

18131 - OSRD (Post)

Type III 24-hr 10-year Rainfall=4.48"

Prepared by Hancock Associates

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Time span=4.00-72.00 hrs, dt=0.02 hrs, 3401 points x 3

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN

Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment 10: Off Site	Runoff Area=137,500 sf Flow Length=640'	Runoff Depth=1.73" Tc=18.5 min CN=71	Runoff=4.33 cfs 19,845 cf
Subcatchment 20: OSRD - Lots 1 & 2	Runoff Area=15,300 sf Flow Length=150'	Runoff Depth=2.03" Tc=14.2 min CN=75	Runoff=0.64 cfs 2,594 cf
Subcatchment 21: OSRD - Lots 1-3	Runoff Area=12,700 sf Flow Length=120'	Runoff Depth=2.03" Tc=14.0 min CN=75	Runoff=0.53 cfs 2,153 cf
Subcatchment 22: OSRD - Lot 4	Runoff Area=10,400 sf Flow Length=100'	Runoff Depth=2.19" Tc=7.4 min CN=77	Runoff=0.58 cfs 1,902 cf
Subcatchment 23: OSRD - Lot 5	Runoff Area=8,700 sf Flow Length=30' Slope=0.0600 '/'	Runoff Depth=2.28" Tc=6.0 min CN=78	Runoff=0.53 cfs 1,650 cf
Subcatchment 24: OSRD - Lot 6	Runoff Area=9,100 sf Flow Length=50' Slope=0.0600 '/'	Runoff Depth=2.36" Tc=6.0 min CN=79	Runoff=0.58 cfs 1,789 cf
Subcatchment 25: OSRD - Lot 7	Runoff Area=6,300 sf Tc=6.0 min CN=79	Runoff Depth=2.36" Runoff=0.40 cfs	1,239 cf
Subcatchment 26: OSRD - Lots 8-9	Runoff Area=20,800 sf Flow Length=115'	Runoff Depth=2.28" Tc=6.0 min CN=78	Runoff=1.27 cfs 3,946 cf
Subcatchment 27: OSRD - Lots 6-9	Runoff Area=26,850 sf Flow Length=160'	Runoff Depth=2.36" Tc=8.8 min CN=79	Runoff=1.55 cfs 5,280 cf
Subcatchment 28: OSRD Lots 7-9	Runoff Area=59,300 sf Flow Length=440'	Runoff Depth=1.88" Tc=14.4 min CN=73	Runoff=2.26 cfs 9,293 cf
Subcatchment 30: OSRD Lots 1-8	Runoff Area=195,650 sf Flow Length=280'	Runoff Depth=1.73" Tc=11.0 min CN=71	Runoff=7.50 cfs 28,238 cf
Subcatchment 40: Proposed Road & OSRD Lots 1-3	Runoff Area=73,000 sf Flow Length=150' Slope=0.0600 '/'	Runoff Depth=2.71" Tc=9.5 min CN=83	Runoff=4.71 cfs 16,472 cf
Pond C1: Cross Culvert	Peak Elev=863.51' 18.0" Round Culvert n=0.013 L=36.0' S=0.0417 '/'	Inflow=4.33 cfs Outflow=4.33 cfs	19,845 cf 19,845 cf
Pond P1: OnSite Stormwater Measure	Peak Elev=851.04' Discarded=0.06 cfs 2,310 cf	Storage=886 cf Primary=0.33 cfs 285 cf	Inflow=0.64 cfs 2,594 cf Outflow=0.39 cfs 2,595 cf
Pond P2: OnSite Stormwater Measure	Peak Elev=851.01' Discarded=0.06 cfs 2,137 cf	Storage=886 cf Primary=0.04 cfs 17 cf	Inflow=0.53 cfs 2,153 cf Outflow=0.10 cfs 2,154 cf
Pond P3: OnSite Stormwater Measure	Peak Elev=850.75' Discarded=0.06 cfs 1,902 cf	Storage=772 cf Primary=0.00 cfs 0 cf	Inflow=0.58 cfs 1,902 cf Outflow=0.06 cfs 1,902 cf
Pond P4: OnSite Stormwater Measure	Peak Elev=850.46' Discarded=0.06 cfs 1,651 cf	Storage=642 cf Primary=0.00 cfs 0 cf	Inflow=0.53 cfs 1,650 cf Outflow=0.06 cfs 1,651 cf
Pond P5: OnSite Stormwater Measure	Peak Elev=850.62' Discarded=0.06 cfs 1,790 cf	Storage=716 cf Primary=0.00 cfs 0 cf	Inflow=0.58 cfs 1,789 cf Outflow=0.06 cfs 1,790 cf
Pond P6: OnSite Stormwater Measure	Peak Elev=850.05' Discarded=0.06 cfs 1,239 cf	Storage=458 cf Primary=0.00 cfs 0 cf	Inflow=0.40 cfs 1,239 cf Outflow=0.06 cfs 1,239 cf
Pond P7: OnSite Stormwater Measure	Peak Elev=851.14' Discarded=0.06 cfs 2,708 cf	Storage=886 cf Primary=2.13 cfs 1,238 cf	Inflow=1.27 cfs 3,946 cf Outflow=2.19 cfs 3,946 cf

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Type III 24-hr 10-year Rainfall=4.48"

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Pond PA: (Dry) Infiltration Basin

Peak Elev=827.96' Storage=8,286 cf Inflow=8.35 cfs 23,292 cf
Discarded=0.23 cfs 10,373 cf Primary=1.71 cfs 12,921 cf Secondary=0.00 cfs 0 cf Outflow=1.94 cfs 23,294 cf

Link A: Natural Channel - (Map 15, Lot 9.6)

Inflow=4.33 cfs 19,845 cf
Primary=4.33 cfs 19,845 cf

Link B: Property Limits - (Map 15, Lot 1A)

Inflow=3.40 cfs 22,214 cf
Primary=3.40 cfs 22,214 cf

Link C: Project Limits - (Open Space)

Inflow=7.50 cfs 28,238 cf
Primary=7.50 cfs 28,238 cf

Total Runoff Area = 575,600 sf Runoff Volume = 94,402 cf Average Runoff Depth = 1.97"

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Type III 24-hr 25-year Rainfall=5.60"

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Time span=4.00-72.00 hrs, dt=0.02 hrs, 3401 points x 3

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN

Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment 10: Off Site	Runoff Area=137,500 sf Runoff Depth=2.58" Flow Length=640' Tc=18.5 min CN=71 Runoff=6.58 cfs 29,562 cf
Subcatchment 20: OSRD - Lots 1 & 2	Runoff Area=15,300 sf Runoff Depth=2.94" Flow Length=150' Tc=14.2 min CN=75 Runoff=0.94 cfs 3,754 cf
Subcatchment 21: OSRD - Lots 1-3	Runoff Area=12,700 sf Runoff Depth=2.94" Flow Length=120' Tc=14.0 min CN=75 Runoff=0.78 cfs 3,116 cf
Subcatchment 22: OSRD - Lot 4	Runoff Area=10,400 sf Runoff Depth=3.13" Flow Length=100' Tc=7.4 min CN=77 Runoff=0.83 cfs 2,715 cf
Subcatchment 23: OSRD - Lot 5	Runoff Area=8,700 sf Runoff Depth=3.23" Flow Length=30' Slope=0.0600 '/' Tc=6.0 min CN=78 Runoff=0.75 cfs 2,340 cf
Subcatchment 24: OSRD - Lot 6	Runoff Area=9,100 sf Runoff Depth=3.32" Flow Length=50' Slope=0.0600 '/' Tc=6.0 min CN=79 Runoff=0.81 cfs 2,521 cf
Subcatchment 25: OSRD - Lot 7	Runoff Area=6,300 sf Runoff Depth=3.32" Tc=6.0 min CN=79 Runoff=0.56 cfs 1,745 cf
Subcatchment 26: OSRD - Lots 8-9	Runoff Area=20,800 sf Runoff Depth=3.23" Flow Length=115' Tc=6.0 min CN=78 Runoff=1.80 cfs 5,595 cf
Subcatchment 27: OSRD - Lots 6-9	Runoff Area=26,850 sf Runoff Depth=3.32" Flow Length=160' Tc=8.8 min CN=79 Runoff=2.18 cfs 7,439 cf
Subcatchment 28: OSRD Lots 7-9	Runoff Area=59,300 sf Runoff Depth=2.76" Flow Length=440' Tc=14.4 min CN=73 Runoff=3.37 cfs 13,639 cf
Subcatchment 30: OSRD Lots 1-8	Runoff Area=195,650 sf Runoff Depth=2.58" Flow Length=280' Tc=11.0 min CN=71 Runoff=11.39 cfs 42,064 cf
Subcatchment 40: Proposed Road & OSRD Lots 1-3	Runoff Area=73,000 sf Runoff Depth=3.72" Flow Length=150' Slope=0.0600 '/' Tc=9.5 min CN=83 Runoff=6.43 cfs 22,640 cf
Pond C1: Cross Culvert	Peak Elev=863.84' Inflow=6.58 cfs 29,562 cf 18.0" Round Culvert n=0.013 L=36.0' S=0.0417 '/' Outflow=6.58 cfs 29,562 cf
Pond P1: OnSite Stormwater Measure	Peak Elev=851.09' Storage=886 cf Inflow=0.94 cfs 3,754 cf Discarded=0.06 cfs 2,662 cf Primary=1.16 cfs 1,092 cf Outflow=1.22 cfs 3,754 cf
Pond P2: OnSite Stormwater Measure	Peak Elev=851.06' Storage=886 cf Inflow=0.78 cfs 3,116 cf Discarded=0.06 cfs 2,478 cf Primary=0.67 cfs 638 cf Outflow=0.73 cfs 3,116 cf
Pond P3: OnSite Stormwater Measure	Peak Elev=851.06' Storage=886 cf Inflow=0.83 cfs 2,715 cf Discarded=0.06 cfs 2,335 cf Primary=0.65 cfs 380 cf Outflow=0.71 cfs 2,715 cf
Pond P4: OnSite Stormwater Measure	Peak Elev=851.04' Storage=886 cf Inflow=0.75 cfs 2,340 cf Discarded=0.06 cfs 2,194 cf Primary=0.33 cfs 146 cf Outflow=0.39 cfs 2,340 cf
Pond P5: OnSite Stormwater Measure	Peak Elev=851.04' Storage=886 cf Inflow=0.81 cfs 2,521 cf Discarded=0.06 cfs 2,263 cf Primary=0.33 cfs 259 cf Outflow=0.39 cfs 2,522 cf
Pond P6: OnSite Stormwater Measure	Peak Elev=850.58' Storage=698 cf Inflow=0.56 cfs 1,745 cf Discarded=0.06 cfs 1,746 cf Primary=0.00 cfs 0 cf Outflow=0.06 cfs 1,746 cf
Pond P7: OnSite Stormwater Measure	Peak Elev=851.16' Storage=886 cf Inflow=1.80 cfs 5,595 cf Discarded=0.06 cfs 3,079 cf Primary=2.67 cfs 2,517 cf Outflow=2.74 cfs 5,596 cf

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Type III 24-hr 25-year Rainfall=5.60"

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Pond PA: (Dry) Infiltration Basin

Peak Elev=828.77' Storage=12,664 cf Inflow=10.98 cfs 34,708 cf

Discarded=0.26 cfs 11,909 cf Primary=3.11 cfs 22,803 cf Secondary=0.00 cfs 0 cf Outflow=3.37 cfs 34,712 cf

Link A: Natural Channel - (Map 15, Lot 9.6)

Inflow=6.58 cfs 29,562 cf

Primary=6.58 cfs 29,562 cf

Link B: Property Limits - (Map 15, Lot 1A)

Inflow=5.49 cfs 36,442 cf

Primary=5.49 cfs 36,442 cf

Link C: Project Limits - (Open Space)

Inflow=11.39 cfs 42,469 cf

Primary=11.39 cfs 42,469 cf

Total Runoff Area = 575,600 sf Runoff Volume = 137,130 cf Average Runoff Depth = 2.86"

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Type III 24-hr 100-year Rainfall=7.88"

Time span=4.00-72.00 hrs, dt=0.02 hrs, 3401 points x 3

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN

Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment 10: Off Site	Runoff Area=137,500 sf Flow Length=640' Tc=18.5 min CN=71	Runoff Depth=4.48" Runoff=11.52 cfs 51,278 cf
Subcatchment 20: OSRD - Lots 1 & 2	Runoff Area=15,300 sf Flow Length=150' Tc=14.2 min CN=75	Runoff Depth=4.93" Runoff=1.57 cfs 6,290 cf
Subcatchment 21: OSRD - Lots 1-3	Runoff Area=12,700 sf Flow Length=120' Tc=14.0 min CN=75	Runoff Depth=4.93" Runoff=1.31 cfs 5,221 cf
Subcatchment 22: OSRD - Lot 4	Runoff Area=10,400 sf Flow Length=100' Tc=7.4 min CN=77	Runoff Depth=5.16" Runoff=1.37 cfs 4,476 cf
Subcatchment 23: OSRD - Lot 5	Runoff Area=8,700 sf Flow Length=30' Slope=0.0600 '/' Tc=6.0 min CN=78	Runoff Depth=5.28" Runoff=1.22 cfs 3,828 cf
Subcatchment 24: OSRD - Lot 6	Runoff Area=9,100 sf Flow Length=50' Slope=0.0600 '/' Tc=6.0 min CN=79	Runoff Depth=5.40" Runoff=1.30 cfs 4,092 cf
Subcatchment 25: OSRD - Lot 7	Runoff Area=6,300 sf Tc=6.0 min CN=79	Runoff Depth=5.40" Runoff=0.90 cfs 2,833 cf
Subcatchment 26: OSRD - Lots 8-9	Runoff Area=20,800 sf Flow Length=115' Tc=6.0 min CN=78	Runoff Depth=5.28" Runoff=2.92 cfs 9,152 cf
Subcatchment 27: OSRD - Lots 6-9	Runoff Area=26,850 sf Flow Length=160' Tc=8.8 min CN=79	Runoff Depth=5.40" Runoff=3.50 cfs 12,074 cf
Subcatchment 28: OSRD Lots 7-9	Runoff Area=59,300 sf Flow Length=440' Tc=14.4 min CN=73	Runoff Depth=4.70" Runoff=5.77 cfs 23,244 cf
Subcatchment 30: OSRD Lots 1-8	Runoff Area=195,650 sf Flow Length=280' Tc=11.0 min CN=71	Runoff Depth=4.48" Runoff=19.93 cfs 72,964 cf
Subcatchment 40: Proposed Road & OSRD Lots 1-3	Runoff Area=73,000 sf Flow Length=150' Slope=0.0600 '/' Tc=9.5 min CN=83	Runoff Depth=5.86" Runoff=9.97 cfs 35,666 cf
Pond C1: Cross Culvert	Peak Elev=865.08' 18.0" Round Culvert n=0.013 L=36.0' S=0.0417 '/'	Inflow=11.52 cfs 51,278 cf Outflow=11.52 cfs 51,278 cf
Pond P1: OnSite Stormwater Measure	Peak Elev=851.14' Storage=886 cf Discarded=0.06 cfs 3,220 cf Primary=2.21 cfs 3,070 cf	Inflow=1.57 cfs 6,290 cf Outflow=2.27 cfs 6,290 cf
Pond P2: OnSite Stormwater Measure	Peak Elev=851.13' Storage=886 cf Discarded=0.06 cfs 3,010 cf Primary=1.95 cfs 2,212 cf	Inflow=1.31 cfs 5,221 cf Outflow=2.02 cfs 5,221 cf
Pond P3: OnSite Stormwater Measure	Peak Elev=851.13' Storage=886 cf Discarded=0.06 cfs 2,848 cf Primary=1.93 cfs 1,629 cf	Inflow=1.37 cfs 4,476 cf Outflow=1.99 cfs 4,477 cf
Pond P4: OnSite Stormwater Measure	Peak Elev=851.12' Storage=886 cf Discarded=0.06 cfs 2,684 cf Primary=1.68 cfs 1,144 cf	Inflow=1.22 cfs 3,828 cf Outflow=1.74 cfs 3,829 cf
Pond P5: OnSite Stormwater Measure	Peak Elev=851.12' Storage=886 cf Discarded=0.06 cfs 2,758 cf Primary=1.76 cfs 1,335 cf	Inflow=1.30 cfs 4,092 cf Outflow=1.82 cfs 4,093 cf
Pond P6: OnSite Stormwater Measure	Peak Elev=851.08' Storage=886 cf Discarded=0.06 cfs 2,377 cf Primary=0.83 cfs 457 cf	Inflow=0.90 cfs 2,833 cf Outflow=0.89 cfs 2,833 cf
Pond P7: OnSite Stormwater Measure	Peak Elev=851.18' Storage=886 cf Discarded=0.06 cfs 3,693 cf Primary=3.04 cfs 5,460 cf	Inflow=2.92 cfs 9,152 cf Outflow=3.10 cfs 9,153 cf

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Type III 24-hr 100-year Rainfall=7.88"

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Pond PA: (Dry) Infiltration Basin

Peak Elev=830.27' Storage=22,113 cf Inflow=20.13 cfs 60,567 cf

Discarded=0.31 cfs 14,149 cf Primary=6.35 cfs 46,418 cf Secondary=0.00 cfs 0 cf Outflow=6.66 cfs 60,568 cf

Link A: Natural Channel - (Map 15, Lot 9.6)

Inflow=11.52 cfs 51,278 cf

Primary=11.52 cfs 51,278 cf

Link B: Property Limits - (Map 15, Lot 1A)

Inflow=10.75 cfs 69,663 cf

Primary=10.75 cfs 69,663 cf

Link C: Project Limits - (Open Space)

Inflow=21.81 cfs 75,443 cf

Primary=21.81 cfs 75,443 cf

Total Runoff Area = 575,600 sf Runoff Volume = 231,119 cf Average Runoff Depth = 4.82"