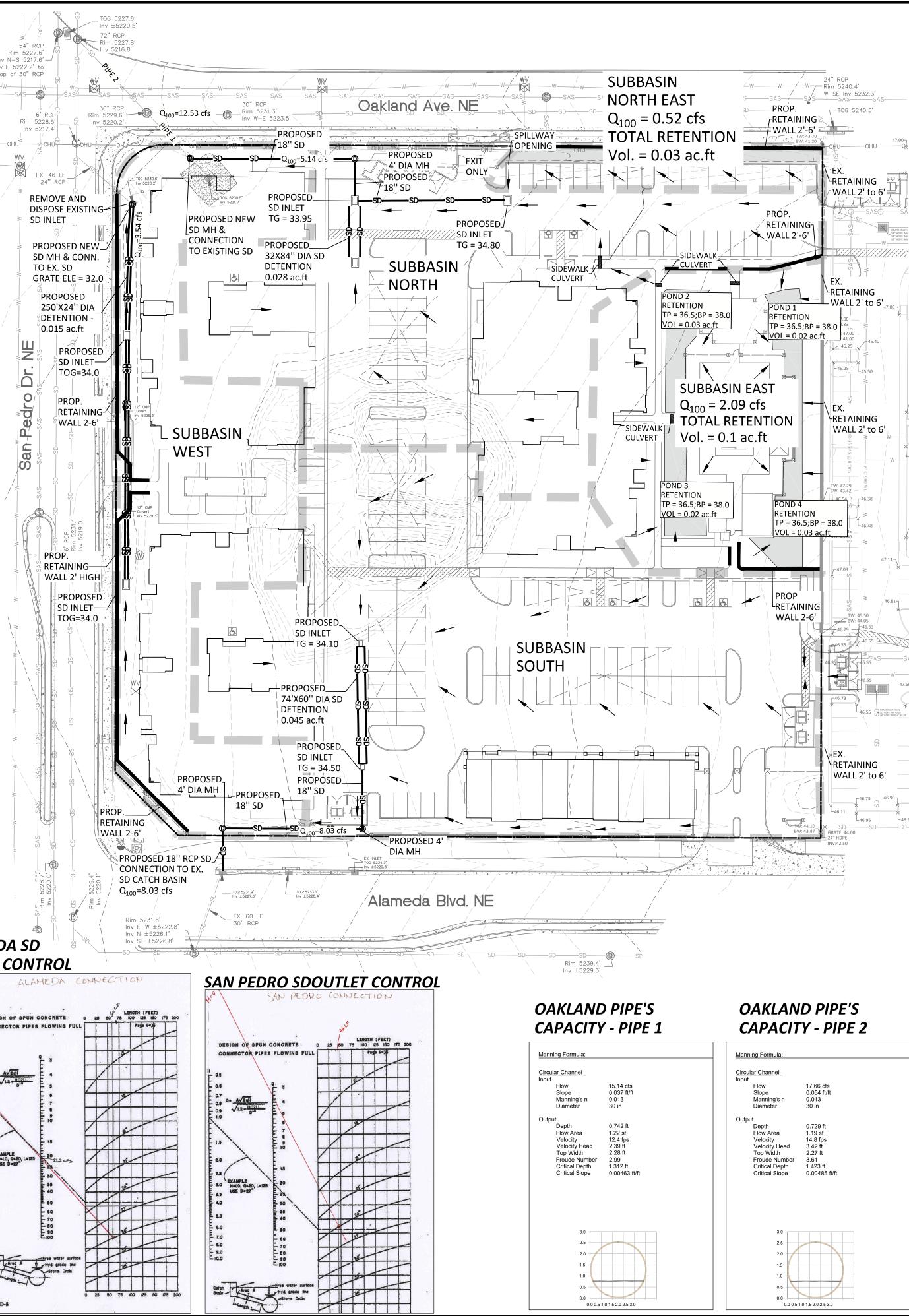
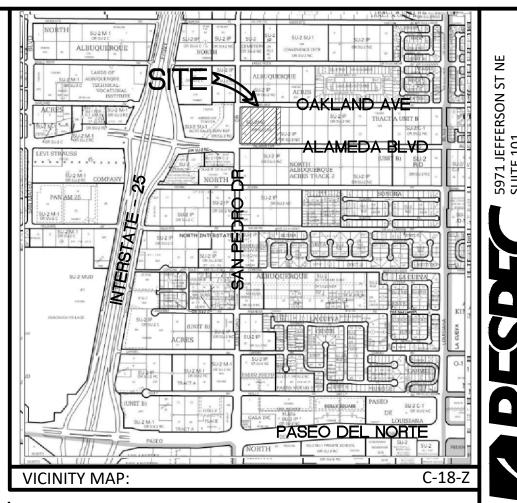
Hydrology Calc						]	LEGEND				
lydrology Calcu	<u>ulations</u> altions are based on	Albuquerquela	Development P	TOLESS Manual C	Secitor 22.2				PERTY LINE		
-	are based on	יזיסטיעעפועueis	, revelopment P	TOCESS IVIDIUAL, S	JULION ZZ.Z				TING RETAININ	NG WALL	
unoff Rate: eatment Type Area	35						SD		IT SD	E	
Subbasin	Area <sub>A</sub> (ac)	Area <sub>B</sub> (ac)	Area <sub>C</sub> (ac)	Area <sub>D</sub> (ac)	Total (ac)				T SD INLET		
Subbasin North Subbasin South	0	0.0678	0.0678	0.9944	1.1300 1.7000		luuniimm'		•		
Subbasin West	0	0.2295	0.0850	0.5355	0.8500			PRO	POSED RETAIN	IING WALL	
Subbasin East Subbasin North Ea	o ost O	0.3000	0.2100	0.1800	0.6000					SIN BOUNDARY	
Nater C							<b></b>	-			
ater Quality:	Zuancy								POSED SD INLE		
quired Water Quality v Subbasin	olume for first flush of 0. Required Volume (cu. f		rains to	Volume Provided (	Cu Et)						
Subbasin North Subbasin South	1,227 1,972	Nor	th Pond Ith Pond	1,230							
Subbasin West Subbasin East	661 222	We	est Pond -4 (Pool Area)	665 4,945 Retaine	ed						
Subbasin North East Total	89 4,171	North	East Pond nding TOTAL	1,290 Retaine 11,175							
/olume		·		,	F	Pondin	na				
							•				
	for 100yr-10d	-				ubbasin Eas					
-	s East and Nor					Elev.	Area (Sq. Ft.) Vol	(Cu. Ft.) Cum	. (Cu. Ft.)		
From table A-8 in treatment type i	n the COA DPM, the in zone 3 are:	e values of exc	cess precipitatio	ons for each		5236.5	99.0	0	0	Λ	
	E <sub>A</sub> =	- 0.66"				5237.0 5237.5	285.0 584.0	96 217	96 313		
	$E_{B} = E_{C} =$	- 0.92"				5237.5	1065.0		988		
<b>T</b> L	E <sub>D</sub> =	= 2.36"									
The weighted exe following:	cess precipitation f	or each treatn	nent type is cal	culated as		VQ Pond EAST Elev.	BASIN 2 Area (Sq. Ft.) Vol	(Cu. Ft ) Cum	. (Cu. Ft )		
	Waighted E = $\frac{E_A * A_A}{E_A * E_A * E_A}$	$\mathbf{A} + \mathbf{E}_{\mathbf{B}} * \mathbf{A}_{\mathbf{B}} + \mathbf{E}_{\mathbf{C}} *$	$*A_{c} + E_{D} * A_{D}$			5236.5	105.0	0	0		
		$A_A + A_B + \overline{A_C}$	+ A <sub>D</sub>			5237.0			122		
	was multiplied by e				-	5237.5 5238.0	789.0		569 1371		
volume. Then, th volume:	e following equation	שט (פ-ש) was us	seu ເບ get the 1	lu-udy		I	I			Fotal Pone 988+1371	
	$V_{10DAYS} = V_{360} + A$	<sub>D</sub> * (P <sub>10DAYS</sub> - P <sub>360</sub> )	) / 12 in/ft		<b>'</b>	VQ Pond EAST Elev.	• <b>BASIN 3</b> Area (Sq. Ft.) Vol	(Cu. Ft.) Cum	. (Cu. Ft.)	988+1371 = 4,945 cu	
P values were tak	ken from table A-2,					5236.5	262.0	0	0		
	Pjn	days = 4.90				5237.0			212		
		$_{0days} = 2.60$				5238.0	1286.0	937	1149		
The calculated V	10-day for subbasir	ns North East a	and East:			VQ Pond EAST	BASIN 4				
Subbasin		360 (Cu. Ft.)		)days (Cu. Ft.)	1     [	Elev.	Area (Sq. Ft.) Vol	(Cu. Ft.) Cum	. (Cu. Ft.)		
				• · · · · · · · · · · · · · · · · · ·		'	<b>a</b> a				
Subbasin East		3226.71		4729.5		5236.0 5237.0	231.0 667.0	0 449	0 449		
Subbasin East Subbasin North		3226.71 809.34		4729.5 1410.5		5236.0 5237.0 5238.0	667.0	449	0		
Subbasin North	D - Input	809.34				5237.0 5238.0	667.0 1309.0 rtheast Pond	449	0 449		
Subbasin North Subbasin North PROJECT NAME: JOB NO. – 0323 DATE: Jan. 19 2 INPUT FILE NAME OUTPUT FILE NAME OUTPUT FILE NAME MODIFIED BY NIR BASIN 117.2–NOR BASIN 117.3–SOU	D East D – Input LEGACY NAA APARTN 3018 E: NAANF.hym	809.34 MENTS PHASE 2	NORTH & WEST	1410.5		5237.0 5238.0 <b>ubbasin No</b> Area (Sq. Ft.)	667.0 1309.0 •rtheast Pond Depth (ft)	449 988 988 Vol (Cu. Ft.)	0 449		
Subbasin North Subbasin North PROJECT NAME: JOB NO. – 0323 DATE: Jan. 19 2 INPUT FILE NAME OUTPUT FILE NAME MODIFIED BY NIR BASIN 117.2–NOR BASIN 117.3–SOU Additional Subsequences	D East D - Input LEGACY NAA APARTN 2018 E: NAANF.hym ME: NAANF.out 1T F. ON JAN. 19 201 2TH WAS REPLACED W TH WAS REPLACED W TH WAS REPLACED W TH WAS REPLACED W TH WAS REPLACED W	809.34 MENTS PHASE 2 MENTS PHASE 3 MENTS PHA	NORTH & WEST SOUTH ************************************	<u>1410.5</u>		5237.0 5238.0 ubbasin No Area (Sq. Ft.) 1613	667.0 1309.0 ortheast Pond Depth (ft) 0.8 DNO=BasinEast DA PER B=50 PER C=2	449 988 Vol (Cu. Ft.) 1290.4	0 449 1437		
Subbasin North Subbasin North PROJECT NAME: JOB NO. – 0323 DATE: Jon. 19 2 INPUT FILE NAME OUTPUT FILE NAME MODIFIED BY NIR BASIN 117.2–NOR BASIN 117.2–NOR BASIN 117.3–SOU	D East D - Input LEGACY NAA APARTN 31 2018 E: NAANF.hym ME: NAANF.out 1T F. ON JAN. 19 201 2TH WAS REPLACED W TH WAS REPLACED W	809.34 MENTS PHASE 2 MENTS PHASE 2 MITH SUBBASINS MITH SUBBASINS S MITH S	NORTH & WEST SOUTH N ONE=2.14 DT=0.05 HRS	1410.5 *** *S** COM PRIN	*** SUBBASIN E IPUTE NM HYD NT HYD	5237.0 5238.0 ubbasin No Area (Sq. Ft.) 1613 AST ID=6 HYI PER A=0 HYI PER A=0 HYI ID=6 CODE	667.0 1309.0 ortheast Pond Depth (ft) 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8	449 988 Vol (Cu. Ft.) 1290.4	0 449 1437		
Subbasin North	D East D - Input LEGACY NAA APARTN 1018 E: NAANF.hym ME: NAANF.out 1T F. ON JAN. 19 201 1T WAS REPLACED W TH WAS REPLACED W TH WAS REPLACED W Storm event TYPE=2 RAIN QUA RAIN SIX=2.60 F PEDRO STORM DRAIN NORTH	809.34 MENTS PHASE 2 MENTS PHASE 3 MENTS PHA	NORTH & WEST SOUTH N ONE=2.14 DT=0.05 HRS	1410.5 *** *S** COM PRIN *S**	*** SUBBASIN E IPUTE NM HYD	5237.0 5238.0 ubbasin No Area (Sq. Ft.) 1613 1613 1613 1613 1613 1613 081 10=6 HYI PER A=0 HYI TP=0.1333 H ID=6 CODE 0RTH EAST ID=7 HYI	667.0 1309.0 ortheast Pond Depth (ft) 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8	449 988 Vol (Cu. Ft.) 1290.4	0 449 1437		
Subbasin North	D East D - Input LEGACY NAA APARTM 1018 E: NAANF.hym ME: NAANF.out 1T F. ON JAN. 19 201 1T H WAS REPLACED W 1T TYPE=2 RAIN QUA RAIN SIX=2.60 F PEDRO STORM DRAIN NORTH ID=1 HYD NO=SF PER A=0 PER B=2 TP=0.1333 HR MASS	809.34 809.34 MENTS PHASE 2 MENTS	NORTH & WEST SOUTH N ONE=2.14 DT=0.05 HRS MPSON REPORT) 2 DA=0.00348 SC	1410.5 *** *S** COM PRIN *S** COM	*** SUBBASIN E IPUTE NM HYD NT HYD *** SUBBASIN N	5237.0 5238.0 ubbasin No Area (Sq. Ft.) 1613 Area (Sq. Ft.) 1613 ID=6 HYI PER A=0 HYI PER A=0 HYI D=6 CODE ORTH EAST ID=7 HYI PER A=0 H	667.0         1309.0         ortheast Pond         Depth (ft)         0.8         0.9         0.9         0.9 <td>449 988 Vol (Cu. Ft.) 1290.4</td> <td>0 449 1437</td> <td></td> <td></td>	449 988 Vol (Cu. Ft.) 1290.4	0 449 1437		
Subbasin North	D East D East D - Input LEGACY NAA APARTN 1018 E: NAANF.out 11T F. ON JAN. 19 201 11T WAS REPLACED W 11T YEE=2 RAIN QUA RAIN SIX=2.60 F PEDRO STORM DRAIN NORTH ID=1 HYD NO=SF PER A=0 PER B=3	809.34 809.34 MENTS PHASE 2 MENTS	NORTH & WEST SOUTH N ONE=2.14 DT=0.05 HRS MPSON REPORT) 2 DA=0.00348 SC	1410.5 *** *S** COM PRIN *S** COM PRIN *S** COM PRIN *S**	*** SUBBASIN E IPUTE NM HYD NT HYD NT HYD NT HYD NT HYD EAST POND RAT	5237.0 5238.0 ubbasin No Area (Sq. Ft.) 1613 Area (Sq. Ft.) 1613 I613 I050 PER A=0 I TP=0.1333 H ID=7 CODE ID=7 CODE ID=7 CODE ID=7 CODE	667.0         1309.0         ortheast Pond         Depth (ft)         0.8         0.9 <td>449 988 Vol (Cu. Ft.) 1290.4</td> <td>0 449 1437</td> <td></td> <td></td>	449 988 Vol (Cu. Ft.) 1290.4	0 449 1437		
Subbasin North PROJECT NAME: * DATE: Jan. 19 2 * INPUT FILE NAME * NOUTPUT FILE NAME * MODIFIED BY NIR * BASIN 117.2–NOR * BASIN 117.3–SOU * 24–hr, 100 year INFALL ***** COMPUTE SAN ***** BASIN 117.20– MPUTE NM HYD INT HYD ****RESPEC CALCUL	D East D East D - Input LEGACY NAA APARTN 1018 E: NAANF.hym ME: NAANF.out 11T F. ON JAN. 19 201 12TH WAS REPLACED W 12TH W	809.34 809.34 MENTS PHASE 2 MENTS	NORTH & WEST SOUTH N ONE=2.14 DT=0.05 HRS MPSON REPORT) 2 DA=0.00348 SC	1410.5 *** *S** COM PRIN *S** COM PRIN *S** COM PRIN *S**	*** SUBBASIN E IPUTE NM HYD NT HYD *** SUBBASIN N IPUTE NM HYD NT HYD NT HYD EAST POND RAT ITE RESERVOIR OUT	5237.0 5238.0 ubbasin No Area (Sq. Ft.) 1613 Area (Sq. Ft.) 1613 Ib=6 HYI PER A=0 I TP=0.1333 H ID=7 CODE ID=7 CODE ID=7 CODE ID=8 HY FLOW(CFS) STOF	667.0       1309.0       Intheast Pond       Depth (ft)       0.8       Depth (ft)       If MASS RAIN=-1       =20       Depth (ft)       Image: the state of the s	449 988 Vol (Cu. Ft.) 1290.4 	0 449 1437		
Subbasin North	D East D East D - Input LEGACY NAA APARTM 1018 E: NAANF.hym ME: NAANF.out 1T F. ON JAN. 19 201 TH WAS REPLACED W TH WAS REPLACED W Storm event TYPE=2 RAIN QUA RAIN SIX=2.60 F PEDRO STORM DRAIN NORTH ID=1 HYD NO=SF PER A=0 PER B=20 CATIONS TH ID=3 HYD NO=BC PER A=0 PER B=0	809.34 MENTS PHASE 2 MENTS PHA	NORTH & WEST SOUTH ************************************	1410.5 *** *S*** COM PRIN *S** COM PRIN *S* ROU	*** SUBBASIN E IPUTE NM HYD VT HYD VT HYD VT HYD VT HYD VT HYD EAST POND RAT VT HYD VT HYD EAST POND RAT VT HYD VT HYD EAST POND RAT VT HYD ITE RESERVOIR OUT O .01	5237.0 5238.0 ubbasin No Area (Sq. Ft.) 1613 Area (Sq. Ft.) 1613 I613 I013 I013 I013 I013 I013 I013 I013 I0	667.0         1309.0         Intheast Pond         Depth (ft)         0.8         Depth (ft)         0.8         Depth (ft)         0.8         Per B=50 PER C=:         IR MASS RAIN=-1         =20         DNO=BasinNorthEa         PER B=20 PER C=:         IR MASS RAIN=-1         =20         C=20	449 988 Vol (Cu. Ft.) 1290.4 	0 449 1437		
Subbasin North	D East D East D - Input LEGACY NAA APARTM 1018 E: NAANF.hym ME: NAANF.out 11T F. ON JAN. 19 201 12T F. ON JAN. 19 201 12T WAS REPLACED W 12T HYD STREAM 10T HYD NO STREAM 10T HYD HYD NO STREAM 10T HYD	809.34 MENTS PHASE 2 MENTS PHA	NORTH & WEST SOUTH ************************************	1410.5 *** *** *S** COM PRIN *S** COM PRIN *S** COM PRIN *S € ROU *S ↑	*** SUBBASIN E IPUTE NM HYD NT HYD NT HYD NT HYD NT HYD NT HYD NT HYD NT HYD EAST POND RAT ITE RESERVOIR OUT 0 .01 NORTH EAST PO ITE RESERVOIR	5237.0 5238.0 <b>ubbasin No</b> Area (Sq. Ft.) 1613 Area (Sq. Ft.) 1613 Area (Sq. Ft.) 1613 ORTH EAST ID=6 HYI PER A=0 HYI PER A=0 HYI PER A=0 HYI PER A=0 HYI PER A=0 HYI PER A=0 HYI ID=7 CODE ID=7 CODE ID=7 CODE ID=8 HY FLOW(CFS) STOF 0 0.10 ND RATING CUR ID=9 HY	667.0         1309.0         Import the set Poind         Depth (ft)         0.8         0.8         0.8         0.8         0.8         0.8         0.8         1309.0         0.8         0.9         0.9         1.9 <td>449 988 Vol (Cu. Ft.) 1290.4 </td> <td>0 449 1437</td> <td></td> <td></td>	449 988 Vol (Cu. Ft.) 1290.4 	0 449 1437		
Subbasin North	D East D East D – Input LEGACY NAA APARTN 1018 E: NAANF.hym ME: NAANF.out 11T F. ON JAN. 19 201 12TH WAS REPLACED W 12TH W	809.34 809.34 MENTS PHASE 2 MENTS	NORTH & WEST SOUTH N ONE=2.14 DT=0.05 HRS MPSON REPORT) 2 DA=0.00348 SQ ER D=50 .0017 SQ MI D=88	1410.5 *** *** *S** COM PRIN *S** COM PRIN *S** COM PRIN *S € ROU *S ↑	*** SUBBASIN E IPUTE NM HYD NT HYD NT HYD NT HYD NT HYD NT HYD NT HYD EAST POND RAT ITE RESERVOIR OUT 0 .01 NORTH EAST PO ITE RESERVOIR	5237.0 5238.0 <b>ubbasin No</b> Area (Sq. Ft.) 1613 Area (Sq. Ft.) 1613 Area (Sq. Ft.) 1613 ORTH EAST ID=6 HYI PER A=0 HYI PER A=0 HYI PER A=0 HYI PER A=0 HYI PER A=0 HYI PER A=0 HYI ID=7 CODE ID=7 CODE ID=7 CODE ID=8 HY FLOW(CFS) STOF 0 0.10 ND RATING CUR ID=9 HY	667.0       1309.0       Intheast Pond       Depth (ft)       0.8       0.9       1.0	449 988 Vol (Cu. Ft.) 1290.4 Vol (Cu. Ft.) 1290.4 Secondary Second	0 449 1437		
Subbasin North PROJECT NAME: JOB NO. – 0323 DATE: Jan. 19 2 INPUT FILE NAME OUTPUT FILE NAME OUTPUT FILE NAME MODIFIED BY NIR BASIN 117.2–NOR BASIN 117.2–NOR BASIN 117.3–SOU X************************************	D East D East D East D East LEGACY NAA APARTM 11 1018 E: NAANF.out 11 F. ON JAN. 19 201 11 F. ON JAN. 19 201 11 F. ON JAN. 19 201 11 WAS REPLACED W 11 WAS REPLACED W 12 WAS REPLACED W 12 WAS REPLACED W 12 WAS REPLACED W 12 WAS REPLACED W 13 WAS REPLACED W 14 WAS REPLACED W 10 WA	809.34 809.34 MENTS PHASE 2 MENTS	NORTH & WEST SOUTH N ONE=2.14 DT=0.05 HRS MPSON REPORT) 2 DA=0.00348 SQ ER D=50 .0017 SQ MI D=88	1410.5 *** *S** COM PRIN *S** COM PRIN *S* ROU *S N ROU *S N ROU	*** SUBBASIN E IPUTE NM HYD NT HYD NT HYD NT HYD NT HYD EAST POND RAT OUT OUT NORTH EAST POU ITE RESERVOIR OUT OUT OUT OUT OUT OUT OUT OUT OUT OUT	5237.0 5238.0 ubbasin No Area (Sq. Ft.) 1613 Area (Sq. Ft.) 1613 Area (Sq. Ft.) 1613 Area (Sq. Ft.) 1613 Area (Sq. Ft.) 1613 Area (Sq. Ft.) PER A=0 HYE PER A=0 HYE ID=6 HYE ID=7 CODE ID=7 HYE ID=7 CODE ID=7 CODE ID=7 CODE ID=8 HY FLOW(CFS) STOF 0 0.10 ND RATING CUR ID=9 HY FLOW(CFS) STOF 0 0.03	667.0           1309.0           ortheast Pond           Depth (ft)           0.8           1.8	449 988 Vol (Cu. Ft.) 1290.4 Vol (Cu. Ft.) 1290.4 Secondary Second	0 449 1437		
Subbasin North	D East D East D East LEGACY NAA APARTN 1 2018 E: NAANF.hym ME: NAANF.out 1TF. ON JAN. 19 201 TH WAS REPLACED W TH WAS REPLACED W TH WAS REPLACED W TH WAS REPLACED W TYPE=2 RAIN QU/ RAIN SIX=2.60 F PEDRO STORM DRAIN NORTH ID=1 HYD NO=SF PER A=0 PER B=0 TP=0.1333 HR MASS ID=1 CODE=20 ITH ID=3 HYD NO=BR PER A=0 PER B=0 TP=0.1333 HR MASS ID=3 CODE=20 ITH ID=4 HYD NO=BR PER A=0 PER B=0 TP=0.1333 HR MASS ID=4 CODE=20 ST	809.34 MENTS PHASE 2 MENTS PHASE 2	NORTH & WEST SOUTH N ONE=2.14 DT=0.05 HRS MPSON REPORT) 2 DA=0.00348 SQ ER D=50 0017 SQ MI D=88 .0026 SQ MI D=94	1410.5 *** *S** COM PRIN *S** COM PRIN PRIN *S F ROU *S N ROU *S N ROU	*** SUBBASIN E IPUTE NM HYD NT HYD NT HYD NT HYD NT HYD NT HYD NT HYD NT HYD NT HYD NT HYD ITE RESERVOIR OUT O .01 NORTH EAST PO ITE RESERVOIR OUT O .01 NORTH EAST PO ITE RESERVOIR OUT O .01	5237.0 5238.0 ubbasin No Area (Sq. Ft.) 1613 Area (Sq. Ft.)	667.0           1309.0           ortheast Pond           Depth (ft)           0.8           0.9           1.0           1.8           1.9           1.0           1.8           1.9           1.0           1.8           1.9           1.0           1.8	449 988 Vol (Cu. Ft.) 1290.4 Vol (Cu. Ft.) 1290.4 Secondary Second	0 449 1437		
Subbasin North	D East D East D - Input LEGACY NAA APARTM 1018 E: NAANF.hym ME: NAANF.out 11T F. ON JAN. 19 201 12TH WAS REPLACED W 12TH W	809.34 809.34 MENTS PHASE 2 MENTS	NORTH & WEST SOUTH N ONE=2.14 DT=0.05 HRS MPSON REPORT) 2 DA=0.00348 SQ ER D=50 0017 SQ MI D=88 .0026 SQ MI D=94	1410.5 *** *S** COM PRIN *S** COM PRIN *S* ROU *S P ROU	*** SUBBASIN E IPUTE NM HYD NT HYD NT HYD NT HYD NT HYD NT HYD NT HYD NT HYD NT HYD NT HYD ITE RESERVOIR OUT O .01 NORTH EAST PO ITE RESERVOIR OUT O .01 NORTH EAST PO ITE RESERVOIR OUT O .01	5237.0 5238.0 ubbasin No Area (Sq. Ft.) 1613 Area (Sq. Ft.)	667.0           1309.0           Import the ast Poind           Depth (ft)           0.8           Depth (ft)           0.0           1.2           Depth (ft)           Depth (ft)           Depth (ft)           1.10           0           1.8           1.9           1.10           1.10           1.10	449 988 Vol (Cu. Ft.) 1290.4 Vol (Cu. Ft.) 1290.4 Secondary SQ M 20 PER D=30 St DA=0.00019 20 PER D=60 ID=6 CODE=1 EV(FT) .0 ID=7 CODE=1	0 449 1437		
Subbasin North Subbasin North PROJECT NAME: JOB NO. – 0323 DATE: Jan. 19 2 IDATE: Jan. 19 2 IDATE: Jan. 19 2 INPUT FILE NAME BASIN 117.2–NOR BASIN 117.2–NOR BASIN 117.3–SOU CALL CALL COMPUTE SAN HYD INT HYD INT H	D East D East D - Input LEGACY NAA APARTM 1018 E: NAANF.hym ME: NAANF.out 1T F. ON JAN. 19 201 TH WAS REPLACED W TH WAS REPLACED W TH WAS REPLACED W TH WAS REPLACED W TTYPE=2 RAIN QU/ RAIN SIX=2.60 F PEDRO STORM DRAIN NORTH ID=1 HYD NO=SF PER A=0 PER B=2 ID=1 CODE=20 LATIONS TH ID=3 HYD NO=BC PER A=0 PER B=2 ID=3 CODE=20 ITH ID=4 HYD NO=BC PER A=0 PER B=2 ID=4 CODE=20 ST ID=5 HYD NO=BC PER A=0 PER B=2 ID=5 HYD NO=BC ID=5	809.34 809.34 MENTS PHASE 2 MENTS	NORTH & WEST SOUTH N ONE=2.14 DT=0.05 HRS MPSON REPORT) 2 DA=0.00348 SQ ER D=50 0017 SQ MI D=88 .0026 SQ MI D=94	1410.5 *** *S** COM PRIN *S** COM PRIN *S* ROU *S P ROU	*** SUBBASIN E IPUTE NM HYD NT HYD NT HYD NT HYD NT HYD EAST POND RAT OUT OUT NORTH EAST PO ITE RESERVOIR OUT O .01 NORTH EAST PO OUT O .01 NORTH EAST PO OUT O .01 NORTH EAST PO OUT O .01 NORTH EAST PO OUT O .01 NORTH EAST PO OUT O .01 NORTH EAST PO OUT O .01 NORTH EAST PO OUT O .01 NOT HYD ID= NT HYD ID=	5237.0 5238.0 ubbasin No Area (Sq. Ft.) 1613 Area (Sq. Ft.) 10=6 HYI PER A=0 HYI PER A=0 HYI TP=0.1333 H ID=7 CODE ID=7 HYI PER A=0 HYI TP=0.1333 H ID=7 CODE ID=7 CODE ID=7 CODE ID=7 CODE ID=8 HY FLOW(CFS) STOF 0 0.10 Area (CFS) STOF 0 0.03 0 HYD NO=E.NE ID=10 CODE=2 1 HYD NO=E.NE	667.0           1309.0           Import the ast Poind           Depth (ft)           0.8           Depth (ft)           0.0           1.2           Depth (ft)           Depth (ft)           Depth (ft)           1.10           0           1.8           1.9           1.10           1.10           1.10	449 988 Vol (Cu. Ft.) 1290.4 Vol (Cu. Ft.) 1290.4 Secondary SQ M 20 PER D=30 St DA=0.00019 20 PER D=60 ID=6 CODE=1 EV(FT) .0 ID=7 CODE=1	0 449 1437		
Subbasin North	D East D East D - Input LEGACY NAA APARTM 3018 E: NAANF.hym ME: NAANF.out 1T F. ON JAN. 19 201 1T F. ON JAN. 19 201 1T H WAS REPLACED W 1T H WAS REPLACED W 1T H WAS REPLACED W 1D=1 HYD NO=SF PEDRO STORM DRAIN NORTH ID=1 HYD NO=SF PER A=0 PER B=2 1TP=0.1333 HR MASS ID=3 CODE=20 1TH ID=4 HYD NO=BG PER A=0 PER B=2 1TP=0.1333 HR MASS ID=4 CODE=20 1TH ID=5 HYD NO=BG PER A=0 PER B=2 1TP=0.1333 HR MASS ID=5 CODE=20 1T ID=5 CODE=20	809.34 MENTS PHASE 2 MENTS PHA	NORTH & WEST SOUTH N ONE=2.14 DT=0.05 HRS MPSON REPORT) 2 DA=0.00348 SQ ER D=50 0017 SQ MI D=88 .0026 SQ MI D=94	1410.5 *** *S** COM PRIN *S** COM PRIN *S* ROU *S P ROU	*** SUBBASIN E IPUTE NM HYD NT HYD NT HYD NT HYD NT HYD EAST POND RAT OUT OUT NORTH EAST PO ITE RESERVOIR OUT O .01 NORTH EAST PO OUT O .01 NORTH EAST PO OUT O .01 NORTH EAST PO OUT O .01 NORTH EAST PO OUT O .01 NORTH EAST PO OUT O .01 NORTH EAST PO OUT O .01 NORTH EAST PO OUT O .01 NOT HYD ID= NT HYD ID=	5237.0 5238.0 ubbasin No Area (Sq. Ft.) 1613 Area (Sq. Ft.) 10=6 HYI PER A=0 HYI PER A=0 HYI TP=0.1333 H ID=7 CODE ID=7 HYI PER A=0 HYI TP=0.1333 H ID=7 CODE ID=7 CODE ID=7 CODE ID=7 CODE ID=8 HY FLOW(CFS) STOF 0 0.10 Area (CFS) STOF 0 0.03 0 HYD NO=E.NE ID=10 CODE=2 1 HYD NO=E.NE	667.0           1309.0           Import the ast Poind           Depth (ft)           0.8           Depth (ft)           0.0           1.2           Depth (ft)           Depth (ft)           Depth (ft)           1.10           0           1.8           1.9           1.10           1.10           1.10	449 988 Vol (Cu. Ft.) 1290.4 Vol (Cu. Ft.) 1290.4 Secondary SQ M 20 PER D=30 St DA=0.00019 20 PER D=60 ID=6 CODE=1 EV(FT) .0 ID=7 CODE=1	0 449 1437		
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Subbasin North Subbasin North PROJECT NAME: * PROJECT NAME: * JOB NO. – 0323 * DATE: Jan. 19 2 * INPUT FILE NAME * MODIFIED BY NIR * BASIN 117.2–NOR * BASIN 117.2–NOR * BASIN 117.3–SOU ***** COMPUTE SAN ***** COMPUTE SAN ***** COMPUTE SAN ***** COMPUTE SAN ***** BASIN 117.20– MPUTE NM HYD ***** SUBBASIN NORT MPUTE NM HYD ***** SUBBASIN NORT MPUTE NM HYD ***** SUBBASIN SOU MPUTE NM HYD ***** SUBBASIN WES MPUTE NM HYD ***** SUBBASIN WES ************************************	D East D East D East D - Input LEGACY NAA APARTM 2018 E: NAANF.hym ME: NAANF.out 2017 F. ON JAN. 19 201 2018 E: NAANF.out 2018 E: NAANF.out 2018 E: NAANF.out 2017 2018 E: NAANF.out 2017	809.34 809.34 MENTS PHASE 2 MENTS	NORTH & WEST SOUTH N ONE=2.14 DT=0.05 HRS DMPSON REPORT) 2 DA=0.00348 SG ER D=50 0017 SQ MI D=88 0017 SQ MI D=94 00133 SQ MI ER D=63 00133 SQ MI ER D=63	1410.5 *** *S** COM PRIN *S** *** *** **** **** **************	*** SUBBASIN E IPUTE NM HYD VT HYD VT HYD VT HYD VT HYD VT HYD VT HYD VT HYD VT HYD VT HYD VT HYD VT HYD VT	S237.0 5238.0 ubbasin No Area (Sq. Ft.) 1613 Area (Sq. Ft.) 1613 Area (Sq. Ft.) 1613 Area (Sq. Ft.) 1613 Area (Sq. Ft.) 1613 Area (Sq. Ft.) 1613 Area (Sq. Ft.) PER A=0 HY PER A=0 HY PER A=0 HY PER A=0 HY PER A=0 HY ID=7 CODE ID=7 CODE ID=7 CODE ID=7 CODE ID=7 CODE ID=7 CODE ID=7 CODE ID=7 CODE ID=8 HY FLOW(CFS) STOF 0 0.10 ND RATING CUR ID=9 HY FLOW(CFS) STOF 0 0.03 0 HYD NO=E.NE ID=11 CODE=2 1 HYD NO=E.NE	667.0           1309.0           Import the st Pond           Depth (ft)           0.8           Depth (ft)           0.8           Depth (ft)           0.8           Composition of the state of the stat	449 988 Vol (Cu. Ft.) 1290.4 Vol (Cu. Ft.) 1290.4 Second Second Second Second Second Second Second Second Second	0 449 1437		
Subbasin North Subbasin North PROJECT NAME: * JOB NO. – 0323 * JOATE: Jan. 19 2 * INPUT FILE NAME * OUTPUT FILE NAME * OUTPUT FILE NAME * OUTPUT FILE NAME * ADDIFIED BY NIR * BASIN 117.2–NOR * BASIN 117.2–NOR * BASIN 117.2–NOR * BASIN 117.3–SOU ***** COMPUTE SAN ***** COMPUTE SAN ***** COMPUTE SAN ***** BASIN 117.20– MPUTE NM HYD ***** SUBBASIN NORT MPUTE NM HYD ***** SUBBASIN NORT MPUTE NM HYD ***** SUBBASIN SOU MPUTE NM HYD ***** SUBBASIN WES MPUTE NM HYD ***** SUBBASIN WES ***** *****************************	D East D East D East D - Input LEGACY NAA APARTM 1018 E: NAANF.hym ME: NAANF.out 11T F. ON JAN. 19 201 11T F. ON JAN. 19 201 11T WAS REPLACED W 11T D=1 HYD NO=SF PED A = 0 PER B=20 11T ID=3 HYD NO=BC 11D =1 CODE=20 11T ID=4 HYD NO=BC 11D =4 HYD NO=BC 11D =4 HYD NO=BC 11D =4 CODE=20 11T ID=4 HYD NO=BC 11D =5 CODE=20 11T ID=5 HYD NO=BC 11T ID=5 HYD N	809.34 809.34 MENTS PHASE 2 MENTS	NORTH & WEST SOUTH N ONE=2.14 DT=0.05 HRS DMPSON REPORT) 2 DA=0.00348 SG ER D=50 0017 SQ MI D=88 0017 SQ MI D=94 00133 SQ MI ER D=63 00133 SQ MI ER D=63	1410.5 *** *S** COM PRIN *S** *** *** **** **** **************	*** SUBBASIN E IPUTE NM HYD VT HYD VT HYD VT HYD VT HYD VT HYD VT HYD VT HYD VT HYD VT HYD VT HYD VT HYD VT	S237.0 5238.0 ubbasin No Area (Sq. Ft.) 1613 Area (Sq. Ft.) 1613 Area (Sq. Ft.) 1613 Area (Sq. Ft.) 1613 Area (Sq. Ft.) 1613 Area (Sq. Ft.) 1613 Area (Sq. Ft.) PER A=0 HY PER A=0 HY PER A=0 HY PER A=0 HY PER A=0 HY ID=7 CODE ID=7 CODE ID=7 CODE ID=7 CODE ID=7 CODE ID=7 CODE ID=7 CODE ID=7 CODE ID=8 HY FLOW(CFS) STOF 0 0.10 ND RATING CUR ID=9 HY FLOW(CFS) STOF 0 0.03 0 HYD NO=E.NE ID=11 CODE=2 1 HYD NO=E.NE	667.0           1309.0           Import the st Pond           Depth (ft)           0.8           Depth (ft)           0.8           Depth (ft)           0.8           Composition of the state of the stat	449 988 Vol (Cu. Ft.) 1290.4 1290.4	0 449 1437		
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## Background

Phase 2 of the Legacy NAA Apartments account for 4.44 acres within the City of Albuquerque, Bernalillo County, New Mexico. This property is located east of San Pedro Drive between Alameda Boulevard and Oakland Avenue. There is a shaded Zone X floodplain that effects a small part of the northern portion of the site.

The site does not currently receive any offsite flows but has previously received flows from the adjacent properties to the east. The adjacent site is currently under construction and no longer discharges onto the project area (C18D064B). This area is included in the North Albuquerque Acres Master Drainage Plan (NAAMDP). The northern half of the property is allowed to discharge to the San Pedro storm drain and the southern half is allowed to discharge to the Alameda storm drain per the modified Design Analysis Report "Alameda Blvd. - San Pedro to Wyoming" (DARASPW) by Thompson Engineering Consultants (#7663.91, January 2012)

## Methodology

Hydrology Calculations for the site are performed in accordance with the Albuquerque Development Process Manual (DPM) Section 22 using AHYMO to calculate peak flow rates in order to ensure all flow paths are sufficient to carry flows effectively throughout the site. The water quality pond volume was calculated by multiplying the first flush runoff value of 0.34" by the impervious area of each sub basin. All hydrologic and hydraulic calculations can be found on this sheet.

## **Existing Conditions**

The existing property slopes from east to west at approximately 3%. The site is currently developed and was previously used as a parking space for the Toyota dealership across San Pedro Drive (C18D083). The site runoff is currently free discharging to the northwest into an existing storm drain in San Pedro.

## **Proposed Conditions**

The DARSPSD uses a developed impervious area of 50%, which is consistent with the assumption in the NAAMDP. One subbasin wes created to model the allowable flow rate for the northern half of the property. Subbasin 117.20-NORTH is 2.23 acres and generates 8.67 cfs. The 8.67 cfs represents the allowable flow rate to the San Pedro storm drain - See A-HYMO calcs. The DARASPW revises the NAADMP alloable discharge for the southern half of the property to 3.82 cfs per acre. the southern portion of the site is 2.21 acres. therefore, the allowable flow rate to the Alameda storm drain is 8.44 cfs.

Five proposed subbasins were created to model the developed flow rate for the proposed site. Subbasin North is 1.13 acres and generates 5.13 cfs. Subbasin North discharges to the San Pedro storm drain. Subbasin West is 0.85 acres and generates 3.54 cfs. Subbasin West discharges to the San Pedro storm Drain. Therefore, there is a total developed flow rate to the San Pedro storm drain of 8.67 cfs, which is in compliance with the allowable flow rate, 8.67 cfs. Subbasin South is 1.7 acres and generates 8.03 cfs. Subbasin South discharges to the Alameda storm drain. The developed flow rate is below the allowable, 8.44 cfs.

Subbasin East generates 2.09 cfs. The total 100-yr 10-day volume is 0.1 acre feet (4,729 cubic feet) and will be retained at ponds 1-4 with total capacity of 0.1 acre feet (4,945 cubic feet), the ponds will be connected by sidewalk culverts to allow interaction. An emergency spillway is proposed on the north west side of the basin to allow discharge to the parking lot storm drain. Subbasin North East generates 0.52 cfs. The total 100-yr 10-day volume is 1,410 cubic feet. The pond's volume capacity is 0.03 acre feet (1290 cubic feet) and the excess volume will be discharged through an emergency spillway on the south west corner of the basin and into the parking lot storm drain. The total discharge of subbasins North, East and North East, 8.68 cfs, has a negligible effect on the overall peak discharge to San Pedro storm drain, as the allowable is 8.67 cfs - see A-HYMO calcs for pond

routing. Overall, the northern basin discharge has no effect on the allowable peak discharge, since the south subbasin discharge is less than the allowable and the total developed discharge flows to the same drainage system at San Pedro storm drain.

Alameda SD HGL shows elevation of 5230 ft (COA 7663.91). According to outlet control analysis, the developed site addition will be 0.9 ft to HGL (See graph). Total HGL=5230.95, lower than grate elevation, 5231.90.

San Pedro SD HGL shows elevation of 5230 ft (COA 5304.91). the developed site has no effect on the HGL. (See graph). Oakland SD HGL shows elevation of 5234.5 ft (COA 742484), pipe is at inlet control. See Manning's calcs for pipe's capacity.

