



	RETAININ	G WALL TABLE	
	W	/ALL 1	
	TOP OF WALL	TOP OF FOOTING	WALL HEIGHT
WALL POINT	ELEVATION	ELEVATION	(FT)
1-1	59.00	57.00	
		STEP FOOTING EVENLY DOWN SLOPE	2.00
1-2	59.00	55.00	
			4.00
1-3	59.67	55.00	
			4.67
1-4	60.33	55.00	
			5.33
1-5	60.33	55.67	
			4.66
1-6	60.33	56.33	
			4.00
1-7	61.00	56.33	
			4.67
1-8	61.00	57.00	
		STEP FOOTING EVENLY UP SLOPE	4.00
1-9	61.00	59.67	
			1 33

Assumptions: Minimum 8-inch Bury Over Top of Footing



LEGEND

	PROPERTY BOUNDARY
~~~~~~	HIGH POINT
5280	PROPOSED CONTOUR LINES
5280	EXISTING CONTOUR LINES
58	LOT 4-A AND 6-A CONTOURS
	GRADING LIMITS
<b>&gt;</b>	PROPOSED SWALE
3.8%	SLOPE ARROW
	PROPOSED RETAINING WALL
	EXTENTS OF PROPOSED BROKEN ROCK

## SPOT ELEVATION LEGEND

1. ALL SPOT ELEVATIONS ARE AT FLOWLINE UNLESS OTHERWISE NOTED IN THE PLANS.

TOP OF FOOTING  $\neg$ 

BW –

///////

- TA=56.00 (TOP ASPHALT)

/-FG=56.00 FINISHED GRADE

- TW=56.00 (TOP WALL) (ADJACENT SCHEMATIC)

- BW=56.00 (BOTTOM WALL) (SEE ADJACENT SCHEMATIC)

TS=56.00 (TOP OF SIDEWALK)

## KEYED NOTES

- 1. INSTALL 12" DIA HDPE STORM PIPE WITH SMOOTH
- INTERIOR WALL. INV EL PER PLAN.
- 2. INSTALL COA TYPE C INLET PER COA STD DWG 2205 OR ENGINEER APPROVED EQUIVALENT. INV EL PER PLAN.
- 3. INSTALL CMU RETAINING WALL PER DETAILS ON SHEET
- C-104. REFER TO WALL TABLE ON THIS SHEET. 4. INSTALL VALLEY GUTTER PER DETAIL ON SHEET C-104
- 5. INSTALL 4" DIAMETER BROKEN ROCK. REFER TO
- LANDSCAPE PLAN FOR COLOR.
- 6. INSTALL A 1FT WIDE CURB OPENING



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				PF	<u>tabular   P</u>	F_graphical	<u>Maps_&amp;_a</u>	<u>erials</u>					
	PDS	S-based p	oint preci	pitation fr	equency	estimates	s with 90%	6 confider	nce interv	als (in inc	hes) ¹		
	Duration	1 0.170	2	5	Avera 10 0.355	ge recurrer 25 0.436	50	(years) 100 0.568	200 0.639	500 0.736	1000	=	
15-min 0.231 0.340 0.959 0.0571 0.922 0.944 1.07 1.21 1.39 1.14 1.24 1.39 1.14 1.24 1.39 1.14 1.24 1.39 1.15 1.24 1.13 1.12 1.11 1.27 1.37 1.37 1.37 1.37 1.37 1.37 1.37 1.37 1.37 1.37 1.37 1.37 1.37 1.37 1.37 1.37 1.37 1.37 1.37 1.37 1.38 2.16 2.37 2.37 2.37 2.37 2.37 2.37 2.37 2.37 2.37 2.37 2.37 2.37 2.37 2.37 2.37 2.37 2.37 2.37 2.37 2.37 2.37 2.37 2.37 2.37 2.37 2.37 2.37 2.37 2.37 2.37 2.37 2.37 2.37 2.37 2.37 2.37 2.37 2.37 2.37 2.37 2.37 2.37 2.37 2.37 2.37 2.37 2.33 3.38 2.34 2.34 2.34 2.34 2.34 2.34 </td <td>5-min 10-min</td> <td>(0.144-0.202) 0.259 (0.219-0.307)</td> <td>(0.185-0.261) 0.335 (0.282-0.397)</td> <td>(0.250-0.351) (0.380-0.535)</td> <td>(0.298-0.420) 0.540 (0.453-0.639)</td> <td>0.430 (0.364-0.516) 0.664 (0.555-0.785)</td> <td>0.500 (0.416-0.592) 0.761 (0.633-0.901)</td> <td>0.300 (0.468-0.671) 0.864 (0.713-1.02)</td> <td>0.039 (0.524-0.754) 0.973 (0.797-1.15)</td> <td>(0.598-0.870) <b>1.12</b> (0.910-1.32)</td> <td>(0.657-0.959) <b>1.24</b> (1.00-1.46)</td> <td>Ξ</td> <td>≥ç</td>	5-min 10-min	(0.144-0.202) 0.259 (0.219-0.307)	(0.185-0.261) 0.335 (0.282-0.397)	(0.250-0.351) (0.380-0.535)	(0.298-0.420) 0.540 (0.453-0.639)	0.430 (0.364-0.516) 0.664 (0.555-0.785)	0.500 (0.416-0.592) 0.761 (0.633-0.901)	0.300 (0.468-0.671) 0.864 (0.713-1.02)	0.039 (0.524-0.754) 0.973 (0.797-1.15)	(0.598-0.870) <b>1.12</b> (0.910-1.32)	(0.657-0.959) <b>1.24</b> (1.00-1.46)	Ξ	≥ç
10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10: 1	15-min	0.321 (0.272-0.381) 0.432	0.415 (0.349-0.493)	0.559 (0.471-0.663) 0.752	0.670 (0.561-0.793) 0.901	0.822 (0.687-0.973) 1 11	0.944 (0.785-1.12) 1 27	<b>1.07</b> (0.883-1.26) <b>1</b> 44	<b>1.21</b> (0.988-1.42) <b>1 62</b>	<b>1.39</b> (1.13-1.64) <b>1 87</b>	<b>1.54</b> (1.24-1.81) <b>2.07</b>	-	
	30-min 60-min	0.432 (0.365-0.512) 0.534 (0.452-0.634)	0.559 (0.471-0.664) 0.692 (0.582-0.821)	0.752 (0.634-0.893) 0.931 (0.785-1.10)	0.901 (0.756-1.07) <b>1.12</b> (0.936-1.32)	1.11 (0.926-1.31) <b>1.37</b> (1.14-1.62)	<b>1.27</b> (1.06-1.50) <b>1.57</b> (1.31-1.86)	<b>1.44</b> (1.19-1.70) <b>1.79</b> (1.47-2.11)	<b>1.62</b> (1.33-1.92) <b>2.01</b> (1.65-2.37)	<b>1.87</b> (1.52-2.21) <b>2.32</b> (1.88-2.73)	<b>2.07</b> (1.67-2.44) <b>2.56</b> (2.07-3.02)		10-
1-hr 0.691 0.671 0.671 0.137 0.136 0.132 0.177.260 0.198.300 0.2235.30 0.166   1-hr 0.670.980 0.677.080 0.981-120 0.135 0.1382 0.177.260 0.198.300 0.237.360 0.238.60   1-hr 0.676.989 0.677.080 0.677.080 0.677.080 0.677.080 0.677.080 0.677.080 0.677.080 0.677.080 0.677.080 0.677.080 0.677.080 0.677.080 0.677.080 0.677.080 0.677.080 0.677.080 0.677.080 0.677.080 0.677.080 0.677.080 0.677.080 0.677.080 0.677.080 0.677.080 0.677.080 0.677.080 0.677.080 0.677.080 0.677.080 0.677.080 0.677.080 0.677.080 0.677.080 0.677.080 0.677.080 0.677.080 0.677.080 0.677.080 0.677.080 0.677.080 0.677.080 0.677.080 0.677.080 0.677.080 0.677.080 0.677.080 0.677.080 0.677.080 0.677.080 0.677.080 0.677.080 0.677.080 0.677.080 0.677.080 0.677.080 0.677.080 0.677.080 0.677.080 0.6	2-hr	(0.452-0.634) <b>0.646</b> (0.533-0.802)	(0.582-0.821) 0.829 (0.684-1.03)	(0.785-1.10) <b>1.10</b> (0.903-1.36)	(0.936-1.32) <b>1.31</b> (1.08-1.62)	(1.14-1.62) <b>1.61</b> (1.31-1.98)	(1.31-1.86) <b>1.86</b> (1.50-2.28)	(1.47-2.11) <b>2.11</b> (1.70-2.59)	(1.65-2.37) <b>2.38</b> (1.90-2.91)	(1.88-2.73) <b>2.76</b> (2.18-3.38)	(2.07-3.02) <b>3.07</b> (2.40-3.76)		
6-hr (0.678-0.999) (0.857-1.25) (1.11-1.60) (1.30-1.89) (1.56-2.27) (1.76-2.57) (1.72-20) (2.18-3.22) (2.47-3.68) (2.70-4.06)   12-hr (0.894) (1.33) 14.33 (1.42-1.67) (1.68-2.24) (2.13-22) (2.47-3.68) (2.70-4.06)   14-hr (0.890-1.3) (1.22-1.69) (1.42-1.67) (1.68-2.34) (2.12-2.94) (2.13-2.16) (2.44-1.67)   14-hr (0.890-1.7) (1.90-1.46) (1.37-1.44) (1.89-2.13) (1.97-2.62) (2.23-3.16) (2.33-46) (2.89-3.46) (3.24-1.10)   2-day (0.91-1.21) (1.15-1.22) (1.46-1.21) (1.97-2.62) (2.20-2.93) (2.43-2.40) (2.67-3.60) (2.98-4.40) (3.47-4.46)   4-day (1.05-1.31) (1.82-2.02) (1.89-2.49) (2.85-3.15) (2.90-3.46) (3.16-3.77) (3.48-4.19) (3.73-4.50)   4-day (1.16-1.40) (1.97-2.13) (2.05-2.44) (2.83-2.16) (2.80-4.66) (3.23-7.18) (3.44-16) (3.47-3.45)   4-day (1.68-1.98) (2.05-4.40) (2.39-2.76) (2.39-2.73) (2.44-2.6) (3.42-2.	3-hr	0.691 (0.574-0.851) 0.809	0.878 (0.727-1.08) 1.02	<b>1.15</b> (0.956-1.42) <b>1.32</b>	<b>1.37</b> (1.13-1.68) <b>1.55</b>	<b>1.68</b> (1.38-2.05) <b>1.88</b>	<b>1.92</b> (1.57-2.35) <b>2.12</b>	<b>2.18</b> (1.77-2.66) <b>2.39</b>	<b>2.46</b> (1.98-3.00) <b>2.67</b>	<b>2.85</b> (2.27-3.46) <b>3.05</b>	3.16 (2.50-3.86) 3.36		
24-hr 1.00 1.26 1.58 1.183 1.218 1.244 2.72 3.01 3.39 3.69   2.day (0.899-1.7) (1.09-1.46) (1.37-1.84) (1.52-2.13) (1.67-2.24) (2.09-2.84) (2.23-3.16) (2.55-3.46) (2.85-3.9) (3.09-4.26)   2.day (0.916-12) (1.15-1.52) (1.44-19) (1.67-2.21) (1.97-2.62) (2.20-2.33) (2.43-3.26) (2.67-3.60) (2.98-4.05) (3.22-4.11)   3.day (1.61-1.3) (1.66-1.32) (1.62-2.20) (1.62-3.22) (2.43-3.26) (2.91-3.69) (3.47-4.46)   4.day (1.13-1.63) (1.26-2.20) (1.62-3.2) (2.42-3.2) (2.65-3.46) (2.99-3.46) (3.16-3.77) (3.48-1.49) (3.47-4.46)   4.day (1.18-1.40) (1.68-1.9) (2.05-2.40) (2.63-3.47) (2.29-3.78) (3.48-4.08) (3.80-4.46) (3.80-4.46) (3.80-4.46) (3.80-4.46) (3.80-4.46) (3.80-4.46) (3.80-4.46) (3.80-4.46) (3.80-4.46) (3.80-4.46) (3.80-4.46) (3.80-4.46) (3.80-4.46) (3.80-4.46) (3.80-4.46) (3.80-4.46) (3.80-4.46) (3.80-	6-hr 12-hr	(0.678-0.989) <b>0.894</b> (0.764-1.06)	(0.857-1.25) <b>1.13</b> (0.960-1.33)	(1.11-1.60) <b>1.43</b> (1.22-1.69)	(1.30-1.89) <b>1.67</b> (1.42-1.97)	(1.56-2.27) <b>2.00</b> (1.69-2.35)	(1.76-2.57) <b>2.25</b> (1.89-2.64)	(1.97-2.90) <b>2.51</b> (2.10-2.94)	(2.18-3.22) <b>2.78</b> (2.31-3.26)	(2.47-3.68) <b>3.14</b> (2.59-3.70)	(2.70-4.06) <b>3.44</b> (2.81-4.10)		
2-day (1.05 (1.15-1.52) (1.41-19) (1.72-21) (1.72-22) (2.72-20) (2.26-2.33) (2.43-2.32) (2.67-3.60) (2.28-4.41)   3-day (1.15-1.52) (1.41-19) (1.62-2.02) (1.86-2.32) (2.42-3.04) (2.67-3.60) (2.28-4.41)   4-day (1.15-1.52) (1.60-2.02) (1.86-2.32) (2.42-3.04) (2.67-3.30) (2.98-4.65) (3.22-4.41)   4-day (1.61-1.41) (1.62-2.02) (1.86-2.32) (2.42-3.04) (2.67-3.30) (2.94-1.2) (3.47-4.66)   4-day (1.81-1.80) (1.46-1.74) (1.79-2.13) (2.05-2.43) (2.39-2.84) (2.69-3.46) (3.16-3.77) (3.48-4.19) (3.73-4.50)   7-day (1.37-16) (1.86-1.80) (0.05-2.40) (2.39-2.84) (2.69-3.47) (3.23-3.70) (3.48-4.06) (4.00-3.76)   10-day (1.50-1.76) (1.86-2.19) (2.28-2.66) (2.60-3.16) (3.02-3.52) (3.33-3.89) (3.44-2.6) (3.94-4.20) (4.25-5.10) (4.60-5.44) (4.60-5.44) (3.42-4.64) (3.94-4.20) (4.20-5.10) (4.60-5.44)   20-day (2.44-2.52) (2.4	24-hr	<b>1.00</b> (0.869-1.17)	<b>1.26</b> (1.09-1.46)	<b>1.58</b> (1.37-1.84)	<b>1.83</b> (1.58-2.13)	<b>2.18</b> (1.87-2.54)	<b>2.44</b> (2.09-2.84)	<b>2.72</b> (2.32-3.16)	<b>3.01</b> (2.55-3.48)	<b>3.39</b> (2.85-3.93)	<b>3.69</b> (3.09-4.28)		
3-day (1.05-1.31) (1.31-1.63) (1.62-2.02) (1.86-2.32) (2.18-2.73) (2.42-3.04) (2.67-3.69) (3.23-1.2) (3.47-4.6)   4-day (1.29) (1.60) (1.95) (2.24) (2.61) (2.90) 3.19 3.47 3.85 4.13   (1.81-1.40) (1.46-1.74) (1.79-2.13) (2.05-2.43) (2.39-2.84) (2.65-3.15) (2.90-3.46) (3.16-3.77) (3.48-4.19) (3.73-4.50)   7-day (1.46-1.74) (1.48-1.74) (1.92-2.13) (2.05-2.43) (2.39-2.84) (2.23-3.78) (3.48-4.08) (3.00-4.84) (4.03-4.76)   10-day (1.63) (1.66-2.19) (2.28-2.66) (2.60-3.04) (3.02-3.52) (3.33-3.89) (3.64+4.26) (3.94-4.20) (4.03-5.44) (5.70)   10-day (1.63-2.19) (2.28-2.66) (2.60-3.04) (4.02-4.95) (4.95-5.61) (5.24-6.11) (5.61-6.55) (5.24-5.18)   20-day (2.04) (2.33-2.71) (2.83-3.32) (2.02-3.75) (3.67-4.30) (4.04-4.52) (5.24-6.11) (5.61-6.55) (5.24-6.18) (5.24-6.18) (5.24-6.18) (5.24-6.18) (5.24-6.18)	2-day	<b>1.05</b> (0.916-1.21) <b>1.17</b>	<b>1.32</b> (1.15-1.52) <b>1.46</b>	<b>1.66</b> (1.44-1.91) <b>1.81</b>	<b>1.93</b> (1.67-2.21) <b>2.08</b>	<b>2.28</b> (1.97-2.62) <b>2.45</b>	<b>2.56</b> (2.20-2.93) <b>2.73</b>	<b>2.84</b> (2.43-3.26) <b>3.02</b>	<b>3.14</b> (2.67-3.60) <b>3.30</b>	<b>3.52</b> (2.98-4.05) <b>3.69</b>	3.83 (3.22-4.41) 3.98		
1.1.1.00 (1.18-1.74) (1.79-2.13) (2.05-2.43) (2.39-2.84) (2.65-3.15) (2.90-3.46) (3.16-3.77) (3.48-4.19) (3.73-4.50)   7-day (1.36-1.60) (1.68-1.98) (2.05-2.40) (2.32-2.73) (2.992) 3.22 3.51 (3.79) 4.15 (4.03-4.76)   10-day (1.66-1.69) (1.68-1.98) (2.05-2.40) (2.32-2.73) (2.69-3.15) (2.29-3.38) (3.64-4.26) (3.80-4.42) (4.03-4.76)   10-day (1.63-17) (1.88-2.19) (2.26-2.66) (2.60-3.04) (3.02-3.52) (3.33-3.89) (3.64-4.26) (3.84-4.62) (4.03-4.76)   20-day (1.82-2.11) (2.28-2.66) (2.60-3.04) (3.02-3.57) (3.67-4.30) (4.04-4.69) (4.82-5.42) (4.03-5.40) (4.60-5.41)   20-day (1.82-2.12) (2.33-2.71) (3.67-4.30) (4.00-4.69) (4.32-5.66) (4.62-5.42) (4.03-5.48) (5.25-6.18)   30-day (2.24-2.62) (2.77-3.25) (3.33-3.89) (3.74-4.36) (4.50-5.36) (5.47-5.75) (5.10-6.15) (5.85-6.84)   45-day (2.77-3.25) (3.33-3.89) (3.47-4.5	3-day 4-day	(1.05-1.31) <b>1.29</b>	(1.31-1.63) <b>1.60</b>	(1.62-2.02) <b>1.95</b>	(1.86-2.32) <b>2.24</b>	(2.18-2.73) <b>2.61</b>	(2.42-3.04) <b>2.90</b>	(2.67-3.36) <b>3.19</b>	(2.91-3.69) <b>3.47</b>	(3.23-4.12) <b>3.85</b>	(3.47-4.46) <b>4.13</b>		
10-day 1.63 2.02 2.46 2.81 3.27 3.62 3.96 4.29 4.72 (1.30-1) (1.30-1)   20-day 2.04 2.53 3.06 (3.20-3.52) (3.33-3.89) (3.64-4.26) (3.94-4.62) (4.32-5.10) (4.60-5.44)   20-day (1.86-2.19) (2.33-2.74) (2.83-3.32) (3.20-3.75) (3.67-4.30) (4.00-4.69) (4.32-5.06) (4.62-5.42) (4.99-5.87) (5.25-6.18)   30-day (2.24-2.62) (2.77-3.25) (3.33-3.89) (3.74+4.36) (4.25-4.95) (4.60-5.36) (4.94-5.75) (5.24-6.11) (5.61-6.55) (5.85-6.84)   45-day (2.74-3.20) (3.40-3.95) (4.04-4.69) (4.49-5.21) (5.04-5.83) (5.41-6.25) (6.34-7.28) (6.54-7.28) (6.64-7.27) (6.98-8.0) (7.37-8.48) (7.61-8.73)   45-day (3.92-4.56) (4.66-5.41) (5.19-6.01) (5.83-6.74) (6.24-7.22) (6.03-6.94) (6.34-7.28) (6.54-7.28) (6.98-7.67) (6.99-8.06) (7.37-8.48) (7.61-8.73)   1 Precipitation frequency (PF) estimates in this table are based on frequency analysis of partial duration series (PDS).	7-day	(1.18-1.40) <b>1.47</b> (1.36-1.60)	(1.46-1.74) <b>1.83</b> (1.68-1.98)	(1.79-2.13) <b>2.22</b> (2.05-2.40)	(2.05-2.43) <b>2.52</b> (2.33-2.73)	(2.39-2.84) <b>2.92</b> (2.69-3.15)	(2.65-3.15) <b>3.22</b> (2.96-3.47)	(2.90-3.46) <b>3.51</b> (3.23-3.78)	(3.16-3.77) <b>3.79</b> (3.48-4.08)	(3.48-4.19) <b>4.15</b> (3.80-4.48)	(3.73-4.50) <b>4.41</b> (4.03-4.76)		
20-day 2.04 2.53 3.06 3.47 3.98 4.35 4.70 5.03 5.44 5.73   30-day 2.243 (2.33-2.74) (2.83-3.32) (3.20-3.75) (3.67-4.30) (4.00-4.69) (4.325-0.6) (4.62-5.42) (4.99-5.87) (5.25-6.18)   30-day (2.24-2.62) (2.77-3.25) (3.33-3.89) (3.67 (4.33-6) (4.25-4.95) (4.60-5.36) (5.94-6.11) (5.61-6.55) (5.85-6.84)   45-day (2.74-3.20) (3.40-3.95) (4.04-4.69) (4.49-5.21) (5.04-5.83) (5.41-6.25) (5.74-6.62) (6.03-6.94) (6.34-7.28) (6.54-7.46)   60-day 3.42 4.22 5.02 5.59 6.27 6.73 7.14 7.50 7.90 8.14   1 Precipitation frequency (PF) estimates in this table are based on frequency analysis of partial duration series (PDS). Numbers in parenthesis are PF estimates at lower and upper bounds of the 90% confidence interval. The probability that precipitation frequency estimates are lower and upper bounds of the 90% confidence interval. The probability that precipitation frequency estimates are upper bounds and waverage recurrence interval) will be greater than the upper bound or less than the lower bound) is 5%. Estimates at upper bounds are not checked against probable maximum precipitation (PMP)	10-day	<b>1.63</b> (1.50-1.76)	<b>2.02</b> (1.86-2.19)	<b>2.46</b> (2.28-2.66)	<b>2.81</b> (2.60-3.04)	<b>3.27</b> (3.02-3.52)	<b>3.62</b> (3.33-3.89)	<b>3.96</b> (3.64-4.26)	<b>4.29</b> (3.94-4.62)	<b>4.72</b> (4.32-5.10)	<b>5.04</b> (4.60-5.44)		
30-day 2.43 3.01 3.61 4.06 4.61 5.00 5.36 5.70 6.10 6.38   45-day 2.97 3.67 4.36 4.85 5.44 5.83 6.19 6.49 6.81 7.00   60-day 3.42 (3.40-3.95) (4.04-4.69) (4.49-5.21) (5.04-5.83) (5.14-6.25) (5.74-6.62) (6.34-7.28) (6.54-7.46)   60-day 3.42 (3.92-4.56) (4.66-5.41) (5.19-6.01) (5.83-6.74) (6.26-7.22) (6.64-7.67) (6.99-8.06) (7.37-8.48) (7.61-8.73)   1 Precipitation frequency (PF) estimates in this table are based on frequency analysis of partial duration series (PDS). Numbers in parenthesis are PF estimates at lower and upper bounds of the 90% confidence interval. The probability that precipitation frequency estimates (for a given duration and average recurrence interval) will be greater than the upper bound (or less than the lower bound) is 5%. Estimates at upper bounds are not checked against probable maximum precipitation (PMP) estimates and may be higher than currently valid PMP values. Please refer to NOAA Attas 14 document for more information.   Back to Top	20-day	<b>2.04</b> (1.88-2.21)	<b>2.53</b> (2.33-2.74)	<b>3.06</b> (2.83-3.32)	<b>3.47</b> (3.20-3.75)	<b>3.98</b> (3.67-4.30)	<b>4.35</b> (4.00-4.69)	<b>4.70</b> (4.32-5.06)	<b>5.03</b> (4.62-5.42)	<b>5.44</b> (4.99-5.87)	<b>5.73</b> (5.25-6.18)		
45-day (2.74-3.20) (3.40-3.95) (4.04-4.69) (4.49-5.21) (5.04-5.83) (5.41-6.25) (6.03-6.94) (6.34-7.28) (6.54-7.46)   60-day 3.42 (3.92-4.56) (4.66-5.41) (5.19-6.01) (5.83-6.74) (6.26-7.22) (6.64-7.67) (6.99-8.06) (7.37-8.48) (7.61-8.73)   1 Precipitation frequency (PF) estimates in this table are based on frequency analysis of partial duration series (PDS). Image: Numbers in parenthesis are PF estimates at lower and upper bounds of the 90% confidence interval. The probability that precipitation frequency estimates (for a given duration and average recurrence interval) will be greater than the upper bound (or less than the lower bound) is 5%. Estimates at upper bounds are not checked against probable maximum precipitation (PMP) estimates and may be higher than currently valid PMP values.   Please refer to NOAA Atlas 14 document for more information.   Back to Top	30-day	<b>2.43</b> (2.24-2.62) <b>2.97</b>	3.01 (2.77-3.25) 3.67	<b>3.61</b> (3.33-3.89) <b>4.36</b>	<b>4.06</b> (3.74-4.36) <b>4.85</b>	<b>4.61</b> (4.25-4.95) <b>5.44</b>	5.00 (4.60-5.36) 5.83	<b>5.36</b> (4.94-5.75) <b>6.19</b>	<b>5.70</b> (5.24-6.11) <b>6.49</b>	6.10 (5.61-6.55) 6.81	6.38 (5.85-6.84) 7.00		
¹ (3.17-3.69) [ (3.92-4.56) [ (4.66-5.41) [ (5.19-6.01) [ (5.83-6.74) [ (6.26-7.22) [ (6.54-7.67) [ (6.99-8.06) [ (7.37-8.48) [ (7.51-8.73) ] (7.51-8.73) ] (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) ] (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [ (7.51-8.73) [	45-day 60-day	(2.74-3.20) <b>3.42</b>	(3.40-3.95) (3.22	(4.04-4.69) <b>5.02</b>	(4.49-5.21) <b>5.59</b>	(5.04-5.83) 6.27	(5.41-6.25) <b>6.73</b>	(5.74-6.62) <b>7.14</b>	(6.03-6.94) <b>7.50</b>	(6.34-7.28) <b>7.90</b>	(6.54-7.46) <b>8.14</b>		
PF graphical	¹ Precipitati Numbers in (for a given are not cher Please refe	ion frequency ( parenthesis al duration and a cked against p r to NOAA Atla	PF) estimates re PF estimate iverage recurre robable maxim s 14 documen	in this table are s at lower and u ence interval) w num precipitation t for more inform	based on frec upper bounds ( ill be greater th n (PMP) estim- nation.	quency analysi of the 90% cor nan the upper ates and may Back to To	is of partial dura nfidence interva bound (or less be higher than	ation series (PI al. The probabil than the lower currently valid	DS). bound) is 5%. PMP values.	ation frequency Estimates at up	v estimates oper bounds		
					Ρ	F graph	ical						
				AF	IYMO	Ουτρι	JT						
<u>AHYMO OUTPUT</u>	AUVIO	ספססס	M GIRAG	DV man	F (7, 17.77	10-01V				_ 17	94 00-	Del-	02=
	ANYMO INPUT	FILE =	N:\CDS	Librar	c (AHYM y\Engir	neering	Tools\;	AHYMO-S	4\анумо	- ver Input.	. 54.02a hmi	, Kel:	02a
AHYMO PROGRAM SUMMARY TABLE (AHYMO-S4) INPUT FILE = N:\CDS Library\Engineering Tools\AHYMO-S4\AHYMO Input.hmi			н	YDROGRA	FRC PH II	M TO		AREA	PE DISC	AK HARGE	RUNO VOLU	FF ME	RUNOFF
AHYMO PROGRAM SUMMARY TABLE (AHYMO-S4) - Ver. \$4.02a, Rel: 02a   INFUT FILE = N:\CDS Library\Engineering Tools\AHYMO-S4\AHYMO Input.hmi INFUT FILE = N:\CDS Library\Engineering Tools\AHYMO-S4\AHYMO Input.hmi   FROM TO PEAK RUNOFF   HYDROGRAPH ID ID AREA DISCHARGE VOLUME RUNOFF		ND	IDENT	IFICATI	ON NO	). NO.	(	SQ MI)	(C	FS)	(AC-	FT)	(INCHES)
AHYMO PROGRAM SUMMARY TABLE (AHYMO-S4) - Ver. S4.02a, Rel: 02a   INFUT FILE = N:\CDS Library\Engineering Tools\AHYMO-S4\AHYMO Input.hmi - Ver. S4.02a, Rel: 02a   FROM TO PEAK   RUNOFF HYDROGRAPH   ID AREA DISCHARGE   VOLUME RUNOFF   COMMAND IDENTIFICATION NO.	COMMAI		PE=1.3										
AHYMO PROGRAM SUMMARY TABLE (AHYMO-S4) - Ver. S4.02a, Rel: 02a INPUT FILE = N:\CDS Library\Engineering Tools\AHYMO-S4\AHYMO Input.hmi FROM TO PEAK RUNOFF HYDROGRAPH ID ID AREA DISCHARGE VOLUME RUNOFF COMMAND IDENTIFICATION NO. NO. (SQ MI) (CFS) (AC-FT) (INCHES) RAINFALL TYPE=13 *S SBUX DEVELOPED	COMMAN RAINF7 *S SBU	ALL TY UX DEVE	LOPED										
AHYMO PROGRAM SUMMARY TABLE (AHYMO-S4) - Ver. S4.02a, Rel: 02a INPUT FILE = N:\CDS Library\Engineering Tools\AHYMO-S4\AHYMO Input.hmi FROM TO PEAK RUNOFF HYDROGRAPH ID ID AREA DISCHARGE VOLUME RUNOFF COMMAND IDENTIFICATION NO. NO. (SQ MI) (CFS) (AC-FT) (INCHES) RAINFALL TYPE=13 *S SBUX DEVELOFED *S COMPUTE HYD BASIN DEV A COMFUTE NM HYD 101.00 - 1 0.00277 6.96 0.328 2.22237	COMMAI RAINF7 *S SBU *S CO COMPUT	ALL TY UX DEVE OMPUTE TE NM H	LOPED HYD BAS YD	IN DEV 101.	A 00 -	1	0	.00277		6.96	0.3	28	2.22237





# LEGEND

	PROPERTY BOUNDARY
SD	PROPOSED STORM DRAIN
SDSD	EXISTING STORM DRAIN
	FLOW LINE
	BASIN BOUNDARY LINE
~~~~~~	HIGH POINT

RUN DATE (MON/DAY/YR) =11/07/2023 USER NO.= AHYMO-S4TempUser05901704

			1		
F S)	TIME TO PEAK (HOURS)	CFS PER ACPF	PAGE =	1	
	(110010)	ACAL	NOIAII		
		RZ	AIN24=	2.720	
37	1.500	3.925 PH	ER IMP=	85.00	



FEMA FIRM MAP#: 35001C0137H





REVISION

BACKGROUND

LOT 27-A, BLOCK 29, NORTH ALBUQUERQUE ACRES CONTAINS APPROXIMATELY 1.77 TOTAL ACRES IN THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO. THE PROPERTY IS LOCATED ON SIGNAL AVE BETWEEN SAN PEDRO DRIVE AND LOUSIANA BOULEVARD. THERE IS NO DESIGNATED 100-YEAR FLOODPLAIN ON THE SITE. THIS AREA IS INCLUDED IN THE NORTH ALBUQUERQUE ACRES MASTER DRAINAGE PLAN (NAAMDP).

METHODOLOGY

HYDROLOGY CALCULATIONS FOR THE SITE ARE PERFORMED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE TECHNICAL STANDARDS. AHYMO WAS USED, BASED ON THE 100-YR, 24-HR STORM EVENT, TO CALCULATE PEAK FLOW RATES IN ORDER TO ENSURE ALL FLOW PATHS ARE SUFFICIENT TO CARRY FLOWS. THIS SITE IS A REDEVELOPMENT, SO THE REQUIRED WATER QUALITY VOLUME WAS CALCULATED BY MULTIPLYING THE IMPERVIOUS AREA BY THE FIRST FLUSH RUNOFF VALUE OF 0.26". ALL HYDROLOGIC CALCULATIONS CAN BE FOUND ON THIS SHEET.

EXISTING CONDITIONS

CURRENTLY TWO RESIDENTIAL BUILDINGS ARE LOCATED ON THE PROPERTY. IN GENERAL, THE AREA SLOPES FROM NORTHEAST TO SOUTHWEST AT VARYING SLOPES BETWEEN 2% -4%. THE STORM WATER RUNOFF GENERATED BY THE SITE CURRENTLY FREELY SURFACE DISCHARGES INTO THE SIGNAL AVENUE RIGHT-OF-WAY AND FLOWS WEST ALONG THE NORTHERN EDGE OF PAVEMENT.

THE SAN PEDRO WIDENING PROJECT (HYDROLOGY FILE: C18D106) APPROVED IN MARCH 2021 IS THE GOVERNING DRAINAGE MASTER PLAN FOR THE STORM SEWER IN SAN PEDRO. THE STORM SEWER IN SAN PEDRO IS ULTIMATELY ACCEPTS THE RUNOFF FROM THIS SITE. THE SAN PEDRO WIDENING PROJECT ASSUMED THAT THIS SITE WAS 100% IMPERVIOUS FOR THE SIZING OF THE STORM SEWER.

PROPOSED CONDITIONS

THE PROPERTY CONSISTS OF ONE HYDROLOGIC BASIN, BASIN 1, WHICH IS 85% IMPERVIOUS, SURFACE DISCHARGES INTO SIGNAL AVENUE, AND GENERATES 6.92 CFS OF RUNOFF DURING THE PEAK OF THE DESIGN STORM.

PRECIPITATION THAT FALLS ON THE 10 FT WIDE FILL SLOPE ALONG THE EAST EDGE OF THE SITE IS NOT CAPTURED BY THE RETENTION POND AND WILL INSTEAD INFILTRATE IN THE LANDSCAPE MEDIAN AT THE TOE OF SLOPE. RUNOFF FROM A SMALL PORTION OF PAVEMENT BYPASSES THE PROPOSED CURB OPENING AT THE EAST SITE ENTRANCE AND DISCHARGES DIRECTLY INTO SIGNAL AVENUE.

WATER QUALITY TREATMENT IS PROVIDED WITH A RETENTION POND. THE SITE HAS AN IMPERVIOUS AREA OF 65,536 SQ FT. THEREFORE, THE REQUIRED WATER QUALITY VOLUME IS:

65,536 SF X 0.26" / 12 = 1,420 CF.

445 CF OF WATER QUALITY VOLUME IS PROVIDED IN THE ONSITE RETENTION POND.

ALL ONSITE RUNOFF IS CONVEYED TO THE RETENTION POND. VOLUME ABOVE THE RETENTION VOLUME OF THE POND DISCHARGES INTO SIGNAL AVE THROUGH SIDEWALK CULVERTS.

Weir Flow Calcs: 1 - 24" wide sidewalk culvert

$Q_w = 2.7P(h)^{1.5}$	
P = Perimeter (ft)	2.00
h = Head (ft)	0.58
2.7 = coefficient of disc	harge
Q _w = Capacity (cfs)	2.4
Peak Discharge (cfs)	6.96
Number of sidewalk	
culverts required	3





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