1	30.497	0.0	47.162	0.0	63.827	0.0	80.492	0.0
13.999	0.1	30.664	0.0	47.329	0.0	63.993	0.0	80.658	0.0
14.165	0.1	30.830	0.0	47.495	0.0	64.160	0.0	80.825	0.0
14.332	0.1	30.997	0.0	47.662	0.0	64.327	0.0	80.992	0.0
14.499	0.1	31.164	0.0	47.829	0.0	64.493	0.0	81.158	0.0
14.665	0.1	31.330	0.0	47.995	0.0	64.660	0.0	81.325	0.0
14.832	0.1	31.497	0.0	48.162	0.0	64.827	0.0	81.492	0.0
14.998	0.1	31.664	0.0	48.328	0.0	64.993	0.0	81.658	0.0
15.165	0.1	31.830	0.0	48.495	0.0	65.160	0.0	81.825	0.0
15.332	0.1	31.997	0.0	48.662	0.0	65.327	0.0	81.992	0.0
15.498	0.1	32.164	0.0	48.828	0.0	65.493	0.0	82.158	0.0
15.665	0.1	32.330	0.0	48.995	0.0	65.660	0.0	82.325	0.0
15.832	0.1	32.497	0.0	49.162	0.0	65.827	0.0	82.491	0.0
15.998	0.1	32.663	0.0	49.328	0.0	65.993	0.0	82.658	0.0
16.165	0.1	32.830	0.0	49.495	0.0	66.160	0.0	82.825	0.0
16.332	0.1	32.997	0.0	49.662	0.0	66.327	0.0	82.991	0.0
16.498	0.1	33.163	0.0	49.828	0.0	66.493	0.0	83.158	0.0

RUNOFF VOLUME = 1.39606 INCHES = 1.6157 ACRE-FEET

DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

PEAK DISCHARGE RATE = 29.44 CFS AT 1.600 HOURS BASIN AREA = 0.0217 SQ. MI.

*

STORE RATING CURVE CID=1 VS NO=-15

ELEV (FT)	AREA (SQ FT)	FLOW (CFS)
100	0.0	0.0
100.02	0.117	0.02
100.1	0.614	2.160
100.2	1.350	7.513
100.3	2.160	15.17
100.4	3.040	25.21
100.5	4.00	37.61

COMPUTED TOP WIDTHS ARE:

5.779	5.923	6.501	8.219	7.980
9.620	9.580	9.541	9.501	9.461
9.421	9.382	9.342	9.302	9.263
9.223	9.183	9.143	9.104	9.064

*

ROUTE MCUNGE ID=34 HYD NO=204 INFLOW ID=22 DT=0.01
LENGTH=1000 FT NS=0 SLOPE=0.03

INFLOW END=2497

TABLE PTS= 20

DT= 0.010000

QMED= 14.72 CKMED= 9.4531

WIDTH MED= 7.99

NREACH= 6 DX= 166.67

DEPTH (FT)	AREA (SQ FT)	Q (CFS)	TRAVEL TIME(HR)	WIDTH (FT)	ck (FPS)	VEL (FPS)	C	D	C1	C2	C3	Q-M (CFS)	C1-M	C2-M	C3-M
0.00	0.0	0.0	2.011	5.8	4.63	0.11	1.000	0.000	1.000	0.000	0.000	0.0	1.000	0.000	0.000
0.02	0.1	0.0	1.625	5.9	4.63	0.17	1.000	0.000	1.000	0.000	0.000	0.0	1.000	0.000	0.000
0.10	0.6	2.2	0.079	6.5	7.43	3.52	1.605	0.009	0.993	0.235	-0.228	0.5	0.998	0.052	-0.050
0.20	1.4	7.5	0.050	8.2	8.35	5.57	1.804	0.022	0.985	0.292	-0.277	4.4	0.987	0.225	-0.212
0.30	2.2	15.2	0.040	8.0	10.87	7.02	2.348	0.035	0.979	0.409	-0.388	11.1	0.981	0.350	-0.331
0.40	3.0	25.2	0.033	9.6	11.93	8.29	2.576	0.044	0.976	0.448	-0.423	19.9	0.977	0.428	-0.405
0.50	4.0	37.6	0.030	9.6	14.70	9.40	3.175	0.053	0.975	0.527	-0.502	31.2	0.974	0.479	-0.453
0.60	5.0	53.8	0.026	9.5	18.08	10.85	3.905	0.062	0.975	0.597	-0.572	45.4	0.976	0.575	-0.551
0.70	5.9	72.0	0.023	9.5	20.32	12.19	4.390	0.075	0.973	0.634	-0.607	62.6	0.974	0.617	-0.591
0.80	6.9	92.3	0.021	9.5	22.44	13.47	4.848	0.087	0.971	0.663	-0.634	81.9	0.972	0.649	-0.621
0.90	7.8	114.5	0.019	9.4	24.46	14.68	5.284	0.099	0.969	0.687	-0.656	103.2	0.970	0.675	-0.645
1.00	8.7	138.4	0.018	9.4	26.39	15.83	5.700	0.112	0.967	0.706	-0.674	126.2	0.968	0.697	-0.665
1.10	9.7	164.0	0.016	9.3	28.24	16.94	6.100	0.124	0.966	0.723	-0.689	151.0	0.966	0.715	-0.681

DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

1.20	10.6	191.1	0.015	9.3	30.03	18.02	6.486	0.137	0.964	0.738	-0.702	177.3	0.965	0.731	-0.695
1.30	11.5	219.8	0.015	9.3	31.75	19.05	6.859	0.149	0.963	0.750	-0.713	205.3	0.963	0.744	-0.708
1.40	12.5	249.9	0.014	9.2	33.43	20.06	7.221	0.162	0.961	0.761	-0.723	234.7	0.962	0.756	-0.718
1.50	13.4	281.4	0.013	9.2	35.05	21.03	7.572	0.175	0.960	0.771	-0.731	265.5	0.961	0.767	-0.727
1.60	14.3	314.3	0.013	9.1	36.64	21.98	7.914	0.188	0.959	0.780	-0.739	297.7	0.959	0.776	-0.735
1.70	15.2	348.4	0.012	9.1	38.18	22.91	8.247	0.200	0.958	0.788	-0.746	331.2	0.958	0.784	-0.743
1.80	16.1	383.8	0.012	9.1	39.73	23.81	8.581	0.213	0.956	0.796	-0.752	365.9	0.957	0.792	-0.749

Hydrograph incremental time change from DT= 0.033330 hours to DT= 0.010000 hours

MAXIMUM NO. ITERATIONS FOR SOLUTION (KKMAX) = 2 OCCURRED 832 TIMES. AVERAGE NUMBER ITERATIONS = 1.0351

Equations solved using the Ponce correction to C2

Hydrograph incremental time change from DT= 0.010000 hours to DT= 0.033330 hours

*

ADD HYD ID=23 HYDNO=202

ID=34 ID=10

PRINT HYD ID=23 CODE=5

PARTIAL HYDROGRAPH 202.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
0.000	0.0	8.166	0.1	16.332	0.1	24.498	0.0	32.663	0.0
0.167	0.0	8.332	0.1	16.498	0.1	24.664	0.0	32.830	0.0
0.333	0.0	8.499	0.1	16.665	0.1	24.831	0.0	32.997	0.0
0.500	0.0	8.666	0.1	16.832	0.1	24.998	0.0	33.163	0.0
0.667	0.0	8.832	0.1	16.998	0.1	25.164	0.0	33.330	0.0
0.833	0.1	8.999	0.1	17.165	0.1	25.331	0.0	33.497	0.0
1.000	0.2	9.166	0.1	17.332	0.1	25.497	0.0	33.663	0.0
1.167	0.3	9.332	0.1	17.498	0.1	25.664	0.0	33.830	0.0
1.333	2.9	9.499	0.1	17.665	0.1	25.831	0.0	33.997	0.0
1.500	22.3	9.666	0.1	17.832	0.1	25.997	0.0	34.163	0.0
1.667	30.0	9.832	0.1	17.998	0.1	26.164	0.0	34.330	0.0
1.833	22.9	9.999	0.1	18.165	0.1	26.331	0.0	34.497	0.0
2.000	10.4	10.166	0.1	18.331	0.1	26.497	0.0	34.663	0.0
2.166	4.7	10.332	0.1	18.498	0.1	26.664	0.0	34.830	0.0
2.333	3.1	10.499	0.1	18.665	0.1	26.831	0.0	34.997	0.0
2.500	2.2	10.666	0.1	18.831	0.1	26.997	0.0	35.163	0.0
2.666	1.5	10.832	0.1	18.998	0.1	27.164	0.0	35.330	0.0
2.833	1.0	10.999	0.1	19.165	0.1	27.331	0.0	35.496	0.0
3.000	0.7	11.166	0.1	19.331	0.1	27.497	0.0	35.663	0.0
3.166	0.5	11.332	0.1	19.498	0.1	27.664	0.0	35.830	0.0
3.333	0.4	11.499	0.1	19.665	0.1	27.831	0.0	35.996	0.0
3.500	0.3	11.665	0.1	19.831	0.1	27.997	0.0	36.163	0.0
3.666	0.3	11.832	0.1	19.998	0.1	28.164	0.0	36.330	0.0

DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

3.833	0.2	11.999	0.1	20.165	0.1	28.331	0.0	36.496	0.0
4.000	0.2	12.165	0.1	20.331	0.1	28.497	0.0	36.663	0.0
4.166	0.2	12.332	0.1	20.498	0.1	28.664	0.0	36.830	0.0
4.333	0.1	12.499	0.1	20.665	0.1	28.830	0.0	36.996	0.0
4.500	0.1	12.665	0.1	20.831	0.1	28.997	0.0	37.163	0.0
4.666	0.1	12.832	0.1	20.998	0.1	29.164	0.0	37.330	0.0
4.833	0.1	12.999	0.1	21.165	0.1	29.330	0.0	37.496	0.0
4.999	0.1	13.165	0.1	21.331	0.1	29.497	0.0	37.663	0.0
5.166	0.1	13.332	0.1	21.498	0.1	29.664	0.0	37.830	0.0
5.333	0.1	13.499	0.1	21.665	0.1	29.830	0.0	37.996	0.0
5.499	0.1	13.665	0.1	21.831	0.1	29.997	0.0	38.163	0.0
5.666	0.1	13.832	0.1	21.998	0.1	30.164	0.0	38.330	0.0
5.833	0.1	13.999	0.1	22.164	0.1	30.330	0.0	38.496	0.0
5.999	0.1	14.165	0.1	22.331	0.1	30.497	0.0	38.663	0.0
6.166	0.1	14.332	0.1	22.498	0.1	30.664	0.0	38.829	0.0
6.333	0.1	14.499	0.1	22.664	0.1	30.830	0.0	38.996	0.0
6.499	0.1	14.665	0.1	22.831	0.1	30.997	0.0	39.163	0.0
6.666	0.1	14.832	0.1	22.998	0.1	31.164	0.0	39.329	0.0
6.833	0.1	14.998	0.1	23.164	0.1	31.330	0.0	39.496	0.0
6.999	0.1	15.165	0.1	23.331	0.1	31.497	0.0	39.663	0.0
7.166	0.1	15.332	0.1	23.498	0.1	31.664	0.0	39.829	0.0
7.333	0.1	15.498	0.1	23.664	0.1	31.830	0.0	39.996	0.0
7.499	0.1	15.665	0.1	23.831	0.1	31.997	0.0		
7.666	0.1	15.832	0.1	23.998	0.1	32.164	0.0		
7.833	0.1	15.998	0.1	24.164	0.1	32.330	0.0		
7.999	0.1	16.165	0.1	24.331	0.0	32.497	0.0		

RUNOFF VOLUME = 1.39872 INCHES = 1.6583 ACRE-FEET
 PEAK DISCHARGE RATE = 30.40 CFS AT 1.633 HOURS BASIN AREA = 0.0222 SQ. MI.

*
 ADD HYD ID=24 HYDNO=203
 ID=23 ID=8
 PRINT HYD ID=24 CODE=5

PARTIAL HYDROGRAPH 203.00

TIME	FLOW	TIME	FLOW	TIME	FLOW	TIME	FLOW	TIME	FLOW
HRS	CFS	HRS	CFS	HRS	CFS	HRS	CFS	HRS	CFS
0.000	0.0	8.166	0.1	16.332	0.1	24.498	0.0	32.663	0.0
0.167	0.0	8.332	0.1	16.498	0.1	24.664	0.0	32.830	0.0

DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

0.333	0.0	8.499	0.1	16.665	0.1	24.831	0.0	32.997	0.0
0.500	0.0	8.666	0.1	16.832	0.1	24.998	0.0	33.163	0.0
0.667	0.0	8.832	0.1	16.998	0.1	25.164	0.0	33.330	0.0
0.833	0.1	8.999	0.1	17.165	0.1	25.331	0.0	33.497	0.0
1.000	0.2	9.166	0.1	17.332	0.1	25.497	0.0	33.663	0.0
1.167	0.3	9.332	0.1	17.498	0.1	25.664	0.0	33.830	0.0
1.333	3.0	9.499	0.1	17.665	0.1	25.831	0.0	33.997	0.0
1.500	22.8	9.666	0.1	17.832	0.1	25.997	0.0	34.163	0.0
1.667	30.4	9.832	0.1	17.998	0.1	26.164	0.0	34.330	0.0
1.833	23.0	9.999	0.1	18.165	0.1	26.331	0.0	34.497	0.0
2.000	10.4	10.166	0.1	18.331	0.1	26.497	0.0	34.663	0.0
2.166	4.8	10.332	0.1	18.498	0.1	26.664	0.0	34.830	0.0
2.333	3.2	10.499	0.1	18.665	0.1	26.831	0.0	34.997	0.0
2.500	2.2	10.666	0.1	18.831	0.1	26.997	0.0	35.163	0.0
2.666	1.5	10.832	0.1	18.998	0.1	27.164	0.0	35.330	0.0
2.833	1.0	10.999	0.1	19.165	0.1	27.331	0.0	35.496	0.0
3.000	0.7	11.166	0.1	19.331	0.1	27.497	0.0	35.663	0.0
3.166	0.5	11.332	0.1	19.498	0.1	27.664	0.0	35.830	0.0
3.333	0.4	11.499	0.1	19.665	0.1	27.831	0.0	35.996	0.0
3.500	0.3	11.665	0.1	19.831	0.1	27.997	0.0	36.163	0.0
3.666	0.3	11.832	0.1	19.998	0.1	28.164	0.0	36.330	0.0
3.833	0.2	11.999	0.1	20.165	0.1	28.331	0.0	36.496	0.0
4.000	0.2	12.165	0.1	20.331	0.1	28.497	0.0	36.663	0.0
4.166	0.2	12.332	0.1	20.498	0.1	28.664	0.0	36.830	0.0
4.333	0.1	12.499	0.1	20.665	0.1	28.830	0.0	36.996	0.0
4.500	0.1	12.665	0.1	20.831	0.1	28.997	0.0	37.163	0.0
4.666	0.1	12.832	0.1	20.998	0.1	29.164	0.0	37.330	0.0
4.833	0.1	12.999	0.1	21.165	0.1	29.330	0.0	37.496	0.0
4.999	0.1	13.165	0.1	21.331	0.1	29.497	0.0	37.663	0.0
5.166	0.1	13.332	0.1	21.498	0.1	29.664	0.0	37.830	0.0
5.333	0.1	13.499	0.1	21.665	0.1	29.830	0.0	37.996	0.0
5.499	0.1	13.665	0.1	21.831	0.1	29.997	0.0	38.163	0.0
5.666	0.1	13.832	0.1	21.998	0.1	30.164	0.0	38.330	0.0
5.833	0.1	13.999	0.1	22.164	0.1	30.330	0.0	38.496	0.0
5.999	0.1	14.165	0.1	22.331	0.1	30.497	0.0	38.663	0.0
6.166	0.1	14.332	0.1	22.498	0.1	30.664	0.0	38.829	0.0
6.333	0.1	14.499	0.1	22.664	0.1	30.830	0.0	38.996	0.0
6.499	0.1	14.665	0.1	22.831	0.1	30.997	0.0	39.163	0.0
6.666	0.1	14.832	0.1	22.998	0.1	31.164	0.0	39.329	0.0
6.833	0.1	14.998	0.1	23.164	0.1	31.330	0.0	39.496	0.0
6.999	0.1	15.165	0.1	23.331	0.1	31.497	0.0	39.663	0.0
7.166	0.1	15.332	0.1	23.498	0.1	31.664	0.0	39.829	0.0
7.333	0.1	15.498	0.1	23.664	0.1	31.830	0.0	39.996	0.0

DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

7.499	0.1	15.665	0.1	23.831	0.1	31.997	0.0
7.666	0.1	15.832	0.1	23.998	0.1	32.164	0.0
7.833	0.1	15.998	0.1	24.164	0.1	32.330	0.0
7.999	0.1	16.165	0.1	24.331	0.0	32.497	0.0

RUNOFF VOLUME = 1.39639 INCHES = 1.6749 ACRE-FEET
 PEAK DISCHARGE RATE = 30.85 CFS AT 1.633 HOURS BASIN AREA = 0.0225 SQ. MI.

*

ROUTE RESERVOIR ID=38 HYD=301 INFLOW ID=24 CODE=10
 OUTFLOW STORAGE ELEV
 (CFS) (AC-FT) (FT)
 0.00 0.0000 5636.9
 0.01 0.0010 5637
 0.02 0.0113 5637.5
 0.03 0.0282 5638
 9.30 0.0519 5638.5
 17.40 0.0828 5639
 30.00 0.1211 5639.5
 30.20 0.1674 5640
 30.40 0.2709 5641
 PRINT HYD ID=30 CODE=2

* * * * *

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
0.00	0.00	5636.90	0.000	0.00
0.33	0.00	5636.90	0.000	0.00
0.67	0.01	5636.90	0.000	0.00
1.00	0.21	5637.11	0.003	0.01
1.33	2.96	5637.92	0.025	0.03
1.67	30.36	5639.51	0.122	30.00
2.00	10.45	5638.80	0.071	14.24
2.33	3.16	5638.18	0.037	3.40
2.67	1.47	5638.08	0.032	1.59
3.00	0.73	5638.04	0.030	0.78
3.33	0.41	5638.02	0.029	0.43
3.67	0.26	5638.01	0.029	0.27

DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

4.00	0.19	5638.01	0.029	0.19
4.33	0.14	5638.01	0.028	0.15
4.67	0.13	5638.01	0.028	0.13
5.00	0.12	5638.00	0.028	0.12
5.33	0.12	5638.00	0.028	0.12
5.67	0.12	5638.00	0.028	0.12
6.00	0.13	5638.01	0.028	0.13
6.33	0.13	5638.01	0.028	0.13
6.67	0.13	5638.01	0.028	0.13
7.00	0.13	5638.01	0.028	0.13
7.33	0.13	5638.01	0.028	0.13
7.67	0.13	5638.01	0.028	0.13
8.00	0.13	5638.01	0.028	0.13
8.33	0.13	5638.01	0.028	0.13
8.67	0.13	5638.01	0.028	0.13
9.00	0.13	5638.01	0.028	0.13
9.33	0.13	5638.01	0.028	0.13
9.67	0.13	5638.01	0.028	0.13
10.00	0.13	5638.01	0.028	0.13
10.33	0.13	5638.01	0.028	0.13
10.67	0.13	5638.01	0.028	0.13
11.00	0.13	5638.01	0.028	0.13
11.33	0.13	5638.01	0.028	0.13
11.67	0.13	5638.01	0.028	0.13
12.00	0.13	5638.01	0.028	0.13
12.33	0.13	5638.01	0.028	0.13
12.67	0.13	5638.01	0.028	0.13
13.00	0.13	5638.01	0.028	0.13
13.33	0.13	5638.01	0.028	0.13
13.67	0.13	5638.01	0.028	0.13
14.00	0.13	5638.01	0.028	0.13
14.33	0.13	5638.01	0.028	0.13
14.67	0.13	5638.01	0.028	0.13
15.00	0.13	5638.01	0.028	0.13
15.33	0.13	5638.01	0.028	0.13
15.67	0.13	5638.01	0.028	0.13
16.00	0.13	5638.01	0.028	0.13
16.33	0.13	5638.01	0.028	0.13
16.67	0.13	5638.01	0.028	0.13
17.00	0.13	5638.01	0.028	0.13
17.33	0.13	5638.01	0.028	0.13
17.66	0.13	5638.01	0.028	0.13
18.00	0.13	5638.01	0.028	0.13

DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

18.33	0.13	5638.01	0.028	0.13
TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
18.66	0.13	5638.01	0.028	0.13
19.00	0.13	5638.01	0.028	0.13
19.33	0.13	5638.01	0.028	0.13
19.66	0.13	5638.01	0.028	0.13
20.00	0.13	5638.01	0.028	0.13
20.33	0.13	5638.01	0.028	0.13
20.66	0.13	5638.01	0.028	0.13
21.00	0.13	5638.01	0.028	0.13
21.33	0.13	5638.01	0.028	0.13
21.66	0.13	5638.01	0.028	0.13
22.00	0.13	5638.01	0.028	0.13
22.33	0.13	5638.01	0.028	0.13
22.66	0.13	5638.01	0.028	0.13
23.00	0.13	5638.01	0.028	0.13
23.33	0.13	5638.01	0.028	0.13
23.66	0.13	5638.01	0.028	0.13
24.00	0.13	5638.01	0.028	0.13
24.33	0.05	5638.00	0.028	0.06
24.66	0.01	5637.99	0.028	0.03
25.00	0.01	5637.98	0.027	0.03
25.33	0.01	5637.96	0.027	0.03
25.66	0.01	5637.94	0.026	0.03
26.00	0.01	5637.93	0.026	0.03
26.33	0.01	5637.91	0.025	0.03
26.66	0.01	5637.90	0.025	0.03
27.00	0.01	5637.88	0.024	0.03
27.33	0.01	5637.87	0.024	0.03
27.66	0.01	5637.85	0.023	0.03
28.00	0.01	5637.84	0.023	0.03
28.33	0.01	5637.82	0.022	0.03
28.66	0.01	5637.81	0.022	0.03
29.00	0.01	5637.79	0.021	0.03
29.33	0.01	5637.78	0.021	0.03
29.66	0.01	5637.77	0.020	0.03
30.00	0.01	5637.75	0.020	0.03
30.33	0.01	5637.74	0.019	0.02
30.66	0.01	5637.73	0.019	0.02
31.00	0.01	5637.71	0.018	0.02

DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

31.33	0.01	5637.70	0.018	0.02
31.66	0.01	5637.69	0.018	0.02
32.00	0.01	5637.67	0.017	0.02
32.33	0.01	5637.66	0.017	0.02
32.66	0.01	5637.65	0.016	0.02
33.00	0.01	5637.63	0.016	0.02
33.33	0.01	5637.62	0.015	0.02
33.66	0.01	5637.61	0.015	0.02
34.00	0.01	5637.60	0.015	0.02
34.33	0.01	5637.58	0.014	0.02
34.66	0.01	5637.57	0.014	0.02
35.00	0.01	5637.56	0.013	0.02
35.33	0.01	5637.55	0.013	0.02
35.66	0.01	5637.54	0.013	0.02
36.00	0.01	5637.53	0.012	0.02
36.33	0.01	5637.51	0.012	0.02
36.66	0.01	5637.50	0.011	0.02
37.00	0.01	5637.49	0.011	0.02

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
37.33	0.01	5637.47	0.011	0.02
37.66	0.01	5637.45	0.010	0.02
38.00	0.01	5637.43	0.010	0.02
38.33	0.01	5637.42	0.010	0.02
38.66	0.01	5637.40	0.009	0.02
39.00	0.01	5637.38	0.009	0.02
39.33	0.01	5637.37	0.009	0.02
39.66	0.01	5637.35	0.008	0.02
40.00	0.00	5637.34	0.008	0.02
40.33	0.00	5637.32	0.008	0.02
40.66	0.00	5637.29	0.007	0.02
41.00	0.00	5637.27	0.007	0.02
41.33	0.00	5637.25	0.006	0.02
41.66	0.00	5637.23	0.006	0.01
42.00	0.00	5637.21	0.005	0.01
42.33	0.00	5637.19	0.005	0.01
42.66	0.00	5637.18	0.005	0.01
43.00	0.00	5637.16	0.004	0.01
43.33	0.00	5637.14	0.004	0.01
43.66	0.00	5637.12	0.004	0.01
44.00	0.00	5637.11	0.003	0.01

DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

44.33	0.00	5637.09	0.003	0.01
44.66	0.00	5637.08	0.003	0.01
45.00	0.00	5637.06	0.002	0.01
45.33	0.00	5637.05	0.002	0.01
45.66	0.00	5637.03	0.002	0.01
46.00	0.00	5637.02	0.001	0.01
46.33	0.00	5637.00	0.001	0.01
46.66	0.00	5636.98	0.001	0.01
47.00	0.00	5636.96	0.001	0.01
47.33	0.00	5636.95	0.000	0.00

PEAK DISCHARGE = 30.004 CFS - PEAK OCCURS AT HOUR 1.67
 MAXIMUM WATER SURFACE ELEVATION = 5639.510
 MAXIMUM STORAGE = 0.1221 AC-FT INCREMENTAL TIME= 0.033330HRS

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ADD HYD ID=26 HYDNO=204
 ID=32 ID=6
 PRINT HYD ID=26 CODE=5

PARTIAL HYDROGRAPH 204.00

TIME	FLOW	TIME	FLOW	TIME	FLOW	TIME	FLOW	TIME	FLOW
HRS	CFS	HRS	CFS	HRS	CFS	HRS	CFS	HRS	CFS
0.000	0.0	10.666	0.3	21.331	0.3	31.997	0.0	42.662	0.0
0.167	0.0	10.832	0.3	21.498	0.3	32.164	0.0	42.829	0.0
0.333	0.0	10.999	0.3	21.665	0.3	32.330	0.0	42.996	0.0
0.500	0.0	11.166	0.3	21.831	0.3	32.497	0.0	43.162	0.0
0.667	0.3	11.332	0.3	21.998	0.3	32.663	0.0	43.329	0.0
0.833	1.0	11.499	0.3	22.164	0.3	32.830	0.0	43.496	0.0
1.000	1.4	11.665	0.3	22.331	0.3	32.997	0.0	43.662	0.0
1.167	2.2	11.832	0.3	22.498	0.3	33.163	0.0	43.829	0.0
1.333	7.3	11.999	0.3	22.664	0.3	33.330	0.0	43.996	0.0
1.500	34.0	12.165	0.3	22.831	0.3	33.497	0.0	44.162	0.0
1.667	29.0	12.332	0.3	22.998	0.3	33.663	0.0	44.329	0.0
1.833	12.8	12.499	0.3	23.164	0.3	33.830	0.0	44.496	0.0
2.000	6.5	12.665	0.3	23.331	0.3	33.997	0.0	44.662	0.0
2.166	4.2	12.832	0.3	23.498	0.3	34.163	0.0	44.829	0.0
2.333	3.0	12.999	0.3	23.664	0.3	34.330	0.0	44.995	0.0
2.500	2.0	13.165	0.3	23.831	0.3	34.497	0.0	45.162	0.0
2.666	1.2	13.332	0.3	23.998	0.3	34.663	0.0	45.329	0.0
2.833	0.9	13.499	0.3	24.164	0.2	34.830	0.0	45.495	0.0
3.000	0.7	13.665	0.3	24.331	0.1	34.997	0.0	45.662	0.0

DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

3.166	0.5	13.832	0.3	24.498	0.0	35.163	0.0	45.829	0.0
3.333	0.4	13.999	0.3	24.664	0.0	35.330	0.0	45.995	0.0
3.500	0.4	14.165	0.3	24.831	0.0	35.496	0.0	46.162	0.0
3.666	0.3	14.332	0.3	24.998	0.0	35.663	0.0	46.329	0.0
3.833	0.3	14.499	0.3	25.164	0.0	35.830	0.0	46.495	0.0
4.000	0.3	14.665	0.3	25.331	0.0	35.996	0.0	46.662	0.0
4.166	0.3	14.832	0.3	25.497	0.0	36.163	0.0	46.829	0.0
4.333	0.2	14.998	0.3	25.664	0.0	36.330	0.0	46.995	0.0
4.500	0.2	15.165	0.3	25.831	0.0	36.496	0.0	47.162	0.0
4.666	0.2	15.332	0.3	25.997	0.0	36.663	0.0	47.329	0.0
4.833	0.2	15.498	0.3	26.164	0.0	36.830	0.0	47.495	0.0
4.999	0.2	15.665	0.3	26.331	0.0	36.996	0.0	47.662	0.0
5.166	0.2	15.832	0.3	26.497	0.0	37.163	0.0	47.829	0.0
5.333	0.2	15.998	0.3	26.664	0.0	37.330	0.0	47.995	0.0
5.499	0.2	16.165	0.3	26.831	0.0	37.496	0.0	48.162	0.0
5.666	0.2	16.332	0.3	26.997	0.0	37.663	0.0	48.328	0.0
5.833	0.2	16.498	0.3	27.164	0.0	37.830	0.0	48.495	0.0
5.999	0.3	16.665	0.3	27.331	0.0	37.996	0.0	48.662	0.0
6.166	0.3	16.832	0.3	27.497	0.0	38.163	0.0	48.828	0.0
6.333	0.3	16.998	0.3	27.664	0.0	38.330	0.0	48.995	0.0
6.499	0.3	17.165	0.3	27.831	0.0	38.496	0.0	49.162	0.0
6.666	0.3	17.332	0.3	27.997	0.0	38.663	0.0	49.328	0.0
6.833	0.3	17.498	0.3	28.164	0.0	38.829	0.0	49.495	0.0
6.999	0.3	17.665	0.3	28.331	0.0	38.996	0.0	49.662	0.0
7.166	0.3	17.832	0.3	28.497	0.0	39.163	0.0	49.828	0.0
7.333	0.3	17.998	0.3	28.664	0.0	39.329	0.0	49.995	0.0
7.499	0.3	18.165	0.3	28.830	0.0	39.496	0.0	50.162	0.0
7.666	0.3	18.331	0.3	28.997	0.0	39.663	0.0	50.328	0.0
7.833	0.3	18.498	0.3	29.164	0.0	39.829	0.0	50.495	0.0
7.999	0.3	18.665	0.3	29.330	0.0	39.996	0.0	50.662	0.0
8.166	0.3	18.831	0.3	29.497	0.0	40.163	0.0	50.828	0.0
8.332	0.3	18.998	0.3	29.664	0.0	40.329	0.0	50.995	0.0
8.499	0.3	19.165	0.3	29.830	0.0	40.496	0.0	51.161	0.0
8.666	0.3	19.331	0.3	29.997	0.0	40.663	0.0	51.328	0.0
8.832	0.3	19.498	0.3	30.164	0.0	40.829	0.0	51.495	0.0
8.999	0.3	19.665	0.3	30.330	0.0	40.996	0.0	51.661	0.0
9.166	0.3	19.831	0.3	30.497	0.0	41.163	0.0	51.828	0.0
9.332	0.3	19.998	0.3	30.664	0.0	41.329	0.0	51.995	0.0
9.499	0.3	20.165	0.3	30.830	0.0	41.496	0.0	52.161	0.0
9.666	0.3	20.331	0.3	30.997	0.0	41.662	0.0	52.328	0.0
9.832	0.3	20.498	0.3	31.164	0.0	41.829	0.0	52.495	0.0
9.999	0.3	20.665	0.3	31.330	0.0	41.996	0.0	52.661	0.0
10.166	0.3	20.831	0.3	31.497	0.0	42.162	0.0		

DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

10.332	0.3	20.998	0.3	31.664	0.0	42.329	0.0
10.499	0.3	21.165	0.3	31.830	0.0	42.496	0.0

RUNOFF VOLUME = 1.97363 INCHES = 1.9368 ACRE-FEET
 PEAK DISCHARGE RATE = 38.52 CFS AT 1.567 HOURS BASIN AREA = 0.0184 SQ. MI.

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COMPUTE RATING CURVE CID=1 VS NO=1 CODE=-1 SLP=0.015
 DIA=2.5 FT N=0.017

RATING CURVE PIPE SECTION 1.0			
WATER SURFACE ELEV	FLOW AREA SQ FT	FLOW RATE CFS	MAX WIDTH FT
0.00	0.00	0.00	0.00
0.13	0.10	0.20	1.11
0.26	0.27	0.87	1.53
0.39	0.49	2.03	1.82
0.52	0.74	3.66	2.03
0.65	1.02	5.71	2.19
0.78	1.31	8.15	2.32
0.91	1.62	10.92	2.41
1.04	1.94	13.96	2.47
1.17	2.26	17.21	2.50
1.30	2.59	20.59	2.50
1.43	2.91	24.04	2.50
1.56	3.23	27.47	2.50
1.69	3.54	30.79	2.50
1.82	3.84	33.89	2.50
1.95	4.12	36.67	2.50
2.08	4.37	38.99	2.50
2.21	4.60	40.64	2.50
2.35	4.78	41.32	2.50
2.50	4.91	41.32	2.50

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ROUTE MCUNGE ID=30 HYD NO=206 INFLOW ID=26 DT=0.01
 LENGTH=120 FT NS=0 SLOPE=0.015

INFLOW END=1583	TABLE PTS= 19
DT= 0.010000	QMED= 19.26 CKMED= 10.4017
WIDTH MED= 2.50	NREACH= 1 DX= 120.00

DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

DEPTH (FT)	AREA (SQ FT)	Q (CFS)	TRAVEL TIME(HR)	WIDTH (FT)	ck (FPS)	VEL (FPS)	C	D	C1	C2	C3	Q-M (CFS)	C1-M	C2-M	C3-M
0.00	0.0	0.0	0.022	0.0	3.33	0.97	1.000	0.000	1.000	0.000	0.000	0.0	1.000	0.000	0.000
0.13	0.1	0.2	0.016	1.1	3.40	2.07	1.019	0.030	0.971	0.024	0.005	0.0	0.995	0.004	0.001
0.26	0.3	0.9	0.010	1.5	4.69	3.22	1.407	0.068	0.945	0.192	-0.137	0.5	0.953	0.099	-0.052
0.39	0.5	2.0	0.008	1.8	5.94	4.15	1.781	0.105	0.927	0.307	-0.234	1.4	0.934	0.254	-0.188
0.52	0.7	3.7	0.007	2.0	6.99	4.93	2.097	0.143	0.912	0.383	-0.294	2.8	0.919	0.348	-0.267
0.65	1.0	5.7	0.006	2.2	7.89	5.61	2.366	0.183	0.897	0.436	-0.333	4.6	0.904	0.412	-0.316
0.78	1.3	8.1	0.005	2.3	8.65	6.21	2.594	0.226	0.882	0.476	-0.358	6.9	0.889	0.458	-0.347
0.91	1.6	10.9	0.005	2.4	9.29	6.74	2.786	0.271	0.866	0.507	-0.373	9.5	0.874	0.493	-0.367
1.04	1.9	14.0	0.005	2.5	9.81	7.20	2.944	0.321	0.850	0.531	-0.381	12.4	0.858	0.520	-0.379
1.17	2.3	17.2	0.004	2.5	10.22	7.61	3.067	0.375	0.831	0.550	-0.381	15.6	0.841	0.542	-0.383
1.30	2.6	20.6	0.004	2.5	10.51	7.96	3.153	0.435	0.810	0.564	-0.374	18.9	0.822	0.558	-0.380
1.43	2.9	24.0	0.004	2.5	10.58	8.26	3.173	0.505	0.784	0.572	-0.357	22.3	0.798	0.569	-0.368
1.56	3.2	27.5	0.004	2.5	10.38	8.51	3.114	0.588	0.750	0.575	-0.325	25.7	0.769	0.575	-0.343
1.69	3.5	30.8	0.004	2.5	9.89	8.70	2.967	0.692	0.703	0.571	-0.274	29.1	0.729	0.574	-0.303
1.82	3.8	33.9	0.004	2.5	9.06	8.83	2.719	0.831	0.635	0.560	-0.195	32.3	0.674	0.567	-0.240
1.95	4.1	36.7	0.004	2.5	7.84	8.91	2.353	1.039	0.527	0.545	-0.071	35.3	0.590	0.554	-0.144
2.08	4.4	39.0	0.004	2.5	6.11	8.92	1.832	1.419	0.332	0.529	0.138	37.8	0.451	0.536	0.012
2.21	4.6	40.6	0.004	2.5	3.58	8.84	1.073	2.526	-0.098	0.565	0.533	39.8	0.184	0.531	0.285
2.35	4.8	41.3	0.004	2.5	2.04	8.64	0.611	4.505	-0.473	0.673	0.800	41.0	-0.288	0.620	0.668

Hydrograph incremental time change from DT= 0.033330 hours to DT= 0.010000 hours

MAXIMUM NO. ITERATIONS FOR SOLUTION (KKMAX) = 2 OCCURRED 154 TIMES. AVERAGE NUMBER ITERATIONS = 1.0390

Equations solved using the Ponce correction to C2

Hydrograph incremental time change from DT= 0.010000 hours to DT= 0.033330 hours

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STORE RATING CURVE CID=1 VS NO=-15

ELEV (FT)	AREA (SQ FT)	FLOW (CFS)
100	0.0	0.0
100.02	0.004	0.003
100.1	0.155	0.355
100.2	0.786	3.071
100.3	2.382	9.62
100.4	4.976	25.36
100.5	8.179	56.46

COMPUTED TOP WIDTHS ARE:	0.000	0.400	3.375	9.245	22.673
	29.208	34.853	40.498	46.143	51.787
	57.432	63.077	68.722	74.367	80.012
	85.656	91.301	96.946	102.591	108.236

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DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

ROUTE MCUNGE

ID=30 HYD NO=204 INFLOW ID=30 DT=0.01

LENGTH=732 FT NS=0 SLOPE=0.035

WARNING---INPUT AND OUTPUT ID NUMBERS ARE EQUAL, ID= 30 AND ITS HYDROGRAPH DATA IS OVERWRITTEN.

INFLOW END=1201

TABLE PTS= 20

DT= 0.010000

QMED=

19.09

CKMED=

6.0678

WIDTH MED=

26.60

NREACH= 7

DX=

104.57

DEPTH (FT)	AREA (SQ FT)	Q (CFS)	TRAVEL TIME(HR)	WIDTH (FT)	ck (FPS)	VEL (FPS)	C	D	C1	C2	C3	Q-M (CFS)	C1-M	C2-M	C3-M
0.00	0.0	0.0	0.317	0.0	2.90	0.53	1.000	0.000	1.000	0.000	0.000	0.0	1.000	0.000	0.000
0.02	0.0	0.0	0.271	0.4	2.90	0.75	0.999	0.001	0.999	0.000	0.001	0.0	1.000	0.000	0.000
0.10	0.2	0.4	0.089	3.4	3.42	2.29	1.179	0.008	0.992	0.085	-0.078	0.1	0.998	0.018	-0.016
0.20	0.8	3.1	0.052	9.2	4.87	3.91	1.676	0.019	0.986	0.258	-0.244	1.3	0.989	0.179	-0.168
0.30	2.4	9.6	0.050	22.7	4.96	4.04	1.709	0.023	0.983	0.268	-0.251	5.7	0.979	0.161	-0.141
0.40	5.0	25.4	0.040	29.2	7.59	5.10	2.613	0.031	0.983	0.451	-0.434	16.7	0.981	0.357	-0.338
0.50	8.2	56.5	0.029	34.9	11.39	6.90	3.921	0.039	0.984	0.597	-0.581	39.4	0.984	0.542	-0.527
0.60	11.9	106.2	0.023	40.5	14.87	8.89	5.119	0.048	0.984	0.676	-0.660	79.4	0.984	0.641	-0.626
0.70	16.3	177.8	0.019	46.1	18.26	10.92	6.286	0.058	0.984	0.728	-0.712	139.8	0.984	0.703	-0.687
0.80	21.2	275.6	0.016	51.8	21.75	13.02	7.487	0.067	0.984	0.766	-0.751	224.2	0.984	0.748	-0.732
0.90	26.6	404.0	0.013	57.4	25.33	15.17	8.720	0.076	0.985	0.796	-0.780	336.9	0.984	0.782	-0.766
1.00	32.7	567.5	0.012	63.1	29.01	17.38	9.987	0.085	0.985	0.819	-0.804	482.5	0.985	0.808	-0.793
1.10	39.3	770.9	0.010	68.7	32.78	19.64	11.287	0.093	0.985	0.838	-0.823	665.6	0.985	0.829	-0.814
1.20	46.4	1019.1	0.009	74.4	36.65	21.96	12.617	0.102	0.985	0.854	-0.839	891.0	0.985	0.847	-0.831
1.30	54.1	1317.0	0.008	80.0	40.60	24.33	13.978	0.111	0.985	0.867	-0.853	1163.7	0.985	0.861	-0.846
1.40	62.4	1669.8	0.008	85.7	44.64	26.76	15.368	0.119	0.986	0.879	-0.864	1488.6	0.985	0.873	-0.859
1.50	71.3	2082.7	0.007	91.3	48.76	29.23	16.787	0.128	0.986	0.888	-0.874	1871.1	0.986	0.884	-0.869
1.60	80.7	2561.2	0.006	96.9	52.96	31.75	18.233	0.136	0.986	0.897	-0.883	2316.4	0.986	0.893	-0.878
1.70	90.6	3110.6	0.006	102.6	57.24	34.32	19.705	0.145	0.986	0.904	-0.890	2829.9	0.986	0.900	-0.886
1.80	101.2	3736.6	0.006	108.2	60.19	36.93	20.722	0.157	0.986	0.909	-0.894	3417.1	0.986	0.907	-0.894

Hydrograph incremental time change from DT= 0.033330 hours to DT= 0.010000 hours

MAXIMUM NO. ITERATIONS FOR SOLUTION (KKMAX) = 2 OCCURRED 1046 TIMES. AVERAGE NUMBER ITERATIONS = 1.0378

Equations solved using the Ponce correction to C2

Hydrograph incremental time change from DT= 0.010000 hours to DT= 0.033330 hours

*

ADD HYD

ID=21 HYDNO=205

ID=30 ID=7

PRINT HYD

ID=21 CODE=5

PARTIAL HYDROGRAPH 205.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
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DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

0.000	0.0	8.166	0.5	16.332	0.5	24.498	0.1	32.663	0.0
0.167	0.0	8.332	0.5	16.498	0.5	24.664	0.1	32.830	0.0
0.333	0.0	8.499	0.5	16.665	0.5	24.831	0.0	32.997	0.0
0.500	0.0	8.666	0.5	16.832	0.5	24.998	0.0	33.163	0.0
0.667	0.3	8.832	0.5	16.998	0.5	25.164	0.0	33.330	0.0
0.833	1.8	8.999	0.5	17.165	0.5	25.331	0.0	33.497	0.0
1.000	2.6	9.166	0.5	17.332	0.5	25.497	0.0	33.663	0.0
1.167	4.0	9.332	0.5	17.498	0.5	25.664	0.0	33.830	0.0
1.333	10.1	9.499	0.5	17.665	0.5	25.831	0.0	33.997	0.0
1.500	50.9	9.666	0.5	17.832	0.5	25.997	0.0	34.163	0.0
1.667	51.0	9.832	0.5	17.998	0.5	26.164	0.0	34.330	0.0
1.833	23.9	9.999	0.5	18.165	0.5	26.331	0.0	34.497	0.0
2.000	12.2	10.166	0.5	18.331	0.5	26.497	0.0	34.663	0.0
2.166	7.6	10.332	0.5	18.498	0.5	26.664	0.0	34.830	0.0
2.333	5.3	10.499	0.5	18.665	0.5	26.831	0.0	34.997	0.0
2.500	3.6	10.666	0.5	18.831	0.5	26.997	0.0	35.163	0.0
2.666	2.2	10.832	0.5	18.998	0.5	27.164	0.0	35.330	0.0
2.833	1.6	10.999	0.5	19.165	0.5	27.331	0.0	35.496	0.0
3.000	1.2	11.166	0.5	19.331	0.5	27.497	0.0	35.663	0.0
3.166	0.9	11.332	0.5	19.498	0.5	27.664	0.0	35.830	0.0
3.333	0.7	11.499	0.5	19.665	0.5	27.831	0.0	35.996	0.0
3.500	0.6	11.665	0.5	19.831	0.5	27.997	0.0	36.163	0.0
3.666	0.6	11.832	0.5	19.998	0.5	28.164	0.0	36.330	0.0
3.833	0.5	11.999	0.5	20.165	0.5	28.331	0.0	36.496	0.0
4.000	0.5	12.165	0.5	20.331	0.5	28.497	0.0	36.663	0.0
4.166	0.4	12.332	0.5	20.498	0.5	28.664	0.0	36.830	0.0
4.333	0.4	12.499	0.5	20.665	0.5	28.830	0.0	36.996	0.0
4.500	0.4	12.665	0.5	20.831	0.5	28.997	0.0	37.163	0.0
4.666	0.4	12.832	0.5	20.998	0.5	29.164	0.0	37.330	0.0
4.833	0.4	12.999	0.5	21.165	0.5	29.330	0.0	37.496	0.0
4.999	0.4	13.165	0.5	21.331	0.5	29.497	0.0	37.663	0.0
5.166	0.4	13.332	0.5	21.498	0.5	29.664	0.0	37.830	0.0
5.333	0.4	13.499	0.5	21.665	0.5	29.830	0.0	37.996	0.0
5.499	0.4	13.665	0.5	21.831	0.5	29.997	0.0	38.163	0.0
5.666	0.4	13.832	0.5	21.998	0.5	30.164	0.0	38.330	0.0
5.833	0.4	13.999	0.5	22.164	0.5	30.330	0.0	38.496	0.0
5.999	0.4	14.165	0.5	22.331	0.5	30.497	0.0	38.663	0.0
6.166	0.5	14.332	0.5	22.498	0.5	30.664	0.0	38.829	0.0
6.333	0.5	14.499	0.5	22.664	0.5	30.830	0.0	38.996	0.0
6.499	0.5	14.665	0.5	22.831	0.5	30.997	0.0	39.163	0.0
6.666	0.5	14.832	0.5	22.998	0.5	31.164	0.0	39.329	0.0
6.833	0.5	14.998	0.5	23.164	0.5	31.330	0.0	39.496	0.0
6.999	0.5	15.165	0.5	23.331	0.5	31.497	0.0	39.663	0.0

DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

7.166	0.5	15.332	0.5	23.498	0.5	31.664	0.0	39.829	0.0
7.333	0.5	15.498	0.5	23.664	0.5	31.830	0.0	39.996	0.0
7.499	0.5	15.665	0.5	23.831	0.5	31.997	0.0		
7.666	0.5	15.832	0.5	23.998	0.5	32.164	0.0		
7.833	0.5	15.998	0.5	24.164	0.4	32.330	0.0		
7.999	0.5	16.165	0.5	24.331	0.1	32.497	0.0		

RUNOFF VOLUME = 2.11034 INCHES = 3.2764 ACRE-FEET
 PEAK DISCHARGE RATE = 62.62 CFS AT 1.567 HOURS BASIN AREA = 0.0291 SQ. MI.

*
 ADD HYD ID=24 HYDNO=206
 ID=21 ID=38
 PRINT HYD ID=24 CODE=5

PARTIAL HYDROGRAPH 206.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
0.000	0.0	9.999	0.6	19.998	0.6	29.997	0.0	39.996	0.0
0.167	0.0	10.166	0.6	20.165	0.6	30.164	0.0	40.163	0.0
0.333	0.0	10.332	0.6	20.331	0.6	30.330	0.0	40.329	0.0
0.500	0.0	10.499	0.6	20.498	0.6	30.497	0.0	40.496	0.0
0.667	0.3	10.666	0.6	20.665	0.6	30.664	0.0	40.663	0.0
0.833	1.8	10.832	0.6	20.831	0.6	30.830	0.0	40.829	0.0
1.000	2.6	10.999	0.6	20.998	0.6	30.997	0.0	40.996	0.0
1.167	4.0	11.166	0.6	21.165	0.6	31.164	0.0	41.163	0.0
1.333	10.1	11.332	0.6	21.331	0.6	31.330	0.0	41.329	0.0
1.500	66.6	11.499	0.6	21.498	0.6	31.497	0.0	41.496	0.0
1.667	81.0	11.665	0.6	21.665	0.6	31.664	0.0	41.662	0.0
1.833	48.9	11.832	0.6	21.831	0.6	31.830	0.0	41.829	0.0
2.000	26.5	11.999	0.6	21.998	0.6	31.997	0.0	41.996	0.0
2.166	13.0	12.165	0.6	22.164	0.6	32.164	0.0	42.162	0.0
2.333	8.7	12.332	0.6	22.331	0.6	32.330	0.0	42.329	0.0
2.500	6.0	12.499	0.6	22.498	0.6	32.497	0.0	42.496	0.0
2.666	3.8	12.665	0.6	22.664	0.6	32.663	0.0	42.662	0.0
2.833	2.7	12.832	0.6	22.831	0.6	32.830	0.0	42.829	0.0
3.000	2.0	12.999	0.6	22.998	0.6	32.997	0.0	42.996	0.0
3.166	1.5	13.165	0.6	23.164	0.6	33.163	0.0	43.162	0.0
3.333	1.2	13.332	0.6	23.331	0.6	33.330	0.0	43.329	0.0
3.500	1.0	13.499	0.6	23.498	0.6	33.497	0.0	43.496	0.0

DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

3.666	0.8	13.665	0.6	23.664	0.6	33.663	0.0	43.662	0.0
3.833	0.7	13.832	0.6	23.831	0.6	33.830	0.0	43.829	0.0
4.000	0.7	13.999	0.6	23.998	0.6	33.997	0.0	43.996	0.0
4.166	0.6	14.165	0.6	24.164	0.5	34.163	0.0	44.162	0.0
4.333	0.6	14.332	0.6	24.331	0.2	34.330	0.0	44.329	0.0
4.500	0.6	14.499	0.6	24.498	0.1	34.497	0.0	44.496	0.0
4.666	0.5	14.665	0.6	24.664	0.1	34.663	0.0	44.662	0.0
4.833	0.5	14.832	0.6	24.831	0.1	34.830	0.0	44.829	0.0
4.999	0.5	14.998	0.6	24.998	0.1	34.997	0.0	44.995	0.0
5.166	0.5	15.165	0.6	25.164	0.1	35.163	0.0	45.162	0.0
5.333	0.5	15.332	0.6	25.331	0.1	35.330	0.0	45.329	0.0
5.499	0.5	15.498	0.6	25.497	0.1	35.496	0.0	45.495	0.0
5.666	0.6	15.665	0.6	25.664	0.1	35.663	0.0	45.662	0.0
5.833	0.6	15.832	0.6	25.831	0.1	35.830	0.0	45.829	0.0
5.999	0.6	15.998	0.6	25.997	0.1	35.996	0.0	45.995	0.0
6.166	0.6	16.165	0.6	26.164	0.1	36.163	0.0	46.162	0.0
6.333	0.6	16.332	0.6	26.331	0.1	36.330	0.0	46.329	0.0
6.499	0.6	16.498	0.6	26.497	0.1	36.496	0.0	46.495	0.0
6.666	0.6	16.665	0.6	26.664	0.1	36.663	0.0	46.662	0.0
6.833	0.6	16.832	0.6	26.831	0.1	36.830	0.0	46.829	0.0
6.999	0.6	16.998	0.6	26.997	0.0	36.996	0.0	46.995	0.0
7.166	0.6	17.165	0.6	27.164	0.0	37.163	0.0	47.162	0.0
7.333	0.6	17.332	0.6	27.331	0.0	37.330	0.0	47.329	0.0
7.499	0.6	17.498	0.6	27.497	0.0	37.496	0.0	47.495	0.0
7.666	0.6	17.665	0.6	27.664	0.0	37.663	0.0	47.662	0.0
7.833	0.6	17.832	0.6	27.831	0.0	37.830	0.0	47.829	0.0
7.999	0.6	17.998	0.6	27.997	0.0	37.996	0.0	47.995	0.0
8.166	0.6	18.165	0.6	28.164	0.0	38.163	0.0	48.162	0.0
8.332	0.6	18.331	0.6	28.331	0.0	38.330	0.0	48.328	0.0
8.499	0.6	18.498	0.6	28.497	0.0	38.496	0.0	48.495	0.0
8.666	0.6	18.665	0.6	28.664	0.0	38.663	0.0	48.662	0.0
8.832	0.6	18.831	0.6	28.830	0.0	38.829	0.0	48.828	0.0
8.999	0.6	18.998	0.6	28.997	0.0	38.996	0.0	48.995	0.0
9.166	0.6	19.165	0.6	29.164	0.0	39.163	0.0	49.162	0.0
9.332	0.6	19.331	0.6	29.330	0.0	39.329	0.0		
9.499	0.6	19.498	0.6	29.497	0.0	39.496	0.0		
9.666	0.6	19.665	0.6	29.664	0.0	39.663	0.0		
9.832	0.6	19.831	0.6	29.830	0.0	39.829	0.0		

RUNOFF VOLUME = 1.79913 INCHES = 4.9512 ACRE-FEET
PEAK DISCHARGE RATE = 89.41 CFS AT 1.600 HOURS BASIN AREA = 0.0516 SQ. MI.

DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

*
 ADD HYD ID=25 HYDNO=207
 ID=24 ID=9
 PRINT HYD ID=25 CODE=5

PARTIAL HYDROGRAPH 207.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
0.000	0.0	9.999	0.6	19.998	0.6	29.997	0.0	39.996	0.0
0.167	0.0	10.166	0.6	20.165	0.6	30.164	0.0	40.163	0.0
0.333	0.0	10.332	0.6	20.331	0.6	30.330	0.0	40.329	0.0
0.500	0.0	10.499	0.6	20.498	0.6	30.497	0.0	40.496	0.0
0.667	0.3	10.666	0.6	20.665	0.6	30.664	0.0	40.663	0.0
0.833	1.8	10.832	0.6	20.831	0.6	30.830	0.0	40.829	0.0
1.000	2.6	10.999	0.6	20.998	0.6	30.997	0.0	40.996	0.0
1.167	4.0	11.166	0.6	21.165	0.6	31.164	0.0	41.163	0.0
1.333	10.2	11.332	0.6	21.331	0.6	31.330	0.0	41.329	0.0
1.500	67.3	11.499	0.6	21.498	0.6	31.497	0.0	41.496	0.0
1.667	81.6	11.665	0.6	21.665	0.6	31.664	0.0	41.662	0.0
1.833	49.1	11.832	0.6	21.831	0.6	31.830	0.0	41.829	0.0
2.000	26.6	11.999	0.6	21.998	0.6	31.997	0.0	41.996	0.0
2.166	13.1	12.165	0.6	22.164	0.6	32.164	0.0	42.162	0.0
2.333	8.7	12.332	0.6	22.331	0.6	32.330	0.0	42.329	0.0
2.500	6.0	12.499	0.6	22.498	0.6	32.497	0.0	42.496	0.0
2.666	3.8	12.665	0.6	22.664	0.6	32.663	0.0	42.662	0.0
2.833	2.7	12.832	0.6	22.831	0.6	32.830	0.0	42.829	0.0
3.000	2.0	12.999	0.6	22.998	0.6	32.997	0.0	42.996	0.0
3.166	1.5	13.165	0.6	23.164	0.6	33.163	0.0	43.162	0.0
3.333	1.2	13.332	0.6	23.331	0.6	33.330	0.0	43.329	0.0
3.500	1.0	13.499	0.6	23.498	0.6	33.497	0.0	43.496	0.0
3.666	0.8	13.665	0.6	23.664	0.6	33.663	0.0	43.662	0.0
3.833	0.7	13.832	0.6	23.831	0.6	33.830	0.0	43.829	0.0
4.000	0.7	13.999	0.6	23.998	0.6	33.997	0.0	43.996	0.0
4.166	0.6	14.165	0.6	24.164	0.5	34.163	0.0	44.162	0.0
4.333	0.6	14.332	0.6	24.331	0.2	34.330	0.0	44.329	0.0
4.500	0.6	14.499	0.6	24.498	0.1	34.497	0.0	44.496	0.0
4.666	0.5	14.665	0.6	24.664	0.1	34.663	0.0	44.662	0.0
4.833	0.5	14.832	0.6	24.831	0.1	34.830	0.0	44.829	0.0
4.999	0.5	14.998	0.6	24.998	0.1	34.997	0.0	44.995	0.0
5.166	0.5	15.165	0.6	25.164	0.1	35.163	0.0	45.162	0.0
5.333	0.5	15.332	0.6	25.331	0.1	35.330	0.0	45.329	0.0

DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

5.499	0.5	15.498	0.6	25.497	0.1	35.496	0.0	45.495	0.0
5.666	0.6	15.665	0.6	25.664	0.1	35.663	0.0	45.662	0.0
5.833	0.6	15.832	0.6	25.831	0.1	35.830	0.0	45.829	0.0
5.999	0.6	15.998	0.6	25.997	0.1	35.996	0.0	45.995	0.0
6.166	0.6	16.165	0.6	26.164	0.1	36.163	0.0	46.162	0.0
6.333	0.6	16.332	0.6	26.331	0.1	36.330	0.0	46.329	0.0
6.499	0.6	16.498	0.6	26.497	0.1	36.496	0.0	46.495	0.0
6.666	0.6	16.665	0.6	26.664	0.1	36.663	0.0	46.662	0.0
6.833	0.6	16.832	0.6	26.831	0.1	36.830	0.0	46.829	0.0
6.999	0.6	16.998	0.6	26.997	0.0	36.996	0.0	46.995	0.0
7.166	0.6	17.165	0.6	27.164	0.0	37.163	0.0	47.162	0.0
7.333	0.6	17.332	0.6	27.331	0.0	37.330	0.0	47.329	0.0
7.499	0.6	17.498	0.6	27.497	0.0	37.496	0.0	47.495	0.0
7.666	0.6	17.665	0.6	27.664	0.0	37.663	0.0	47.662	0.0
7.833	0.6	17.832	0.6	27.831	0.0	37.830	0.0	47.829	0.0
7.999	0.6	17.998	0.6	27.997	0.0	37.996	0.0	47.995	0.0
8.166	0.6	18.165	0.6	28.164	0.0	38.163	0.0	48.162	0.0
8.332	0.6	18.331	0.6	28.331	0.0	38.330	0.0	48.328	0.0
8.499	0.6	18.498	0.6	28.497	0.0	38.496	0.0	48.495	0.0
8.666	0.6	18.665	0.6	28.664	0.0	38.663	0.0	48.662	0.0
8.832	0.6	18.831	0.6	28.830	0.0	38.829	0.0	48.828	0.0
8.999	0.6	18.998	0.6	28.997	0.0	38.996	0.0	48.995	0.0
9.166	0.6	19.165	0.6	29.164	0.0	39.163	0.0	49.162	0.0
9.332	0.6	19.331	0.6	29.330	0.0	39.329	0.0		
9.499	0.6	19.498	0.6	29.497	0.0	39.496	0.0		
9.666	0.6	19.665	0.6	29.664	0.0	39.663	0.0		
9.832	0.6	19.831	0.6	29.830	0.0	39.829	0.0		

RUNOFF VOLUME = 1.79462 INCHES = 4.9761 ACRE-FEET
PEAK DISCHARGE RATE = 90.14 CFS AT 1.600 HOURS BASIN AREA = 0.0520 SQ. MI.

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ADD HYD ID=26 HYDNO=208
ID=25 ID=5
PRINT HYD ID=26 CODE=5

PARTIAL HYDROGRAPH 208.00

TIME	FLOW	TIME	FLOW	TIME	FLOW	TIME	FLOW	TIME	FLOW
HRS	CFS	HRS	CFS	HRS	CFS	HRS	CFS	HRS	CFS
0.000	0.0	9.999	0.7	19.998	0.7	29.997	0.0	39.996	0.0

DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

0.167	0.0	10.166	0.7	20.165	0.7	30.164	0.0	40.163	0.0
0.333	0.0	10.332	0.7	20.331	0.7	30.330	0.0	40.329	0.0
0.500	0.0	10.499	0.7	20.498	0.7	30.497	0.0	40.496	0.0
0.667	0.3	10.666	0.7	20.665	0.7	30.664	0.0	40.663	0.0
0.833	2.1	10.832	0.7	20.831	0.7	30.830	0.0	40.829	0.0
1.000	3.0	10.999	0.7	20.998	0.7	30.997	0.0	40.996	0.0
1.167	4.6	11.166	0.7	21.165	0.7	31.164	0.0	41.163	0.0
1.333	11.7	11.332	0.7	21.331	0.7	31.330	0.0	41.329	0.0
1.500	73.0	11.499	0.7	21.498	0.7	31.497	0.0	41.496	0.0
1.667	86.4	11.665	0.7	21.665	0.7	31.664	0.0	41.662	0.0
1.833	51.2	11.832	0.7	21.831	0.7	31.830	0.0	41.829	0.0
2.000	27.7	11.999	0.7	21.998	0.7	31.997	0.0	41.996	0.0
2.166	13.8	12.165	0.7	22.164	0.7	32.164	0.0	42.162	0.0
2.333	9.3	12.332	0.7	22.331	0.7	32.330	0.0	42.329	0.0
2.500	6.4	12.499	0.7	22.498	0.7	32.497	0.0	42.496	0.0
2.666	4.0	12.665	0.7	22.664	0.7	32.663	0.0	42.662	0.0
2.833	2.8	12.832	0.7	22.831	0.7	32.830	0.0	42.829	0.0
3.000	2.1	12.999	0.7	22.998	0.7	32.997	0.0	42.996	0.0
3.166	1.6	13.165	0.7	23.164	0.7	33.163	0.0	43.162	0.0
3.333	1.2	13.332	0.7	23.331	0.7	33.330	0.0	43.329	0.0
3.500	1.0	13.499	0.7	23.498	0.7	33.497	0.0	43.496	0.0
3.666	0.9	13.665	0.7	23.664	0.7	33.663	0.0	43.662	0.0
3.833	0.8	13.832	0.7	23.831	0.7	33.830	0.0	43.829	0.0
4.000	0.7	13.999	0.7	23.998	0.7	33.997	0.0	43.996	0.0
4.166	0.7	14.165	0.7	24.164	0.5	34.163	0.0	44.162	0.0
4.333	0.6	14.332	0.7	24.331	0.2	34.330	0.0	44.329	0.0
4.500	0.6	14.499	0.7	24.498	0.1	34.497	0.0	44.496	0.0
4.666	0.6	14.665	0.7	24.664	0.1	34.663	0.0	44.662	0.0
4.833	0.6	14.832	0.7	24.831	0.1	34.830	0.0	44.829	0.0
4.999	0.6	14.998	0.7	24.998	0.1	34.997	0.0	44.995	0.0
5.166	0.6	15.165	0.7	25.164	0.1	35.163	0.0	45.162	0.0
5.333	0.6	15.332	0.7	25.331	0.1	35.330	0.0	45.329	0.0
5.499	0.6	15.498	0.7	25.497	0.1	35.496	0.0	45.495	0.0
5.666	0.6	15.665	0.7	25.664	0.1	35.663	0.0	45.662	0.0
5.833	0.6	15.832	0.7	25.831	0.1	35.830	0.0	45.829	0.0
5.999	0.6	15.998	0.7	25.997	0.1	35.996	0.0	45.995	0.0
6.166	0.6	16.165	0.7	26.164	0.1	36.163	0.0	46.162	0.0
6.333	0.6	16.332	0.7	26.331	0.1	36.330	0.0	46.329	0.0
6.499	0.7	16.498	0.7	26.497	0.1	36.496	0.0	46.495	0.0
6.666	0.7	16.665	0.7	26.664	0.1	36.663	0.0	46.662	0.0
6.833	0.7	16.832	0.7	26.831	0.1	36.830	0.0	46.829	0.0
6.999	0.7	16.998	0.7	26.997	0.0	36.996	0.0	46.995	0.0
7.166	0.7	17.165	0.7	27.164	0.0	37.163	0.0	47.162	0.0

DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

7.333	0.7	17.332	0.7	27.331	0.0	37.330	0.0	47.329	0.0
7.499	0.7	17.498	0.7	27.497	0.0	37.496	0.0	47.495	0.0
7.666	0.7	17.665	0.7	27.664	0.0	37.663	0.0	47.662	0.0
7.833	0.7	17.832	0.7	27.831	0.0	37.830	0.0	47.829	0.0
7.999	0.7	17.998	0.7	27.997	0.0	37.996	0.0	47.995	0.0
8.166	0.7	18.165	0.7	28.164	0.0	38.163	0.0	48.162	0.0
8.332	0.7	18.331	0.7	28.331	0.0	38.330	0.0	48.328	0.0
8.499	0.7	18.498	0.7	28.497	0.0	38.496	0.0	48.495	0.0
8.666	0.7	18.665	0.7	28.664	0.0	38.663	0.0	48.662	0.0
8.832	0.7	18.831	0.7	28.830	0.0	38.829	0.0	48.828	0.0
8.999	0.7	18.998	0.7	28.997	0.0	38.996	0.0	48.995	0.0
9.166	0.7	19.165	0.7	29.164	0.0	39.163	0.0	49.162	0.0
9.332	0.7	19.331	0.7	29.330	0.0	39.329	0.0		
9.499	0.7	19.498	0.7	29.497	0.0	39.496	0.0		
9.666	0.7	19.665	0.7	29.664	0.0	39.663	0.0		
9.832	0.7	19.831	0.7	29.830	0.0	39.829	0.0		

RUNOFF VOLUME = 1.82638 INCHES = 5.3291 ACRE-FEET
 PEAK DISCHARGE RATE = 96.22 CFS AT 1.600 HOURS BASIN AREA = 0.0547 SQ. MI.

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ROUTE RESERVOIR	ID=37 HYD=302 INFLOW ID=26 CODE=10
OUTFLOW	STORAGE
(CFS)	(AC-FT)
0.00	0.0000
0.01	0.0593
0.011	0.1324
0.012	0.2230
0.014	0.2772
12.08	0.2887
27.00	0.3372
38.19	0.4034
50.22	0.4761
58.89	0.5553
66.36	0.6413
73.05	0.7340
79.17	0.8336
100.00	0.9000
PRINT HYD	ID=30 CODE=2

DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

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TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
0.00	0.00	5633.00	0.000	0.00
0.33	0.00	5633.00	0.000	0.00
0.67	0.34	5633.02	0.001	0.00
1.00	2.97	5633.88	0.052	0.01
1.33	11.66	5635.76	0.201	0.01
1.67	86.35	5639.79	0.793	76.66
2.00	27.70	5637.68	0.430	42.54
2.33	9.27	5636.58	0.286	9.53
2.67	4.02	5636.53	0.281	4.14
3.00	2.06	5636.52	0.279	2.11
3.33	1.24	5636.51	0.278	1.26
3.67	0.87	5636.51	0.278	0.88
4.00	0.71	5636.51	0.278	0.71
4.33	0.63	5636.50	0.278	0.63
4.67	0.59	5636.50	0.278	0.60
5.00	0.58	5636.50	0.278	0.58
5.33	0.59	5636.50	0.278	0.59
5.67	0.60	5636.50	0.278	0.60
6.00	0.62	5636.50	0.278	0.62
6.33	0.65	5636.51	0.278	0.65
6.67	0.65	5636.51	0.278	0.65
7.00	0.65	5636.51	0.278	0.65
7.33	0.65	5636.51	0.278	0.65
7.67	0.65	5636.51	0.278	0.65
8.00	0.65	5636.51	0.278	0.65
8.33	0.65	5636.51	0.278	0.65
8.67	0.65	5636.51	0.278	0.65
9.00	0.65	5636.51	0.278	0.65
9.33	0.65	5636.51	0.278	0.65
9.67	0.65	5636.51	0.278	0.65
10.00	0.65	5636.51	0.278	0.65
10.33	0.65	5636.51	0.278	0.65
10.67	0.65	5636.51	0.278	0.65
11.00	0.65	5636.51	0.278	0.65
11.33	0.65	5636.51	0.278	0.65
11.67	0.65	5636.51	0.278	0.65
12.00	0.65	5636.51	0.278	0.65
12.33	0.65	5636.51	0.278	0.65

DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

12.67	0.65	5636.51	0.278	0.65
13.00	0.65	5636.51	0.278	0.65
13.33	0.65	5636.51	0.278	0.65
13.67	0.65	5636.51	0.278	0.65
14.00	0.65	5636.51	0.278	0.65
14.33	0.65	5636.51	0.278	0.65
14.67	0.65	5636.51	0.278	0.65
15.00	0.65	5636.51	0.278	0.65
15.33	0.65	5636.51	0.278	0.65
15.67	0.65	5636.51	0.278	0.65
16.00	0.65	5636.51	0.278	0.65
16.33	0.65	5636.51	0.278	0.65
16.67	0.65	5636.51	0.278	0.65
17.00	0.65	5636.51	0.278	0.65
17.33	0.65	5636.51	0.278	0.65
17.66	0.65	5636.51	0.278	0.65
18.00	0.65	5636.51	0.278	0.65
18.33	0.65	5636.51	0.278	0.65

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
18.66	0.65	5636.51	0.278	0.65
19.00	0.65	5636.51	0.278	0.65
19.33	0.65	5636.51	0.278	0.65
19.66	0.65	5636.51	0.278	0.65
20.00	0.65	5636.51	0.278	0.65
20.33	0.65	5636.51	0.278	0.65
20.66	0.65	5636.51	0.278	0.65
21.00	0.65	5636.51	0.278	0.65
21.33	0.65	5636.51	0.278	0.65
21.66	0.65	5636.51	0.278	0.65
22.00	0.65	5636.51	0.278	0.65
22.33	0.65	5636.51	0.278	0.65
22.66	0.65	5636.51	0.278	0.65
23.00	0.65	5636.51	0.278	0.65
23.33	0.65	5636.51	0.278	0.65
23.66	0.65	5636.51	0.278	0.65
24.00	0.65	5636.51	0.278	0.65
24.33	0.19	5636.50	0.277	0.21
24.66	0.08	5636.50	0.277	0.08
25.00	0.06	5636.50	0.277	0.06
25.33	0.06	5636.50	0.277	0.06

DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

25.66	0.05	5636.50	0.277	0.05
26.00	0.05	5636.50	0.277	0.05
26.33	0.05	5636.50	0.277	0.05
26.66	0.05	5636.50	0.277	0.05
27.00	0.05	5636.50	0.277	0.05
27.33	0.05	5636.50	0.277	0.05
27.66	0.05	5636.50	0.277	0.05
28.00	0.05	5636.50	0.277	0.05
28.33	0.05	5636.50	0.277	0.05
28.66	0.04	5636.50	0.277	0.04
29.00	0.04	5636.50	0.277	0.04
29.33	0.04	5636.50	0.277	0.04
29.66	0.04	5636.50	0.277	0.04
30.00	0.04	5636.50	0.277	0.04
30.33	0.04	5636.50	0.277	0.04
30.66	0.04	5636.50	0.277	0.04
31.00	0.04	5636.50	0.277	0.04
31.33	0.04	5636.50	0.277	0.04
31.66	0.04	5636.50	0.277	0.04
32.00	0.04	5636.50	0.277	0.04
32.33	0.03	5636.50	0.277	0.03
32.66	0.03	5636.50	0.277	0.03
33.00	0.03	5636.50	0.277	0.03
33.33	0.03	5636.50	0.277	0.03
33.66	0.03	5636.50	0.277	0.03
34.00	0.03	5636.50	0.277	0.03
34.33	0.03	5636.50	0.277	0.03
34.66	0.03	5636.50	0.277	0.03
35.00	0.03	5636.50	0.277	0.03
35.33	0.03	5636.50	0.277	0.03
35.66	0.03	5636.50	0.277	0.03
36.00	0.03	5636.50	0.277	0.03
36.33	0.03	5636.50	0.277	0.03
36.66	0.03	5636.50	0.277	0.03
37.00	0.03	5636.50	0.277	0.03
TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
37.33	0.03	5636.50	0.277	0.03
37.66	0.03	5636.50	0.277	0.03
38.00	0.02	5636.50	0.277	0.02
38.33	0.02	5636.50	0.277	0.02

DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

38.66	0.02	5636.50	0.277	0.02
39.00	0.02	5636.50	0.277	0.02
39.33	0.02	5636.50	0.277	0.02
39.66	0.02	5636.50	0.277	0.02
40.00	0.02	5636.50	0.277	0.02
40.33	0.02	5636.50	0.277	0.02
40.66	0.02	5636.50	0.277	0.02
41.00	0.02	5636.50	0.277	0.02
41.33	0.02	5636.50	0.277	0.02
41.66	0.01	5636.50	0.277	0.01
42.00	0.01	5636.50	0.277	0.01
42.33	0.01	5636.50	0.277	0.01
42.66	0.01	5636.50	0.277	0.01
43.00	0.01	5636.50	0.277	0.01
43.33	0.01	5636.50	0.277	0.01
43.66	0.01	5636.50	0.277	0.01
44.00	0.01	5636.50	0.277	0.01
44.33	0.01	5636.50	0.277	0.01
44.66	0.01	5636.50	0.277	0.01
45.00	0.01	5636.50	0.277	0.01
45.33	0.01	5636.50	0.277	0.01
45.66	0.01	5636.50	0.277	0.01
46.00	0.01	5636.49	0.277	0.01
46.33	0.01	5636.49	0.277	0.01
46.66	0.01	5636.49	0.276	0.01
47.00	0.01	5636.49	0.276	0.01
47.33	0.00	5636.49	0.276	0.01
47.66	0.00	5636.49	0.276	0.01
48.00	0.00	5636.48	0.275	0.01
48.33	0.00	5636.48	0.275	0.01
48.66	0.00	5636.48	0.275	0.01
49.00	0.00	5636.47	0.274	0.01
49.33	0.00	5636.47	0.274	0.01
49.66	0.00	5636.47	0.274	0.01
50.00	0.00	5636.46	0.273	0.01
50.33	0.00	5636.46	0.273	0.01
50.66	0.00	5636.46	0.273	0.01
50.99	0.00	5636.45	0.272	0.01
51.33	0.00	5636.45	0.272	0.01
51.66	0.00	5636.45	0.271	0.01
51.99	0.00	5636.44	0.271	0.01
52.33	0.00	5636.44	0.271	0.01
52.66	0.00	5636.44	0.270	0.01

DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

52.99	0.00	5636.43	0.270	0.01
53.33	0.00	5636.43	0.269	0.01
53.66	0.00	5636.43	0.269	0.01
53.99	0.00	5636.42	0.269	0.01
54.33	0.00	5636.42	0.268	0.01
54.66	0.00	5636.41	0.268	0.01
54.99	0.00	5636.41	0.268	0.01
55.33	0.00	5636.41	0.267	0.01
55.66	0.00	5636.40	0.267	0.01

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
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55.99	0.00	5636.40	0.266	0.01
56.33	0.00	5636.40	0.266	0.01
56.66	0.00	5636.39	0.266	0.01
56.99	0.00	5636.39	0.265	0.01
57.33	0.00	5636.39	0.265	0.01
57.66	0.00	5636.38	0.265	0.01
57.99	0.00	5636.38	0.264	0.01
58.33	0.00	5636.38	0.264	0.01
58.66	0.00	5636.37	0.263	0.01
58.99	0.00	5636.37	0.263	0.01
59.33	0.00	5636.37	0.263	0.01
59.66	0.00	5636.36	0.262	0.01
59.99	0.00	5636.36	0.262	0.01
60.33	0.00	5636.36	0.262	0.01
60.66	0.00	5636.35	0.261	0.01
60.99	0.00	5636.35	0.261	0.01
61.33	0.00	5636.35	0.261	0.01
61.66	0.00	5636.34	0.260	0.01
61.99	0.00	5636.34	0.260	0.01
62.33	0.00	5636.34	0.259	0.01
62.66	0.00	5636.33	0.259	0.01
62.99	0.00	5636.33	0.259	0.01
63.33	0.00	5636.33	0.258	0.01
63.66	0.00	5636.32	0.258	0.01
63.99	0.00	5636.32	0.258	0.01
64.33	0.00	5636.32	0.257	0.01
64.66	0.00	5636.31	0.257	0.01
64.99	0.00	5636.31	0.256	0.01
65.33	0.00	5636.31	0.256	0.01
65.66	0.00	5636.30	0.256	0.01

DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

65.99	0.00	5636.30	0.255	0.01
66.33	0.00	5636.30	0.255	0.01
66.66	0.00	5636.29	0.255	0.01
66.99	0.00	5636.29	0.254	0.01
67.33	0.00	5636.29	0.254	0.01
67.66	0.00	5636.28	0.254	0.01
67.99	0.00	5636.28	0.253	0.01
68.33	0.00	5636.28	0.253	0.01
68.66	0.00	5636.27	0.252	0.01
68.99	0.00	5636.27	0.252	0.01
69.33	0.00	5636.27	0.252	0.01
69.66	0.00	5636.26	0.251	0.01
69.99	0.00	5636.26	0.251	0.01
70.33	0.00	5636.26	0.251	0.01
70.66	0.00	5636.25	0.250	0.01
70.99	0.00	5636.25	0.250	0.01
71.33	0.00	5636.25	0.250	0.01
71.66	0.00	5636.24	0.249	0.01
71.99	0.00	5636.24	0.249	0.01
72.33	0.00	5636.24	0.249	0.01
72.66	0.00	5636.23	0.248	0.01
72.99	0.00	5636.23	0.248	0.01
73.33	0.00	5636.23	0.247	0.01
73.66	0.00	5636.22	0.247	0.01
73.99	0.00	5636.22	0.247	0.01
74.33	0.00	5636.22	0.246	0.01

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
74.66	0.00	5636.21	0.246	0.01
74.99	0.00	5636.21	0.246	0.01
75.33	0.00	5636.21	0.245	0.01
75.66	0.00	5636.20	0.245	0.01
75.99	0.00	5636.20	0.245	0.01
76.33	0.00	5636.20	0.244	0.01
76.66	0.00	5636.19	0.244	0.01
76.99	0.00	5636.19	0.244	0.01
77.33	0.00	5636.19	0.243	0.01
77.66	0.00	5636.18	0.243	0.01
77.99	0.00	5636.18	0.243	0.01
78.33	0.00	5636.18	0.242	0.01
78.66	0.00	5636.17	0.242	0.01

DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

78.99	0.00	5636.17	0.241	0.01
79.33	0.00	5636.17	0.241	0.01
79.66	0.00	5636.16	0.241	0.01
79.99	0.00	5636.16	0.240	0.01
80.33	0.00	5636.16	0.240	0.01
80.66	0.00	5636.15	0.240	0.01
80.99	0.00	5636.15	0.239	0.01
81.33	0.00	5636.15	0.239	0.01
81.66	0.00	5636.15	0.239	0.01
81.99	0.00	5636.14	0.238	0.01
82.33	0.00	5636.14	0.238	0.01
82.66	0.00	5636.14	0.238	0.01
82.99	0.00	5636.13	0.237	0.01
83.33	0.00	5636.13	0.237	0.01
83.66	0.00	5636.13	0.237	0.01
83.99	0.00	5636.12	0.236	0.01
84.32	0.00	5636.12	0.236	0.01
84.66	0.00	5636.12	0.236	0.01
84.99	0.00	5636.11	0.235	0.01
85.32	0.00	5636.11	0.235	0.01
85.66	0.00	5636.11	0.235	0.01
85.99	0.00	5636.10	0.234	0.01
86.32	0.00	5636.10	0.234	0.01
86.66	0.00	5636.10	0.234	0.01
86.99	0.00	5636.09	0.233	0.01
87.32	0.00	5636.09	0.233	0.01
87.66	0.00	5636.09	0.233	0.01
87.99	0.00	5636.08	0.232	0.01
88.32	0.00	5636.08	0.232	0.01
88.66	0.00	5636.08	0.232	0.01
88.99	0.00	5636.08	0.231	0.01
89.32	0.00	5636.07	0.231	0.01
89.66	0.00	5636.07	0.230	0.01
89.99	0.00	5636.07	0.230	0.01
90.32	0.00	5636.06	0.230	0.01
90.66	0.00	5636.06	0.229	0.01
90.99	0.00	5636.06	0.229	0.01
91.32	0.00	5636.05	0.229	0.01
91.66	0.00	5636.05	0.228	0.01
91.99	0.00	5636.05	0.228	0.01
92.32	0.00	5636.04	0.228	0.01
92.66	0.00	5636.04	0.227	0.01
92.99	0.00	5636.04	0.227	0.01

DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
93.32	0.00	5636.04	0.227	0.01
93.66	0.00	5636.03	0.226	0.01
93.99	0.00	5636.03	0.226	0.01
94.32	0.00	5636.03	0.226	0.01
94.66	0.00	5636.02	0.225	0.01
94.99	0.00	5636.02	0.225	0.01
95.32	0.00	5636.02	0.225	0.01
95.66	0.00	5636.01	0.224	0.01
95.99	0.00	5636.01	0.224	0.01
96.32	0.00	5636.01	0.224	0.01
96.66	0.00	5636.00	0.223	0.01
96.99	0.00	5636.00	0.223	0.01
97.32	0.00	5636.00	0.223	0.01
97.66	0.00	5635.99	0.222	0.01
97.99	0.00	5635.99	0.222	0.01
98.32	0.00	5635.99	0.222	0.01
98.66	0.00	5635.98	0.221	0.01
98.99	0.00	5635.98	0.221	0.01
99.32	0.00	5635.98	0.221	0.01
99.66	0.00	5635.97	0.220	0.01
99.99	0.00	5635.97	0.220	0.01
100.32	0.00	5635.96	0.220	0.01
100.66	0.00	5635.96	0.220	0.01
100.99	0.00	5635.96	0.219	0.01
101.32	0.00	5635.95	0.219	0.01
101.66	0.00	5635.95	0.219	0.01
101.99	0.00	5635.95	0.218	0.01
102.32	0.00	5635.94	0.218	0.01
102.66	0.00	5635.94	0.218	0.01
102.99	0.00	5635.94	0.217	0.01
103.32	0.00	5635.93	0.217	0.01
103.66	0.00	5635.93	0.217	0.01
103.99	0.00	5635.93	0.216	0.01
104.32	0.00	5635.92	0.216	0.01
104.66	0.00	5635.92	0.216	0.01
104.99	0.00	5635.91	0.215	0.01
105.32	0.00	5635.91	0.215	0.01
105.66	0.00	5635.91	0.215	0.01
105.99	0.00	5635.90	0.214	0.01

DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

106.32	0.00	5635.90	0.214	0.01
106.66	0.00	5635.90	0.214	0.01
106.99	0.00	5635.89	0.213	0.01
107.32	0.00	5635.89	0.213	0.01
107.66	0.00	5635.89	0.213	0.01
107.99	0.00	5635.88	0.212	0.01
108.32	0.00	5635.88	0.212	0.01
108.66	0.00	5635.87	0.212	0.01
108.99	0.00	5635.87	0.211	0.01
109.32	0.00	5635.87	0.211	0.01
109.66	0.00	5635.86	0.211	0.01
109.99	0.00	5635.86	0.210	0.01
110.32	0.00	5635.86	0.210	0.01
110.66	0.00	5635.85	0.210	0.01
110.99	0.00	5635.85	0.209	0.01
111.32	0.00	5635.85	0.209	0.01
111.66	0.00	5635.84	0.209	0.01

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
111.99	0.00	5635.84	0.208	0.01
112.32	0.00	5635.83	0.208	0.01
112.66	0.00	5635.83	0.208	0.01
112.99	0.00	5635.83	0.207	0.01
113.32	0.00	5635.82	0.207	0.01
113.66	0.00	5635.82	0.207	0.01
113.99	0.00	5635.82	0.206	0.01
114.32	0.00	5635.81	0.206	0.01
114.66	0.00	5635.81	0.206	0.01
114.99	0.00	5635.81	0.205	0.01
115.32	0.00	5635.80	0.205	0.01
115.66	0.00	5635.80	0.205	0.01
115.99	0.00	5635.80	0.204	0.01
116.32	0.00	5635.79	0.204	0.01
116.66	0.00	5635.79	0.204	0.01
116.99	0.00	5635.78	0.203	0.01
117.32	0.00	5635.78	0.203	0.01
117.65	0.00	5635.78	0.203	0.01
117.99	0.00	5635.77	0.203	0.01
118.32	0.00	5635.77	0.202	0.01
118.65	0.00	5635.77	0.202	0.01
118.99	0.00	5635.76	0.202	0.01

DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

119.32	0.00	5635.76	0.201	0.01
119.65	0.00	5635.76	0.201	0.01
119.99	0.00	5635.75	0.201	0.01
120.32	0.00	5635.75	0.200	0.01
120.65	0.00	5635.75	0.200	0.01
120.99	0.00	5635.74	0.200	0.01
121.32	0.00	5635.74	0.199	0.01
121.65	0.00	5635.73	0.199	0.01
121.99	0.00	5635.73	0.199	0.01
122.32	0.00	5635.73	0.198	0.01
122.65	0.00	5635.72	0.198	0.01
122.99	0.00	5635.72	0.198	0.01
123.32	0.00	5635.72	0.197	0.01
123.65	0.00	5635.71	0.197	0.01
123.99	0.00	5635.71	0.197	0.01
124.32	0.00	5635.71	0.196	0.01
124.65	0.00	5635.70	0.196	0.01
124.99	0.00	5635.70	0.196	0.01
125.32	0.00	5635.70	0.195	0.01
125.65	0.00	5635.69	0.195	0.01
125.99	0.00	5635.69	0.195	0.01
126.32	0.00	5635.68	0.194	0.01
126.65	0.00	5635.68	0.194	0.01
126.99	0.00	5635.68	0.194	0.01
127.32	0.00	5635.67	0.193	0.01
127.65	0.00	5635.67	0.193	0.01
127.99	0.00	5635.67	0.193	0.01
128.32	0.00	5635.66	0.192	0.01
128.65	0.00	5635.66	0.192	0.01
128.99	0.00	5635.66	0.192	0.01
129.32	0.00	5635.65	0.192	0.01
129.65	0.00	5635.65	0.191	0.01
129.99	0.00	5635.65	0.191	0.01
130.32	0.00	5635.64	0.191	0.01
TIME	INFLOW	ELEV	VOLUME	OUTFLOW
(HRS)	(CFS)	(FEET)	(AC-FT)	(CFS)
130.65	0.00	5635.64	0.190	0.01
130.99	0.00	5635.63	0.190	0.01
131.32	0.00	5635.63	0.190	0.01
131.65	0.00	5635.63	0.189	0.01
131.99	0.00	5635.62	0.189	0.01

DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

132.32 0.00 5635.62 0.189 0.01
 132.65 0.00 5635.62 0.188 0.01
 132.99 0.00 5635.61 0.188 0.01
 PEAK DISCHARGE = 77.598 CFS - PEAK OCCURS AT HOUR 1.70
 MAXIMUM WATER SURFACE ELEVATION = 5639.872
 MAXIMUM STORAGE = 0.8080 AC-FT INCREMENTAL TIME= 0.033330HRS

*

ADD HYD ID=27 HYDNO=209
 ID=37 ID=1
 PRINT HYD ID=27 CODE=10

PARTIAL HYDROGRAPH 209.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
0.000	0.0	26.664	0.1	53.328	0.0	79.992	0.0	106.656	0.0
0.333	0.0	26.997	0.0	53.661	0.0	80.325	0.0	106.989	0.0
0.667	0.5	27.331	0.0	53.995	0.0	80.659	0.0	107.322	0.0
1.000	2.6	27.664	0.0	54.328	0.0	80.992	0.0	107.656	0.0
1.333	10.1	27.997	0.0	54.661	0.0	81.325	0.0	107.989	0.0
1.666	110.0	28.330	0.0	54.995	0.0	81.659	0.0	108.322	0.0
2.000	50.6	28.664	0.0	55.328	0.0	81.992	0.0	108.656	0.0
2.333	13.3	28.997	0.0	55.661	0.0	82.325	0.0	108.989	0.0
2.666	5.6	29.330	0.0	55.994	0.0	82.658	0.0	109.322	0.0
3.000	2.9	29.664	0.0	56.328	0.0	82.992	0.0	109.656	0.0
3.333	1.8	29.997	0.0	56.661	0.0	83.325	0.0	109.989	0.0
3.666	1.3	30.330	0.0	56.994	0.0	83.658	0.0	110.322	0.0
4.000	1.1	30.664	0.0	57.328	0.0	83.992	0.0	110.655	0.0
4.333	1.0	30.997	0.0	57.661	0.0	84.325	0.0	110.989	0.0
4.666	0.9	31.330	0.0	57.994	0.0	84.658	0.0	111.322	0.0
5.000	0.9	31.663	0.0	58.328	0.0	84.991	0.0	111.655	0.0
5.333	0.9	31.997	0.0	58.661	0.0	85.325	0.0	111.989	0.0
5.666	1.0	32.330	0.0	58.994	0.0	85.658	0.0	112.322	0.0
5.999	1.0	32.663	0.0	59.328	0.0	85.991	0.0	112.655	0.0
6.333	1.0	32.997	0.0	59.661	0.0	86.325	0.0	112.988	0.0
6.666	1.0	33.330	0.0	59.994	0.0	86.658	0.0	113.322	0.0
6.999	1.0	33.663	0.0	60.327	0.0	86.991	0.0	113.655	0.0
7.333	1.0	33.997	0.0	60.661	0.0	87.325	0.0	113.988	0.0
7.666	1.0	34.330	0.0	60.994	0.0	87.658	0.0	114.322	0.0
7.999	1.0	34.663	0.0	61.327	0.0	87.991	0.0	114.655	0.0
8.333	1.0	34.996	0.0	61.661	0.0	88.324	0.0	114.988	0.0

DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

8.666	1.0	35.330	0.0	61.994	0.0	88.658	0.0	115.322	0.0
8.999	1.0	35.663	0.0	62.327	0.0	88.991	0.0	115.655	0.0
9.332	1.0	35.996	0.0	62.661	0.0	89.324	0.0	115.988	0.0
9.666	1.0	36.330	0.0	62.994	0.0	89.658	0.0	116.321	0.0
9.999	1.0	36.663	0.0	63.327	0.0	89.991	0.0	116.655	0.0
10.332	1.0	36.996	0.0	63.660	0.0	90.324	0.0	116.988	0.0
10.666	1.0	37.330	0.0	63.994	0.0	90.658	0.0	117.321	0.0
10.999	1.0	37.663	0.0	64.327	0.0	90.991	0.0	117.655	0.0
11.332	1.0	37.996	0.0	64.660	0.0	91.324	0.0	117.988	0.0
11.665	1.0	38.330	0.0	64.994	0.0	91.657	0.0	118.321	0.0
11.999	1.0	38.663	0.0	65.327	0.0	91.991	0.0	118.655	0.0
12.332	1.0	38.996	0.0	65.660	0.0	92.324	0.0	118.988	0.0
12.665	1.0	39.329	0.0	65.994	0.0	92.657	0.0	119.321	0.0
12.999	1.0	39.663	0.0	66.327	0.0	92.991	0.0	119.654	0.0
13.332	1.0	39.996	0.0	66.660	0.0	93.324	0.0	119.988	0.0
13.665	1.0	40.329	0.0	66.993	0.0	93.657	0.0	120.321	0.0
13.999	1.0	40.663	0.0	67.327	0.0	93.991	0.0	120.654	0.0
14.332	1.0	40.996	0.0	67.660	0.0	94.324	0.0	120.988	0.0
14.665	1.0	41.329	0.0	67.993	0.0	94.657	0.0	121.321	0.0
14.998	1.0	41.663	0.0	68.327	0.0	94.990	0.0	121.654	0.0
15.332	1.0	41.996	0.0	68.660	0.0	95.324	0.0	121.988	0.0
15.665	1.0	42.329	0.0	68.993	0.0	95.657	0.0	122.321	0.0
15.998	1.0	42.662	0.0	69.326	0.0	95.990	0.0	122.654	0.0
16.332	1.0	42.996	0.0	69.660	0.0	96.324	0.0	122.987	0.0
16.665	1.0	43.329	0.0	69.993	0.0	96.657	0.0	123.321	0.0
16.998	1.0	43.662	0.0	70.326	0.0	96.990	0.0	123.654	0.0
17.332	1.0	43.996	0.0	70.660	0.0	97.324	0.0	123.987	0.0
17.665	1.0	44.329	0.0	70.993	0.0	97.657	0.0	124.321	0.0
17.998	1.0	44.662	0.0	71.326	0.0	97.990	0.0	124.654	0.0
18.331	1.0	44.996	0.0	71.660	0.0	98.323	0.0	124.987	0.0
18.665	1.0	45.329	0.0	71.993	0.0	98.657	0.0	125.321	0.0
18.998	1.0	45.662	0.0	72.326	0.0	98.990	0.0	125.654	0.0
19.331	1.0	45.995	0.0	72.659	0.0	99.323	0.0	125.987	0.0
19.665	1.0	46.329	0.0	72.993	0.0	99.657	0.0	126.320	0.0
19.998	1.0	46.662	0.0	73.326	0.0	99.990	0.0	126.654	0.0
20.331	1.0	46.995	0.0	73.659	0.0	100.323	0.0	126.987	0.0
20.665	1.0	47.329	0.0	73.993	0.0	100.656	0.0	127.320	0.0
20.998	1.0	47.662	0.0	74.326	0.0	100.990	0.0	127.654	0.0
21.331	1.0	47.995	0.0	74.659	0.0	101.323	0.0	127.987	0.0
21.664	1.0	48.329	0.0	74.993	0.0	101.656	0.0	128.320	0.0
21.998	1.0	48.662	0.0	75.326	0.0	101.990	0.0	128.653	0.0
22.331	1.0	48.995	0.0	75.659	0.0	102.323	0.0	128.987	0.0
22.664	1.0	49.328	0.0	75.992	0.0	102.656	0.0	129.320	0.0

DRAINAGE REPORT – PALOMAS MEADOW SUBDIVISION

22.998	1.0	49.662	0.0	76.326	0.0	102.990	0.0	129.653	0.0
23.331	1.0	49.995	0.0	76.659	0.0	103.323	0.0	129.987	0.0
23.664	1.0	50.328	0.0	76.992	0.0	103.656	0.0	130.320	0.0
23.998	1.0	50.662	0.0	77.326	0.0	103.989	0.0	130.653	0.0
24.331	0.3	50.995	0.0	77.659	0.0	104.323	0.0	130.987	0.0
24.664	0.1	51.328	0.0	77.992	0.0	104.656	0.0	131.320	0.0
24.997	0.1	51.662	0.0	78.326	0.0	104.989	0.0	131.653	0.0
25.331	0.1	51.995	0.0	78.659	0.0	105.323	0.0	131.986	0.0
25.664	0.1	52.328	0.0	78.992	0.0	105.656	0.0	132.320	0.0
25.997	0.1	52.661	0.0	79.325	0.0	105.989	0.0	132.653	0.0
26.331	0.1	52.995	0.0	79.659	0.0	106.323	0.0	132.986	0.0

RUNOFF VOLUME = 1.93595 INCHES = 7.6230 ACRE-FEET
 PEAK DISCHARGE RATE = 112.62 CFS AT 1.600 HOURS BASIN AREA = 0.0738 SQ. MI.

*

FINISH

NORMAL PROGRAM FINISH END TIME (HR:MIN:SEC) = 10:42:23