Interim Drainage Calculations for
St. Johns River Water Management District

Maitland Concourse North

Maitland, FL

Prepared by:
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049183005

December 2015

Kimley»Horn

Drainage Summary

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MAITLAND CONCOURSE NORTH

POST DEVELOPMENT STORMWATER ANALYSIS

RUN WITHOUT PERC DURING THE STORM EVENTS

25-yr/96-hr Storm

- With the initial pond stage of 66.5, running the 25yr-96hr storm event results in a max stage of 77.58.
- By setting the initial stage at 77.58, drawdown was analyzed to determine the 72-hr and 14-day drawdown.
- After 72-hours, the pond draws down to an elevation of 75.72.
- After 14-days, the pond draws down to an elevation of 74.04.
- Using the 14-day draw down elevation of 74.04 as the initial stage, running the 25yr-96hr storm event again would result in a 79.65 max stage
- The joint use pond is set up with an emergency overflow weir at elevation 79.00.
- Following the back to back 25yr-96hr storm events, the total post-development runoff volume to Lake Charity was calculated to be 20.02 acre-ft compared to the pre-development runoff volume of 22.43 acre-ft for the first 25yr-96hr storm and 44.85 acre-ft for the second 25yr-96hr storm event.

100-yr/24-hr Storm

- With the initial pond stage of 66.5, running the 100yr-24hr storm event results in a max stage of 77.72.
- By setting the initial stage at 77.72, drawdown was analyzed to determine the 72-hr and 14-day drawdown.
- After 72-hours, the pond draws down to an elevation of 75.84.
- After 14-days, the pond draws down to an elevation of 74.15.
- Using the 14-day draw down elevation of 74.15 as the initial stage, running the 100yr-24hr storm event again would result in a 79.87 max stage
- The joint use pond is set up with an emergency overflow weir at elevation 79.00.
- Following the back to back 100yr-24hr storm events, the total post-development runoff volume to Lake Charity was calculated to be 20.69 acre-ft compared to the pre-development runoff volume of 23.18 acre-ft for the first 100yr-96hr storm and 46.35 acre-ft for the second 100yr-24hr storm event.

Pre-Development Drainage Basin Map

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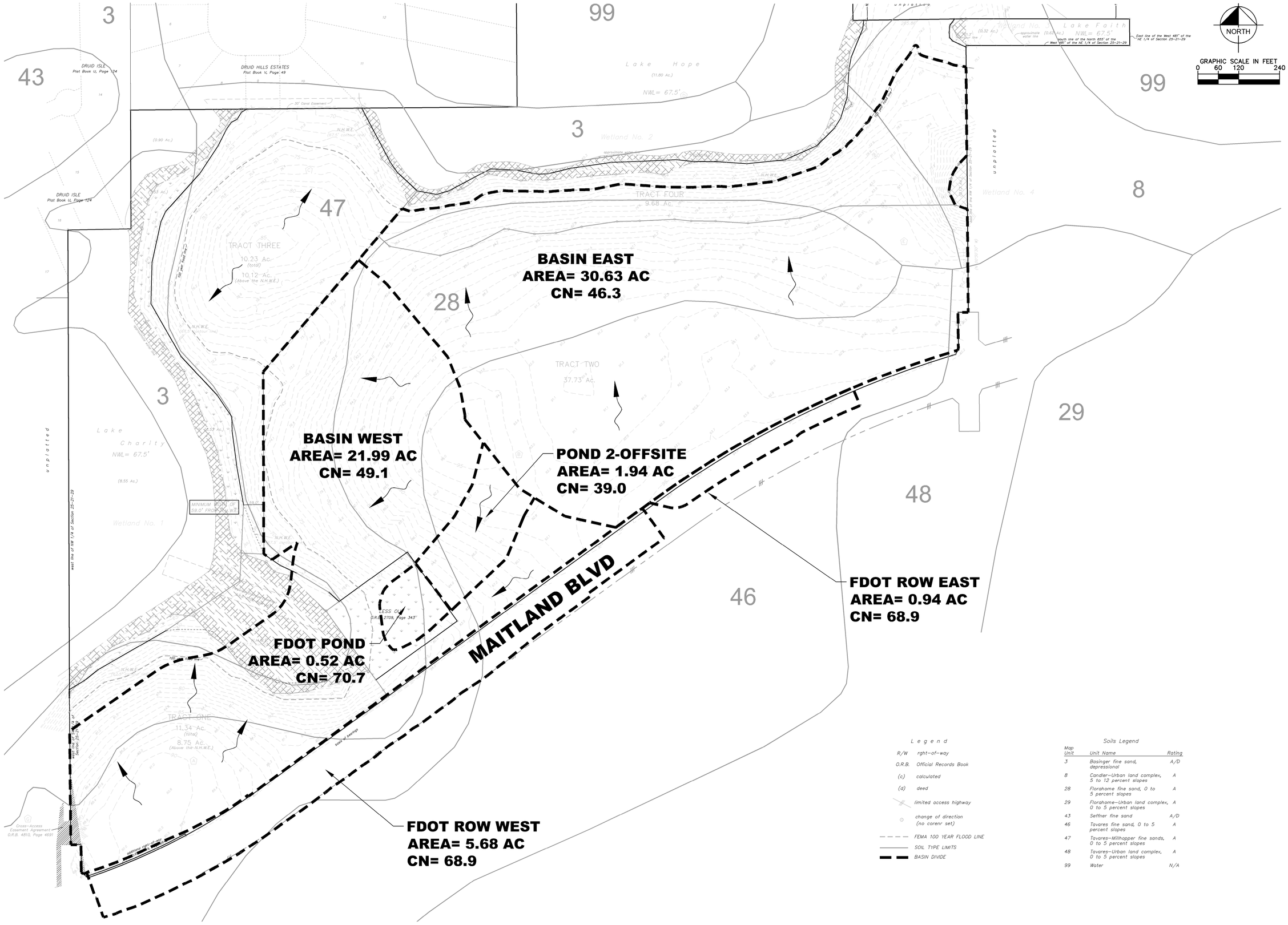

Legend

R/W	right-of-way
O.R.B.	Official Records Book
(c)	calculated
(d)	deed
	limited access highway
	change of direction (no corenr set)
	FEMA 100 YEAR FLOOD LINE
	SOIL TYPE LIMITS
	BASIN DIVIDE

Soils Legend

Map Unit	Unit Name	Rating
3	Basinger fine sand, depressional	A/D
8	Candler-Urban land complex, 5 to 12 percent slopes	A
28	Florahome fine sand, 0 to 5 percent slopes	A
29	Florahome-Urban land complex, 0 to 5 percent slopes	A
43	Seffner fine sand	A/D
46	Tavares fine sand, 0 to 5 percent slopes	A
47	Tavares-Millhopper fine sands, 0 to 5 percent slopes	A
48	Tavares-Urban land complex, 0 to 5 percent slopes	A
99	Water	N/A

No.	REVISIONS	DATE	BY

Kimley»Horn
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LICENSED PROFESSIONAL

DATE:

KHA PROJECT 149183000 2

DATE 12/4/2015

SCALE AS SHOWN

DESIGNED BY BAL

DRAWN BY BAL

CHECKED BY JAM

PRE-DEVELOPMENT BASIN MAP EXHIBIT

MAITLAND CONCOURSE NORTH

CITY OF MAITLAND FLORIDA

SHEET NUMBER

Plotted By:Longo, Brent Sheet Set:Plan Layout PRE-DEV BASIN MAP December 04, 2015 09:10:09am K:\ORL-Civil\149183000-MCN Master Development Area\CADD\EXHIBITS\2015-12-03 - 2014 Basin Pre.dwg
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Pre-Development Calculations

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CURVE NUMBER WORKSHEET

PRE-DEVELOPMENT COMPOSITE BASIN

Basin Area = 61.70 acres

AREA	SCS SOIL TYPE	COVER TYPE AND CONDITIONS	CURVE NUMBER	SUB TOTAL
		Grass (Lawns, Parks, Golf Courses, etc.)		
	A	Cover < 50%	68	0.0
	A	Cover 50% to 75%	49	0.0
6.25	A	Cover > 75%	39	243.9
		Grass (Lawns, Parks, Golf Courses, etc.)		
	B	Cover < 50%	79	0.0
	B	Cover 50% to 75%	69	0.0
	B	Cover > 75%	61	0.0
		Grass (Lawns, Parks, Golf Courses, etc.)		
	C	Cover < 50%	86	0.0
	C	Cover 50% to 75%	79	0.0
	C	Cover > 75%	74	0.0
		Grass (Lawns, Parks, Golf Courses, etc.)		
	D	Cover < 50%	89	0.0
	D	Cover 50% to 75%	84	0.0
	D	Cover > 75%	80	0.0
		Pasture, grassland, or range		
40.31	A	Fair	49	1975.2
		Woods(Forest, Orchard)		
	A	Cover < 50%	45	0.0
	A	Cover 50% to 75%	35	0.0
9.43	A	Cover > 75%	30	282.9
		Woods(Forest, Orchard)		
	B	Cover < 50%	66	0.0
	B	Cover 50% to 75%	60	0.0
	B	Cover > 75%	55	0.0
		Woods(Forest, Orchard)		
	C	Cover < 50%	77	0.0
	C	Cover 50% to 75%	74	0.0
	C	Cover > 75%	70	0.0
		Woods(Forest, Orchard)		
	D	Cover < 50%	83	0.0
	D	Cover 50% to 75%	80	0.0
	D	Cover > 75%	77	0.0
3.36		Impervious (Pavement, Concrete, Roofs)	98	328.9
2.350	A,B,C,D	Impervious (Water)	100	235.0
			WEIGHTED CURVE NUMBER =	**49.7**

WEIGHTED CURVE NUMBER = SUM (CN*AREA) / TOTAL AREA

CURVE NUMBER WORKSHEET

PRE-DEVELOPMENT EAST BASIN

Basin Area = 30.63 acres

AREA	SCS SOIL TYPE	COVER TYPE AND CONDITIONS	CURVE NUMBER	SUB TOTAL
		Grass (Lawns, Parks, Golf Courses, etc.)		
	A	Cover < 50%	68	0.0
	A	Cover 50% to 75%	49	0.0
	A	Cover > 75%	39	0.0
		Grass (Lawns, Parks, Golf Courses, etc.)		
	B	Cover < 50%	79	0.0
	B	Cover 50% to 75%	69	0.0
	B	Cover > 75%	61	0.0
		Grass (Lawns, Parks, Golf Courses, etc.)		
	C	Cover < 50%	86	0.0
	C	Cover 50% to 75%	79	0.0
	C	Cover > 75%	74	0.0
		Grass (Lawns, Parks, Golf Courses, etc.)		
	D	Cover < 50%	89	0.0
	D	Cover 50% to 75%	84	0.0
	D	Cover > 75%	80	0.0
		Pasture, grassland, or range		
26.26	A	Fair	49	1286.7
		Woods(Forest, Orchard)		
	A	Cover < 50%	45	0.0
	A	Cover 50% to 75%	35	0.0
4.37	A	Cover > 75%	30	131.1
		Woods(Forest, Orchard)		
	B	Cover < 50%	66	0.0
	B	Cover 50% to 75%	60	0.0
	B	Cover > 75%	55	0.0
		Woods(Forest, Orchard)		
	C	Cover < 50%	77	0.0
	C	Cover 50% to 75%	74	0.0
	C	Cover > 75%	70	0.0
		Woods(Forest, Orchard)		
	D	Cover < 50%	83	0.0
	D	Cover 50% to 75%	80	0.0
	D	Cover > 75%	77	0.0
		FDOT Basin-2 from PSR	61	0.0
	A,B,C,D	Impervious (Water)	100	0.0
			WEIGHTED CURVE NUMBER =	**46.3**

WEIGHTED CURVE NUMBER = SUM (CN*AREA) / TOTAL AREA

CURVE NUMBER WORKSHEET

PRE-DEVELOPMENT WEST BASIN

Basin Area = 21.99 acres

AREA	SCS SOIL TYPE	COVER TYPE AND CONDITIONS	CURVE NUMBER	SUB TOTAL
		Grass (Lawns, Parks, Golf Courses, etc.)		
	A	Cover < 50%	68	0.0
	A	Cover 50% to 75%	49	0.0
0.80	A	Cover > 75%	39	31.2
		Grass (Lawns, Parks, Golf Courses, etc.)		
	B	Cover < 50%	79	0.0
	B	Cover 50% to 75%	69	0.0
	B	Cover > 75%	61	0.0
		Grass (Lawns, Parks, Golf Courses, etc.)		
	C	Cover < 50%	86	0.0
	C	Cover 50% to 75%	79	0.0
	C	Cover > 75%	74	0.0
		Grass (Lawns, Parks, Golf Courses, etc.)		
	D	Cover < 50%	89	0.0
	D	Cover 50% to 75%	84	0.0
	D	Cover > 75%	80	0.0
		Pasture, grassland, or range		
14.05	A	Fair	49	688.5
		Woods(Forest, Orchard)		
	A	Cover < 50%	45	0.0
	A	Cover 50% to 75%	35	0.0
5.06	A	Cover > 75%	30	151.8
		Woods(Forest, Orchard)		
	B	Cover < 50%	66	0.0
	B	Cover 50% to 75%	60	0.0
	B	Cover > 75%	55	0.0
		Woods(Forest, Orchard)		
	C	Cover < 50%	77	0.0
	C	Cover 50% to 75%	74	0.0
	C	Cover > 75%	70	0.0
		Woods(Forest, Orchard)		
	D	Cover < 50%	83	0.0
	D	Cover 50% to 75%	80	0.0
	D	Cover > 75%	77	0.0
		FDOT Basin-2 from PSR	61	0.0
2.080	A,B,C,D	Impervious (Water)	100	208.0
			WEIGHTED CURVE NUMBER =	**49.1**

WEIGHTED CURVE NUMBER = SUM (CN*AREA) / TOTAL AREA

CURVE NUMBER WORKSHEET

PRE-DEVELOPMENT POND 2-OFFSITE BASIN

Basin Area = 1.94 acres

AREA	SCS SOIL TYPE	COVER TYPE AND CONDITIONS	CURVE NUMBER	SUB TOTAL
		Grass (Lawns, Parks, Golf Courses, etc.)		
	A	Cover < 50%	68	0.0
	A	Cover 50% to 75%	49	0.0
1.94	A	Cover > 75%	39	75.7
		Grass (Lawns, Parks, Golf Courses, etc.)		
	B	Cover < 50%	79	0.0
	B	Cover 50% to 75%	69	0.0
	B	Cover > 75%	61	0.0
		Grass (Lawns, Parks, Golf Courses, etc.)		
	C	Cover < 50%	86	0.0
	C	Cover 50% to 75%	79	0.0
	C	Cover > 75%	74	0.0
		Grass (Lawns, Parks, Golf Courses, etc.)		
	D	Cover < 50%	89	0.0
	D	Cover 50% to 75%	84	0.0
	D	Cover > 75%	80	0.0
		Row Crops (Straight Row)		
	A	Poor	72	0.0
	A	Good	67	0.0
		Woods(Forest, Orchard)		
	A	Cover < 50%	45	0.0
	A	Cover 50% to 75%	35	0.0
	A	Cover > 75%	30	0.0
		Woods(Forest, Orchard)		
	B	Cover < 50%	66	0.0
	B	Cover 50% to 75%	60	0.0
	B	Cover > 75%	55	0.0
		Woods(Forest, Orchard)		
	C	Cover < 50%	77	0.0
	C	Cover 50% to 75%	74	0.0
	C	Cover > 75%	70	0.0
		Woods(Forest, Orchard)		
	D	Cover < 50%	83	0.0
	D	Cover 50% to 75%	80	0.0
	D	Cover > 75%	77	0.0
		FDOT Basin-2 from PSR	61	0.0
	A,B,C,D	Impervious (Water)	100	0.0
			WEIGHTED CURVE NUMBER =	**39.0**

WEIGHTED CURVE NUMBER = SUM (CN*AREA) / TOTAL AREA

CURVE NUMBER WORKSHEET

PRE-DEVELOPMENT FDOT POND BASIN

Basin Area = 0.52 acres

AREA	SCS SOIL TYPE	COVER TYPE AND CONDITIONS	CURVE NUMBER	SUB TOTAL
		Grass (Lawns, Parks, Golf Courses, etc.)		
	A	Cover < 50%	68	0.0
	A	Cover 50% to 75%	49	0.0
0.25	A	Cover > 75%	39	9.8
		Grass (Lawns, Parks, Golf Courses, etc.)		
	B	Cover < 50%	79	0.0
	B	Cover 50% to 75%	69	0.0
	B	Cover > 75%	61	0.0
		Grass (Lawns, Parks, Golf Courses, etc.)		
	C	Cover < 50%	86	0.0
	C	Cover 50% to 75%	79	0.0
	C	Cover > 75%	74	0.0
		Grass (Lawns, Parks, Golf Courses, etc.)		
	D	Cover < 50%	89	0.0
	D	Cover 50% to 75%	84	0.0
	D	Cover > 75%	80	0.0
		Row Crops (Straight Row)		
	A	Poor	72	0.0
	A	Good	67	0.0
		Woods(Forest, Orchard)		
	A	Cover < 50%	45	0.0
	A	Cover 50% to 75%	35	0.0
	A	Cover > 75%	30	0.0
		Woods(Forest, Orchard)		
	B	Cover < 50%	66	0.0
	B	Cover 50% to 75%	60	0.0
	B	Cover > 75%	55	0.0
		Woods(Forest, Orchard)		
	C	Cover < 50%	77	0.0
	C	Cover 50% to 75%	74	0.0
	C	Cover > 75%	70	0.0
		Woods(Forest, Orchard)		
	D	Cover < 50%	83	0.0
	D	Cover 50% to 75%	80	0.0
	D	Cover > 75%	77	0.0
0.00		FDOT Basin-2 from PSR	61	0.0
0.270	A,B,C,D	Impervious (Water)	100	27.0
			WEIGHTED CURVE NUMBER =	**70.7**

WEIGHTED CURVE NUMBER = SUM (CN*AREA) / TOTAL AREA

CURVE NUMBER WORKSHEET

PRE-DEVELOPMENT FDOT ROW WEST BASIN

Basin Area = 5.68 acres

AREA	SCS SOIL TYPE	COVER TYPE AND CONDITIONS	CURVE NUMBER	SUB TOTAL
		Grass (Lawns, Parks, Golf Courses, etc.)		
	A	Cover < 50%	68	0.0
	A	Cover 50% to 75%	49	0.0
2.80	A	Cover > 75%	39	109.2
		Grass (Lawns, Parks, Golf Courses, etc.)		
	B	Cover < 50%	79	0.0
	B	Cover 50% to 75%	69	0.0
	B	Cover > 75%	61	0.0
		Grass (Lawns, Parks, Golf Courses, etc.)		
	C	Cover < 50%	86	0.0
	C	Cover 50% to 75%	79	0.0
	C	Cover > 75%	74	0.0
		Grass (Lawns, Parks, Golf Courses, etc.)		
	D	Cover < 50%	89	0.0
	D	Cover 50% to 75%	84	0.0
	D	Cover > 75%	80	0.0
		Woods(Forest, Orchard)		
	A	Cover < 50%	45	0.0
	A	Cover 50% to 75%	35	0.0
	A	Cover > 75%	30	0.0
		Woods(Forest, Orchard)		
	B	Cover < 50%	66	0.0
	B	Cover 50% to 75%	60	0.0
	B	Cover > 75%	55	0.0
		Woods(Forest, Orchard)		
	C	Cover < 50%	77	0.0
	C	Cover 50% to 75%	74	0.0
	C	Cover > 75%	70	0.0
		Woods(Forest, Orchard)		
	D	Cover < 50%	83	0.0
	D	Cover 50% to 75%	80	0.0
	D	Cover > 75%	77	0.0
2.880	A,B,C,D	Impervious	98	282.2
			WEIGHTED CURVE NUMBER =	**68.9**

WEIGHTED CURVE NUMBER = SUM (CN*AREA) / TOTAL AREA

CURVE NUMBER WORKSHEET

PRE-DEVELOPMENT FDOT ROW EAST BASIN

Basin Area = 0.94 acres

AREA	SCS SOIL TYPE	COVER TYPE AND CONDITIONS	CURVE NUMBER	SUB TOTAL
		Grass (Lawns, Parks, Golf Courses, etc.)		
	A	Cover < 50%	68	0.0
	A	Cover 50% to 75%	49	0.0
0.46	A	Cover > 75%	39	18.1
		Grass (Lawns, Parks, Golf Courses, etc.)		
	B	Cover < 50%	79	0.0
	B	Cover 50% to 75%	69	0.0
	B	Cover > 75%	61	0.0
		Grass (Lawns, Parks, Golf Courses, etc.)		
	C	Cover < 50%	86	0.0
	C	Cover 50% to 75%	79	0.0
	C	Cover > 75%	74	0.0
		Grass (Lawns, Parks, Golf Courses, etc.)		
	D	Cover < 50%	89	0.0
	D	Cover 50% to 75%	84	0.0
	D	Cover > 75%	80	0.0
		Woods(Forest, Orchard)		
	A	Cover < 50%	45	0.0
	A	Cover 50% to 75%	35	0.0
	A	Cover > 75%	30	0.0
		Woods(Forest, Orchard)		
	B	Cover < 50%	66	0.0
	B	Cover 50% to 75%	60	0.0
	B	Cover > 75%	55	0.0
		Woods(Forest, Orchard)		
	C	Cover < 50%	77	0.0
	C	Cover 50% to 75%	74	0.0
	C	Cover > 75%	70	0.0
		Woods(Forest, Orchard)		
	D	Cover < 50%	83	0.0
	D	Cover 50% to 75%	80	0.0
	D	Cover > 75%	77	0.0
0.48	A,B,C,D	Impervious	98	46.6
			WEIGHTED CURVE NUMBER =	**68.9**

WEIGHTED CURVE NUMBER = SUM (CN*AREA) / TOTAL AREA

POND CALCULATIONS- MAITLAND CONCOURSE NORTH

PRE Development Runoff from flows on-site

1.0 EXISTING CONDITIONS:

Project Basin Area (Ac)=	61.70	
Impervious Area (Water) (Ac)=	2.35	4%
Impervious Area (Pvmt, Conc, Roofs) (Ac)=	3.36	5%
Pervious Area "A" Soils (Grass) (Ac)=	6.25	10%
Pervious Area "A" Soils (Crops)(Ac)=	40.31	65%
Pervious Area "A" Soils (Woods)(Ac)=	9.43	15%
Total Basin Area (Ac)=	61.70	100%

2.0 COMPOSITE CURVE NUMBER:

Existing Condition Curve Number :

COMPOSITE CN (PRE)= 49.7

3.0 DESIGN CRITERIA :

CN (Post) =	50	
PERCIPITATION (P) - Inches =	11.2	25 YR - 96 HR STORM
Basin Area (Ac)=	61.70	
Impervious Area (Ac)=	5.71	

S= (1000/CN) - 10
Runoff = [(P-0.2xS)^2]/[P+0.8xS]

S (Pre) = 10.12

Runoff (Pre 25Yr/96Hr)= 4.36 in

4.0 PRE DEVELOPMENT VOLUME FROM SITE:

Volume runoff = Area x Runoff (pre or post) x (1ft/12in)

Volume (Pre 25 Yr / 96 Hr)= 22.43 Ac-Ft
or = 976,917 ft^3

For 25-Yr, 96Hr Back-To-Back Storm Event Per SJRWMD= 44.85 Ac-Ft
or = 1,953,834 ft^3

POND CALCULATIONS- MAITLAND CONCOURSE NORTH

PRE Development Runoff from flows on-site

1.0 EXISTING CONDITIONS:

Project Basin Area (Ac)=	61.70	
Impervious Area (Water) (Ac)=	2.35	4%
Impervious Area (Pvmt, Conc, Roofs) (Ac)=	3.36	5%
Pervious Area "A" Soils (Grass) (Ac)=	6.25	10%
Pervious Area "A" Soils (Crops)(Ac)=	40.31	65%
Pervious Area "A" Soils (Woods)(Ac)=	9.43	15%
Total Basin Area (Ac)=	61.70	100%

2.0 COMPOSITE CURVE NUMBER:

Existing Condition Curve Number :

COMPOSITE CN (PRE)= 49.7

3.0 DESIGN CRITERIA :

CN (Post) =	50	
PERCIPITATION (P) - Inches =	11.4	100 YR - 24 HR STORM
Basin Area (Ac)=	61.70	
Impervious Area (Ac)=	5.71	

S= (1000/CN) - 10
Runoff = [(P-0.2xS)^2]/[P+0.8xS]

S (Pre) = 10.12

Runoff (Pre 100Yr/24Hr)= 4.51 in

4.0 PRE DEVELOPMENT VOLUME FROM SITE:

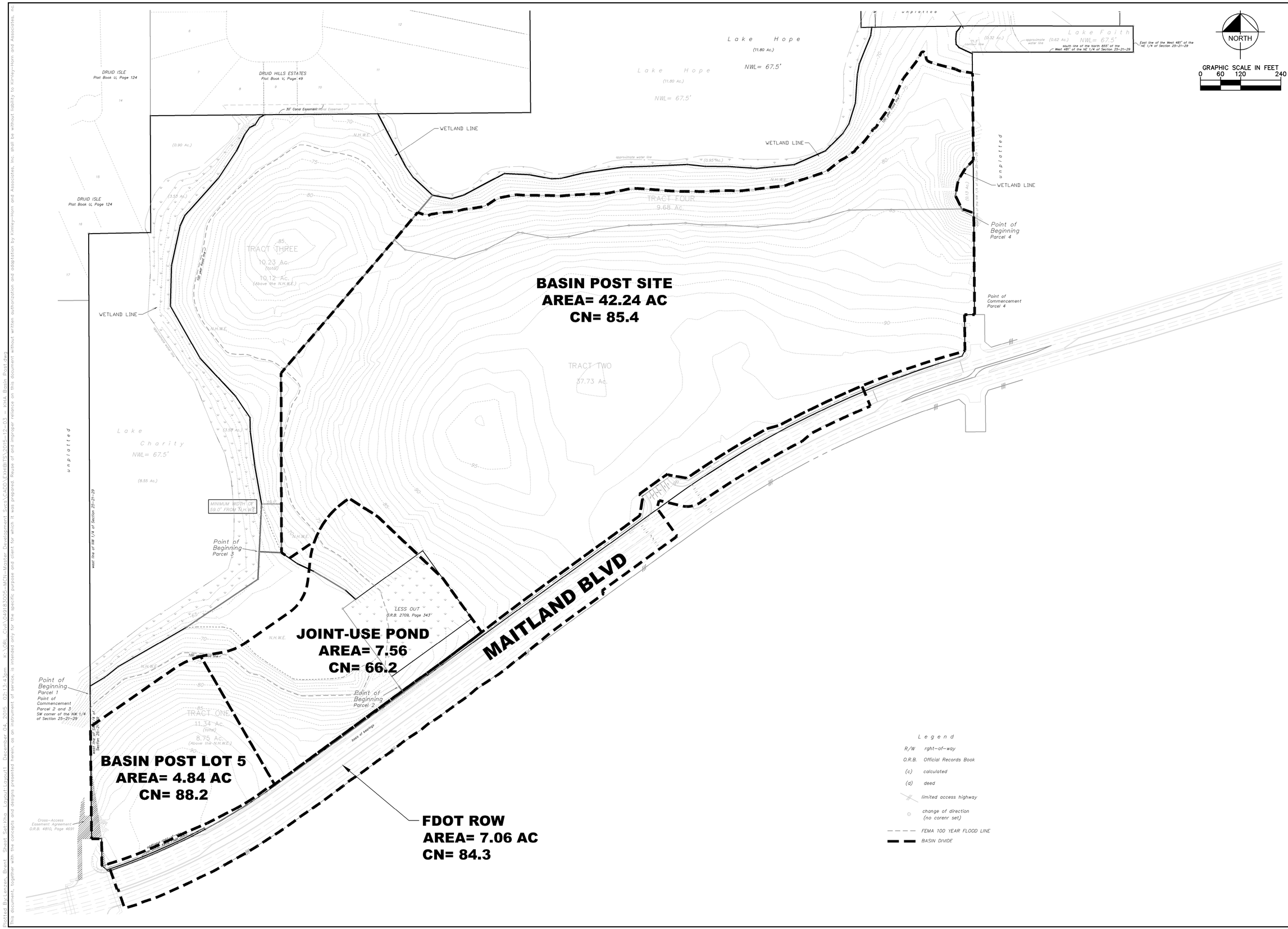
Volume runoff = Area x Runoff (pre or post) x (1ft/12in)

Volume (Pre 100 Yr / 24 Hr)= 23.18 Ac-Ft
or = 1,009,510 ft^3

For 100-Yr, 24Hr Back-To-Back Storm Event Per SJRWMD= 46.35 Ac-Ft
or = 2,019,020 ft^3

Post-Development Drainage Basin Map

Kimley»Horn



No.	REVISIONS	DATE	BY

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LICENSED PROFESSIONAL

DATE:

KHA PROJECT 149183000.2

DATE 12/4/2015

SCALE AS SHOWN

DESIGNED BY BAL

DRAWN BY BAL

CHECKED BY JAM

POST-DEVELOPMENT BASIN MAP EXHIBIT

MAITLAND CONCOURSE NORTH

CITY OF MAITLAND FLORIDA

SHEET NUMBER

Plotted By: Jason Brant Brace Sat, Nov 14, 2015 - 12:12pm K:\ORL_Civil\149183000-MCN Master Development Area\CADD\EXHIBITS\2015-12-03 - KHA Basin Plot.dwg
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Post-Development Calculations

Kimley»Horn

CURVE NUMBER WORKSHEET

POST-DEVELOPMENT COMPOSITE BASIN

Basin Area = 61.70 acres

AREA	SCS SOIL TYPE	COVER TYPE AND CONDITIONS	CURVE NUMBER	SUB TOTAL
		Grass (Lawns, Parks, Golf Courses, etc.)		
	A	Cover < 50%	68	0.0
	A	Cover 50% to 75%	49	0.0
15.65	A	Cover > 75%	39	610.4
		Grass (Lawns, Parks, Golf Courses, etc.)		
	B	Cover < 50%	79	0.0
	B	Cover 50% to 75%	69	0.0
	B	Cover > 75%	61	0.0
		Grass (Lawns, Parks, Golf Courses, etc.)		
	C	Cover < 50%	86	0.0
	C	Cover 50% to 75%	79	0.0
	C	Cover > 75%	74	0.0
		Grass (Lawns, Parks, Golf Courses, etc.)		
	D	Cover < 50%	89	0.0
	D	Cover 50% to 75%	84	0.0
	D	Cover > 75%	80	0.0
		Woods(Forest, Orchard)		
	A	Cover < 50%	45	0.0
	A	Cover 50% to 75%	35	0.0
	A	Cover > 75%	25	0.0
		Woods(Forest, Orchard)		
	B	Cover < 50%	66	0.0
	B	Cover 50% to 75%	60	0.0
	B	Cover > 75%	55	0.0
		Woods(Forest, Orchard)		
	C	Cover < 50%	77	0.0
	C	Cover 50% to 75%	74	0.0
	C	Cover > 75%	70	0.0
		Woods(Forest, Orchard)		
	D	Cover < 50%	83	0.0
	D	Cover 50% to 75%	80	0.0
	D	Cover > 75%	77	0.0
3.05	A,B,C,D	Pond NWL	100	305.0
43.00	A,B,C,D	Impervious (Pavement, Concrete, Roofs)	98	4214.0
			WEIGHTED CURVE NUMBER =	**83.1**

WEIGHTED CURVE NUMBER = SUM (CN*AREA) / TOTAL AREA

CURVE NUMBER WORKSHEET

POST-DEVELOPMENT SITE BASIN

Basin Area = 42.24 acres

AREA	SCS SOIL TYPE	COVER TYPE AND CONDITIONS	CURVE NUMBER	SUB TOTAL
		Grass (Lawns, Parks, Golf Courses, etc.)		
	A	Cover < 50%	68	0.0
	A	Cover 50% to 75%	49	0.0
9.03	A	Cover > 75%	39	352.2
		Grass (Lawns, Parks, Golf Courses, etc.)		
	B	Cover < 50%	79	0.0
	B	Cover 50% to 75%	69	0.0
	B	Cover > 75%	61	0.0
		Grass (Lawns, Parks, Golf Courses, etc.)		
	C	Cover < 50%	86	0.0
	C	Cover 50% to 75%	79	0.0
	C	Cover > 75%	74	0.0
		Grass (Lawns, Parks, Golf Courses, etc.)		
	D	Cover < 50%	89	0.0
	D	Cover 50% to 75%	84	0.0
	D	Cover > 75%	80	0.0
		Woods(Forest, Orchard)		
	A	Cover < 50%	45	0.0
	A	Cover 50% to 75%	35	0.0
	A	Cover > 75%	25	0.0
		Woods(Forest, Orchard)		
	B	Cover < 50%	66	0.0
	B	Cover 50% to 75%	60	0.0
	B	Cover > 75%	55	0.0
		Woods(Forest, Orchard)		
	C	Cover < 50%	77	0.0
	C	Cover 50% to 75%	74	0.0
	C	Cover > 75%	70	0.0
		Woods(Forest, Orchard)		
	D	Cover < 50%	83	0.0
	D	Cover 50% to 75%	80	0.0
	D	Cover > 75%	77	0.0
	A,B,C,D	Water	100	0.0
33.21	A,B,C,D	Impervious (Pavement, Concrete, Roofs)	98	3254.6
			WEIGHTED CURVE NUMBER =	**85.4**

WEIGHTED CURVE NUMBER = SUM (CN*AREA) / TOTAL AREA

CURVE NUMBER WORKSHEET

POST-DEVELOPMENT LOT 5 BASIN

Basin Area = 4.84 acres

AREA	SCS SOIL TYPE	COVER TYPE AND CONDITIONS	CURVE NUMBER	SUB TOTAL
		Grass (Lawns, Parks, Golf Courses, etc.)		
	A	Cover < 50%	68	0.0
	A	Cover 50% to 75%	49	0.0
0.80	A	Cover > 75%	39	31.2
		Grass (Lawns, Parks, Golf Courses, etc.)		
	B	Cover < 50%	79	0.0
	B	Cover 50% to 75%	69	0.0
	B	Cover > 75%	61	0.0
		Grass (Lawns, Parks, Golf Courses, etc.)		
	C	Cover < 50%	86	0.0
	C	Cover 50% to 75%	79	0.0
	C	Cover > 75%	74	0.0
		Grass (Lawns, Parks, Golf Courses, etc.)		
	D	Cover < 50%	89	0.0
	D	Cover 50% to 75%	84	0.0
	D	Cover > 75%	80	0.0
		Woods(Forest, Orchard)		
	A	Cover < 50%	45	0.0
	A	Cover 50% to 75%	35	0.0
	A	Cover > 75%	25	0.0
		Woods(Forest, Orchard)		
	B	Cover < 50%	66	0.0
	B	Cover 50% to 75%	60	0.0
	B	Cover > 75%	55	0.0
		Woods(Forest, Orchard)		
	C	Cover < 50%	77	0.0
	C	Cover 50% to 75%	74	0.0
	C	Cover > 75%	70	0.0
		Woods(Forest, Orchard)		
	D	Cover < 50%	83	0.0
	D	Cover 50% to 75%	80	0.0
	D	Cover > 75%	77	0.0
	A,B,C,D	Water	100	0.0
4.04	A,B,C,D	Impervious (Pavement, Concrete, Roofs)	98	395.9
			WEIGHTED CURVE NUMBER =	**88.2**

WEIGHTED CURVE NUMBER = SUM (CN*AREA) / TOTAL AREA

CURVE NUMBER WORKSHEET

POST-DEVELOPMENT JOINT USE POND BASIN

Basin Area = 7.56 acres

AREA	SCS SOIL TYPE	COVER TYPE AND CONDITIONS	CURVE NUMBER	SUB TOTAL
		Grass (Lawns, Parks, Golf Courses, etc.)		
	A	Cover < 50%	68	0.0
	A	Cover 50% to 75%	49	0.0
4.18	A	Cover > 75%	39	163.0
		Grass (Lawns, Parks, Golf Courses, etc.)		
	B	Cover < 50%	79	0.0
	B	Cover 50% to 75%	69	0.0
	B	Cover > 75%	61	0.0
		Grass (Lawns, Parks, Golf Courses, etc.)		
	C	Cover < 50%	86	0.0
	C	Cover 50% to 75%	79	0.0
	C	Cover > 75%	74	0.0
		Grass (Lawns, Parks, Golf Courses, etc.)		
	D	Cover < 50%	89	0.0
	D	Cover 50% to 75%	84	0.0
	D	Cover > 75%	80	0.0
		Woods(Forest, Orchard)		
	A	Cover < 50%	45	0.0
	A	Cover 50% to 75%	35	0.0
	A	Cover > 75%	25	0.0
		Woods(Forest, Orchard)		
	B	Cover < 50%	66	0.0
	B	Cover 50% to 75%	60	0.0
	B	Cover > 75%	55	0.0
		Woods(Forest, Orchard)		
	C	Cover < 50%	77	0.0
	C	Cover 50% to 75%	74	0.0
	C	Cover > 75%	70	0.0
		Woods(Forest, Orchard)		
	D	Cover < 50%	83	0.0
	D	Cover 50% to 75%	80	0.0
	D	Cover > 75%	77	0.0
3.05	A,B,C,D	Water	100	305.0
0.33	A,B,C,D	Impervious (Pavement, Concrete, Roofs)	98	32.3
			WEIGHTED CURVE NUMBER =	**66.2**

WEIGHTED CURVE NUMBER = SUM (CN*AREA) / TOTAL AREA

CURVE NUMBER WORKSHEET

POST-DEVELOPMENT FDOT ROW BASIN

Basin Area = 7.06 acres

AREA	SCS SOIL TYPE	COVER TYPE AND CONDITIONS	CURVE NUMBER	SUB TOTAL
		Grass (Lawns, Parks, Golf Courses, etc.)		
	A	Cover < 50%	68	0.0
	A	Cover 50% to 75%	49	0.0
1.64	A	Cover > 75%	39	64.0
		Grass (Lawns, Parks, Golf Courses, etc.)		
	B	Cover < 50%	79	0.0
	B	Cover 50% to 75%	69	0.0
	B	Cover > 75%	61	0.0
		Grass (Lawns, Parks, Golf Courses, etc.)		
	C	Cover < 50%	86	0.0
	C	Cover 50% to 75%	79	0.0
	C	Cover > 75%	74	0.0
		Grass (Lawns, Parks, Golf Courses, etc.)		
	D	Cover < 50%	89	0.0
	D	Cover 50% to 75%	84	0.0
	D	Cover > 75%	80	0.0
		Woods(Forest, Orchard)		
	A	Cover < 50%	45	0.0
	A	Cover 50% to 75%	35	0.0
	A	Cover > 75%	25	0.0
		Woods(Forest, Orchard)		
	B	Cover < 50%	66	0.0
	B	Cover 50% to 75%	60	0.0
	B	Cover > 75%	55	0.0
		Woods(Forest, Orchard)		
	C	Cover < 50%	77	0.0
	C	Cover 50% to 75%	74	0.0
	C	Cover > 75%	70	0.0
		Woods(Forest, Orchard)		
	D	Cover < 50%	83	0.0
	D	Cover 50% to 75%	80	0.0
	D	Cover > 75%	77	0.0
	A,B,C,D	Water	100	0.0
5.42	A,B,C,D	Impervious (Pavement, Concrete, Roofs)	98	531.2
			WEIGHTED CURVE NUMBER =	**84.3**

WEIGHTED CURVE NUMBER = SUM (CN*AREA) / TOTAL AREA

POND

REQUIRED TREATMENT VOLUME & STAGE/STORAGE

ON-LINE WET DETENTION

Littoral Zone Provided?	**YES**
Discharge Directly to Class I, II, III or OFW?	**NO**

Basin Area =	61.70	acres
Impervious Area =	43.00	acres
0.5" of runoff over site = [(Basin Area)(1")]/12" =	2.57	acre-ft.
OR		
2.5" of runoff from imp. area = [(Imp Area)(2.5")]/12" =	8.96	acre-ft.
TOTAL REQUIRED TREATMENT VOLUME =	**8.958**	**acre-ft.**
	390,225	**CF**
Required Treatment Volume at Elevation =	69.20	ft

Provided Treatment Volume =	8.890	acre-ft.
	387,248	CF
Provided Treatment Volume at Elevation =	69.18	ft

	Elevation (FT)	Feet	Area (SF)	Area (AC)	Avg. Area (SF)	Volume (CF)	Volume Sum (CF)	Volume Sum (Ac-Ft)
TOB	79.5	13	260,029	5.969		128,815	2,512,457	57.68
					257,630			
	79	12.5	255,230	5.859		248,533	2,383,642	54.72
					248,533			
	78	11.5	241,835	5.552		236,688	2,135,110	49.02
					236,688			
	77	10.5	231,540	5.315		226,471	1,898,422	43.58
					226,471			
	76	9.5	221,402	5.083		216,412	1,671,951	38.38
					216,412			
	75	8.5	211,421	4.854		206,509	1,455,540	33.41
					206,509			
	74	7.5	201,597	4.628		196,764	1,249,031	28.67
					196,764			
	73	6.5	191,930	4.406		187,176	1,052,267	24.16
					187,176			
	72	5.5	182,421	4.188		177,745	865,092	19.86
					177,745			
	71	4.5	173,068	3.973		168,471	687,347	15.78
					168,471			
	70	3.5	163,873	3.762		159,354	518,877	11.91
					159,354			
	69	2.5	154,834	3.554		150,394	359,523	8.25
					150,394			
	68	1.5	145,953	3.351		141,591	209,130	4.80
					141,591			
	67	0.5	137,229	3.150		67,539	67,539	1.55
					135,077			
NWL	66.5	0	132,925	3.052		0	0	0.00
					130,794			
	66	-0.5	128,662	2.954		65,397	65,397	1.50
					124,457			
	65	-1.5	120,251	2.761		124,457	189,853	4.36
					116,117			
	64	-2.5	111,982	2.571		116,117	305,970	7.02
					107,926			
	63	-3.5	103,870	2.385		107,926	413,896	9.50
					99,905			
	62	-4.5	95,940	2.202		99,905	513,801	11.80
					92,077			
	61	-5.5	88,214	2.025		92,077	605,878	13.91
					84,437			
	60	-6.5	80,659	1.852		84,437	690,314	15.85
					77,003			
	59	-7.5	73,346	1.684		77,003	767,317	17.62
					69,759			
	58	-8.5	66,171	1.519		69,759	837,075	19.22
					78,055			
	57	-9.5	89,938	2.065		78,055	915,130	21.01
					71,198			
	56	-10.5	52,458	1.204		71,198	986,328	22.64
					49,179			
BOTTOM	55	-11.5	45,900	1.054		49,179	1,035,507	23.77

Permanent Pool Volume Calculation

PPV = (DA*C*R*RT)/(WS* CF)

POND C1

DA = Drainage Area =	61.70	acres
C = Runoff Coefficient =	0.753	
R = Wet Season Rainfall Depth =	31.0	inches
RT = Residence Time =	14	days
WS = Wet Season =	153	days
CF = Conversion Factor =	12	in/ft
Required PPV	10.98	ac-ft
additional 50% for no littoral Zone	N/A	ac-ft
additional 50% for OFW discharge	N/A	ac-ft

	Elevation (ft NGVD)	Area (ac.)	Volume (ac-ft)
Top of Bank	79.5	5.969	
NWL	66.5	3.052	23.61
Bottom	55	1.054	0.00

PPV Required 10.98 ac-ft

PPV Provided 23.61 ac-ft

Mean Depth 7.74 ft

Runoff Coefficient Calculation

	AREA (AC)	RUNOFF COEFFICIENT
IMPERVIOUS AREA	43.00	0.95
PERVIOUS AREA	18.70	0.30

C = [(Impervious Area)x(0.95) + (Pervious Area)x(0.30)] / (Total Area)

RUNOFF COEFFICIENT = 0.753

ICPR Drainage Calculations

Input Report

Water Quality Recovery Analysis

1st 25yr-96hr Storm Pond Max Stage

1st 25yr-95hr Storm Pond Stage 14-day Drawdown

2nd 25yr-96hr Storm Pond Max Stage

2nd 25yr-96hr Storm Post Development Runoff

Kimley»Horn

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==========================================================================================
==== Basins ==============================================================================
==========================================================================================

         Name: ConcourseS               Node: ConcourseS             Status: Inactive
        Group: BASE                     Type: SCS Unit Hydrograph CN

        Unit Hydrograph: Uh323                   Peaking Factor: 323.0
          Rainfall File: Sjrwmd96            Storm Duration(hrs): 96.00
    Rainfall Amount(in): 10.000                Time of Conc(min): 15.00
             Area(ac): 32.590                    Time Shift(hrs): 0.00
          Curve Number: 70.41               Max Allowable Q(cfs): 999999.000
               DCIA(%): 0.00


-------------------------------------------------------------------------------------------
         Name: FDOT POST                Node: Pond 2 POST            Status: Onsite
        Group: BASE                     Type: SCS Unit Hydrograph CN

        Unit Hydrograph: Uh323                   Peaking Factor: 323.0
          Rainfall File: Sjrwmd96            Storm Duration(hrs): 0.00
    Rainfall Amount(in): 0.000                 Time of Conc(min): 20.00
             Area(ac): 7.060                     Time Shift(hrs): 0.00
          Curve Number: 84.30               Max Allowable Q(cfs): 999999.000
               DCIA(%): 0.00


-------------------------------------------------------------------------------------------
         Name: LOT 5                    Node: Pond 2 POST            Status: Onsite
        Group: BASE                     Type: SCS Unit Hydrograph CN

        Unit Hydrograph: Uh323                   Peaking Factor: 323.0
          Rainfall File: Sjrwmd96            Storm Duration(hrs): 0.00
    Rainfall Amount(in): 0.000                 Time of Conc(min): 20.00
             Area(ac): 4.840                     Time Shift(hrs): 0.00
          Curve Number: 88.20               Max Allowable Q(cfs): 999999.000
               DCIA(%): 0.00


-------------------------------------------------------------------------------------------
         Name: POND 2                   Node: Pond 2 POST            Status: Onsite
        Group: BASE                     Type: SCS Unit Hydrograph CN

        Unit Hydrograph: Uh323                   Peaking Factor: 323.0
          Rainfall File: Sjrwmd96            Storm Duration(hrs): 0.00
    Rainfall Amount(in): 0.000                 Time of Conc(min): 10.00
             Area(ac): 7.560                     Time Shift(hrs): 0.00
          Curve Number: 66.20               Max Allowable Q(cfs): 999999.000
               DCIA(%): 0.00


-------------------------------------------------------------------------------------------
         Name: SITE                     Node: Pond 2 POST            Status: Onsite
        Group: BASE                     Type: SCS Unit Hydrograph CN

        Unit Hydrograph: Uh323                   Peaking Factor: 323.0
          Rainfall File: Sjrwmd96            Storm Duration(hrs): 0.00
    Rainfall Amount(in): 0.000                 Time of Conc(min): 20.00
             Area(ac): 42.240                    Time Shift(hrs): 0.00
          Curve Number: 85.40               Max Allowable Q(cfs): 999999.000
               DCIA(%): 0.00


==========================================================================================
==== Nodes ===============================================================================
==========================================================================================

      Name: ConcourseS          Base Flow(cfs): 0.000          Init Stage(ft): 86.000
     Group: BASE                                               Warn Stage(ft): 91.000
      Type: Stage/Area


      Stage(ft)        Area(ac)
--------------- ---------------
         86.000          1.3060
         86.500          1.7140
         87.000          2.1230
         87.500          2.6130
         88.000          3.0870
         88.500          3.5590
         89.000          4.0310
         89.500          4.8740
```

```
         90.000          5.7170
         90.500          6.8750
         91.000          8.0330

-------------------------------------------------------------------------------------------
      Name: GWT-CS              Base Flow(cfs): 0.000          Init Stage(ft): 0.000
     Group: BASE                                              Warn Stage(ft): 0.000
      Type: Time/Stage


      Time(hrs)       Stage(ft)
--------------- ---------------
           0.00           0.000
         100.00           0.000

-------------------------------------------------------------------------------------------
      Name: GWT-Pond2           Base Flow(cfs): 0.000          Init Stage(ft): 66.500
     Group: BASE                                              Warn Stage(ft): 67.500
      Type: Time/Stage


      Time(hrs)       Stage(ft)
--------------- ---------------
           0.00          66.500
         999.00          66.500

-------------------------------------------------------------------------------------------
      Name: Lake Charity        Base Flow(cfs): 0.000          Init Stage(ft): 66.500
     Group: BASE                                              Warn Stage(ft): 73.000
      Type: Time/Stage


      Time(hrs)       Stage(ft)
--------------- ---------------
           0.00          66.500
          48.00          69.000
          60.00          70.000
          96.00          72.000
         120.00          72.200

-------------------------------------------------------------------------------------------
      Name: Pond 2 POST         Base Flow(cfs): 0.000          Init Stage(ft): 66.500
     Group: BASE                                              Warn Stage(ft): 79.500
      Type: Stage/Area


      Stage(ft)        Area(ac)
--------------- ---------------
         66.500          3.0520
         67.000          3.1500
         68.000          3.3510
         69.000          3.5540
         70.000          3.7620
         71.000          3.9730
         72.000          4.1880
         73.000          4.4060
         74.000          4.6280
         75.000          4.8540
         76.000          5.0830
         77.000          5.3150
         78.000          5.5520
         79.000          5.8590
         79.500          5.9690

===========================================================================================
==== Drop Structures ======================================================================
===========================================================================================

         Name: CS-outfall          From Node: ConcourseS         Length(ft): 30.00
        Group: BASE                  To Node: Pond 2 POST             Count: 1

               UPSTREAM       DOWNSTREAM                  Friction Equation: Automatic
     Geometry: Circular       Circular                  Solution Algorithm: Most Restrictive
     Span(in): 24.00          24.00                                 Flow: Both
     Rise(in): 24.00          24.00                   Entrance Loss Coef: 0.000
   Invert(ft): 78.380         78.450                      Exit Loss Coef: 1.000
  Manning's N: 0.012000       0.012000                  Outlet Ctrl Spec: Use dc or tw
 Top Clip(in): 0.000          0.000                      Inlet Ctrl Spec: Use dc
 Bot Clip(in): 0.000          0.000                        Solution Incs: 10

Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall
```

```
*** Weir 1 of 3 for Drop Structure CS-outfall ***
                                                                                    TABLE
                 Count: 2                      Bottom Clip(in): 0.000
                  Type: Vertical: Mavis           Top Clip(in): 0.000
                  Flow: Both                    Weir Disc Coef: 3.100
              Geometry: Circular              Orifice Disc Coef: 0.600

              Span(in): 8.00                        Invert(ft): 89.850
              Rise(in): 8.00                   Control Elev(ft): 89.850

*** Weir 2 of 3 for Drop Structure CS-outfall ***
                                                                                    TABLE
                 Count: 1                      Bottom Clip(in): 0.000
                  Type: Vertical: Mavis           Top Clip(in): 0.000
                  Flow: Both                    Weir Disc Coef: 3.100
              Geometry: Rectangular           Orifice Disc Coef: 0.600

              Span(in): 48.00                       Invert(ft): 90.000
              Rise(in): 6.00                   Control Elev(ft): 90.000

*** Weir 3 of 3 for Drop Structure CS-outfall ***
                                                                                    TABLE
                 Count: 1                      Bottom Clip(in): 0.000
                  Type: Horizontal                Top Clip(in): 0.000
                  Flow: Both                    Weir Disc Coef: 3.000
              Geometry: Rectangular           Orifice Disc Coef: 0.600

              Span(in): 36.00                       Invert(ft): 90.500
              Rise(in): 54.00                  Control Elev(ft): 90.500


==========================================================================================
==== Weirs ===============================================================================
==========================================================================================

         Name: Pond2PreOutfall     From Node: Pond 2 POST
        Group: BASE                  To Node: Lake Charity
         Flow: Both                    Count: 1
         Type: Vertical: Mavis      Geometry: Trapezoidal

            Bottom Width(ft): 25.00
       Left Side Slope(h/v): 2.00
      Right Side Slope(h/v): 2.00
                  Invert(ft): 79.000
      Control Elevation(ft): 79.000
     Struct Opening Dim(ft): 9999.00
                                          TABLE
             Bottom Clip(ft): 0.000
                Top Clip(ft): 0.000
         Weir Discharge Coef: 2.800
     Orifice Discharge Coef: 0.600


==========================================================================================
==== Percolation Links ====================================================================
==========================================================================================

         Name: Concourse-Perc      From Node: ConcourseS               Flow: Both
        Group: BASE                  To Node: GWT-CS                  Count: 1

         Surface Area Option: Use 1st Point in Stage/Area Table
   Vertical Flow Termination: Horizontal Flow Algorithm
       Aquifer Base Elev(ft): 76.300                       Perimeter 1(ft): 6150.000
        Water Table Elev(ft): 79.300                       Perimeter 2(ft): 6550.000
 ****************************0.000                       Perimeter 3(ft): 10150.000
  Horiz Conductivity(ft/day): 20.700                   Distance 1 to 2(ft): 50.000
   Vert Conductivity(ft/day): 13.800                   Distance 2 to 3(ft): 450.000
     Effective Porosity(dec): 0.250                       Num Cells 1 to 2: 10
            Suction Head(in): 4.000                       Num Cells 2 to 3: 45
         Layer Thickness(ft): 6.700



-------------------------------------------------------------------------------------------------
         Name: Pond2-Perc          From Node: Pond 2 POST              Flow: Both
        Group: BASE                  To Node: GWT-Pond2               Count: 1

         Surface Area Option: Use 1st Point in Stage/Area Table
   Vertical Flow Termination: Horizontal Flow Algorithm
       Aquifer Base Elev(ft): 50.000                       Perimeter 1(ft): 2067.000
        Water Table Elev(ft): 66.500                       Perimeter 2(ft): 2381.000
 ****************************0.000                       Perimeter 3(ft): 5209.000
  Horiz Conductivity(ft/day): 20.000                   Distance 1 to 2(ft): 50.000
   Vert Conductivity(ft/day): 3.330                    Distance 2 to 3(ft): 450.000
```

```
     Effective Porosity(dec): 0.250                        Num Cells 1 to 2: 10
            Suction Head(in): 4.000                        Num Cells 2 to 3: 45
        Layer Thickness(ft): 0.000



==================================================================================
==== Hydrology Simulations ========================================================
==================================================================================

         Name: 03-24POST
     Filename: K:\ORL_Civil\049183005-MCN-Master Development Svcs\DRAINAGE\ICPR\03-24POST.R32

      Override Defaults: Yes
    Storm Duration(hrs): 24.00
          Rainfall File: Fdot-24
    Rainfall Amount(in): 5.50

Time(hrs)       Print Inc(min)
--------------- ---------------
24.000          5.00

-------------------------------------------------------------------------------------------------
         Name: 100YR-24HR
     Filename: K:\ORL_Civil\049183005-MCN-Master Development Svcs\DRAINAGE\ICPR\100YR-24HR.R32

      Override Defaults: Yes
    Storm Duration(hrs): 24.00
          Rainfall File: Flmod
    Rainfall Amount(in): 11.40

Time(hrs)       Print Inc(min)
--------------- ---------------
8.000           30.00
14.000          15.00
24.000          30.00

-------------------------------------------------------------------------------------------------
         Name: 10YR-24HR
     Filename: K:\ORL_Civil\049183005-MCN-Master Development Svcs\DRAINAGE\ICPR\10YR-24HR.R32

      Override Defaults: Yes
    Storm Duration(hrs): 24.00
          Rainfall File: Flmod
    Rainfall Amount(in): 6.80

Time(hrs)       Print Inc(min)
--------------- ---------------
8.000           30.00
14.000          15.00
24.000          30.00

-------------------------------------------------------------------------------------------------
         Name: 25-96POST
     Filename: K:\ORL_Civil\049183005-MCN-Master Development Svcs\DRAINAGE\ICPR\25-96POST.R32

      Override Defaults: Yes
    Storm Duration(hrs): 96.00
          Rainfall File: Sjrwmd96
    Rainfall Amount(in): 11.20

Time(hrs)       Print Inc(min)
--------------- ---------------
360.000         5.00

-------------------------------------------------------------------------------------------------
         Name: 25YR-24HR
     Filename: K:\ORL_Civil\049183005-MCN-Master Development Svcs\DRAINAGE\ICPR\25YR-24HR.R32

      Override Defaults: Yes
    Storm Duration(hrs): 24.00
          Rainfall File: Orange
    Rainfall Amount(in): 8.50

Time(hrs)       Print Inc(min)
--------------- ---------------
10.000          30.00
14.000          10.00
24.000          30.00

==================================================================================
==== Routing Simulations ==========================================================
==================================================================================

         Name: 03-24POST           Hydrology Sim: 03-24POST
     Filename: K:\ORL_Civil\049183005-MCN-Master Development Svcs\DRAINAGE\ICPR\03-24POST.I32

      Execute: No          Restart: No            Patch: No
```

```
  Alternative: No

        Max Delta Z(ft): 1.00                    Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
        Start Time(hrs): 0.000                    End Time(hrs): 28.00
     Min Calc Time(sec): 0.5000               Max Calc Time(sec): 60.0000
        Boundary Stages:                         Boundary Flows:



Time(hrs)       Print Inc(min)
--------------- ---------------
999.000         15.000

Group           Run
--------------- -----
BASE            Yes


-------------------------------------------------------------------------------------------------
         Name: 100YR-24HR          Hydrology Sim: 100YR-24HR
     Filename: K:\ORL_Civil\049183005-MCN-Master Development Svcs\DRAINAGE\ICPR\100YR-24HR.I32

      Execute: Yes         Restart: No            Patch: No
  Alternative: No

        Max Delta Z(ft): 1.00                    Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
        Start Time(hrs): 0.000                    End Time(hrs): 24.00
     Min Calc Time(sec): 0.5000               Max Calc Time(sec): 60.0000
        Boundary Stages:                         Boundary Flows:



Time(hrs)       Print Inc(min)
--------------- ---------------
8.000           30.000
14.000          10.000
24.000          30.000

Group           Run
--------------- -----
BASE            Yes


-------------------------------------------------------------------------------------------------
         Name: 10YR-24HR           Hydrology Sim: 10YR-24HR
     Filename: K:\ORL_Civil\049183005-MCN-Master Development Svcs\DRAINAGE\ICPR\10YR-24HR.I32

      Execute: No          Restart: No            Patch: No
  Alternative: No

        Max Delta Z(ft): 1.00                    Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
        Start Time(hrs): 0.000                    End Time(hrs): 24.00
     Min Calc Time(sec): 0.5000               Max Calc Time(sec): 60.0000
        Boundary Stages:                         Boundary Flows:



Time(hrs)       Print Inc(min)
--------------- ---------------
8.000           30.000
14.000          10.000
24.000          30.000

Group           Run
--------------- -----
BASE            Yes


-------------------------------------------------------------------------------------------------
         Name: 25-96POST           Hydrology Sim: 25-96POST
     Filename: K:\ORL_Civil\049183005-MCN-Master Development Svcs\DRAINAGE\ICPR\25-96POST.I32

      Execute: No          Restart: No            Patch: No
  Alternative: No

        Max Delta Z(ft): 1.00                    Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
        Start Time(hrs): 0.000                    End Time(hrs): 100.00
     Min Calc Time(sec): 0.5000               Max Calc Time(sec): 60.0000
        Boundary Stages:                         Boundary Flows:



Time(hrs)       Print Inc(min)
--------------- ---------------
999.000         15.000
```

```
Group           Run
--------------- -----
BASE            Yes


-----------------------------------------------------------------------------------------------------
         Name: 25YR-24HR           Hydrology Sim: 25YR-24HR
     Filename: K:\ORL_Civil\049183005-MCN-Master Development Svcs\DRAINAGE\ICPR\25YR-24HR.I32

      Execute: No          Restart: No            Patch: No
  Alternative: No

        Max Delta Z(ft): 1.00                     Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
        Start Time(hrs): 0.000                     End Time(hrs): 360.00
     Min Calc Time(sec): 1.0000               Max Calc Time(sec): 60.0000
        Boundary Stages:                          Boundary Flows:


Time(hrs)       Print Inc(min)
--------------- ---------------
10.000          30.000
14.000          10.000
24.000          30.000
60.000          60.000
360.000         60.000

Group           Run
--------------- -----
BASE            Yes
```

MAITLAND CONCOURSE NORTH

WATER QUALITY RECOVERY ANALYSIS

RUN WITHOUT PERC DURING THE STORM EVENT

- With the initial pond stage of 66.5, the 25yr-24hr storm event would result in a max pond stage of 74.97.
- Adding the water quality volume on top of the 25yr-24hr storm pond stage would result in a stage of 76.75.
- The max stage of 76.75 was then set as the initial pond stage, and drawdown was analyzed over the 72-hr period.
- After 72-hours, the pond draws down to an elevation of 74.98.
- By comparison of the 25yr-24hr pond stage of 74.97 to the 72-hour drawdown elevation of 74.98, the pond is within 0.01' of recovering the water quality volume within the 72-hour period.

MCN - Node Min/Max - 25yr-24hr Pond Stage

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
Pond 2 POST	BASE	25YR-24HR	24.00	74.97	79.50	0.0050	211149	9.00	94.28	0.00	0.00

MCN - Node Min/Max - 25yr-24hr Pond + Water Quality Stage

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
Pond 2 POST	BASE	25YR-24HR	24.00	76.75	79.50	0.0050	228954	9.00	94.29	0.00	0.00

MCN - Node Time/Stage - 25yr-24hr Pond + Water Quality Stage 72hr Drawdown

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
25YR-24HR	Pond 2 POST	BASE	0.00	76.75	79.50	228995	0.00	0.00	0.00	0.00
25YR-24HR	Pond 2 POST	BASE	0.50	76.71	79.50	228588	0.00	5.12	0.00	0.11
25YR-24HR	Pond 2 POST	BASE	1.00	76.67	79.50	228180	0.00	5.12	0.00	0.32
25YR-24HR	Pond 2 POST	BASE	1.50	76.63	79.50	227771	0.00	5.12	0.00	0.53
25YR-24HR	Pond 2 POST	BASE	2.00	76.59	79.50	227361	0.00	5.12	0.00	0.74
25YR-24HR	Pond 2 POST	BASE	2.50	76.55	79.50	226951	0.00	5.12	0.00	0.95
25YR-24HR	Pond 2 POST	BASE	3.00	76.51	79.50	226540	0.00	5.12	0.00	1.17
25YR-24HR	Pond 2 POST	BASE	3.50	76.47	79.50	226128	0.00	5.12	0.00	1.38
25YR-24HR	Pond 2 POST	BASE	4.00	76.43	79.50	225715	0.00	5.12	0.00	1.59
25YR-24HR	Pond 2 POST	BASE	4.50	76.38	79.50	225302	0.00	5.12	0.00	1.80
25YR-24HR	Pond 2 POST	BASE	5.00	76.34	79.50	224900	0.00	4.51	0.00	2.00
25YR-24HR	Pond 2 POST	BASE	5.50	76.31	79.50	224561	0.00	3.93	0.00	2.17
25YR-24HR	Pond 2 POST	BASE	6.00	76.28	79.50	224256	0.00	3.59	0.00	2.33
25YR-24HR	Pond 2 POST	BASE	6.50	76.25	79.50	223976	0.00	3.34	0.00	2.47
25YR-24HR	Pond 2 POST	BASE	7.00	76.23	79.50	223713	0.00	3.14	0.00	2.61
25YR-24HR	Pond 2 POST	BASE	7.50	76.20	79.50	223464	0.00	2.97	0.00	2.73
25YR-24HR	Pond 2 POST	BASE	8.00	76.18	79.50	223228	0.00	2.83	0.00	2.85
25YR-24HR	Pond 2 POST	BASE	8.50	76.16	79.50	223002	0.00	2.71	0.00	2.97
25YR-24HR	Pond 2 POST	BASE	9.00	76.14	79.50	222786	0.00	2.60	0.00	3.08
25YR-24HR	Pond 2 POST	BASE	9.50	76.11	79.50	222577	0.00	2.50	0.00	3.18
25YR-24HR	Pond 2 POST	BASE	10.00	76.10	79.50	222376	0.00	2.42	0.00	3.28
25YR-24HR	Pond 2 POST	BASE	10.50	76.08	79.50	222181	0.00	2.34	0.00	3.38
25YR-24HR	Pond 2 POST	BASE	10.67	76.07	79.50	222118	0.00	2.32	0.00	3.41
25YR-24HR	Pond 2 POST	BASE	10.84	76.06	79.50	222055	0.00	2.29	0.00	3.45
25YR-24HR	Pond 2 POST	BASE	11.00	76.06	79.50	221992	0.00	2.27	0.00	3.48
25YR-24HR	Pond 2 POST	BASE	11.17	76.05	79.50	221931	0.00	2.25	0.00	3.51
25YR-24HR	Pond 2 POST	BASE	11.34	76.04	79.50	221870	0.00	2.22	0.00	3.54
25YR-24HR	Pond 2 POST	BASE	11.50	76.04	79.50	221809	0.00	2.20	0.00	3.57
25YR-24HR	Pond 2 POST	BASE	11.67	76.03	79.50	221749	0.00	2.18	0.00	3.60
25YR-24HR	Pond 2 POST	BASE	11.84	76.03	79.50	221690	0.00	2.16	0.00	3.63
25YR-24HR	Pond 2 POST	BASE	12.00	76.02	79.50	221631	0.00	2.14	0.00	3.66
25YR-24HR	Pond 2 POST	BASE	12.17	76.02	79.50	221573	0.00	2.12	0.00	3.69
25YR-24HR	Pond 2 POST	BASE	12.34	76.01	79.50	221515	0.00	2.10	0.00	3.72
25YR-24HR	Pond 2 POST	BASE	12.50	76.00	79.50	221457	0.00	2.09	0.00	3.75
25YR-24HR	Pond 2 POST	BASE	12.67	76.00	79.50	221401	0.00	2.07	0.00	3.78
25YR-24HR	Pond 2 POST	BASE	12.84	75.99	79.50	221345	0.00	2.05	0.00	3.80
25YR-24HR	Pond 2 POST	BASE	13.00	75.99	79.50	221290	0.00	2.03	0.00	3.83
25YR-24HR	Pond 2 POST	BASE	13.17	75.98	79.50	221235	0.00	2.02	0.00	3.86
25YR-24HR	Pond 2 POST	BASE	13.34	75.98	79.50	221181	0.00	2.00	0.00	3.89
25YR-24HR	Pond 2 POST	BASE	13.50	75.97	79.50	221127	0.00	1.98	0.00	3.91
25YR-24HR	Pond 2 POST	BASE	13.67	75.97	79.50	221073	0.00	1.97	0.00	3.94
25YR-24HR	Pond 2 POST	BASE	13.84	75.96	79.50	221020	0.00	1.95	0.00	3.97
25YR-24HR	Pond 2 POST	BASE	14.00	75.96	79.50	220968	0.00	1.94	0.00	4.00
25YR-24HR	Pond 2 POST	BASE	14.17	75.95	79.50	220915	0.00	1.92	0.00	4.02
25YR-24HR	Pond 2 POST	BASE	14.67	75.93	79.50	220761	0.00	1.88	0.00	4.10
25YR-24HR	Pond 2 POST	BASE	15.17	75.92	79.50	220609	0.00	1.84	0.00	4.18
25YR-24HR	Pond 2 POST	BASE	15.67	75.90	79.50	220461	0.00	1.80	0.00	4.25
25YR-24HR	Pond 2 POST	BASE	16.17	75.89	79.50	220316	0.00	1.76	0.00	4.33
25YR-24HR	Pond 2 POST	BASE	16.67	75.88	79.50	220173	0.00	1.73	0.00	4.40
25YR-24HR	Pond 2 POST	BASE	17.17	75.86	79.50	220034	0.00	1.70	0.00	4.47
25YR-24HR	Pond 2 POST	BASE	17.67	75.85	79.50	219896	0.00	1.67	0.00	4.54
25YR-24HR	Pond 2 POST	BASE	18.17	75.83	79.50	219762	0.00	1.64	0.00	4.61
25YR-24HR	Pond 2 POST	BASE	18.67	75.82	79.50	219629	0.00	1.61	0.00	4.67
25YR-24HR	Pond 2 POST	BASE	19.17	75.81	79.50	219499	0.00	1.58	0.00	4.74
25YR-24HR	Pond 2 POST	BASE	19.67	75.80	79.50	219371	0.00	1.55	0.00	4.80
25YR-24HR	Pond 2 POST	BASE	20.17	75.78	79.50	219245	0.00	1.53	0.00	4.87
25YR-24HR	Pond 2 POST	BASE	20.67	75.77	79.50	219121	0.00	1.50	0.00	4.93
25YR-24HR	Pond 2 POST	BASE	21.17	75.76	79.50	218999	0.00	1.48	0.00	4.99
25YR-24HR	Pond 2 POST	BASE	21.67	75.75	79.50	218879	0.00	1.45	0.00	5.05
25YR-24HR	Pond 2 POST	BASE	22.17	75.73	79.50	218760	0.00	1.43	0.00	5.11
25YR-24HR	Pond 2 POST	BASE	22.67	75.72	79.50	218644	0.00	1.41	0.00	5.17
25YR-24HR	Pond 2 POST	BASE	23.17	75.71	79.50	218529	0.00	1.39	0.00	5.23
25YR-24HR	Pond 2 POST	BASE	23.67	75.70	79.50	218415	0.00	1.37	0.00	5.29
25YR-24HR	Pond 2 POST	BASE	24.17	75.69	79.50	218303	0.00	1.35	0.00	5.34
25YR-24HR	Pond 2 POST	BASE	25.17	75.67	79.50	218084	0.00	1.31	0.00	5.45
25YR-24HR	Pond 2 POST	BASE	26.17	75.64	79.50	217871	0.00	1.28	0.00	5.56
25YR-24HR	Pond 2 POST	BASE	27.17	75.62	79.50	217663	0.00	1.25	0.00	5.66
25YR-24HR	Pond 2 POST	BASE	28.17	75.60	79.50	217460	0.00	1.21	0.00	5.77
25YR-24HR	Pond 2 POST	BASE	29.17	75.58	79.50	217262	0.00	1.18	0.00	5.86
25YR-24HR	Pond 2 POST	BASE	30.17	75.56	79.50	217068	0.00	1.16	0.00	5.96
25YR-24HR	Pond 2 POST	BASE	31.17	75.55	79.50	216879	0.00	1.13	0.00	6.06
25YR-24HR	Pond 2 POST	BASE	32.17	75.53	79.50	216693	0.00	1.11	0.00	6.15
25YR-24HR	Pond 2 POST	BASE	33.17	75.51	79.50	216512	0.00	1.08	0.00	6.24
25YR-24HR	Pond 2 POST	BASE	34.17	75.49	79.50	216335	0.00	1.06	0.00	6.33
25YR-24HR	Pond 2 POST	BASE	35.17	75.47	79.50	216161	0.00	1.04	0.00	6.41
25YR-24HR	Pond 2 POST	BASE	36.17	75.46	79.50	215990	0.00	1.02	0.00	6.50
25YR-24HR	Pond 2 POST	BASE	37.17	75.44	79.50	215823	0.00	1.00	0.00	6.58
25YR-24HR	Pond 2 POST	BASE	38.17	75.42	79.50	215658	0.00	0.98	0.00	6.66
25YR-24HR	Pond 2 POST	BASE	39.17	75.41	79.50	215497	0.00	0.96	0.00	6.74
25YR-24HR	Pond 2 POST	BASE	40.17	75.39	79.50	215338	0.00	0.94	0.00	6.82
25YR-24HR	Pond 2 POST	BASE	41.17	75.38	79.50	215183	0.00	0.93	0.00	6.90
25YR-24HR	Pond 2 POST	BASE	42.17	75.36	79.50	215029	0.00	0.91	0.00	6.97
25YR-24HR	Pond 2 POST	BASE	43.17	75.34	79.50	214879	0.00	0.89	0.00	7.05
25YR-24HR	Pond 2 POST	BASE	44.17	75.33	79.50	214730	0.00	0.88	0.00	7.12
25YR-24HR	Pond 2 POST	BASE	45.17	75.32	79.50	214584	0.00	0.87	0.00	7.19
25YR-24HR	Pond 2 POST	BASE	46.17	75.30	79.50	214441	0.00	0.85	0.00	7.27

MCN - Node Time/Stage - 25yr-24hr Pond + Water Quality Stage 72hr Drawdown

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
25YR-24HR	Pond 2 POST	BASE	47.17	75.29	79.50	214299	0.00	0.84	0.00	7.34
25YR-24HR	Pond 2 POST	BASE	48.17	75.27	79.50	214160	0.00	0.83	0.00	7.40
25YR-24HR	Pond 2 POST	BASE	49.17	75.26	79.50	214022	0.00	0.81	0.00	7.47
25YR-24HR	Pond 2 POST	BASE	50.17	75.25	79.50	213886	0.00	0.80	0.00	7.54
25YR-24HR	Pond 2 POST	BASE	51.17	75.23	79.50	213753	0.00	0.79	0.00	7.60
25YR-24HR	Pond 2 POST	BASE	52.17	75.22	79.50	213621	0.00	0.78	0.00	7.67
25YR-24HR	Pond 2 POST	BASE	53.17	75.21	79.50	213491	0.00	0.77	0.00	7.73
25YR-24HR	Pond 2 POST	BASE	54.17	75.19	79.50	213362	0.00	0.76	0.00	7.80
25YR-24HR	Pond 2 POST	BASE	55.17	75.18	79.50	213235	0.00	0.75	0.00	7.86
25YR-24HR	Pond 2 POST	BASE	56.17	75.17	79.50	213110	0.00	0.74	0.00	7.92
25YR-24HR	Pond 2 POST	BASE	57.17	75.15	79.50	212986	0.00	0.73	0.00	7.98
25YR-24HR	Pond 2 POST	BASE	58.17	75.14	79.50	212864	0.00	0.72	0.00	8.04
25YR-24HR	Pond 2 POST	BASE	59.17	75.13	79.50	212743	0.00	0.71	0.00	8.10
25YR-24HR	Pond 2 POST	BASE	60.17	75.12	79.50	212623	0.00	0.70	0.00	8.16
25YR-24HR	Pond 2 POST	BASE	61.17	75.11	79.50	212505	0.00	0.70	0.00	8.22
25YR-24HR	Pond 2 POST	BASE	62.17	75.10	79.50	212388	0.00	0.69	0.00	8.27
25YR-24HR	Pond 2 POST	BASE	63.17	75.08	79.50	212273	0.00	0.68	0.00	8.33
25YR-24HR	Pond 2 POST	BASE	64.17	75.07	79.50	212159	0.00	0.67	0.00	8.39
25YR-24HR	Pond 2 POST	BASE	65.17	75.06	79.50	212046	0.00	0.66	0.00	8.44
25YR-24HR	Pond 2 POST	BASE	66.17	75.05	79.50	211934	0.00	0.66	0.00	8.50
25YR-24HR	Pond 2 POST	BASE	67.17	75.04	79.50	211823	0.00	0.65	0.00	8.55
25YR-24HR	Pond 2 POST	BASE	68.17	75.03	79.50	211713	0.00	0.64	0.00	8.60
25YR-24HR	Pond 2 POST	BASE	69.17	75.02	79.50	211605	0.00	0.64	0.00	8.66
25YR-24HR	Pond 2 POST	BASE	70.17	75.01	79.50	211497	0.00	0.63	0.00	8.71
25YR-24HR	Pond 2 POST	BASE	71.17	75.00	79.50	211391	0.00	0.62	0.00	8.76
25YR-24HR	Pond 2 POST	BASE	72.17	74.98	79.50	211287	0.00	0.62	0.00	8.81
25YR-24HR	Pond 2 POST	BASE	73.17	74.97	79.50	211184	0.00	0.61	0.00	8.86
25YR-24HR	Pond 2 POST	BASE	74.17	74.96	79.50	211082	0.00	0.61	0.00	8.91
25YR-24HR	Pond 2 POST	BASE	75.17	74.95	79.50	210981	0.00	0.60	0.00	8.96
25YR-24HR	Pond 2 POST	BASE	76.17	74.94	79.50	210880	0.00	0.59	0.00	9.01
25YR-24HR	Pond 2 POST	BASE	77.17	74.93	79.50	210781	0.00	0.59	0.00	9.06
25YR-24HR	Pond 2 POST	BASE	78.17	74.92	79.50	210682	0.00	0.58	0.00	9.11
25YR-24HR	Pond 2 POST	BASE	79.17	74.91	79.50	210584	0.00	0.58	0.00	9.16
25YR-24HR	Pond 2 POST	BASE	80.17	74.90	79.50	210487	0.00	0.57	0.00	9.20
25YR-24HR	Pond 2 POST	BASE	81.17	74.89	79.50	210391	0.00	0.57	0.00	9.25
25YR-24HR	Pond 2 POST	BASE	82.17	74.88	79.50	210296	0.00	0.56	0.00	9.30
25YR-24HR	Pond 2 POST	BASE	83.17	74.87	79.50	210201	0.00	0.56	0.00	9.35
25YR-24HR	Pond 2 POST	BASE	84.17	74.86	79.50	210107	0.00	0.55	0.00	9.39
25YR-24HR	Pond 2 POST	BASE	85.17	74.86	79.50	210014	0.00	0.55	0.00	9.44
25YR-24HR	Pond 2 POST	BASE	86.17	74.85	79.50	209922	0.00	0.55	0.00	9.48
25YR-24HR	Pond 2 POST	BASE	87.17	74.84	79.50	209830	0.00	0.54	0.00	9.53
25YR-24HR	Pond 2 POST	BASE	88.17	74.83	79.50	209739	0.00	0.54	0.00	9.57
25YR-24HR	Pond 2 POST	BASE	89.17	74.82	79.50	209648	0.00	0.53	0.00	9.62
25YR-24HR	Pond 2 POST	BASE	90.17	74.81	79.50	209559	0.00	0.53	0.00	9.66
25YR-24HR	Pond 2 POST	BASE	91.17	74.80	79.50	209470	0.00	0.52	0.00	9.70
25YR-24HR	Pond 2 POST	BASE	92.17	74.79	79.50	209381	0.00	0.52	0.00	9.75
25YR-24HR	Pond 2 POST	BASE	93.17	74.78	79.50	209293	0.00	0.52	0.00	9.79
25YR-24HR	Pond 2 POST	BASE	94.17	74.77	79.50	209206	0.00	0.51	0.00	9.83
25YR-24HR	Pond 2 POST	BASE	95.17	74.76	79.50	209120	0.00	0.51	0.00	9.87
25YR-24HR	Pond 2 POST	BASE	96.17	74.76	79.50	209034	0.00	0.51	0.00	9.92
25YR-24HR	Pond 2 POST	BASE	97.17	74.75	79.50	208948	0.00	0.50	0.00	9.96
25YR-24HR	Pond 2 POST	BASE	98.17	74.74	79.50	208863	0.00	0.50	0.00	10.00
25YR-24HR	Pond 2 POST	BASE	99.17	74.73	79.50	208779	0.00	0.49	0.00	10.04
25YR-24HR	Pond 2 POST	BASE	100.17	74.72	79.50	208695	0.00	0.49	0.00	10.08
25YR-24HR	Pond 2 POST	BASE	101.17	74.71	79.50	208612	0.00	0.49	0.00	10.12
25YR-24HR	Pond 2 POST	BASE	102.17	74.70	79.50	208530	0.00	0.48	0.00	10.16
25YR-24HR	Pond 2 POST	BASE	103.17	74.70	79.50	208447	0.00	0.48	0.00	10.20
25YR-24HR	Pond 2 POST	BASE	104.17	74.69	79.50	208366	0.00	0.48	0.00	10.24
25YR-24HR	Pond 2 POST	BASE	105.17	74.68	79.50	208285	0.00	0.48	0.00	10.28
25YR-24HR	Pond 2 POST	BASE	106.17	74.67	79.50	208204	0.00	0.47	0.00	10.32
25YR-24HR	Pond 2 POST	BASE	107.17	74.66	79.50	208124	0.00	0.47	0.00	10.36
25YR-24HR	Pond 2 POST	BASE	108.17	74.66	79.50	208044	0.00	0.47	0.00	10.40
25YR-24HR	Pond 2 POST	BASE	109.17	74.65	79.50	207965	0.00	0.46	0.00	10.44
25YR-24HR	Pond 2 POST	BASE	110.17	74.64	79.50	207886	0.00	0.46	0.00	10.47
25YR-24HR	Pond 2 POST	BASE	111.17	74.63	79.50	207808	0.00	0.46	0.00	10.51
25YR-24HR	Pond 2 POST	BASE	112.17	74.62	79.50	207730	0.00	0.45	0.00	10.55
25YR-24HR	Pond 2 POST	BASE	113.17	74.62	79.50	207653	0.00	0.45	0.00	10.59
25YR-24HR	Pond 2 POST	BASE	114.17	74.61	79.50	207576	0.00	0.45	0.00	10.62
25YR-24HR	Pond 2 POST	BASE	115.17	74.60	79.50	207499	0.00	0.45	0.00	10.66
25YR-24HR	Pond 2 POST	BASE	116.17	74.59	79.50	207423	0.00	0.44	0.00	10.70
25YR-24HR	Pond 2 POST	BASE	117.17	74.58	79.50	207348	0.00	0.44	0.00	10.73
25YR-24HR	Pond 2 POST	BASE	118.17	74.58	79.50	207272	0.00	0.44	0.00	10.77
25YR-24HR	Pond 2 POST	BASE	119.17	74.57	79.50	207198	0.00	0.44	0.00	10.81
25YR-24HR	Pond 2 POST	BASE	120.17	74.56	79.50	207123	0.00	0.43	0.00	10.84
25YR-24HR	Pond 2 POST	BASE	121.17	74.55	79.50	207049	0.00	0.43	0.00	10.88
25YR-24HR	Pond 2 POST	BASE	122.17	74.55	79.50	206975	0.00	0.43	0.00	10.91
25YR-24HR	Pond 2 POST	BASE	123.17	74.54	79.50	206902	0.00	0.43	0.00	10.95
25YR-24HR	Pond 2 POST	BASE	124.17	74.53	79.50	206829	0.00	0.42	0.00	10.98
25YR-24HR	Pond 2 POST	BASE	125.17	74.52	79.50	206757	0.00	0.42	0.00	11.02
25YR-24HR	Pond 2 POST	BASE	126.17	74.52	79.50	206684	0.00	0.42	0.00	11.05
25YR-24HR	Pond 2 POST	BASE	127.17	74.51	79.50	206612	0.00	0.42	0.00	11.09
25YR-24HR	Pond 2 POST	BASE	128.17	74.50	79.50	206541	0.00	0.42	0.00	11.12
25YR-24HR	Pond 2 POST	BASE	129.17	74.50	79.50	206470	0.00	0.41	0.00	11.16
25YR-24HR	Pond 2 POST	BASE	130.17	74.49	79.50	206399	0.00	0.41	0.00	11.19
25YR-24HR	Pond 2 POST	BASE	131.17	74.48	79.50	206329	0.00	0.41	0.00	11.23
25YR-24HR	Pond 2 POST	BASE	132.17	74.47	79.50	206259	0.00	0.41	0.00	11.26

MCN - Node Min/Max - 1st 25yr-96hr Pond Stage

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
Pond 2 POST	BASE	25-96POST	97.68	77.58	79.50	0.0050	237468	60.08	264.07	0.00	0.00

MCN - Node Min/Max - 14day Drawdown of 1st 25yr-96hr Pond Stage

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
25YR-24HR	Pond 2 POST	BASE	0.00	77.58	79.50	237509	0.00	0.00	0.00	0.00
25YR-24HR	Pond 2 POST	BASE	0.50	77.54	79.50	237108	0.00	5.12	0.00	0.11
25YR-24HR	Pond 2 POST	BASE	1.00	77.50	79.50	236706	0.00	5.12	0.00	0.32
25YR-24HR	Pond 2 POST	BASE	1.50	77.46	79.50	236304	0.00	5.12	0.00	0.53
25YR-24HR	Pond 2 POST	BASE	2.00	77.42	79.50	235900	0.00	5.12	0.00	0.74
25YR-24HR	Pond 2 POST	BASE	2.50	77.39	79.50	235496	0.00	5.12	0.00	0.95
25YR-24HR	Pond 2 POST	BASE	3.00	77.35	79.50	235092	0.00	5.12	0.00	1.17
25YR-24HR	Pond 2 POST	BASE	3.50	77.31	79.50	234686	0.00	5.12	0.00	1.38
25YR-24HR	Pond 2 POST	BASE	4.00	77.27	79.50	234280	0.00	5.12	0.00	1.59
25YR-24HR	Pond 2 POST	BASE	4.50	77.23	79.50	233874	0.00	5.12	0.00	1.80
25YR-24HR	Pond 2 POST	BASE	5.00	77.19	79.50	233466	0.00	5.12	0.00	2.01
25YR-24HR	Pond 2 POST	BASE	5.50	77.15	79.50	233058	0.00	5.12	0.00	2.22
25YR-24HR	Pond 2 POST	BASE	6.00	77.11	79.50	232667	0.00	4.45	0.00	2.42
25YR-24HR	Pond 2 POST	BASE	6.50	77.08	79.50	232333	0.00	3.97	0.00	2.60
25YR-24HR	Pond 2 POST	BASE	7.00	77.05	79.50	232028	0.00	3.66	0.00	2.75
25YR-24HR	Pond 2 POST	BASE	7.50	77.02	79.50	231744	0.00	3.43	0.00	2.90
25YR-24HR	Pond 2 POST	BASE	8.00	77.00	79.50	231477	0.00	3.24	0.00	3.04
25YR-24HR	Pond 2 POST	BASE	8.50	76.97	79.50	231228	0.00	3.09	0.00	3.17
25YR-24HR	Pond 2 POST	BASE	9.00	76.95	79.50	230991	0.00	2.95	0.00	3.29
25YR-24HR	Pond 2 POST	BASE	9.50	76.92	79.50	230763	0.00	2.83	0.00	3.41
25YR-24HR	Pond 2 POST	BASE	10.00	76.90	79.50	230543	0.00	2.73	0.00	3.53
25YR-24HR	Pond 2 POST	BASE	10.50	76.88	79.50	230332	0.00	2.64	0.00	3.64
25YR-24HR	Pond 2 POST	BASE	10.67	76.88	79.50	230263	0.00	2.61	0.00	3.67
25YR-24HR	Pond 2 POST	BASE	10.84	76.87	79.50	230194	0.00	2.58	0.00	3.71
25YR-24HR	Pond 2 POST	BASE	11.00	76.86	79.50	230127	0.00	2.55	0.00	3.75
25YR-24HR	Pond 2 POST	BASE	11.17	76.86	79.50	230060	0.00	2.52	0.00	3.78
25YR-24HR	Pond 2 POST	BASE	11.34	76.85	79.50	229994	0.00	2.50	0.00	3.82
25YR-24HR	Pond 2 POST	BASE	11.50	76.84	79.50	229928	0.00	2.47	0.00	3.85
25YR-24HR	Pond 2 POST	BASE	11.67	76.84	79.50	229863	0.00	2.45	0.00	3.88
25YR-24HR	Pond 2 POST	BASE	11.84	76.83	79.50	229799	0.00	2.42	0.00	3.92
25YR-24HR	Pond 2 POST	BASE	12.00	76.82	79.50	229735	0.00	2.40	0.00	3.95
25YR-24HR	Pond 2 POST	BASE	12.17	76.82	79.50	229672	0.00	2.38	0.00	3.98
25YR-24HR	Pond 2 POST	BASE	12.34	76.81	79.50	229610	0.00	2.36	0.00	4.02
25YR-24HR	Pond 2 POST	BASE	12.50	76.80	79.50	229548	0.00	2.33	0.00	4.05
25YR-24HR	Pond 2 POST	BASE	12.67	76.80	79.50	229486	0.00	2.31	0.00	4.08
25YR-24HR	Pond 2 POST	BASE	12.84	76.79	79.50	229425	0.00	2.29	0.00	4.11
25YR-24HR	Pond 2 POST	BASE	13.00	76.79	79.50	229365	0.00	2.27	0.00	4.14
25YR-24HR	Pond 2 POST	BASE	13.17	76.78	79.50	229305	0.00	2.25	0.00	4.17
25YR-24HR	Pond 2 POST	BASE	13.34	76.77	79.50	229246	0.00	2.23	0.00	4.21
25YR-24HR	Pond 2 POST	BASE	13.50	76.77	79.50	229187	0.00	2.22	0.00	4.24
25YR-24HR	Pond 2 POST	BASE	13.67	76.76	79.50	229129	0.00	2.20	0.00	4.27
25YR-24HR	Pond 2 POST	BASE	13.84	76.76	79.50	229071	0.00	2.18	0.00	4.30
25YR-24HR	Pond 2 POST	BASE	14.00	76.75	79.50	229013	0.00	2.16	0.00	4.33
25YR-24HR	Pond 2 POST	BASE	14.17	76.75	79.50	228956	0.00	2.15	0.00	4.36
25YR-24HR	Pond 2 POST	BASE	14.67	76.73	79.50	228787	0.00	2.10	0.00	4.44
25YR-24HR	Pond 2 POST	BASE	15.17	76.71	79.50	228623	0.00	2.05	0.00	4.53
25YR-24HR	Pond 2 POST	BASE	15.67	76.70	79.50	228461	0.00	2.01	0.00	4.61
25YR-24HR	Pond 2 POST	BASE	16.17	76.68	79.50	228303	0.00	1.96	0.00	4.70
25YR-24HR	Pond 2 POST	BASE	16.67	76.67	79.50	228148	0.00	1.93	0.00	4.78
25YR-24HR	Pond 2 POST	BASE	17.17	76.65	79.50	227996	0.00	1.89	0.00	4.85
25YR-24HR	Pond 2 POST	BASE	17.67	76.64	79.50	227847	0.00	1.85	0.00	4.93
25YR-24HR	Pond 2 POST	BASE	18.17	76.62	79.50	227700	0.00	1.82	0.00	5.01
25YR-24HR	Pond 2 POST	BASE	18.67	76.61	79.50	227556	0.00	1.78	0.00	5.08
25YR-24HR	Pond 2 POST	BASE	19.17	76.59	79.50	227415	0.00	1.75	0.00	5.15
25YR-24HR	Pond 2 POST	BASE	19.67	76.58	79.50	227276	0.00	1.72	0.00	5.23
25YR-24HR	Pond 2 POST	BASE	20.17	76.57	79.50	227139	0.00	1.69	0.00	5.30
25YR-24HR	Pond 2 POST	BASE	20.67	76.55	79.50	227004	0.00	1.67	0.00	5.37
25YR-24HR	Pond 2 POST	BASE	21.17	76.54	79.50	226872	0.00	1.64	0.00	5.43
25YR-24HR	Pond 2 POST	BASE	21.67	76.53	79.50	226742	0.00	1.61	0.00	5.50
25YR-24HR	Pond 2 POST	BASE	22.17	76.51	79.50	226613	0.00	1.59	0.00	5.57
25YR-24HR	Pond 2 POST	BASE	22.67	76.50	79.50	226487	0.00	1.56	0.00	5.63
25YR-24HR	Pond 2 POST	BASE	23.17	76.49	79.50	226362	0.00	1.54	0.00	5.70
25YR-24HR	Pond 2 POST	BASE	23.67	76.48	79.50	226239	0.00	1.52	0.00	5.76
25YR-24HR	Pond 2 POST	BASE	24.17	76.47	79.50	226118	0.00	1.50	0.00	5.82
25YR-24HR	Pond 2 POST	BASE	25.17	76.44	79.50	225881	0.00	1.45	0.00	5.94
25YR-24HR	Pond 2 POST	BASE	26.17	76.42	79.50	225649	0.00	1.41	0.00	6.06
25YR-24HR	Pond 2 POST	BASE	27.17	76.40	79.50	225424	0.00	1.38	0.00	6.18
25YR-24HR	Pond 2 POST	BASE	28.17	76.37	79.50	225204	0.00	1.34	0.00	6.29
25YR-24HR	Pond 2 POST	BASE	29.17	76.35	79.50	224990	0.00	1.31	0.00	6.40
25YR-24HR	Pond 2 POST	BASE	30.17	76.33	79.50	224781	0.00	1.28	0.00	6.51
25YR-24HR	Pond 2 POST	BASE	31.17	76.31	79.50	224576	0.00	1.25	0.00	6.61
25YR-24HR	Pond 2 POST	BASE	32.17	76.29	79.50	224376	0.00	1.22	0.00	6.71
25YR-24HR	Pond 2 POST	BASE	33.17	76.27	79.50	224180	0.00	1.19	0.00	6.81
25YR-24HR	Pond 2 POST	BASE	34.17	76.25	79.50	223988	0.00	1.17	0.00	6.91
25YR-24HR	Pond 2 POST	BASE	35.17	76.24	79.50	223800	0.00	1.15	0.00	7.01
25YR-24HR	Pond 2 POST	BASE	36.17	76.22	79.50	223615	0.00	1.12	0.00	7.10
25YR-24HR	Pond 2 POST	BASE	37.17	76.20	79.50	223434	0.00	1.10	0.00	7.19
25YR-24HR	Pond 2 POST	BASE	38.17	76.18	79.50	223257	0.00	1.08	0.00	7.28
25YR-24HR	Pond 2 POST	BASE	39.17	76.16	79.50	223083	0.00	1.06	0.00	7.37
25YR-24HR	Pond 2 POST	BASE	40.17	76.15	79.50	222911	0.00	1.04	0.00	7.46
25YR-24HR	Pond 2 POST	BASE	41.17	76.13	79.50	222743	0.00	1.02	0.00	7.54
25YR-24HR	Pond 2 POST	BASE	42.17	76.12	79.50	222578	0.00	1.00	0.00	7.63
25YR-24HR	Pond 2 POST	BASE	43.17	76.10	79.50	222415	0.00	0.99	0.00	7.71
25YR-24HR	Pond 2 POST	BASE	44.17	76.08	79.50	222255	0.00	0.97	0.00	7.79
25YR-24HR	Pond 2 POST	BASE	45.17	76.07	79.50	222097	0.00	0.95	0.00	7.87
25YR-24HR	Pond 2 POST	BASE	46.17	76.05	79.50	221942	0.00	0.94	0.00	7.95

MCN - Node Min/Max - 14day Drawdown of 1st 25yr-96hr Pond Stage

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
25YR-24HR	Pond 2 POST	BASE	47.17	76.04	79.50	221789	0.00	0.92	0.00	8.02
25YR-24HR	Pond 2 POST	BASE	48.17	76.02	79.50	221639	0.00	0.91	0.00	8.10
25YR-24HR	Pond 2 POST	BASE	49.17	76.01	79.50	221490	0.00	0.90	0.00	8.18
25YR-24HR	Pond 2 POST	BASE	50.17	75.99	79.50	221345	0.00	0.88	0.00	8.25
25YR-24HR	Pond 2 POST	BASE	51.17	75.98	79.50	221202	0.00	0.87	0.00	8.32
25YR-24HR	Pond 2 POST	BASE	52.17	75.96	79.50	221062	0.00	0.86	0.00	8.39
25YR-24HR	Pond 2 POST	BASE	53.17	75.95	79.50	220923	0.00	0.85	0.00	8.46
25YR-24HR	Pond 2 POST	BASE	54.17	75.94	79.50	220786	0.00	0.84	0.00	8.53
25YR-24HR	Pond 2 POST	BASE	55.17	75.92	79.50	220651	0.00	0.83	0.00	8.60
25YR-24HR	Pond 2 POST	BASE	56.17	75.91	79.50	220517	0.00	0.81	0.00	8.67
25YR-24HR	Pond 2 POST	BASE	57.17	75.90	79.50	220385	0.00	0.80	0.00	8.74
25YR-24HR	Pond 2 POST	BASE	58.17	75.88	79.50	220255	0.00	0.79	0.00	8.80
25YR-24HR	Pond 2 POST	BASE	59.17	75.87	79.50	220126	0.00	0.78	0.00	8.87
25YR-24HR	Pond 2 POST	BASE	60.17	75.86	79.50	219999	0.00	0.78	0.00	8.93
25YR-24HR	Pond 2 POST	BASE	61.17	75.85	79.50	219873	0.00	0.77	0.00	9.00
25YR-24HR	Pond 2 POST	BASE	62.17	75.83	79.50	219748	0.00	0.76	0.00	9.06
25YR-24HR	Pond 2 POST	BASE	63.17	75.82	79.50	219625	0.00	0.75	0.00	9.12
25YR-24HR	Pond 2 POST	BASE	64.17	75.81	79.50	219504	0.00	0.74	0.00	9.18
25YR-24HR	Pond 2 POST	BASE	65.17	75.80	79.50	219383	0.00	0.73	0.00	9.24
25YR-24HR	Pond 2 POST	BASE	66.17	75.78	79.50	219264	0.00	0.72	0.00	9.30
25YR-24HR	Pond 2 POST	BASE	67.17	75.77	79.50	219146	0.00	0.72	0.00	9.36
25YR-24HR	Pond 2 POST	BASE	68.17	75.76	79.50	219029	0.00	0.71	0.00	9.42
25YR-24HR	Pond 2 POST	BASE	69.17	75.75	79.50	218913	0.00	0.70	0.00	9.48
25YR-24HR	Pond 2 POST	BASE	70.17	75.74	79.50	218799	0.00	0.69	0.00	9.54
25YR-24HR	Pond 2 POST	BASE	71.17	75.73	79.50	218685	0.00	0.69	0.00	9.60
25YR-24HR	Pond 2 POST	BASE	72.17	75.72	79.50	218573	0.00	0.68	0.00	9.65
25YR-24HR	Pond 2 POST	BASE	73.17	75.70	79.50	218461	0.00	0.67	0.00	9.71
25YR-24HR	Pond 2 POST	BASE	74.17	75.69	79.50	218351	0.00	0.67	0.00	9.76
25YR-24HR	Pond 2 POST	BASE	75.17	75.68	79.50	218242	0.00	0.66	0.00	9.82
25YR-24HR	Pond 2 POST	BASE	76.17	75.67	79.50	218133	0.00	0.66	0.00	9.87
25YR-24HR	Pond 2 POST	BASE	77.17	75.66	79.50	218026	0.00	0.65	0.00	9.93
25YR-24HR	Pond 2 POST	BASE	78.17	75.65	79.50	217919	0.00	0.64	0.00	9.98
25YR-24HR	Pond 2 POST	BASE	79.17	75.64	79.50	217814	0.00	0.64	0.00	10.03
25YR-24HR	Pond 2 POST	BASE	80.17	75.63	79.50	217709	0.00	0.63	0.00	10.09
25YR-24HR	Pond 2 POST	BASE	81.17	75.62	79.50	217605	0.00	0.63	0.00	10.14
25YR-24HR	Pond 2 POST	BASE	82.17	75.61	79.50	217502	0.00	0.62	0.00	10.19
25YR-24HR	Pond 2 POST	BASE	83.17	75.60	79.50	217400	0.00	0.62	0.00	10.24
25YR-24HR	Pond 2 POST	BASE	84.17	75.59	79.50	217298	0.00	0.61	0.00	10.29
25YR-24HR	Pond 2 POST	BASE	85.17	75.58	79.50	217197	0.00	0.61	0.00	10.34
25YR-24HR	Pond 2 POST	BASE	86.17	75.57	79.50	217098	0.00	0.60	0.00	10.39
25YR-24HR	Pond 2 POST	BASE	87.17	75.56	79.50	216999	0.00	0.60	0.00	10.44
25YR-24HR	Pond 2 POST	BASE	88.17	75.55	79.50	216900	0.00	0.59	0.00	10.49
25YR-24HR	Pond 2 POST	BASE	89.17	75.54	79.50	216803	0.00	0.59	0.00	10.54
25YR-24HR	Pond 2 POST	BASE	90.17	75.53	79.50	216706	0.00	0.58	0.00	10.59
25YR-24HR	Pond 2 POST	BASE	91.17	75.52	79.50	216609	0.00	0.58	0.00	10.64
25YR-24HR	Pond 2 POST	BASE	92.17	75.51	79.50	216514	0.00	0.57	0.00	10.68
25YR-24HR	Pond 2 POST	BASE	93.17	75.50	79.50	216419	0.00	0.57	0.00	10.73
25YR-24HR	Pond 2 POST	BASE	94.17	75.49	79.50	216325	0.00	0.57	0.00	10.78
25YR-24HR	Pond 2 POST	BASE	95.17	75.48	79.50	216231	0.00	0.56	0.00	10.82
25YR-24HR	Pond 2 POST	BASE	96.17	75.47	79.50	216138	0.00	0.56	0.00	10.87
25YR-24HR	Pond 2 POST	BASE	97.17	75.46	79.50	216046	0.00	0.55	0.00	10.92
25YR-24HR	Pond 2 POST	BASE	98.17	75.45	79.50	215954	0.00	0.55	0.00	10.96
25YR-24HR	Pond 2 POST	BASE	99.17	75.44	79.50	215863	0.00	0.55	0.00	11.01
25YR-24HR	Pond 2 POST	BASE	100.17	75.43	79.50	215773	0.00	0.54	0.00	11.05
25YR-24HR	Pond 2 POST	BASE	101.17	75.43	79.50	215683	0.00	0.54	0.00	11.10
25YR-24HR	Pond 2 POST	BASE	102.17	75.42	79.50	215593	0.00	0.53	0.00	11.14
25YR-24HR	Pond 2 POST	BASE	103.17	75.41	79.50	215504	0.00	0.53	0.00	11.18
25YR-24HR	Pond 2 POST	BASE	104.17	75.40	79.50	215416	0.00	0.53	0.00	11.23
25YR-24HR	Pond 2 POST	BASE	105.17	75.39	79.50	215328	0.00	0.52	0.00	11.27
25YR-24HR	Pond 2 POST	BASE	106.17	75.38	79.50	215241	0.00	0.52	0.00	11.32
25YR-24HR	Pond 2 POST	BASE	107.17	75.37	79.50	215155	0.00	0.52	0.00	11.36
25YR-24HR	Pond 2 POST	BASE	108.17	75.36	79.50	215068	0.00	0.51	0.00	11.40
25YR-24HR	Pond 2 POST	BASE	109.17	75.36	79.50	214983	0.00	0.51	0.00	11.44
25YR-24HR	Pond 2 POST	BASE	110.17	75.35	79.50	214898	0.00	0.51	0.00	11.49
25YR-24HR	Pond 2 POST	BASE	111.17	75.34	79.50	214813	0.00	0.50	0.00	11.53
25YR-24HR	Pond 2 POST	BASE	112.17	75.33	79.50	214729	0.00	0.50	0.00	11.57
25YR-24HR	Pond 2 POST	BASE	113.17	75.32	79.50	214645	0.00	0.50	0.00	11.61
25YR-24HR	Pond 2 POST	BASE	114.17	75.31	79.50	214562	0.00	0.50	0.00	11.65
25YR-24HR	Pond 2 POST	BASE	115.17	75.30	79.50	214479	0.00	0.49	0.00	11.69
25YR-24HR	Pond 2 POST	BASE	116.17	75.30	79.50	214397	0.00	0.49	0.00	11.73
25YR-24HR	Pond 2 POST	BASE	117.17	75.29	79.50	214315	0.00	0.49	0.00	11.77
25YR-24HR	Pond 2 POST	BASE	118.17	75.28	79.50	214233	0.00	0.48	0.00	11.81
25YR-24HR	Pond 2 POST	BASE	119.17	75.27	79.50	214152	0.00	0.48	0.00	11.85
25YR-24HR	Pond 2 POST	BASE	120.17	75.26	79.50	214072	0.00	0.48	0.00	11.89
25YR-24HR	Pond 2 POST	BASE	121.17	75.26	79.50	213992	0.00	0.48	0.00	11.93
25YR-24HR	Pond 2 POST	BASE	122.17	75.25	79.50	213912	0.00	0.47	0.00	11.97
25YR-24HR	Pond 2 POST	BASE	123.17	75.24	79.50	213833	0.00	0.47	0.00	12.01
25YR-24HR	Pond 2 POST	BASE	124.17	75.23	79.50	213754	0.00	0.47	0.00	12.05
25YR-24HR	Pond 2 POST	BASE	125.17	75.22	79.50	213675	0.00	0.47	0.00	12.09
25YR-24HR	Pond 2 POST	BASE	126.17	75.22	79.50	213597	0.00	0.46	0.00	12.13
25YR-24HR	Pond 2 POST	BASE	127.17	75.21	79.50	213519	0.00	0.46	0.00	12.16
25YR-24HR	Pond 2 POST	BASE	128.17	75.20	79.50	213442	0.00	0.46	0.00	12.20
25YR-24HR	Pond 2 POST	BASE	129.17	75.19	79.50	213365	0.00	0.46	0.00	12.24
25YR-24HR	Pond 2 POST	BASE	130.17	75.19	79.50	213288	0.00	0.45	0.00	12.28
25YR-24HR	Pond 2 POST	BASE	131.17	75.18	79.50	213212	0.00	0.45	0.00	12.32
25YR-24HR	Pond 2 POST	BASE	132.17	75.17	79.50	213136	0.00	0.45	0.00	12.35

MCN - Node Min/Max - 14day Drawdown of 1st 25yr-96hr Pond Stage

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
25YR-24HR	Pond 2 POST	BASE	133.17	75.16	79.50	213061	0.00	0.45	0.00	12.39
25YR-24HR	Pond 2 POST	BASE	134.17	75.15	79.50	212986	0.00	0.44	0.00	12.43
25YR-24HR	Pond 2 POST	BASE	135.17	75.15	79.50	212911	0.00	0.44	0.00	12.46
25YR-24HR	Pond 2 POST	BASE	136.17	75.14	79.50	212836	0.00	0.44	0.00	12.50
25YR-24HR	Pond 2 POST	BASE	137.17	75.13	79.50	212762	0.00	0.44	0.00	12.54
25YR-24HR	Pond 2 POST	BASE	138.17	75.13	79.50	212688	0.00	0.44	0.00	12.57
25YR-24HR	Pond 2 POST	BASE	139.17	75.12	79.50	212615	0.00	0.43	0.00	12.61
25YR-24HR	Pond 2 POST	BASE	140.17	75.11	79.50	212542	0.00	0.43	0.00	12.64
25YR-24HR	Pond 2 POST	BASE	141.17	75.10	79.50	212469	0.00	0.43	0.00	12.68
25YR-24HR	Pond 2 POST	BASE	142.17	75.10	79.50	212396	0.00	0.43	0.00	12.72
25YR-24HR	Pond 2 POST	BASE	143.17	75.09	79.50	212324	0.00	0.43	0.00	12.75
25YR-24HR	Pond 2 POST	BASE	144.17	75.08	79.50	212252	0.00	0.42	0.00	12.79
25YR-24HR	Pond 2 POST	BASE	145.17	75.07	79.50	212181	0.00	0.42	0.00	12.82
25YR-24HR	Pond 2 POST	BASE	146.17	75.07	79.50	212109	0.00	0.42	0.00	12.86
25YR-24HR	Pond 2 POST	BASE	147.17	75.06	79.50	212038	0.00	0.42	0.00	12.89
25YR-24HR	Pond 2 POST	BASE	148.17	75.05	79.50	211968	0.00	0.42	0.00	12.92
25YR-24HR	Pond 2 POST	BASE	149.17	75.05	79.50	211897	0.00	0.41	0.00	12.96
25YR-24HR	Pond 2 POST	BASE	150.17	75.04	79.50	211827	0.00	0.41	0.00	12.99
25YR-24HR	Pond 2 POST	BASE	151.17	75.03	79.50	211758	0.00	0.41	0.00	13.03
25YR-24HR	Pond 2 POST	BASE	152.17	75.02	79.50	211688	0.00	0.41	0.00	13.06
25YR-24HR	Pond 2 POST	BASE	153.17	75.02	79.50	211619	0.00	0.41	0.00	13.09
25YR-24HR	Pond 2 POST	BASE	154.17	75.01	79.50	211550	0.00	0.41	0.00	13.13
25YR-24HR	Pond 2 POST	BASE	155.17	75.00	79.50	211481	0.00	0.40	0.00	13.16
25YR-24HR	Pond 2 POST	BASE	156.17	75.00	79.50	211413	0.00	0.40	0.00	13.19
25YR-24HR	Pond 2 POST	BASE	157.17	74.99	79.50	211346	0.00	0.40	0.00	13.23
25YR-24HR	Pond 2 POST	BASE	158.17	74.98	79.50	211279	0.00	0.40	0.00	13.26
25YR-24HR	Pond 2 POST	BASE	159.17	74.98	79.50	211212	0.00	0.40	0.00	13.29
25YR-24HR	Pond 2 POST	BASE	160.17	74.97	79.50	211146	0.00	0.40	0.00	13.33
25YR-24HR	Pond 2 POST	BASE	161.17	74.96	79.50	211080	0.00	0.39	0.00	13.36
25YR-24HR	Pond 2 POST	BASE	162.17	74.96	79.50	211014	0.00	0.39	0.00	13.39
25YR-24HR	Pond 2 POST	BASE	163.17	74.95	79.50	210948	0.00	0.39	0.00	13.42
25YR-24HR	Pond 2 POST	BASE	164.17	74.94	79.50	210883	0.00	0.39	0.00	13.46
25YR-24HR	Pond 2 POST	BASE	165.17	74.94	79.50	210817	0.00	0.39	0.00	13.49
25YR-24HR	Pond 2 POST	BASE	166.17	74.93	79.50	210752	0.00	0.39	0.00	13.52
25YR-24HR	Pond 2 POST	BASE	167.17	74.92	79.50	210688	0.00	0.38	0.00	13.55
25YR-24HR	Pond 2 POST	BASE	168.17	74.92	79.50	210623	0.00	0.38	0.00	13.58
25YR-24HR	Pond 2 POST	BASE	169.17	74.91	79.50	210559	0.00	0.38	0.00	13.62
25YR-24HR	Pond 2 POST	BASE	170.17	74.90	79.50	210495	0.00	0.38	0.00	13.65
25YR-24HR	Pond 2 POST	BASE	171.17	74.90	79.50	210431	0.00	0.38	0.00	13.68
25YR-24HR	Pond 2 POST	BASE	172.17	74.89	79.50	210368	0.00	0.38	0.00	13.71
25YR-24HR	Pond 2 POST	BASE	173.17	74.88	79.50	210304	0.00	0.38	0.00	13.74
25YR-24HR	Pond 2 POST	BASE	174.17	74.88	79.50	210241	0.00	0.37	0.00	13.77
25YR-24HR	Pond 2 POST	BASE	175.17	74.87	79.50	210178	0.00	0.37	0.00	13.80
25YR-24HR	Pond 2 POST	BASE	176.17	74.87	79.50	210116	0.00	0.37	0.00	13.83
25YR-24HR	Pond 2 POST	BASE	177.17	74.86	79.50	210053	0.00	0.37	0.00	13.86
25YR-24HR	Pond 2 POST	BASE	178.17	74.85	79.50	209991	0.00	0.37	0.00	13.89
25YR-24HR	Pond 2 POST	BASE	179.17	74.85	79.50	209929	0.00	0.37	0.00	13.92
25YR-24HR	Pond 2 POST	BASE	180.17	74.84	79.50	209867	0.00	0.37	0.00	13.95
25YR-24HR	Pond 2 POST	BASE	181.17	74.83	79.50	209805	0.00	0.36	0.00	13.98
25YR-24HR	Pond 2 POST	BASE	182.17	74.83	79.50	209744	0.00	0.36	0.00	14.01
25YR-24HR	Pond 2 POST	BASE	183.17	74.82	79.50	209683	0.00	0.36	0.00	14.04
25YR-24HR	Pond 2 POST	BASE	184.17	74.82	79.50	209622	0.00	0.36	0.00	14.07
25YR-24HR	Pond 2 POST	BASE	185.17	74.81	79.50	209561	0.00	0.36	0.00	14.10
25YR-24HR	Pond 2 POST	BASE	186.17	74.80	79.50	209501	0.00	0.36	0.00	14.13
25YR-24HR	Pond 2 POST	BASE	187.17	74.80	79.50	209440	0.00	0.36	0.00	14.16
25YR-24HR	Pond 2 POST	BASE	188.17	74.79	79.50	209380	0.00	0.35	0.00	14.19
25YR-24HR	Pond 2 POST	BASE	189.17	74.78	79.50	209320	0.00	0.35	0.00	14.22
25YR-24HR	Pond 2 POST	BASE	190.17	74.78	79.50	209260	0.00	0.35	0.00	14.25
25YR-24HR	Pond 2 POST	BASE	191.17	74.77	79.50	209201	0.00	0.35	0.00	14.28
25YR-24HR	Pond 2 POST	BASE	192.17	74.77	79.50	209141	0.00	0.35	0.00	14.31
25YR-24HR	Pond 2 POST	BASE	193.17	74.76	79.50	209082	0.00	0.35	0.00	14.34
25YR-24HR	Pond 2 POST	BASE	194.17	74.75	79.50	209023	0.00	0.35	0.00	14.37
25YR-24HR	Pond 2 POST	BASE	195.17	74.75	79.50	208964	0.00	0.35	0.00	14.40
25YR-24HR	Pond 2 POST	BASE	196.17	74.74	79.50	208906	0.00	0.35	0.00	14.42
25YR-24HR	Pond 2 POST	BASE	197.17	74.74	79.50	208847	0.00	0.34	0.00	14.45
25YR-24HR	Pond 2 POST	BASE	198.17	74.73	79.50	208789	0.00	0.34	0.00	14.48
25YR-24HR	Pond 2 POST	BASE	199.17	74.72	79.50	208731	0.00	0.34	0.00	14.51
25YR-24HR	Pond 2 POST	BASE	200.17	74.72	79.50	208673	0.00	0.34	0.00	14.54
25YR-24HR	Pond 2 POST	BASE	201.17	74.71	79.50	208615	0.00	0.34	0.00	14.57
25YR-24HR	Pond 2 POST	BASE	202.17	74.71	79.50	208557	0.00	0.34	0.00	14.59
25YR-24HR	Pond 2 POST	BASE	203.17	74.70	79.50	208500	0.00	0.34	0.00	14.62
25YR-24HR	Pond 2 POST	BASE	204.17	74.70	79.50	208443	0.00	0.34	0.00	14.65
25YR-24HR	Pond 2 POST	BASE	205.17	74.69	79.50	208386	0.00	0.34	0.00	14.68
25YR-24HR	Pond 2 POST	BASE	206.17	74.68	79.50	208329	0.00	0.33	0.00	14.70
25YR-24HR	Pond 2 POST	BASE	207.17	74.68	79.50	208272	0.00	0.33	0.00	14.73
25YR-24HR	Pond 2 POST	BASE	208.17	74.67	79.50	208216	0.00	0.33	0.00	14.76
25YR-24HR	Pond 2 POST	BASE	209.17	74.67	79.50	208159	0.00	0.33	0.00	14.79
25YR-24HR	Pond 2 POST	BASE	210.17	74.66	79.50	208103	0.00	0.33	0.00	14.81
25YR-24HR	Pond 2 POST	BASE	211.17	74.66	79.50	208047	0.00	0.33	0.00	14.84
25YR-24HR	Pond 2 POST	BASE	212.17	74.65	79.50	207991	0.00	0.33	0.00	14.87
25YR-24HR	Pond 2 POST	BASE	213.17	74.64	79.50	207935	0.00	0.33	0.00	14.90
25YR-24HR	Pond 2 POST	BASE	214.17	74.64	79.50	207880	0.00	0.33	0.00	14.92
25YR-24HR	Pond 2 POST	BASE	215.17	74.63	79.50	207824	0.00	0.32	0.00	14.95
25YR-24HR	Pond 2 POST	BASE	216.17	74.63	79.50	207769	0.00	0.32	0.00	14.98
25YR-24HR	Pond 2 POST	BASE	217.17	74.62	79.50	207714	0.00	0.32	0.00	15.00
25YR-24HR	Pond 2 POST	BASE	218.17	74.62	79.50	207659	0.00	0.32	0.00	15.03

MCN - Node Min/Max - 14day Drawdown of 1st 25yr-96hr Pond Stage

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
25YR-24HR	Pond 2 POST	BASE	219.17	74.61	79.50	207604	0.00	0.32	0.00	15.06
25YR-24HR	Pond 2 POST	BASE	220.17	74.60	79.50	207550	0.00	0.32	0.00	15.08
25YR-24HR	Pond 2 POST	BASE	221.17	74.60	79.50	207495	0.00	0.32	0.00	15.11
25YR-24HR	Pond 2 POST	BASE	222.17	74.59	79.50	207441	0.00	0.32	0.00	15.13
25YR-24HR	Pond 2 POST	BASE	223.17	74.59	79.50	207387	0.00	0.32	0.00	15.16
25YR-24HR	Pond 2 POST	BASE	224.17	74.58	79.50	207332	0.00	0.32	0.00	15.19
25YR-24HR	Pond 2 POST	BASE	225.17	74.58	79.50	207279	0.00	0.31	0.00	15.21
25YR-24HR	Pond 2 POST	BASE	226.17	74.57	79.50	207225	0.00	0.31	0.00	15.24
25YR-24HR	Pond 2 POST	BASE	227.17	74.57	79.50	207171	0.00	0.31	0.00	15.27
25YR-24HR	Pond 2 POST	BASE	228.17	74.56	79.50	207118	0.00	0.31	0.00	15.29
25YR-24HR	Pond 2 POST	BASE	229.17	74.56	79.50	207064	0.00	0.31	0.00	15.32
25YR-24HR	Pond 2 POST	BASE	230.17	74.55	79.50	207011	0.00	0.31	0.00	15.34
25YR-24HR	Pond 2 POST	BASE	231.17	74.54	79.50	206958	0.00	0.31	0.00	15.37
25YR-24HR	Pond 2 POST	BASE	232.17	74.54	79.50	206905	0.00	0.31	0.00	15.39
25YR-24HR	Pond 2 POST	BASE	233.17	74.53	79.50	206853	0.00	0.31	0.00	15.42
25YR-24HR	Pond 2 POST	BASE	234.17	74.53	79.50	206800	0.00	0.31	0.00	15.44
25YR-24HR	Pond 2 POST	BASE	235.17	74.52	79.50	206748	0.00	0.31	0.00	15.47
25YR-24HR	Pond 2 POST	BASE	236.17	74.52	79.50	206695	0.00	0.30	0.00	15.49
25YR-24HR	Pond 2 POST	BASE	237.17	74.51	79.50	206643	0.00	0.30	0.00	15.52
25YR-24HR	Pond 2 POST	BASE	238.17	74.51	79.50	206591	0.00	0.30	0.00	15.55
25YR-24HR	Pond 2 POST	BASE	239.17	74.50	79.50	206539	0.00	0.30	0.00	15.57
25YR-24HR	Pond 2 POST	BASE	240.17	74.50	79.50	206487	0.00	0.30	0.00	15.60
25YR-24HR	Pond 2 POST	BASE	241.17	74.49	79.50	206435	0.00	0.30	0.00	15.62
25YR-24HR	Pond 2 POST	BASE	242.17	74.49	79.50	206384	0.00	0.30	0.00	15.64
25YR-24HR	Pond 2 POST	BASE	243.17	74.48	79.50	206333	0.00	0.30	0.00	15.67
25YR-24HR	Pond 2 POST	BASE	244.17	74.48	79.50	206281	0.00	0.30	0.00	15.69
25YR-24HR	Pond 2 POST	BASE	245.17	74.47	79.50	206230	0.00	0.30	0.00	15.72
25YR-24HR	Pond 2 POST	BASE	246.17	74.47	79.50	206179	0.00	0.30	0.00	15.74
25YR-24HR	Pond 2 POST	BASE	247.17	74.46	79.50	206128	0.00	0.30	0.00	15.77
25YR-24HR	Pond 2 POST	BASE	248.17	74.46	79.50	206077	0.00	0.29	0.00	15.79
25YR-24HR	Pond 2 POST	BASE	249.17	74.45	79.50	206027	0.00	0.29	0.00	15.82
25YR-24HR	Pond 2 POST	BASE	250.17	74.44	79.50	205976	0.00	0.29	0.00	15.84
25YR-24HR	Pond 2 POST	BASE	251.17	74.44	79.50	205926	0.00	0.29	0.00	15.86
25YR-24HR	Pond 2 POST	BASE	252.17	74.43	79.50	205876	0.00	0.29	0.00	15.89
25YR-24HR	Pond 2 POST	BASE	253.17	74.43	79.50	205825	0.00	0.29	0.00	15.91
25YR-24HR	Pond 2 POST	BASE	254.17	74.42	79.50	205775	0.00	0.29	0.00	15.94
25YR-24HR	Pond 2 POST	BASE	255.17	74.42	79.50	205725	0.00	0.29	0.00	15.96
25YR-24HR	Pond 2 POST	BASE	256.17	74.41	79.50	205676	0.00	0.29	0.00	15.98
25YR-24HR	Pond 2 POST	BASE	257.17	74.41	79.50	205626	0.00	0.29	0.00	16.01
25YR-24HR	Pond 2 POST	BASE	258.17	74.40	79.50	205576	0.00	0.29	0.00	16.03
25YR-24HR	Pond 2 POST	BASE	259.17	74.40	79.50	205527	0.00	0.29	0.00	16.06
25YR-24HR	Pond 2 POST	BASE	260.17	74.39	79.50	205478	0.00	0.29	0.00	16.08
25YR-24HR	Pond 2 POST	BASE	261.17	74.39	79.50	205429	0.00	0.28	0.00	16.10
25YR-24HR	Pond 2 POST	BASE	262.17	74.38	79.50	205379	0.00	0.28	0.00	16.13
25YR-24HR	Pond 2 POST	BASE	263.17	74.38	79.50	205330	0.00	0.28	0.00	16.15
25YR-24HR	Pond 2 POST	BASE	264.17	74.37	79.50	205282	0.00	0.28	0.00	16.17
25YR-24HR	Pond 2 POST	BASE	265.17	74.37	79.50	205233	0.00	0.28	0.00	16.20
25YR-24HR	Pond 2 POST	BASE	266.17	74.36	79.50	205184	0.00	0.28	0.00	16.22
25YR-24HR	Pond 2 POST	BASE	267.17	74.36	79.50	205136	0.00	0.28	0.00	16.24
25YR-24HR	Pond 2 POST	BASE	268.17	74.35	79.50	205087	0.00	0.28	0.00	16.27
25YR-24HR	Pond 2 POST	BASE	269.17	74.35	79.50	205039	0.00	0.28	0.00	16.29
25YR-24HR	Pond 2 POST	BASE	270.17	74.34	79.50	204991	0.00	0.28	0.00	16.31
25YR-24HR	Pond 2 POST	BASE	271.17	74.34	79.50	204943	0.00	0.28	0.00	16.34
25YR-24HR	Pond 2 POST	BASE	272.17	74.34	79.50	204895	0.00	0.28	0.00	16.36
25YR-24HR	Pond 2 POST	BASE	273.17	74.33	79.50	204847	0.00	0.28	0.00	16.38
25YR-24HR	Pond 2 POST	BASE	274.17	74.33	79.50	204799	0.00	0.28	0.00	16.40
25YR-24HR	Pond 2 POST	BASE	275.17	74.32	79.50	204751	0.00	0.27	0.00	16.43
25YR-24HR	Pond 2 POST	BASE	276.17	74.32	79.50	204704	0.00	0.27	0.00	16.45
25YR-24HR	Pond 2 POST	BASE	277.17	74.31	79.50	204656	0.00	0.27	0.00	16.47
25YR-24HR	Pond 2 POST	BASE	278.17	74.31	79.50	204609	0.00	0.27	0.00	16.50
25YR-24HR	Pond 2 POST	BASE	279.17	74.30	79.50	204562	0.00	0.27	0.00	16.52
25YR-24HR	Pond 2 POST	BASE	280.17	74.30	79.50	204515	0.00	0.27	0.00	16.54
25YR-24HR	Pond 2 POST	BASE	281.17	74.29	79.50	204468	0.00	0.27	0.00	16.56
25YR-24HR	Pond 2 POST	BASE	282.17	74.29	79.50	204421	0.00	0.27	0.00	16.58
25YR-24HR	Pond 2 POST	BASE	283.17	74.28	79.50	204374	0.00	0.27	0.00	16.61
25YR-24HR	Pond 2 POST	BASE	284.17	74.28	79.50	204327	0.00	0.27	0.00	16.63
25YR-24HR	Pond 2 POST	BASE	285.17	74.27	79.50	204281	0.00	0.27	0.00	16.65
25YR-24HR	Pond 2 POST	BASE	286.17	74.27	79.50	204234	0.00	0.27	0.00	16.67
25YR-24HR	Pond 2 POST	BASE	287.17	74.26	79.50	204188	0.00	0.27	0.00	16.70
25YR-24HR	Pond 2 POST	BASE	288.17	74.26	79.50	204141	0.00	0.27	0.00	16.72
25YR-24HR	Pond 2 POST	BASE	289.17	74.25	79.50	204095	0.00	0.27	0.00	16.74
25YR-24HR	Pond 2 POST	BASE	290.17	74.25	79.50	204049	0.00	0.27	0.00	16.76
25YR-24HR	Pond 2 POST	BASE	291.17	74.24	79.50	204003	0.00	0.26	0.00	16.78
25YR-24HR	Pond 2 POST	BASE	292.17	74.24	79.50	203957	0.00	0.26	0.00	16.81
25YR-24HR	Pond 2 POST	BASE	293.17	74.24	79.50	203911	0.00	0.26	0.00	16.83
25YR-24HR	Pond 2 POST	BASE	294.17	74.23	79.50	203866	0.00	0.26	0.00	16.85
25YR-24HR	Pond 2 POST	BASE	295.17	74.23	79.50	203820	0.00	0.26	0.00	16.87
25YR-24HR	Pond 2 POST	BASE	296.17	74.22	79.50	203774	0.00	0.26	0.00	16.89
25YR-24HR	Pond 2 POST	BASE	297.17	74.22	79.50	203729	0.00	0.26	0.00	16.91
25YR-24HR	Pond 2 POST	BASE	298.17	74.21	79.50	203684	0.00	0.26	0.00	16.94
25YR-24HR	Pond 2 POST	BASE	299.17	74.21	79.50	203638	0.00	0.26	0.00	16.96
25YR-24HR	Pond 2 POST	BASE	300.17	74.20	79.50	203593	0.00	0.26	0.00	16.98
25YR-24HR	Pond 2 POST	BASE	301.17	74.20	79.50	203548	0.00	0.26	0.00	17.00
25YR-24HR	Pond 2 POST	BASE	302.17	74.19	79.50	203503	0.00	0.26	0.00	17.02
25YR-24HR	Pond 2 POST	BASE	303.17	74.19	79.50	203458	0.00	0.26	0.00	17.04
25YR-24HR	Pond 2 POST	BASE	304.17	74.18	79.50	203413	0.00	0.26	0.00	17.06

MCN - Node Min/Max - 14day Drawdown of 1st 25yr-96hr Pond Stage

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
25YR-24HR	Pond 2 POST	BASE	305.17	74.18	79.50	203369	0.00	0.26	0.00	17.09
25YR-24HR	Pond 2 POST	BASE	306.17	74.18	79.50	203324	0.00	0.26	0.00	17.11
25YR-24HR	Pond 2 POST	BASE	307.17	74.17	79.50	203280	0.00	0.26	0.00	17.13
25YR-24HR	Pond 2 POST	BASE	308.17	74.17	79.50	203235	0.00	0.25	0.00	17.15
25YR-24HR	Pond 2 POST	BASE	309.17	74.16	79.50	203191	0.00	0.25	0.00	17.17
25YR-24HR	Pond 2 POST	BASE	310.17	74.16	79.50	203146	0.00	0.25	0.00	17.19
25YR-24HR	Pond 2 POST	BASE	311.17	74.15	79.50	203102	0.00	0.25	0.00	17.21
25YR-24HR	Pond 2 POST	BASE	312.17	74.15	79.50	203058	0.00	0.25	0.00	17.23
25YR-24HR	Pond 2 POST	BASE	313.17	74.14	79.50	203014	0.00	0.25	0.00	17.25
25YR-24HR	Pond 2 POST	BASE	314.17	74.14	79.50	202970	0.00	0.25	0.00	17.27
25YR-24HR	Pond 2 POST	BASE	315.17	74.14	79.50	202926	0.00	0.25	0.00	17.29
25YR-24HR	Pond 2 POST	BASE	316.17	74.13	79.50	202883	0.00	0.25	0.00	17.32
25YR-24HR	Pond 2 POST	BASE	317.17	74.13	79.50	202839	0.00	0.25	0.00	17.34
25YR-24HR	Pond 2 POST	BASE	318.17	74.12	79.50	202795	0.00	0.25	0.00	17.36
25YR-24HR	Pond 2 POST	BASE	319.17	74.12	79.50	202752	0.00	0.25	0.00	17.38
25YR-24HR	Pond 2 POST	BASE	320.17	74.11	79.50	202708	0.00	0.25	0.00	17.40
25YR-24HR	Pond 2 POST	BASE	321.17	74.11	79.50	202665	0.00	0.25	0.00	17.42
25YR-24HR	Pond 2 POST	BASE	322.17	74.10	79.50	202622	0.00	0.25	0.00	17.44
25YR-24HR	Pond 2 POST	BASE	323.17	74.10	79.50	202579	0.00	0.25	0.00	17.46
25YR-24HR	Pond 2 POST	BASE	324.17	74.10	79.50	202536	0.00	0.25	0.00	17.48
25YR-24HR	Pond 2 POST	BASE	325.17	74.09	79.50	202493	0.00	0.25	0.00	17.50
25YR-24HR	Pond 2 POST	BASE	326.17	74.09	79.50	202450	0.00	0.24	0.00	17.52
25YR-24HR	Pond 2 POST	BASE	327.17	74.08	79.50	202407	0.00	0.24	0.00	17.54
25YR-24HR	Pond 2 POST	BASE	328.17	74.08	79.50	202364	0.00	0.24	0.00	17.56
25YR-24HR	Pond 2 POST	BASE	329.17	74.07	79.50	202321	0.00	0.24	0.00	17.58
25YR-24HR	Pond 2 POST	BASE	330.17	74.07	79.50	202279	0.00	0.24	0.00	17.60
25YR-24HR	Pond 2 POST	BASE	331.17	74.07	79.50	202236	0.00	0.24	0.00	17.62
25YR-24HR	Pond 2 POST	BASE	332.17	74.06	79.50	202194	0.00	0.24	0.00	17.64
25YR-24HR	Pond 2 POST	BASE	333.17	74.06	79.50	202151	0.00	0.24	0.00	17.66
25YR-24HR	Pond 2 POST	BASE	334.17	74.05	79.50	202109	0.00	0.24	0.00	17.68
25YR-24HR	Pond 2 POST	BASE	335.17	74.05	79.50	202067	0.00	0.24	0.00	17.70
25YR-24HR	Pond 2 POST	BASE	336.17	74.04	79.50	202025	0.00	0.24	0.00	17.72
25YR-24HR	Pond 2 POST	BASE	337.17	74.04	79.50	201983	0.00	0.24	0.00	17.74
25YR-24HR	Pond 2 POST	BASE	338.17	74.04	79.50	201941	0.00	0.24	0.00	17.76
25YR-24HR	Pond 2 POST	BASE	339.17	74.03	79.50	201899	0.00	0.24	0.00	17.78
25YR-24HR	Pond 2 POST	BASE	340.17	74.03	79.50	201857	0.00	0.24	0.00	17.80
25YR-24HR	Pond 2 POST	BASE	341.17	74.02	79.50	201815	0.00	0.24	0.00	17.82
25YR-24HR	Pond 2 POST	BASE	342.17	74.02	79.50	201773	0.00	0.24	0.00	17.84
25YR-24HR	Pond 2 POST	BASE	343.17	74.01	79.50	201732	0.00	0.24	0.00	17.86
25YR-24HR	Pond 2 POST	BASE	344.17	74.01	79.50	201690	0.00	0.24	0.00	17.88
25YR-24HR	Pond 2 POST	BASE	345.17	74.01	79.50	201649	0.00	0.24	0.00	17.90
25YR-24HR	Pond 2 POST	BASE	346.17	74.00	79.50	201607	0.00	0.24	0.00	17.92
25YR-24HR	Pond 2 POST	BASE	347.17	74.00	79.50	201567	0.00	0.23	0.00	17.94
25YR-24HR	Pond 2 POST	BASE	348.17	73.99	79.50	201526	0.00	0.23	0.00	17.96
25YR-24HR	Pond 2 POST	BASE	349.17	73.99	79.50	201486	0.00	0.23	0.00	17.98
25YR-24HR	Pond 2 POST	BASE	350.17	73.98	79.50	201445	0.00	0.23	0.00	17.99
25YR-24HR	Pond 2 POST	BASE	351.17	73.98	79.50	201405	0.00	0.23	0.00	18.01
25YR-24HR	Pond 2 POST	BASE	352.17	73.98	79.50	201365	0.00	0.23	0.00	18.03
25YR-24HR	Pond 2 POST	BASE	353.17	73.97	79.50	201325	0.00	0.23	0.00	18.05
25YR-24HR	Pond 2 POST	BASE	354.17	73.97	79.50	201284	0.00	0.23	0.00	18.07
25YR-24HR	Pond 2 POST	BASE	355.17	73.96	79.50	201244	0.00	0.23	0.00	18.09
25YR-24HR	Pond 2 POST	BASE	356.17	73.96	79.50	201204	0.00	0.23	0.00	18.11
25YR-24HR	Pond 2 POST	BASE	357.17	73.96	79.50	201165	0.00	0.23	0.00	18.13
25YR-24HR	Pond 2 POST	BASE	358.17	73.95	79.50	201125	0.00	0.23	0.00	18.15
25YR-24HR	Pond 2 POST	BASE	359.17	73.95	79.50	201085	0.00	0.23	0.00	18.17

MCN - Node Min/Max - 2nd 25yr-96hr Pond Stage

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
Pond 2 POST	BASE	25-96POST	61.24	79.65	79.50	0.0050	261493	60.08	264.07	61.24	38.63

MCN - Node Time/Series - 2nd 25yr-96hr Post Development Runoff to Lake Charity

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
25-96POST	Lake Charity	BASE	0.00	66.50	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	0.26	66.51	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	0.50	66.53	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	0.77	66.54	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	1.02	66.55	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	1.27	66.57	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	1.52	66.58	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	1.77	66.59	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	2.02	66.61	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	2.27	66.62	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	2.52	66.63	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	2.77	66.64	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	3.02	66.66	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	3.27	66.67	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	3.52	66.68	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	3.77	66.70	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	4.02	66.71	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	4.27	66.72	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	4.52	66.74	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	4.77	66.75	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	5.02	66.76	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	5.27	66.77	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	5.52	66.79	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	5.77	66.80	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	6.02	66.81	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	6.27	66.83	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	6.52	66.84	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	6.77	66.85	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	7.02	66.87	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	7.27	66.88	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	7.52	66.89	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	7.77	66.90	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	8.02	66.92	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	8.27	66.93	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	8.52	66.94	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	8.77	66.96	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	9.02	66.97	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	9.27	66.98	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	9.52	67.00	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	9.77	67.01	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	10.02	67.02	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	10.27	67.03	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	10.52	67.05	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	10.77	67.06	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	11.02	67.07	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	11.27	67.09	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	11.52	67.10	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	11.77	67.11	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	12.02	67.13	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	12.27	67.14	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	12.52	67.15	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	12.77	67.16	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	13.02	67.18	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	13.27	67.19	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	13.52	67.20	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	13.77	67.22	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	14.02	67.23	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	14.27	67.24	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	14.52	67.26	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	14.77	67.27	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	15.02	67.28	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	15.27	67.30	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	15.52	67.31	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	15.77	67.32	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	16.02	67.33	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	16.27	67.35	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	16.52	67.36	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	16.77	67.37	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	17.02	67.39	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	17.27	67.40	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	17.52	67.41	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	17.77	67.43	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	18.02	67.44	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	18.27	67.45	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	18.52	67.46	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	18.77	67.48	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	19.02	67.49	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	19.27	67.50	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	19.52	67.52	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	19.77	67.53	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	20.02	67.54	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	20.27	67.56	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	20.52	67.57	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	20.77	67.58	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	21.02	67.59	73.00	0	0.00	0.00	0.00	0.00

MCN - Node Time/Series - 2nd 25yr-96hr Post Development Runoff to Lake Charity

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
25-96POST	Lake Charity	BASE	21.27	67.61	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	21.52	67.62	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	21.77	67.63	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	22.02	67.65	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	22.27	67.66	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	22.52	67.67	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	22.77	67.69	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	23.02	67.70	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	23.27	67.71	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	23.52	67.72	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	23.77	67.74	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	24.02	67.75	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	24.27	67.76	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	24.52	67.78	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	24.77	67.79	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	25.02	67.80	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	25.27	67.82	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	25.52	67.83	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	25.77	67.84	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	26.02	67.86	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	26.27	67.87	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	26.52	67.88	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	26.77	67.89	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	27.02	67.91	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	27.27	67.92	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	27.52	67.93	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	27.77	67.95	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	28.02	67.96	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	28.27	67.97	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	28.52	67.99	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	28.77	68.00	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	29.02	68.01	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	29.27	68.02	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	29.52	68.04	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	29.77	68.05	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	30.02	68.06	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	30.27	68.08	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	30.52	68.09	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	30.77	68.10	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	31.02	68.12	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	31.27	68.13	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	31.52	68.14	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	31.77	68.15	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	32.02	68.17	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	32.27	68.18	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	32.52	68.19	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	32.77	68.21	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	33.02	68.22	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	33.27	68.23	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	33.52	68.25	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	33.77	68.26	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	34.02	68.27	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	34.27	68.28	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	34.52	68.30	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	34.77	68.31	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	35.02	68.32	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	35.27	68.34	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	35.52	68.35	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	35.77	68.36	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	36.02	68.38	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	36.27	68.39	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	36.52	68.40	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	36.77	68.41	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	37.02	68.43	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	37.27	68.44	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	37.52	68.45	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	37.77	68.47	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	38.02	68.48	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	38.27	68.49	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	38.52	68.51	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	38.77	68.52	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	39.02	68.53	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	39.27	68.55	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	39.52	68.56	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	39.77	68.57	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	40.02	68.58	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	40.27	68.60	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	40.52	68.61	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	40.77	68.62	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	41.02	68.64	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	41.27	68.65	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	41.52	68.66	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	41.77	68.68	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	42.02	68.69	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	42.27	68.70	73.00	0	0.00	0.00	0.00	0.00

MCN - Node Time/Series - 2nd 25yr-96hr Post Development Runoff to Lake Charity

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
25-96POST	Lake Charity	BASE	42.52	68.71	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	42.77	68.73	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	43.02	68.74	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	43.27	68.75	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	43.52	68.77	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	43.77	68.78	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	44.02	68.79	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	44.27	68.81	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	44.52	68.82	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	44.77	68.83	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	45.02	68.84	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	45.27	68.86	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	45.52	68.87	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	45.77	68.88	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	46.02	68.90	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	46.27	68.91	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	46.52	68.92	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	46.77	68.94	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	47.02	68.95	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	47.27	68.96	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	47.52	68.97	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	47.77	68.99	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	48.02	69.00	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	48.27	69.02	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	48.52	69.04	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	48.77	69.06	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	49.02	69.08	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	49.27	69.11	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	49.52	69.13	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	49.77	69.15	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	50.02	69.17	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	50.27	69.19	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	50.52	69.21	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	50.77	69.23	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	51.02	69.25	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	51.27	69.27	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	51.52	69.29	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	51.77	69.31	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	52.02	69.33	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	52.27	69.36	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	52.52	69.38	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	52.77	69.40	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	53.02	69.42	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	53.27	69.44	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	53.52	69.46	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	53.77	69.48	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	54.02	69.50	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	54.27	69.52	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	54.52	69.54	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	54.77	69.56	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	55.02	69.58	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	55.27	69.61	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	55.52	69.63	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	55.77	69.65	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	56.02	69.67	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	56.27	69.69	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	56.52	69.71	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	56.77	69.73	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	57.02	69.75	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	57.27	69.77	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	57.52	69.79	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	57.77	69.81	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	58.02	69.83	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	58.27	69.86	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	58.51	69.88	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	58.76	69.90	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	59.01	69.92	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	59.25	69.94	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	59.50	69.96	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	59.75	69.98	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	60.00	70.00	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	60.25	70.01	73.00	0	0.00	0.00	0.00	0.00
25-96POST	Lake Charity	BASE	60.50	70.03	73.00	0	5.84	0.00	0.06	0.00
25-96POST	Lake Charity	BASE	60.75	70.04	73.00	0	25.17	0.00	0.38	0.00
25-96POST	Lake Charity	BASE	61.00	70.06	73.00	0	35.75	0.00	1.01	0.00
25-96POST	Lake Charity	BASE	61.25	70.07	73.00	0	38.62	0.00	1.79	0.00
25-96POST	Lake Charity	BASE	61.50	70.08	73.00	0	36.73	0.00	2.56	0.00
25-96POST	Lake Charity	BASE	61.75	70.10	73.00	0	33.78	0.00	3.29	0.00
25-96POST	Lake Charity	BASE	62.00	70.11	73.00	0	31.15	0.00	3.96	0.00
25-96POST	Lake Charity	BASE	62.25	70.13	73.00	0	28.66	0.00	4.58	0.00
25-96POST	Lake Charity	BASE	62.50	70.14	73.00	0	25.90	0.00	5.14	0.00
25-96POST	Lake Charity	BASE	62.75	70.15	73.00	0	23.43	0.00	5.65	0.00
25-96POST	Lake Charity	BASE	63.00	70.17	73.00	0	21.40	0.00	6.12	0.00
25-96POST	Lake Charity	BASE	63.25	70.18	73.00	0	19.78	0.00	6.54	0.00
25-96POST	Lake Charity	BASE	63.50	70.19	73.00	0	18.51	0.00	6.94	0.00

MCN - Node Time/Series - 2nd 25yr-96hr Post Development Runoff to Lake Charity

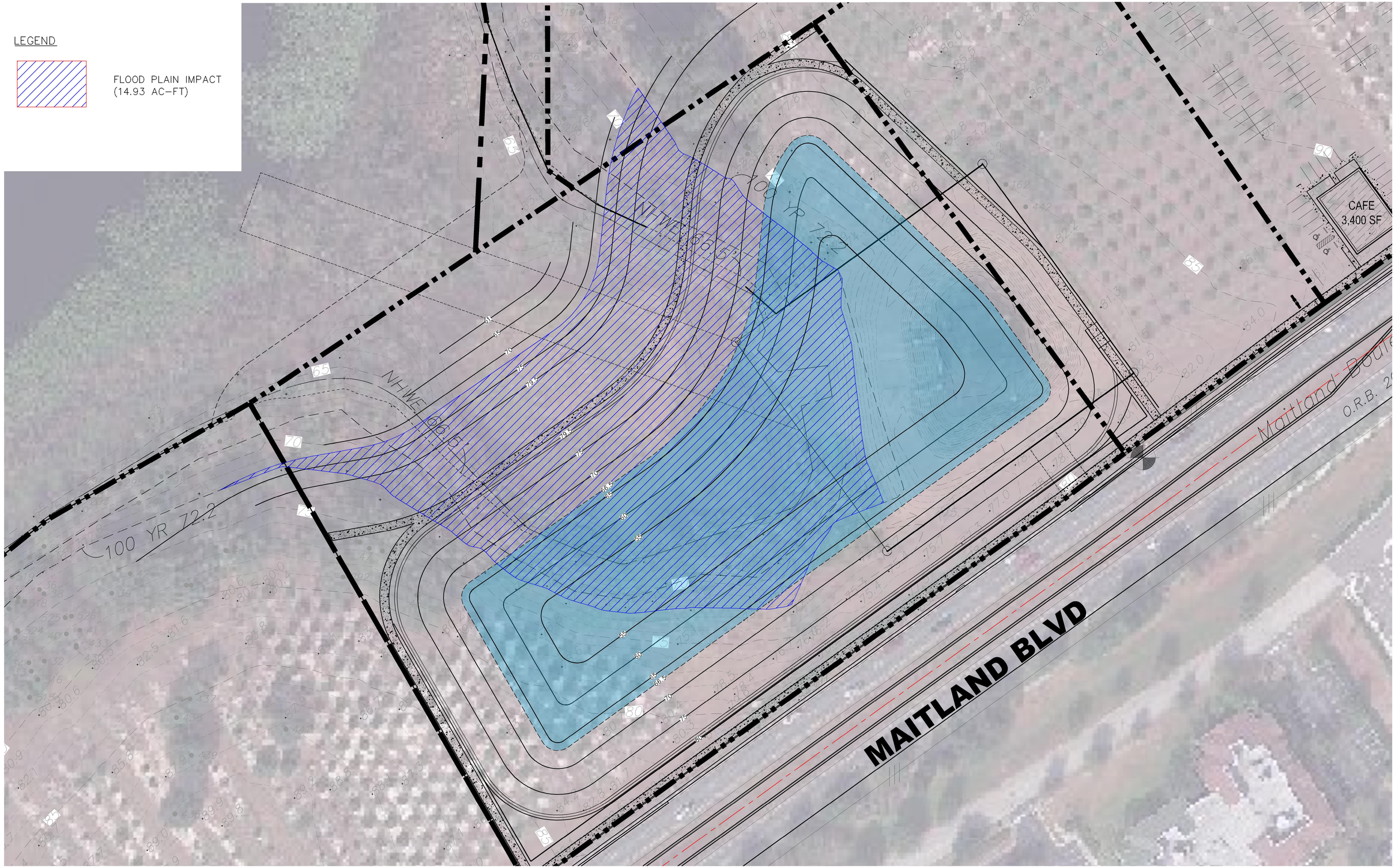
Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
25-96POST	Lake Charity	BASE	63.75	70.21	73.00	0	17.53	0.00	7.31	0.00
25-96POST	Lake Charity	BASE	64.00	70.22	73.00	0	16.76	0.00	7.66	0.00
25-96POST	Lake Charity	BASE	64.25	70.24	73.00	0	15.98	0.00	8.00	0.00
25-96POST	Lake Charity	BASE	64.50	70.25	73.00	0	14.89	0.00	8.32	0.00
25-96POST	Lake Charity	BASE	64.75	70.26	73.00	0	13.79	0.00	8.62	0.00
25-96POST	Lake Charity	BASE	65.00	70.28	73.00	0	12.83	0.00	8.89	0.00
25-96POST	Lake Charity	BASE	65.25	70.29	73.00	0	12.02	0.00	9.15	0.00
25-96POST	Lake Charity	BASE	65.50	70.31	73.00	0	11.35	0.00	9.39	0.00
25-96POST	Lake Charity	BASE	65.75	70.32	73.00	0	10.81	0.00	9.62	0.00
25-96POST	Lake Charity	BASE	66.00	70.33	73.00	0	10.37	0.00	9.84	0.00
25-96POST	Lake Charity	BASE	66.25	70.35	73.00	0	10.02	0.00	10.05	0.00
25-96POST	Lake Charity	BASE	66.50	70.36	73.00	0	9.74	0.00	10.25	0.00
25-96POST	Lake Charity	BASE	66.75	70.38	73.00	0	9.50	0.00	10.45	0.00
25-96POST	Lake Charity	BASE	67.00	70.39	73.00	0	9.31	0.00	10.65	0.00
25-96POST	Lake Charity	BASE	67.25	70.40	73.00	0	9.16	0.00	10.84	0.00
25-96POST	Lake Charity	BASE	67.50	70.42	73.00	0	9.03	0.00	11.03	0.00
25-96POST	Lake Charity	BASE	67.75	70.43	73.00	0	8.93	0.00	11.21	0.00
25-96POST	Lake Charity	BASE	68.00	70.44	73.00	0	8.84	0.00	11.40	0.00
25-96POST	Lake Charity	BASE	68.25	70.46	73.00	0	8.69	0.00	11.58	0.00
25-96POST	Lake Charity	BASE	68.50	70.47	73.00	0	8.35	0.00	11.75	0.00
25-96POST	Lake Charity	BASE	68.75	70.49	73.00	0	7.98	0.00	11.92	0.00
25-96POST	Lake Charity	BASE	69.00	70.50	73.00	0	7.63	0.00	12.08	0.00
25-96POST	Lake Charity	BASE	69.25	70.51	73.00	0	7.31	0.00	12.24	0.00
25-96POST	Lake Charity	BASE	69.50	70.53	73.00	0	7.04	0.00	12.38	0.00
25-96POST	Lake Charity	BASE	69.75	70.54	73.00	0	6.82	0.00	12.53	0.00
25-96POST	Lake Charity	BASE	70.00	70.56	73.00	0	6.63	0.00	12.67	0.00
25-96POST	Lake Charity	BASE	70.25	70.57	73.00	0	6.47	0.00	12.80	0.00
25-96POST	Lake Charity	BASE	70.50	70.58	73.00	0	6.34	0.00	12.93	0.00
25-96POST	Lake Charity	BASE	70.75	70.60	73.00	0	6.23	0.00	13.06	0.00
25-96POST	Lake Charity	BASE	71.00	70.61	73.00	0	6.13	0.00	13.19	0.00
25-96POST	Lake Charity	BASE	71.25	70.63	73.00	0	6.06	0.00	13.32	0.00
25-96POST	Lake Charity	BASE	71.50	70.64	73.00	0	5.99	0.00	13.44	0.00
25-96POST	Lake Charity	BASE	71.75	70.65	73.00	0	5.93	0.00	13.57	0.00
25-96POST	Lake Charity	BASE	72.00	70.67	73.00	0	5.89	0.00	13.69	0.00
25-96POST	Lake Charity	BASE	72.25	70.68	73.00	0	5.78	0.00	13.81	0.00
25-96POST	Lake Charity	BASE	72.50	70.69	73.00	0	5.51	0.00	13.92	0.00
25-96POST	Lake Charity	BASE	72.75	70.71	73.00	0	5.20	0.00	14.04	0.00
25-96POST	Lake Charity	BASE	73.00	70.72	73.00	0	4.91	0.00	14.14	0.00
25-96POST	Lake Charity	BASE	73.25	70.74	73.00	0	4.64	0.00	14.24	0.00
25-96POST	Lake Charity	BASE	73.50	70.75	73.00	0	4.40	0.00	14.33	0.00
25-96POST	Lake Charity	BASE	73.75	70.76	73.00	0	4.20	0.00	14.42	0.00
25-96POST	Lake Charity	BASE	74.00	70.78	73.00	0	4.03	0.00	14.51	0.00
25-96POST	Lake Charity	BASE	74.25	70.79	73.00	0	3.88	0.00	14.59	0.00
25-96POST	Lake Charity	BASE	74.50	70.81	73.00	0	3.75	0.00	14.67	0.00
25-96POST	Lake Charity	BASE	74.75	70.82	73.00	0	3.64	0.00	14.74	0.00
25-96POST	Lake Charity	BASE	75.00	70.83	73.00	0	3.55	0.00	14.82	0.00
25-96POST	Lake Charity	BASE	75.25	70.85	73.00	0	3.47	0.00	14.89	0.00
25-96POST	Lake Charity	BASE	75.50	70.86	73.00	0	3.40	0.00	14.96	0.00
25-96POST	Lake Charity	BASE	75.75	70.88	73.00	0	3.34	0.00	15.03	0.00
25-96POST	Lake Charity	BASE	76.00	70.89	73.00	0	3.29	0.00	15.10	0.00
25-96POST	Lake Charity	BASE	76.25	70.90	73.00	0	3.24	0.00	15.17	0.00
25-96POST	Lake Charity	BASE	76.50	70.92	73.00	0	3.20	0.00	15.23	0.00
25-96POST	Lake Charity	BASE	76.75	70.93	73.00	0	3.17	0.00	15.30	0.00
25-96POST	Lake Charity	BASE	77.00	70.94	73.00	0	3.14	0.00	15.36	0.00
25-96POST	Lake Charity	BASE	77.25	70.96	73.00	0	3.12	0.00	15.43	0.00
25-96POST	Lake Charity	BASE	77.50	70.97	73.00	0	3.10	0.00	15.49	0.00
25-96POST	Lake Charity	BASE	77.75	70.99	73.00	0	3.08	0.00	15.56	0.00
25-96POST	Lake Charity	BASE	78.00	71.00	73.00	0	3.06	0.00	15.62	0.00
25-96POST	Lake Charity	BASE	78.25	71.01	73.00	0	3.05	0.00	15.68	0.00
25-96POST	Lake Charity	BASE	78.50	71.03	73.00	0	3.04	0.00	15.75	0.00
25-96POST	Lake Charity	BASE	78.75	71.04	73.00	0	3.03	0.00	15.81	0.00
25-96POST	Lake Charity	BASE	79.00	71.06	73.00	0	3.02	0.00	15.87	0.00
25-96POST	Lake Charity	BASE	79.25	71.07	73.00	0	3.01	0.00	15.93	0.00
25-96POST	Lake Charity	BASE	79.50	71.08	73.00	0	3.00	0.00	16.00	0.00
25-96POST	Lake Charity	BASE	79.75	71.10	73.00	0	3.00	0.00	16.06	0.00
25-96POST	Lake Charity	BASE	80.00	71.11	73.00	0	2.99	0.00	16.12	0.00
25-96POST	Lake Charity	BASE	80.25	71.13	73.00	0	2.99	0.00	16.18	0.00
25-96POST	Lake Charity	BASE	80.50	71.14	73.00	0	2.98	0.00	16.24	0.00
25-96POST	Lake Charity	BASE	80.75	71.15	73.00	0	2.97	0.00	16.30	0.00
25-96POST	Lake Charity	BASE	81.00	71.17	73.00	0	2.97	0.00	16.37	0.00
25-96POST	Lake Charity	BASE	81.25	71.18	73.00	0	2.96	0.00	16.43	0.00
25-96POST	Lake Charity	BASE	81.50	71.19	73.00	0	2.96	0.00	16.49	0.00
25-96POST	Lake Charity	BASE	81.75	71.21	73.00	0	2.96	0.00	16.55	0.00
25-96POST	Lake Charity	BASE	82.00	71.22	73.00	0	2.95	0.00	16.61	0.00
25-96POST	Lake Charity	BASE	82.25	71.24	73.00	0	2.95	0.00	16.67	0.00
25-96POST	Lake Charity	BASE	82.50	71.25	73.00	0	2.95	0.00	16.73	0.00
25-96POST	Lake Charity	BASE	82.75	71.26	73.00	0	2.95	0.00	16.79	0.00
25-96POST	Lake Charity	BASE	83.00	71.28	73.00	0	2.94	0.00	16.85	0.00
25-96POST	Lake Charity	BASE	83.25	71.29	73.00	0	2.94	0.00	16.91	0.00
25-96POST	Lake Charity	BASE	83.50	71.31	73.00	0	2.94	0.00	16.98	0.00
25-96POST	Lake Charity	BASE	83.75	71.32	73.00	0	2.94	0.00	17.04	0.00
25-96POST	Lake Charity	BASE	84.00	71.33	73.00	0	2.94	0.00	17.10	0.00
25-96POST	Lake Charity	BASE	84.25	71.35	73.00	0	2.94	0.00	17.16	0.00
25-96POST	Lake Charity	BASE	84.50	71.36	73.00	0	2.94	0.00	17.22	0.00
25-96POST	Lake Charity	BASE	84.75	71.38	73.00	0	2.94	0.00	17.28	0.00

MCN - Node Time/Series - 2nd 25yr-96hr Post Development Runoff to Lake Charity

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
25-96POST	Lake Charity	BASE	85.00	71.39	73.00	0	2.94	0.00	17.34	0.00
25-96POST	Lake Charity	BASE	85.25	71.40	73.00	0	2.94	0.00	17.40	0.00
25-96POST	Lake Charity	BASE	85.50	71.42	73.00	0	2.94	0.00	17.46	0.00
25-96POST	Lake Charity	BASE	85.75	71.43	73.00	0	2.93	0.00	17.52	0.00
25-96POST	Lake Charity	BASE	86.00	71.44	73.00	0	2.93	0.00	17.58	0.00
25-96POST	Lake Charity	BASE	86.25	71.46	73.00	0	2.93	0.00	17.64	0.00
25-96POST	Lake Charity	BASE	86.50	71.47	73.00	0	2.93	0.00	17.70	0.00
25-96POST	Lake Charity	BASE	86.75	71.49	73.00	0	2.93	0.00	17.76	0.00
25-96POST	Lake Charity	BASE	87.00	71.50	73.00	0	2.93	0.00	17.82	0.00
25-96POST	Lake Charity	BASE	87.25	71.51	73.00	0	2.93	0.00	17.89	0.00
25-96POST	Lake Charity	BASE	87.50	71.53	73.00	0	2.93	0.00	17.95	0.00
25-96POST	Lake Charity	BASE	87.75	71.54	73.00	0	2.93	0.00	18.01	0.00
25-96POST	Lake Charity	BASE	88.00	71.56	73.00	0	2.93	0.00	18.07	0.00
25-96POST	Lake Charity	BASE	88.25	71.57	73.00	0	2.93	0.00	18.13	0.00
25-96POST	Lake Charity	BASE	88.50	71.58	73.00	0	2.94	0.00	18.19	0.00
25-96POST	Lake Charity	BASE	88.75	71.60	73.00	0	2.94	0.00	18.25	0.00
25-96POST	Lake Charity	BASE	89.00	71.61	73.00	0	2.94	0.00	18.31	0.00
25-96POST	Lake Charity	BASE	89.25	71.63	73.00	0	2.94	0.00	18.37	0.00
25-96POST	Lake Charity	BASE	89.50	71.64	73.00	0	2.94	0.00	18.43	0.00
25-96POST	Lake Charity	BASE	89.75	71.65	73.00	0	2.95	0.00	18.49	0.00
25-96POST	Lake Charity	BASE	90.00	71.67	73.00	0	2.95	0.00	18.55	0.00
25-96POST	Lake Charity	BASE	90.25	71.68	73.00	0	2.95	0.00	18.61	0.00
25-96POST	Lake Charity	BASE	90.50	71.69	73.00	0	2.95	0.00	18.68	0.00
25-96POST	Lake Charity	BASE	90.75	71.71	73.00	0	2.95	0.00	18.74	0.00
25-96POST	Lake Charity	BASE	91.00	71.72	73.00	0	2.95	0.00	18.80	0.00
25-96POST	Lake Charity	BASE	91.25	71.74	73.00	0	2.95	0.00	18.86	0.00
25-96POST	Lake Charity	BASE	91.50	71.75	73.00	0	2.95	0.00	18.92	0.00
25-96POST	Lake Charity	BASE	91.75	71.76	73.00	0	2.96	0.00	18.98	0.00
25-96POST	Lake Charity	BASE	92.00	71.78	73.00	0	2.96	0.00	19.04	0.00
25-96POST	Lake Charity	BASE	92.25	71.79	73.00	0	2.96	0.00	19.10	0.00
25-96POST	Lake Charity	BASE	92.50	71.81	73.00	0	2.96	0.00	19.16	0.00
25-96POST	Lake Charity	BASE	92.75	71.82	73.00	0	2.95	0.00	19.22	0.00
25-96POST	Lake Charity	BASE	93.00	71.83	73.00	0	2.95	0.00	19.29	0.00
25-96POST	Lake Charity	BASE	93.25	71.85	73.00	0	2.95	0.00	19.35	0.00
25-96POST	Lake Charity	BASE	93.50	71.86	73.00	0	2.95	0.00	19.41	0.00
25-96POST	Lake Charity	BASE	93.75	71.88	73.00	0	2.95	0.00	19.47	0.00
25-96POST	Lake Charity	BASE	94.00	71.89	73.00	0	2.95	0.00	19.53	0.00
25-96POST	Lake Charity	BASE	94.25	71.90	73.00	0	2.95	0.00	19.59	0.00
25-96POST	Lake Charity	BASE	94.50	71.92	73.00	0	2.94	0.00	19.65	0.00
25-96POST	Lake Charity	BASE	94.75	71.93	73.00	0	2.94	0.00	19.71	0.00
25-96POST	Lake Charity	BASE	95.00	71.94	73.00	0	2.94	0.00	19.77	0.00
25-96POST	Lake Charity	BASE	95.25	71.96	73.00	0	2.94	0.00	19.83	0.00
25-96POST	Lake Charity	BASE	95.50	71.97	73.00	0	2.94	0.00	19.89	0.00
25-96POST	Lake Charity	BASE	95.75	71.99	73.00	0	2.94	0.00	19.95	0.00
25-96POST	Lake Charity	BASE	96.00	72.00	73.00	0	2.94	0.00	20.02	0.00
25-96POST	Lake Charity	BASE	96.25	72.00	73.00	0	2.88	0.00	20.08	0.00
25-96POST	Lake Charity	BASE	96.50	72.00	73.00	0	2.68	0.00	20.13	0.00
25-96POST	Lake Charity	BASE	96.75	72.01	73.00	0	2.43	0.00	20.19	0.00
25-96POST	Lake Charity	BASE	97.00	72.01	73.00	0	2.18	0.00	20.23	0.00
25-96POST	Lake Charity	BASE	97.25	72.01	73.00	0	1.95	0.00	20.28	0.00
25-96POST	Lake Charity	BASE	97.50	72.01	73.00	0	1.75	0.00	20.31	0.00
25-96POST	Lake Charity	BASE	97.75	72.01	73.00	0	1.57	0.00	20.35	0.00
25-96POST	Lake Charity	BASE	98.00	72.02	73.00	0	1.42	0.00	20.38	0.00
25-96POST	Lake Charity	BASE	98.25	72.02	73.00	0	1.28	0.00	20.41	0.00
25-96POST	Lake Charity	BASE	98.50	72.02	73.00	0	1.17	0.00	20.43	0.00
25-96POST	Lake Charity	BASE	98.75	72.02	73.00	0	1.06	0.00	20.46	0.00
25-96POST	Lake Charity	BASE	99.00	72.03	73.00	0	0.97	0.00	20.48	0.00
25-96POST	Lake Charity	BASE	99.25	72.03	73.00	0	0.89	0.00	20.50	0.00
25-96POST	Lake Charity	BASE	99.50	72.03	73.00	0	0.81	0.00	20.51	0.00
25-96POST	Lake Charity	BASE	99.75	72.03	73.00	0	0.75	0.00	20.53	0.00
25-96POST	Lake Charity	BASE	100.00	72.03	73.00	0	0.69	0.00	20.54	0.00
25-96POST	Lake Charity	BASE	100.01	72.03	73.00	0	0.69	0.00	20.55	0.00

Floodplain Impact Analysis

Kimley»Horn



K:\ORL_Civil\049183005-MCN-Master Development Svcs\CADD\EXHIBITS\2015-12-03 - Current Pond\Pond2-With Corrected Road.dwg

MAITLAND CONCOURSE NORTH

ORANGE COUNTY, FLORIDA

POND CONCEPT #4 FLOOD PLAIN IMPACT

11/12/15 - CONTACT JONATHAN A. MARTIN, P.E. (407) 427-1686

GRAPHIC SCALE IN FEET
0 20 40 80

NORTH

Kimley»Horn

Geotechnical Report

Kimley»Horn

UNIVERSAL
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SUPPLEMENTAL GEOTECHNICAL EXPLORATION

Maitland Concourse North – Master Stormwater
511 West Maitland Boulevard (SR 414)
Maitland, Orange County, Florida

UES Project No. 0130.1500104.0001
UES Report No. 1278329

PREPARED FOR:

RDMCN, LLC
315 South Biscayne Boulevard
Miami, Florida 33131

PREPARED BY:

Universal Engineering Sciences
3532 Maggie Boulevard
Orlando, Florida 32811
(407) 423-0504

October 27, 2015

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Consultants In: Geotechnical Engineering • Environmental Sciences
Geophysical Services • Construction Materials Testing • Threshold Inspection
Building Inspection • Plan Review • Building Code Administration

LOCATIONS:
- Atlanta
- Daytona Beach
- Fort Myers
- Fort Pierce
- Gainesville
- Jacksonville
- Kissimmee
- Leesburg
- Miami
- Ocala
- Orlando (Headquarters)
- Palm Coast
- Panama City
- Pensacola
- Rockledge
- Sarasota
- Tampa
- West Palm Beach

October 27, 2015

RDMCN, LLC
315 South Biscayne Boulevard
Miami, Florida 33131

Attention: Mr. Max Cruz
mcruz@relatedgroup.com

Reference: Supplemental Geotechnical Exploration
Maitland Concourse North – Master Stormwater
511 West Maitland Boulevard (SR 414)
Maitland, Orange County, Florida
UES Project No. 0130.1500104.0001
UES Report No. 1278329

Dear Mr. Cruz:

As requested by Kimley-Horn & Associates, Inc. (Kimley-Horn), Universal Engineering Sciences, Inc. (Universal) has completed an additional geotechnical exploration at the referenced site in Orange County, Florida. The scope of our exploration was planned in conjunction with Kimley-Horn and authorized by you. This exploration was performed in accordance with generally accepted soil and foundation engineering practices. No other warranty, express or implied, is made.

PROJECT DESCRIPTION

We understand that the proposed project will include the construction of a new mixed-use (residential and commercial) development in Maitland, FL. Universal has previously performed geotechnical explorations at this project and submitted three (3) engineering reports (UES Reports No. 1222610, 1223626, and 1223755 dated April 28 and 30, 2015). Since the issuance of these reports, Kimley-Horn has requested additional borings and laboratory testing to aid in the stormwater design for the project.

FIELD METHODOLOGIES

As part of this additional exploration, three (3) SPT borings, designated ES-1 through ES-3 on the attached Boring Location Plan, were performed to a depth of 20 feet below existing land surface (bls). The SPT borings were performed in general accordance with the procedures of ASTM D 1586.

Horizontal and vertical survey control was not provided for the test locations prior to our field exploration program. Universal located the test borings by using the provided site plan, measuring from existing on-site landmarks shown on an aerial photograph, and by using handheld GPS devices. The indicated test locations should be considered accurate to the degree of the methodologies used. The approximate boring locations are shown in Appendix B.

LABORATORY TESTING

The soil samples recovered from the test borings were returned to our laboratory and visually classified in general accordance with ASTM D 2487 "Standard Classification of Soils for Engineering Purposes" (Unified Soil Classification System). We selected representative soil samples from the borings for laboratory testing to aid in classifying the soils and to help to evaluate the general engineering characteristics of the site soils. The results of these tests are shown on the boring logs. A summary of the tests performed is shown in Table I.

TABLE I
LABORATORY METHODOLOGIES

Test Performed	Number Performed	Reference
Grain Size Analysis (#200 wash only)	7	ASTM D 1140 "Amount of Material in Soils Finer than the No. 200 (75 - µm) sieve"
Moisture Content	7	ASTM D 2216 "Laboratory Determination of Water (Moisture) Content of Soil by Mass"
Permeability Test	6	ASTM D 2434 "Standard Test Method for Permeability of Granular Soils (Constant Head)"

SOIL PROFILES

The results of our additional exploration, together with pertinent information obtained from the SPT borings are shown on the attached boring logs in Appendix A. The soil profiles were prepared from the field logs after the recovered soil samples were examined by a Geotechnical Engineer.

The majority of the soils encountered at the boring locations consist mostly of very loose to medium dense fine sands [SP] to the maximum depth of drilling, 20 feet bls. Notable exceptions to the soil profile were a layer of silty-clayey fine sand [SC-SM] encountered at boring ES-2 from about 17½ to 20 feet. For more detailed soils profiles, see the attached boring logs.

GROUNDWATER CONDITIONS

We measured the water level in the boreholes after the completion of drilling on October 13, 2015. The encountered groundwater levels were measured at approximately 5 to 5½ feet bls at ES-2 and ES-3, respectively. No groundwater was encountered within the drilled depth at ES-1. The large variation in groundwater levels can be attributed to topographic relief across the site area. Fluctuations in groundwater levels should be anticipated throughout the year, primarily due to seasonal variations in rainfall, surface runoff, and other factors that may vary from the time the borings were conducted.

Based upon historical rainfall data, review of U.S.G.S. maps, NRCS Soils Survey, and site boring data, we estimate that the seasonal high groundwater level may form roughly 4 to 5 feet bls at borings ES-1 and ES-2, and below a depth of 15 feet at boring ES-1. The estimated seasonal high groundwater level at each boring is shown on the individual boring logs in Appendix A.

STORMWATER POND DESIGN PARAMETERS

The locations of the three (3) SPT borings were selected by Kimley-Horn. Our recommended stormwater management design parameters are shown in Table II.

TABLE II
STORMWATER MANAGEMENT DESIGN PARAMETERS

Design Parameter	Estimated Values		
Relevant Boring Logs	ES-1	ES-2	ES-3
Estimated Depth to Base of Surficial Aquifer (feet)	20+	17½	20+
Estimated Fillable Porosity of Surficial in-situ sands (percent)	25	25	25
Estimated Seasonal High Groundwater Level (feet)	>15	4	5
Estimated Horizontal Saturated Hydraulic Conductivity of Surficial Aquifer (feet per day)	24.0	12.5	25.5
Estimated Vertical Unsaturated Hydraulic Conductivity of Surficial Aquifer (feet per day)	16.0	8.3	17.0

Please note that survey control was not provided at our boring locations. The estimated depths in the above table are referenced to the existing ground surface at the time of our exploration. Appropriate factors of safety should be included in the design.

CLOSURE

We appreciate the opportunity to be working with you on this project and look forward to a continued association. Please note that all other provisions and recommendations listed in our previous reports, which were not changed in this supplemental report, still remain in effect. Please do not hesitate to contact us if you should have any questions, or if we may further assist you as your plans proceed.

Sincerely yours,
UNIVERSAL ENGINEERING SCIENCES, INC.
Certificate of Authorization No. 549

Andrew S. Wilderotter, P.E.
Geotechnical Project Manager

Guy H. Rabens, M.S., P.E.
Geotechnical & Environmental Manager
Date: 10-27-15
Florida Registration No. 60917

GUY H. RABENS
LICENSE
No 60917
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Distribution: Mr. Max Cruz (MCruz@relatedgroup.com)
Mr. Brent Lenzen, P.E. w/ Kimley-Horn (Brent.Lezen@kimley-horn.com)
Mr. Jonathan Martin, P.E. w/ Kimley-Horn (Jonathan.Martin@kimley-horn.com)

Appendices: Boring Plan and Logs

APPENDIX A

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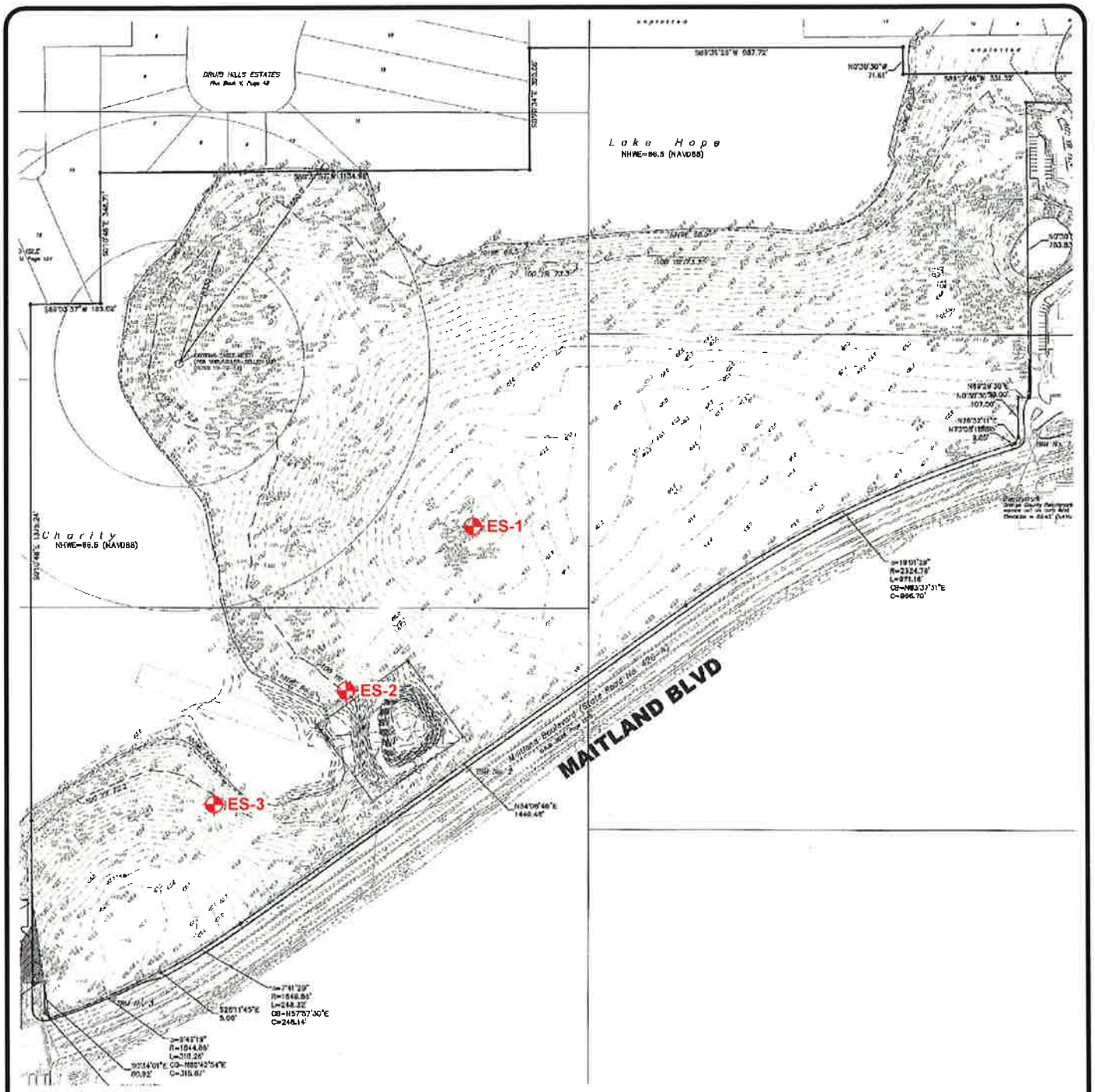

LEGEND

APPROX. STANDARD PENETRATION TEST BORING LOCATION (SPT)

BORINGS PERFORMED 10/13/15

0 400

SCALE (FT.)

N

THIS DRAWING CREATED USING PLAN PROVIDED BY CLIENT

UNIVERSAL ENGINEERING SCIENCES

ADDITIONAL GEOTECHNICAL EXPLORATION
MAITLAND CONCOURSE NORTH - STORMWATER
MAITLAND AVENUE (S.R. 414)
MAITLAND, ORANGE COUNTY, FLORIDA

BORING LOCATION PLAN

DRAWN BY: R.K.S.	DATE: 10 - 13 - 15	CHECKED BY:	DATE:
SCALE: AS SHOWN	PROJECT NO: 0130.1500104.0001	REPORT NO:	PAGE NO: A-1

15-0417-01

UNIVERSAL ENGINEERING SCIENCES
BORING LOG

PROJECT NO.:	0130.1500104.0001
REPORT NO.:	1278329
PAGE:	B-2.1

PROJECT: ADDITIONAL GEOTECHNICAL EXPLORATION
MAITLAND CONCOURSE NORTH - STORMWATER
MAITLAND, ORANGE COUNTY, FLORIDA

BORING I.D.: **ES-1** SHEET: **1 of 1**
SECTION: 25 TOWNSHIP: 21 S RANGE: 29 E

CLIENT: RDMNC, LLC
LOCATION: SEE BORING LOCATION PLAN
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED

G.S. ELEVATION (ft): N.S. DATE STARTED: 10/13/15
WATER TABLE (ft): N.E. DATE FINISHED: 10/13/15
DATE OF READING: 10/13/15 DRILLED BY: ORL - DH/JC
EST. SHGWT (ft): >15 TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLE	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS LL	ATTERBERG LIMITS PI	K (FT/DAY)	ORG. CONT. (%)
0						Loose brown fine SAND [SP]						
	X	3-3-2	5									
	X	3-2-2	4			-- very loose						
5	X	2-1-2	3				2	4			26	
	X	2-2-2	4			-- light brown						
	X	2-2-3	5			-- loose						
10	X	2-3-4	7				2	5			22	
						-- orange brown						
15	X	3-3-3	6									
	X	3-4-3	7			-- dark brown						
20						BORING TERMINATED AT 20.0 FT.						
25												

W-08849.GPJ

UNIVERSAL ENGINEERING SCIENCES
BORING LOG

PROJECT NO.:	0130.1500104.0001
REPORT NO.:	1278329
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PROJECT: ADDITIONAL GEOTECHNICAL EXPLORATION
MAITLAND CONCOURSE NORTH - STORMWATER
MAITLAND, ORANGE COUNTY, FLORIDA

BORING I.D.: **ES-2** SHEET: **1 of 1**
SECTION: 25 TOWNSHIP: 21 S RANGE: 29 E

CLIENT: RDMNC, LLC
LOCATION: SEE BORING LOCATION PLAN
REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED

G.S. ELEVATION (ft): N.S. DATE STARTED: 10/13/15
WATER TABLE (ft): 5.0 DATE FINISHED: 10/13/15
DATE OF READING: 10/13/15 DRILLED BY: ORL - DH/JC
EST. SHGWT (ft): 4 TYPE OF SAMPLING: ASTM D 1586

DEPTH (FT.)	SAMPLE	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS LL	ATTERBERG LIMITS PI	K (FT/DAY)	ORG. CONT. (%)
0						Loose dark brown fine SAND [SP]						
		2-3-3	6			-- very loose, light brown						
		3-2-2	4	▽								
5		2-2-3	5	▼		-- loose, brown	5	20			14	
		3-4-5	9			-- light brown						
		3-4-6	10			-- medium dense, light gray brown						
10		4-5-7	12				5	20			11	
15		3-2-3	5			-- loose						
20		4-3-4	7			Loose light gray brown silty clayey fine SAND [SC-SM]	31	25				
						BORING TERMINATED AT 20.0 FT.						
25												

W-08849.GPJ

UNIVERSAL ENGINEERING SCIENCES
BORING LOG

PROJECT NO.:	0130.1500104.0001
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PROJECT: ADDITIONAL GEOTECHNICAL EXPLORATION
MAITLAND CONCOURSE NORTH - STORMWATER
MAITLAND, ORANGE COUNTY, FLORIDA

BORING I.D.: **ES-3** SHEET: **1 of 1**
SECTION: 25 TOWNSHIP: 21 S RANGE: 29 E

CLIENT: RDMNC, LLC

LOCATION: SEE BORING LOCATION PLAN

REMARKS: SHGWT = SEASONAL HIGH GROUNDWATER TABLE, N.S. = NOT SURVEYED

G.S. ELEVATION (ft):	N.S.	DATE STARTED:	10/13/15
WATER TABLE (ft):	5.5	DATE FINISHED:	10/13/15
DATE OF READING:	10/13/15	DRILLED BY:	ORL - DH/JC
EST. SHGWT (ft):	5	TYPE OF SAMPLING:	ASTM D 1586

DEPTH (FT.)	SAMPLE	BLOWS PER 6" INCREMENT	N BLOWS / FT	W.T.	SYMBOL	DESCRIPTION	-200 (%)	MC (%)	ATTERBERG LIMITS LL	ATTERBERG LIMITS PI	K (FT/DAY)	ORG. CONT. (%)
0						Very loose dark brown fine SAND [SP]						
		2-2-2	4			-- brown						
		2-2-2	4			-- loose, light brown						
5		2-3-4	7	▽ ▼			2	11			24	
		2-3-3	6			-- shade lighter						
		2-2-3	5									
10		2-3-4	7				1	23			27	
						-- light gray brown						
15		4-4-6	10									
						-- medium dense						
20		6-8-11	19			BORING TERMINATED AT 20.0 FT.						
25												

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