APPENDIX D

BMP CONCEPTUAL DRAWINGS

Village of Fo	ox Crossing
Stormwater	Quality Management Plan
McM No. FO	057-9-17-00221
August 2018	3

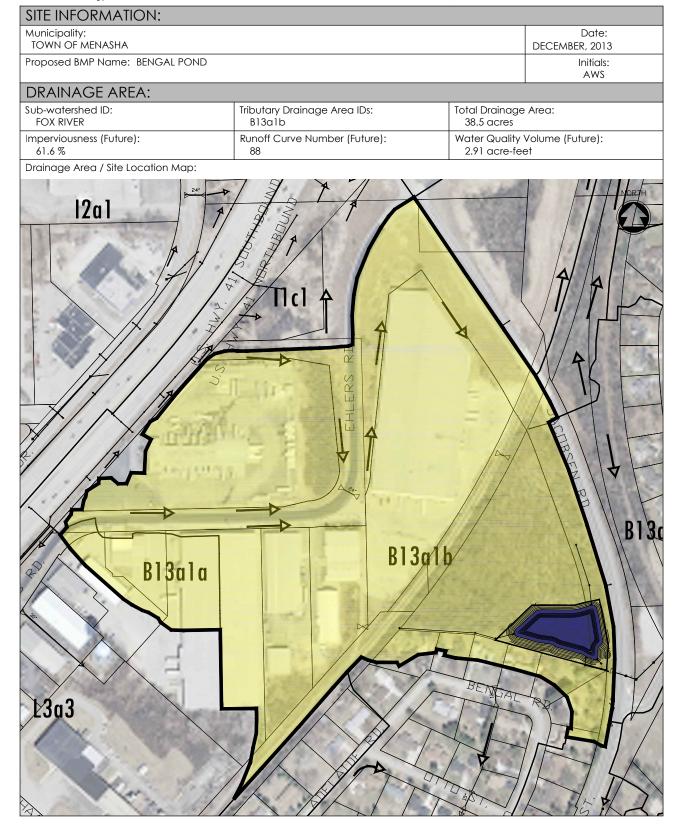


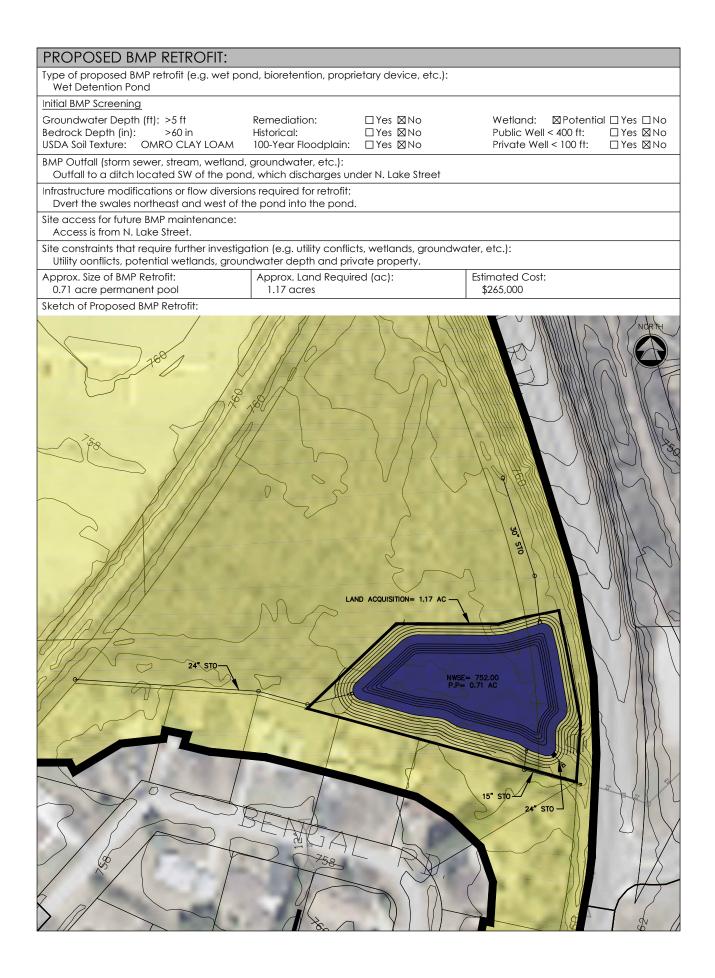
BMP COST EFFECTIVENESS SUMMARY

	BINE COST EFFECTIVENESS SUMINARY Total Suspended Solids (TSS) Total Phosphorus (TP) BMP Cost																										
						1011101	ispenaea 50	(155)			-		101111103	, iiorus (11)			Water		Don Cox			Average			Average		
					Before	After	РВМР	After			Before	After	РВМР	After	Total		Surface Area		Average Annual	Average	Capital & Average	Annual	TSS		Annual TP	ТР	
					Drainage	Drainage	TSS	Outfall	Total Load		Drainage	Drainage	TP	Outfall	Load		(acres)		0&M	O&M Costs	Annual	TSS Net Gain Over	Average Annual			Average Annual	
BMP ID	Sub- Watershed	DMD Destinent Statem Amore	BMP Name	Area (acres)	System (lbs)	System (lbs)	Removal %	Controls (lbs)	Reduction (lbs)	Net Gain (lbs)	* System (lbs)	System (lbs)	Removal %	Controls (lbs)	Reduction (lbs)	Net Gain* (lbs)	Biofilter Size (SF)	Estimated Capital Costs	Costs For 2012	Over 20 Years	O&M Costs (20 Yrs)	20 Years	Total Cost (\$/lbs)	TEE D		Fotal Cost	P Rank
EBMP-C22d2	Fox River	BMP Drainage System Areas	Prairie Lake Condos Pond (M.A.)	65.6	10,258	8,873	96.2%	391	9,867	8,483	41.82	38.62	55.0%	18.80	23.02	19.82	14.23	\$5,000	\$0	\$0	\$5,000	169,652	\$0.03	TSS Rank	396.47	(\$/lbs) TP \$13	7 Rank
EBMP-Q3d	Fox River	Q3d	Meadow Heights North Pond (M.A.)	36.8	8,694	6,792	90.4%	837	7,857	5,955	31.99	27.60	59.2%	13.06	18.93	14.54	0.72	\$5,000	\$0	\$0	\$5,000	119,102	\$0.04	2	290.85	\$17	2
EBMP-C19d EBMP-C3c	Fox River Fox River	C19d C3c	Cottagewood Condos (M.A.) New Hope Lutheran Church Pond (M.A.)	19.0 18.8	4,039 2,867	3,254 2.867	84.8% 83.5%	614 473	3,425 2,394	2,640 2,394	14.32 10.75	12.51 10.75	54.2% 58.6%	6.56 4.45	7.76 6.30	5.95 6.30	0.82	\$5,000 \$5,000	\$0 \$0	\$0 \$0	\$5,000 \$5,000	52,790 47,870	\$0.09 \$0.10	3	119.00 125.95	\$42 \$40	6 5
EBMP-C2b4	Fox River	C2b4	Golf Village Wet Pond (M.A.)	18.8	3,611	2,867	86.4%	473	3,120	2,394	10.75	10.75	57.9%	5.94	8.16	6.47	1.00	\$5,000	\$0 \$0	\$0 \$0	\$5,000	47,870	\$0.10	5	125.95	\$39	4
EBMP-D21d	Fox River	D21d	Winding Creek Estates South Pond (M.A.)	24.5	4,344	3,597	72.1%	1,213	3,131	2,384	17.51	15.79	49.2%	8.89	8.62	6.90	0.47	\$5,000	\$0	\$0	\$5,000	47,672	\$0.10	6	137.96	\$36	3
EBMP-L3a1	Fox River	L3a1	Wheeler Pond (M.A.)	8.7	2,896	2,669	82.1%	518	2,379	2,152	6.50	6.16	56.4%	2.83	3.67	3.33	0.25	\$5,000	\$0	\$0	\$5,000	43,034	\$0.12	7	66.62	\$75	8
EBMP-S2a2-2 EBMP-C19c	Fox River Fox River	S2a2-2 C19c	Minimax Storage Pond (M.A.) Bryce Pond (M.A.)	8.4 2.6	1,841 1,665	1,839 1,562	81.5% 92.9%	341 118	1,500 1,547	1,498 1,445	5.69 3.28	5.68	68.3% 64.1%	1.80 1.18	3.89 2.11	3.88 1.95	0.18	\$5,000 \$5,000	\$0 \$0	\$0 \$0	\$5,000 \$5,000	29,950 28,891	\$0.17 \$0.17	9	77.63 38.90	\$64 \$129	12
EBMP-D21c3	Fox River	D21c3	Winding Creek Estates Pond (M.A.)	10.3	1,885	1,532	81.2%	354	1,531	1,178	7.48	6.67	50.1%	3.74	3.74	2.93	0.45	\$5,000	\$0	\$0	\$5,000	23,568	\$0.21	10	58.62	\$85	9
EBMP-D20b2b1 EBMP-C22a1	Fox River	D20b2b1	Secura West Pond (M.A.)	13.9 5.3	3,393 1.145	1,767 904	81.9%	614 54	2,779	1,153 850	12.19 4.33	7.62	59.2%	4.98	7.22	2.64 1.83	1.90	\$5,000 \$5.000	\$0 \$0	\$0 \$0	\$5,000 \$5.000	23,053 17.001	\$0.22 \$0.29	11 12	52.90 36.58	\$95 \$137	10
EBMP-C22a1 EBMP-C7c	Fox River Fox River	C22a1 C7c	Meadow Heights Pond (M.A.) Jacobsen Creek Condo Pond 1 (M.A.)	3.9	1,145	835	95.3% 91.0%	95	959	740	3.61	3.11	55.1% 59.3%	1.94	2.38	1.65	0.23 0.31	\$5,000	\$0 \$0	\$0 \$0	\$5,000	14,801	\$0.29	12	32.74	\$153	13 16
EBMP-C7b	Fox River	C7b	Jacobsen Creek Condo Pond 2 (M.A.)	4.0	1,075	863	86.5%	145	930	718	3.80	3.32	56.2%	1.67	2.14	1.65	0.23	\$5,000	\$0	\$0	\$5,000	14,369	\$0.35	14	32.99	\$152	15
EBMP-Q2a	Fox River	Q2a	Gateway Meadows Pond (M.A.)	5.9	1,180	937	80.0%	236	944	701	4.56	4.00	60.0%	1.83	2.74	2.18	0.12	\$5,000	\$0	\$0	\$5,000	14,019	\$0.36	15	43.54		11
EBMP-S2a2-1 EBMP-D19a-1	Fox River Fox River	S2a2-1 D19a-1	Penske Pond (M.A.) Red D Mix Pond (M.A.)	3.5 2.7	785	785 720	85.6% 93.7%	113 71	671 1,065	671 649	2.40	2.40	73.7% 82.2%	0.63	1.77	1.77 0.81	0.17 0.26	\$5,000 \$5,000	\$0 \$0	\$0 \$0	\$5,000 \$5,000	13,429 12,979	\$0.37 \$0.39	16 17	35.43		14 18
EBMP-C2b1-3	Fox River	C2b1-3	Century Oaks Residential Care Pond (M.A.)	3.7	479	479	87.9%	58	421	421	1.97	1.97	56.1%	0.87	1.10	1.10	0.21	\$5,000	\$0	\$0	\$5,000	8,418	\$0.59	18	22.08		17
EBMP-I3a2	Fox River	13a2	Miron Office Expansion Biofilters (M.A.)	2.3	689	689	56.5%	300	390	390	1.70	1.70	30.0%	1.19	0.51	0.51	1,000	\$5,000	\$0	\$0 \$0	\$5,000	7,795	\$0.64	19	10.19		19
EBMP-C2b1-2 PBMP-I2a2	Fox River Fox River	C2b1-2 I2a2, I4a1, I4a3	RestorU Biofilters (M.A.) DOT Pond 6 (East of Jacobsen Road)	1.8 28.8	543 14,347	543 9,102	71.5% 79.4%	155 2,951	388 11,396	388 6,150	1.34 25.11	1.34	35.0% 60.1%	0.87 10.03	0.47 15.08	0.47 7.08	2,000	\$5,000 \$5,000	\$0 \$6,265	\$125,306	\$5,000 \$130,306	7,760 123,007	\$0.64 \$1.06	20	9.36		20 25
PBMP-S1d1	Fox River	EBMPs: S2a2-1, S2a2-2, PBMPs: S1d1, S2c3	Holly Pond	237.6	63,333	51,910	65.4%	21,913	41,420	29,997	184	159	47.5%	96.77	87.52	62.47	1.17	\$582,000	\$6,612	\$132,238	\$714,238	599,931	\$1.19	22	1,249.32		22
EBMP-I3a3b	Fox River	I3a3b	Miron East Parking Lot Biofilter (M.A.)	3.5	204	204	80.0%	41	163	163	1.29	1.29	35.0%	0.84	0.45	0.45	1,000	\$5,000	\$0	\$0	\$5,000	3,265	\$1.53	23	9.03		21
PBMP-C2b2a PBMP-S1d1 (ES)	Fox River	EBMPs: C2b1-1, C2b1-2, C2b1-3, PBMP-C2b2a EBMPs: S2a2-1, S2a2-2, PBMPs: S1d1, S2c3	DOT Pond 1 - American Drive (M.A.) Holly Pond w/Enhanced Settlement	19.1 237.6	5,446	4,330	78.3%	1,184	4,262	3,146	17.49	15.08	62.5% 85.0%	6.56 27.64	10.93	8.52	0.69	\$5,000 \$791,707	\$4,833	\$96,650	\$101,650 \$1,749.631	62,917 911,530	\$1.62 \$1.92	24	2.631.83		23 24
PBMP-I1c1	Fox River	l1c1	DOT Pond 7 - North of Ehlers Road (M.A.)	3.4	2,233	2,233	86.6%	298	1,934	1,934	4.57	4.57	69.7%	1.38	3.19	3.19	0.36	\$5,000	\$3,635	\$72,705	\$77,705	38,686	\$2.0	26	-,		27
PBMP-B17a-R	Fox River	B17a, G2a1	SCA Lake Pond	51.3	21,748	17,273	81.81%	3,956	17,792	13,317	39	31	58.97%	15.97	22.95	15.21	0.98	\$490,000	\$5,885	\$117,693	\$607,693	266,349	\$2.3	27	304.18	\$1,998	38
PBMP-B17a PBMP-M1a5-2	Fox River Fox River	B17a M1a5b, M1b1a, M1b1b, M1b3a, M1b3b, E9a2, E10a3	SCA Lake South Pond Midway Pond (DOT Pond 4), Future Expansion	26.3 91.0	11,532 25.839	9,668 14.551	82.64% 82.00%	2,002 4,651	9,530 21,188	7,666	19 74	16 37	59.22% 60.50%	7.78 29.17	11.30 44.67	8.66 7.65	0.51 4.61	\$285,000 \$100.000	\$4,179 \$19.868	\$83,589 \$397,354	\$368,589 \$497,354	153,313 197,998	\$2.4 \$2.5	28 29	-		41 50
PBMP-D16a2	Fox River	D16a2, D17a	Auto Pond	78.7	31,563	23,535	81.68%	5,782	25,781	17,752	56	42	60.71%	29.17	33.93	19.93	1.92	\$720,000	\$9,500	\$190,005	\$910,005	355,044	\$2.6	30	398.68	\$2,283	42
PBMP-C2a1	Fox River	C2a1	Fox Inn Pond	24.4	11,132	7,558	78.55%	2,388	8,744	5,170	22	16	62.82%	8.20	13.86	7.69	0.28	\$230,000	\$3,345	\$66,900	\$296,900	103,409	\$2.9	31			37
PBMP-M1a5 PBMP-B13a1b	Fox River Fox River	M1a5b, M1b1a, M1b1b, M1b3a, M1b3b B13a1b	Midway Pond (DOT Pond 4) Bengal Pond	43.8 12.8	14,379 7,563	11,376 6.383	82.00% 83.02%	2,588 1,284	11,791 6,279	8,788 5.099	34	27	60.50% 58.01%	13.58 6.12	20.80 8.46	13.72 6.70	6.56 0.71	\$5,000 \$265,000	\$27,387 \$4,905	\$547,740 \$98,102	\$552,740 \$363,102	175,751 101,979	\$3.1 \$3.6	32	_	\$2,014 \$2,708	39 46
PBMP-I3a3-1	Fox River	EBMP-I3a2, I3a3b PBMP-I3a3	SCA Office Pond Modification	22.3	5,329	4,306	83.39%	885	4,444	3,421	15	13	66.01%	5.04	9.78	8.09	0.71	\$165,000	\$4,143	\$82,864	\$247,864	68,413	\$3.6	34		\$1,531	30
PBMP-B16a	Fox River	B16a	SCA Lake North Pond Modification	16.3	5,172	4,293	74.49%	1,319	3,853	2,974	12	9	53.48%	5.57	6.41	3.70	0.10	\$192,000	\$1,294	\$25,889	\$217,889	59,471	\$3.7	35			47
PBMP-W10c PBMP-D23e	Fox River Fox River	W10b2, W10c D23c, D23d, D23e	Manitowoc Road Pond Deerpath Pond	164.8 29.0	30,705 5,999	12,821 4.806	77.20% 80.77%	7,001	23,704 4,845	5,820 3,652	122 23	54 20	53.61% 59.20%	56.62 9.43	65.43 13.69	-2.20 10.88	1.40 0.20	\$301,750 \$235,000	\$7,498 \$2,589	\$149,953 \$51,779	\$451,703 \$286,779	116,409 73.048	\$3.9 \$3.9	36			85 29
PBMP-C6a3	Fox River	C6a3	Plaza Pond	10.2	7,222	5,137	83.60%	1,134	6,037	3,952	14	11	70.72%	4.05	9.79	6.53	0.20	\$235,000	\$4,252	\$85,041	\$320,041	79,048	\$4.0	37			44
PBMP-C15f	Fox River	C15f	Tumblebrook Pond	50.1	11,651	8,977	80.26%	2,300	9,351	6,677	43	36	58.59%	17.75	25.12	18.10	0.51	\$500,000	\$4,179	\$83,589	\$583,589	133,533	\$4.4	39	362.05	\$1,612	32
EBMP-E2a1	Fox River	E2a2, E2a2	DOT Pond 2 - Racine Street (M.A.)	15.0	3,407	3,007	88.6%	388	3,018	2,619	12.29	11.43	67.9%	3.95	8.35	7.49	2.54	\$5,000	\$11,888	\$237,759	\$242,759	52,376	\$4.63	40			33
EBMP-G3a5 (ES) PBMP-D19a	Fox River Fox River	G3a5 EBMP-D19a-1, PBMP-D19a	Independence Pond w/Enhanced Settlement CTH BB Pond	154.4 34.1	57,988 14.375	17,681 8,082	90.00% 83.04%	5,799 2,438	52,190 11.937	11,882 5,644	113 26	61 15	85.00% 60.23%	17.01 10.21	96.39 15.46	43.78 4.82	1.50 1.17	\$194,687 \$425,000	\$45,479 \$6.612	\$909,589 \$132,238	\$1,104,276 \$557,238	237,637 112,883	\$4.6 \$4.9	41 42			28 57
PBMP-C4a	Fox River	C4a, C4d1	Christopher Pond	52.5	10,454	6,690	79.69%	2,123	8,330	4,567	39	28	59.55%	15.87	23.36	11.63	0.55	\$385,000	\$4,325	\$86,492	\$471,492	91,347	\$5.2	43	232.62		40
PBMP-C2b6 PBMP-W10b2	Fox River	EBMP-C2b4, PBMPs: C2b3, C2b5, C2b6	South American Drive Pond	55.8	13,143	6,115 9,994	81.59%	2,420	10,724	3,695	48	29 42	53.95%	22.15	25.95	6.61 0.37	0.81	\$290,000	\$5,268 \$5,304	\$105,358 \$106.083	\$395,358	73,908	\$5.3	44			48 74
PBMP-D17a	Fox River Fox River	W10b2 D17a	Manitowoc Road North Pond Bodoh Pond	125.0 38.9	24,297	6.887	78.82% 81.37%	5,146 2,635	19,151 11,510	4,848	27	14	56.26% 60.71%	41.61 10.51	53.51 16.24	3.29	0.82	\$415,000 \$360,000	\$5,812	\$106,083	\$521,083 \$476,242	96,961 85,034	\$5.4 \$5.6	45	_		60
PBMP-C4e2	Fox River	C4e2, C18b	Schildt Park Pond	51.3	9,277	7,993	77.19%	2,116	7,161	5,877	35	32	57.27%	14.98	20.07	17.19	0.46	\$580,000	\$3,998	\$79,961	\$659,961	117,536	\$5.6	47		\$1,920	36
PBMP-C3d2	Fox River	EBMP-C3c, PBMP-C3d2	Hope Pond	84.7	17,834	10,906	79.94%	3,577	14,256	7,329	64	45	57.81%	26.89	36.85	17.83	0.79	\$720,000	\$5,195	\$103,906	\$823,906	146,572	\$5.6	48			43
PBMP-W10c (ES) PBMP-C16a3	Fox River	W10b2, W10c C16a3	Manitowoc Road Pond w/Enhanced Settlement High Plains Meadows, 3rd Add.	164.8 17.1	30,705	12,821	90.00% 83.71%	3,071 427	27,635	9,751	122	54 9	85.00% 53.49%	18.31 4.48	103.74	36.11 4.06	1.40 0.27	\$466,569 \$150.000	\$37,761 \$3.309	\$755,218 \$66,175	\$1,221,787	195,014 34,379	\$6.3 \$6.3	49			35 45
PBMP-P1a5 (ES)	Fox River	EBMPs: P1a4, P1a5d1, PBMPs: P1a5b, P1a5d2	Tayco Pond Expansion w/Enhanced Settlement	347.3	71,603	23,916	90.00%	7,160	64,443	16,755	253	133	85.00%	37.96	215.10	94.64	6.84	\$300,662	\$92,082	\$1,841,648	\$2,142,310	335,104	\$6.4	51	1,892.87		26
PBMP-G1d	Fox River	G1d	Blair Pond	13.2	5,208	3,349	80.21%	1,031	4,178	2,318	11	7	59.04%	4.42	6.37	3.02	0.27	\$232,600	\$3,309	\$66,175	\$298,775	46,368	\$6.4	52	60.34		54
PBMP-D17b PBMP-C20a2	Fox River Fox River	D17b C20a2. C20e2	Joy Pond Dublin Pond	8.8 20.3	4,150 3,697	2,599 2.136	82.39% 81.12%	731 698	3,419 2.999	1,868 1,438	14	9	59.79% 63.92%	3.18 4.97	4.73 8.81	1.72 3.67	0.41 0.18	\$242,400 \$200.000	\$3,817 \$2,330	\$76,333 \$46,601	\$318,733 \$246,601	37,360 28,764	\$8.5 \$8.6	53 54	34.42	\$9,261 \$3.361	64 51
EBMP-I3b7 (ES)	Fox River	13b7	Cold Spring Pond w/Enhanced Settlement	152.6	49,509	10,199	90.00%	4,951	44,558	5,248	105	53	85.00%	15.74	89.17	37.19	2.29	\$191,261	\$47,680	\$953,609	\$1,144,870	104,960	\$10.9	55		\$1,539	31
PBMP-G3c3 PBMP-D24a	Fox River	G3c3	Green Bay Road Pond	30.4	6,002 3,484	2,830	80.32% 84.8%	1,181	4,821	1,649 773	22	11	61.5%	8.57 6.47	13.71	2.40	0.33	\$310,000	\$3,526	\$70,528	\$380,528	32,983	\$11.5	56			61
EBMP-F4a (ES)	Fox River Fox River	D24a F4a	Clayton Pond Palisades Pond w/Enhanced Settlement	22.5 71.3	3,484	1,301 3,801	84.8% 90.0%	528 1,514	13,630	2,287	15	25	57.0% 85.0%	7.99	8.58 45.30	0.23 17.50	0.23	\$125,000 \$110,199	\$2,977	\$59,546 \$471.608	\$184,546 \$581,807	15,463 45,736	\$11.9 \$12.7	57			73 34
PBMP-D20e1	Fox River	D20e1	Irish North Pond	8.1	1,636	1,636	80.0%	327	1,309	1,309	8	8	55.0%	3.44	4.20	4.20	0.55	\$279,400	\$4,325	\$86,492	\$365,892	26,180	\$14.0	59			52
PBMP-C4b2	Fox River	C4b2	Weatherwood Pond	22.2	5,155	1,933	83.9%	828	4,326	1,105	19	8	61.9%	7.20	11.66	0.66	0.23	\$250,000	\$2,977	\$59,546	\$309,546	22,098	\$14.0	60		\$23,592	70
PBMP-C17c EBMP-C22c3	Fox River Fox River	EBMP: C16a3, PBMPs: C16a7, C16a8, C16b, C17c C22c3	Sand Point Pond Prairie Lake Estates Pond (M.A.)	65.2 0.2	14,464 18	8,935 18	85.8% 80.0%	2,048 4	12,416 14	6,886 14	49 0.11	35 0.11	60.2% 50.0%	19.60 0.06	29.67 0.06	15.55 0.06	2.09 0.78	\$2,000,000 \$5,000	\$10,155 \$0	\$203,099 \$0	\$2,203,099 \$5,000	137,729 285	\$16.0 \$17.5	61 62		\$7,086 \$4,528	59 53
PBMP-C7a2	Fox River	C7a2, C8a5	Jacobsen Pond	98.4	16,096	4,914	80.9%	3,082	13,014	1,831	64	24	58.9%	26.36	37.82	-2.03	1.52	\$510,000	\$7,960	\$159,196	\$669,196	36,623	\$18.3	63		1 22 2	88
PBMP-C3m	Fox River	C4b2, C3m	Hildebrand Pond	26.2	6,299	2,014	83.7%	1,029	5,269	984	23	8	61.3%	8.84	14.02	-0.60	0.34	\$295,000	\$3,563	\$71,254	\$366,254	19,688	\$18.6	64			91
PBMP-C17c (ES) PBMP-C17c2 (ES)	Fox River	EBMP: C16a3, PBMPs: C16a7, C16a8, C16b, C17c EBMP: C16a3, PBMPs: C16a7, C16a8, C16b, C17c, C19a3	Sand Point Pond w/Enhanced Settlement Sand Point Pond - Alt 2 w/Enhanced Settlement	65.2 106.6	14,464 24,798	8,935 9,860	90.0% 90.0%	1,446 2.480	13,018 22.318	7,488	49	35	85.0% 85.0%	7.39 10.79	41.88 61.17	27.76	2.09 0.85	\$2,136,915 \$2.148,538	\$33,567 \$31,679	\$671,344 \$633,578	\$2,808,259 \$2,782,115	149,763 147,604	\$18.8 \$18.8	65 66	555.11	\$5,059 \$5,119	55 56
PBMP-N1a4	Neenah Slou	N1a4	Taft Pond	6.3	3,229	1,177	80.1%	643	2,586	534	8	3	63.7%	2.84	4.99	0.46	0.87	\$109,500	\$5,486	\$109,711	\$219,211	10,680	\$20.5	67	9.13	\$24,010	71
PBMP-C17c2	C D	EBMP: C16a3, PBMPs: C16a7, C16a8, C16b, C17c, C19a3	Sand Point Pond - Alt 2	106.6	24,798	9,860	80.0%	4,960	19,838	4,900	72	38	55.0%	32.38	39.58	5.59	0.55	\$2,000,000	\$4,325	\$86,492	\$2,086,492	98,008	\$21.3	68			69
EBMP-C3e2 (ES) EBMP-C5f-1	Fox River Fox River	C3e2 C5f-1	Shady Lane Pond w/Enhanced Settlement Tom's Drive In (M.A.)	51.5 0.02	14,244 13	2,778 13	90.0% 81.1%	1,424 3	12,820 11	1,353 11	42 0.02	16 0.02	85.0% 69.0%	6.32 0.01	35.82 0.02	9.86 0.02	0.92 0.14	\$118,250 \$5,000	\$24,497 \$0	\$489,932 \$0	\$608,182 \$5,000	27,064 215	\$22.5 \$23.2	69 70			49 68
PBMP-P1c	Fox River	Pic	Frances Pond	20.0	4,364	1,797	69.5%	1,332	3,033	465	16	7	49.7%	8.28	8.17	-1.25	0.14	\$197,300	\$1,294	\$25,889	\$223,189	9,307	\$24.0	71			84
PBMP-C7e	Fox River	C7e	Kimball Pond	6.4	1,533	1,095	81.3%	286	1,247	809	5	5	59.3%	2.19	3.19	2.38	0.31	\$320,000	\$3,454	\$69,077	\$389,077	16,177	\$24.1	72	47.61	\$8,173	62
PBMP-C20e1 PBMP-G4a3 (ES)	Fox River Fox River	C20e1 G4a3	American Drive West Pond STH 150 Pond w/Enhanced Settlement	8.1 85.3	1,636 15,247	1,636 4,546	83.1% 90.0%	277 1,525	1,359 13,722	1,359 3,021	8 56	8	63.8% 85.0%	2.76 8.40	4.88 47.57	4.88 9.00	0.84	\$560,000 \$949,531	\$5,377 \$32,818	\$107,535 \$656,366	\$667,535 \$1,605,897	27,188 60,428	\$24.6 \$26.6	73			58 63
PBMP-C9a	Fox River	C9a	Symphony Pond	18.0	4,030	1,012	83.5%	667	3,363	345	14	4	60.9%	5.63	8.78	-1.32	0.26	\$130,000	\$3,272	\$65,449	\$195,449	6,904	\$28.3	74		-\$7,420	82
PBMP-P1a5	Fox River	EBMPs: P1a4, P1a5d1, PBMPs: P1a5b, P1a5d2	Tayco Pond Expansion	347.3	71,603	23,916	68.0%	22,913	48,690	1,002	253	133	48.0%	131.59	121.47	1.01	6.84	\$0	\$28,467	\$569,334	\$569,334	20,049	\$28.4	76	20.24	\$28,123	72
PBMP-G4a4b2 (ES) PBMP-C6b3b	Fox River Fox River	G4a3, C8d2 EBMP-C6b3a, PBMP-C6b3b	STH 150 - Alt 2 w/Enhanced Settlement	107.2 52.1	19,835	4,846 1,824	90.0% 81.7%	1,983 1,220	17,851	2,862 604	73 29	19	85.0%	10.89 9.98	61.69	7.76	0.85 4.66	\$1,169,890	\$36,921	\$738,426 \$401.210	\$1,908,316 \$406,210	57,243 12,077	\$33.3 \$33.6	77			65 66
PBMP-C6b3b PBMP-D20e3	Fox River Fox River	D20e3	Gateway Pond Irish Middle Pond	52.1	6,668 368	1,824 368	81.7% 80.0%	1,220	5,448 295	295	29	12 2	65.8% 55.0%	9.98 0.91	19.19 1.11	1.63 1.11	4.66 0.55	\$5,000 \$210,900	\$20,060 \$4,325	\$401,210 \$86,492	\$406,210 \$297,392	5,891	\$33.6 \$50.5	78 79			66
РВМР-СЗј	Fox River	C3j	District Pond	13.4	2,772	895	79.9%	558	2,215	337	11	4	58.1%	4.45	6.18	-0.86	0.25	\$289,000	\$3,236	\$64,723	\$353,723	6,742	\$52.5	80	-17.13 ·	-\$20,650	89
PBMP-G4a3 PBMP-G4c	Fox River	G4a3	STH 150 Pond	85.3 34.7	15,247	4,546	75.3%	3,763	11,484	783	56	17	54.3%	25.57	30.40	-8.17	0.86	\$796,500	\$5,449	\$108,986	\$905,486	15,663	\$57.8	81			80
PBMP-G4c PBMP-D20b2b2	Fox River Fox River	G4c D20b2b2	Deerwood Pond Fischer Pond	34.7	6,424 127	1,491 127	80.3% 80.0%	1,268 25	5,157	224 102	25	5	59.5% 55.0%	9.94 0.14	14.62 0.17	-4.70 0.17	0.31 4.55	\$325,000 \$5,000	\$3,454 \$19,636	\$69,077 \$392,727	\$394,077 \$397,727	4,476 2,034	\$88.0 \$195.5	82 83			79 75
PBMP-G1f2	Fox River	G1f1, G1f2, G2d1, G2d2	Chapman Pond	12.6	2,511	597	82.3%	444	2,067	153	9	3	55.0%	4.20	5.14	-1.51	1.21	\$514,250	\$6,766	\$135,319	\$649,569	3,055	\$212.6	84	-30.29	-\$21,442	90
PBMP-L3a3	Fox River	EBMP-L3a1, PBMP-L3a3	Woodward Pond	19.4	7,055	1,256	83.50%	1,164	5,891	91	17	5	59.47%	6.80	9.98	-1.71	0.68	\$325,000	\$4,796	\$95,925	\$420,925	1,827	\$230.3	85	-34.24	-\$12,295	86
PBMP-G1b	Fox River	EBMPs: G3a5, G4a5a-1, 2, 3, PBMPs: G1b, G2a1, G2c, G3a6, G3c3, G4a3, G4c, G4e, G5a, G5c	Winchester Pond	473.1	136,835	52,908	51.3%	66,666	70,169	-13,758	360	158	35.5%	232.13	127.65	-74.28	3.12	\$412,500	\$14,122	\$282,444	\$694,944	-275,151	-\$2.5	86	-1,485.53	-\$468	76
PBMP-G5a	Fox River	G5a	Liberty Pond	32.0	6,140	508	79.1%	1,285	4,856	-776	24	2	56.2%	10.69	13.69	-8.31	0.55	\$267,500	\$4,325	\$86,492	\$353,992	-15,523	-\$22.8	87	-166.23	-\$2,130	77
PBMP-C19a3	Fox River	C19a3	Dietz Pond	41.4	10,334	925	85.4%	1,510	8,824	-584	23	3	68.3%	7.20	15.49	-4.37	1.00	\$535,000	\$5,957	\$119,144	\$654,144	-11,687	-\$56.0	88			83
PBMP-G5c PBMP-L3a3-2	Fox River Fox River	G5c L3a3-2	Silverwood Pond Haase Pond	17.9 6.1	4,277 3,279	354 739	83.7% 75.6%	695 800	3,582 2,479	-341 -61	16	2	62.0% 53.4%	5.99 2.73	9.76 3.13	-4.46 -1.14	0.18	\$480,000 \$222,000	\$2,330 \$3,107	\$46,601 \$62,134	\$526,601 \$284,134	-6,826 -1,220	-\$77.1 -\$233.0	89 90			81 87
PBMP-C6c1	Fox River	C6c1, C6c2	Shangra Pond	6.6	729	98	79.0%	153	575	-55	3	1	62.8%	1.10	1.85	-1.14	1.05	\$222,000	\$6,150	\$122,995	\$627,995	-1,220	-\$255.0	90			92
PBMP-C8d1	Fox River	C8d1	Kay Pond	1.8	198	6	77.8%	44	154	-38	1	0	56.9%	0.36	0.48	-0.32	0.64	\$435,000	\$4,651	\$93,022	\$528,022	-759	-\$695.9	92	-6.45 ·	-\$81,917	93
PBMP-G4a3b PBMP-C8d1 (ES)	Fox River Fox River	G4a3, C8d2 C8d1	STH 150 - Alt 2	107.2	19,835 198	4,846 6	75.3% 90.0%	4,895 20	14,940 178	-50 -14	73	19	54.3% 85.0%	33.15	39.42	-14.50	0.54	\$1,000,000	\$4,288	\$85,766	\$1,085,766	-993	-\$1,093.7 -\$3.824.2	93 94			78 94
PBMP-C8d1 (ES) Note: Includes Street sw		C801 h efficiency street sweeper, twice per month, with parking controls.	Kay Pond w/Enhanced Settlement	1.8	198	0	90.0%	20	1/8	-14	1 1	0	80.U%	0.13	0.71	-0.09	0.64	\$558,016	\$24,651	\$493,018	\$1,051,034	-275	-\$3,824.2	94	-1.74 -	\$605,122	94
	., ,	. , ,																									



POTENTIAL STORMWATER BMP RETROFIT BMP ID: P-BMP-B13q1b



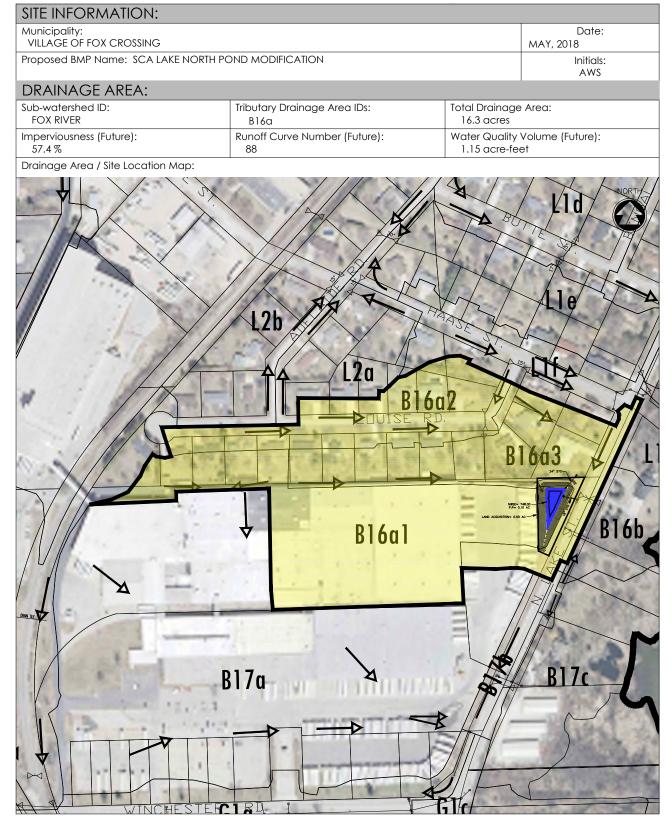


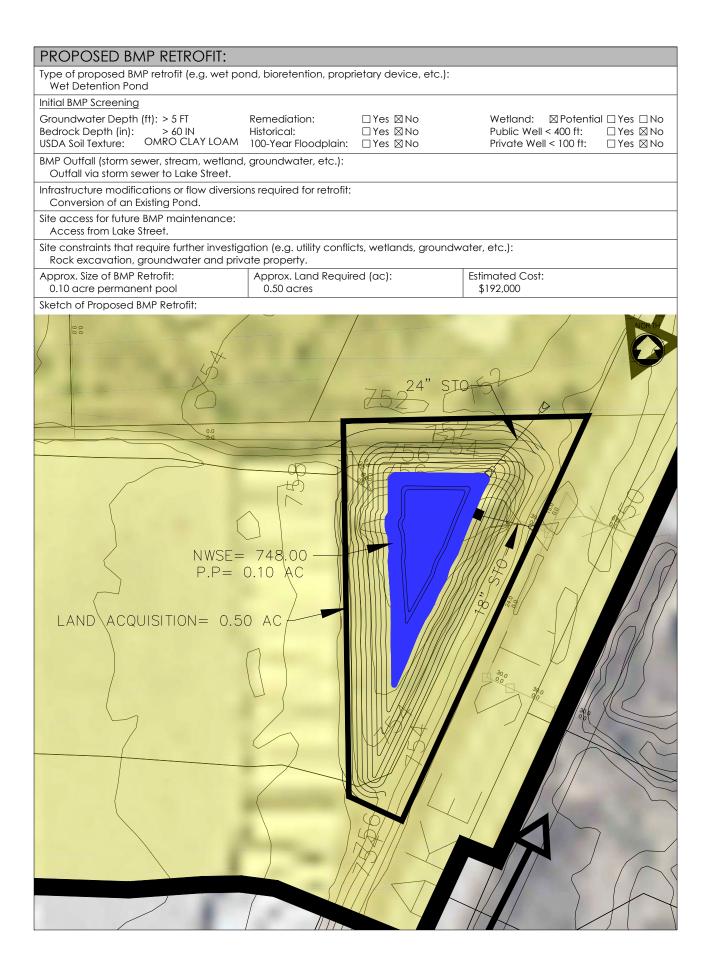


POTENTIAL STORMWATER BMP RETROFIT

BMP ID: P-BMP-B16a

McM PROJECT NO: F0057-9-17-00221

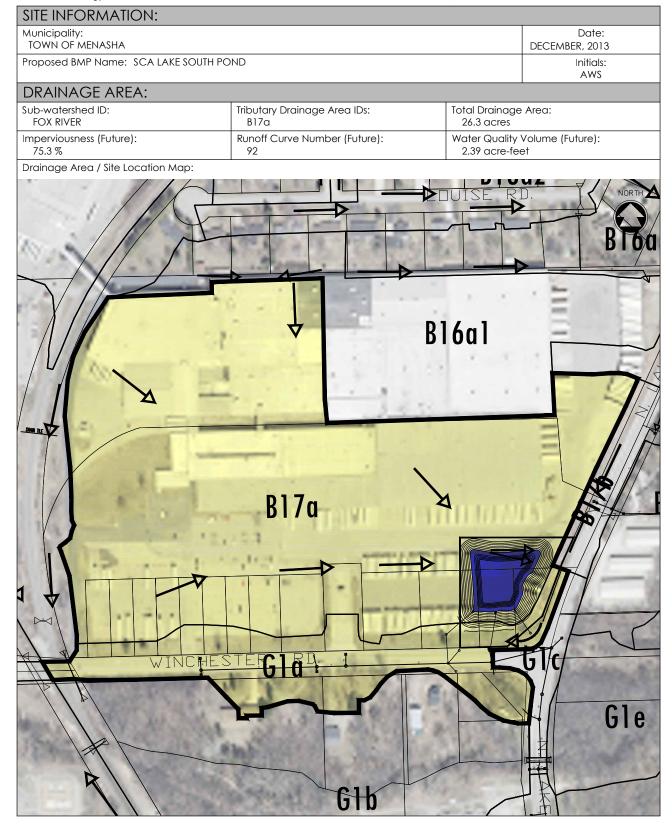


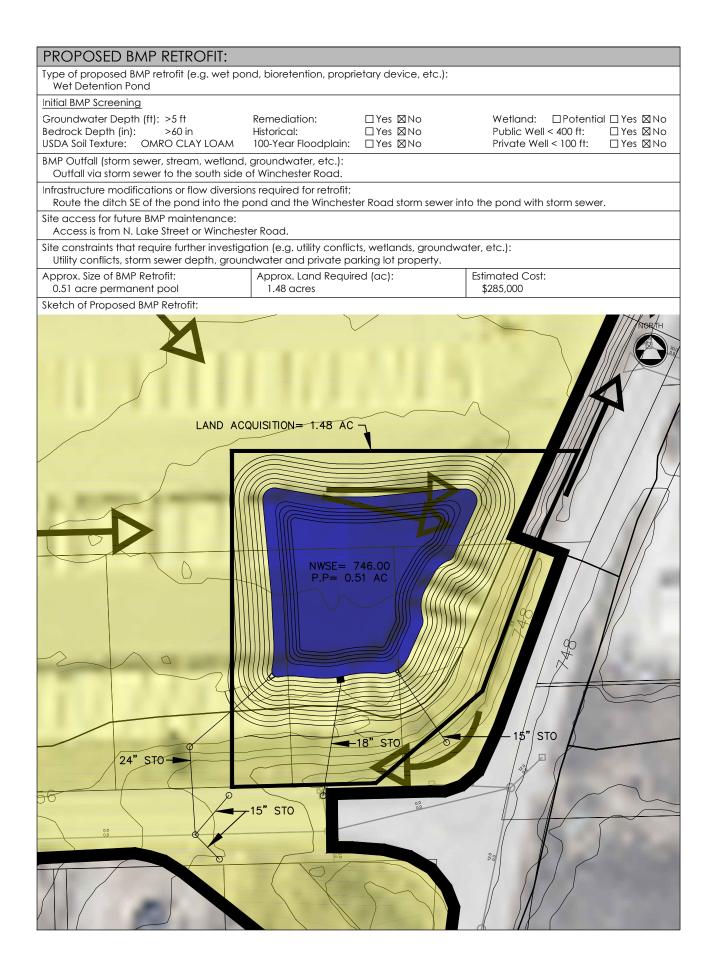




POTENTIAL STORMWATER BMP RETROFIT

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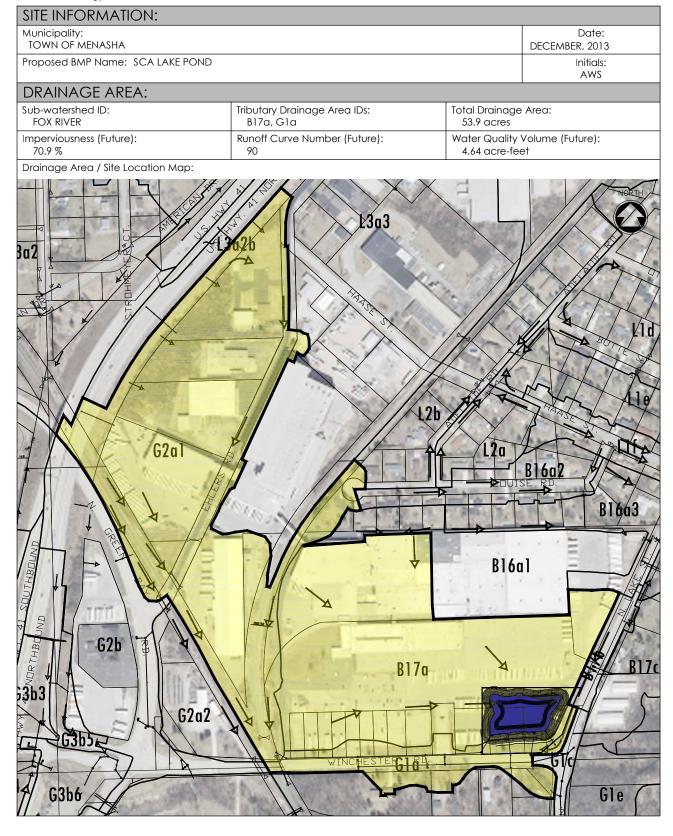


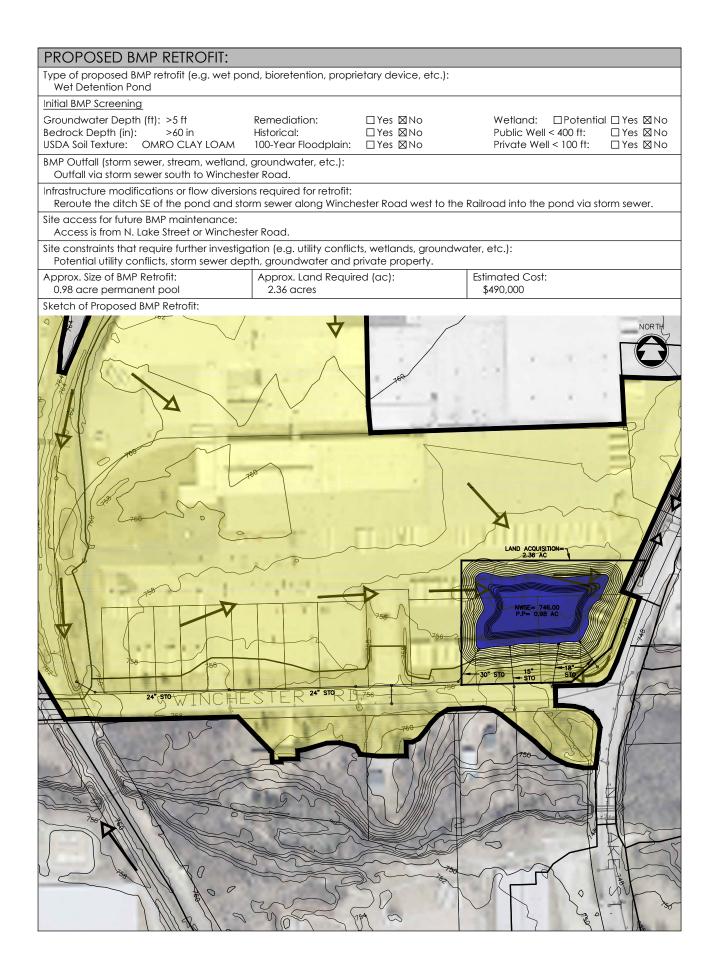




POTENTIAL STORMWATER BMP RETROFIT

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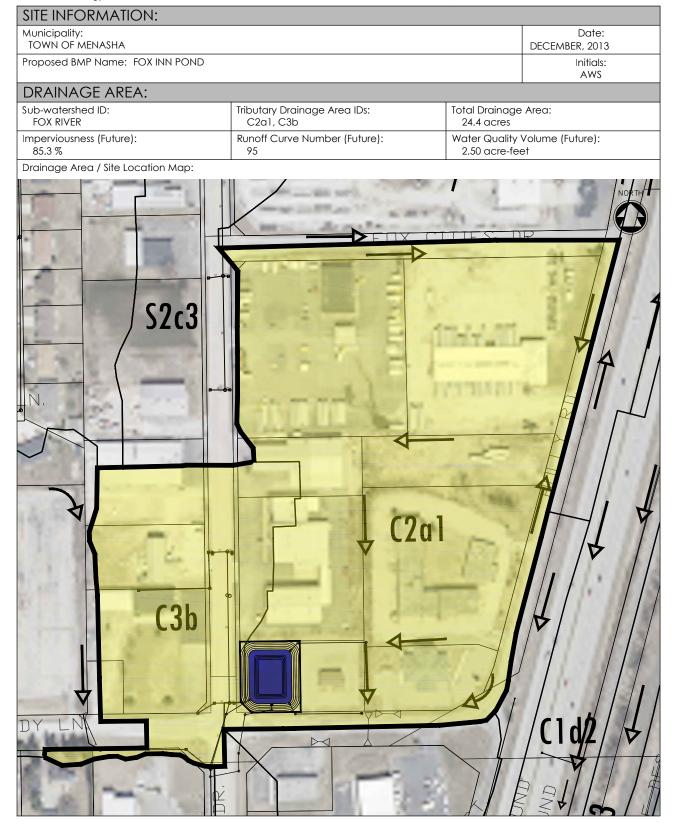


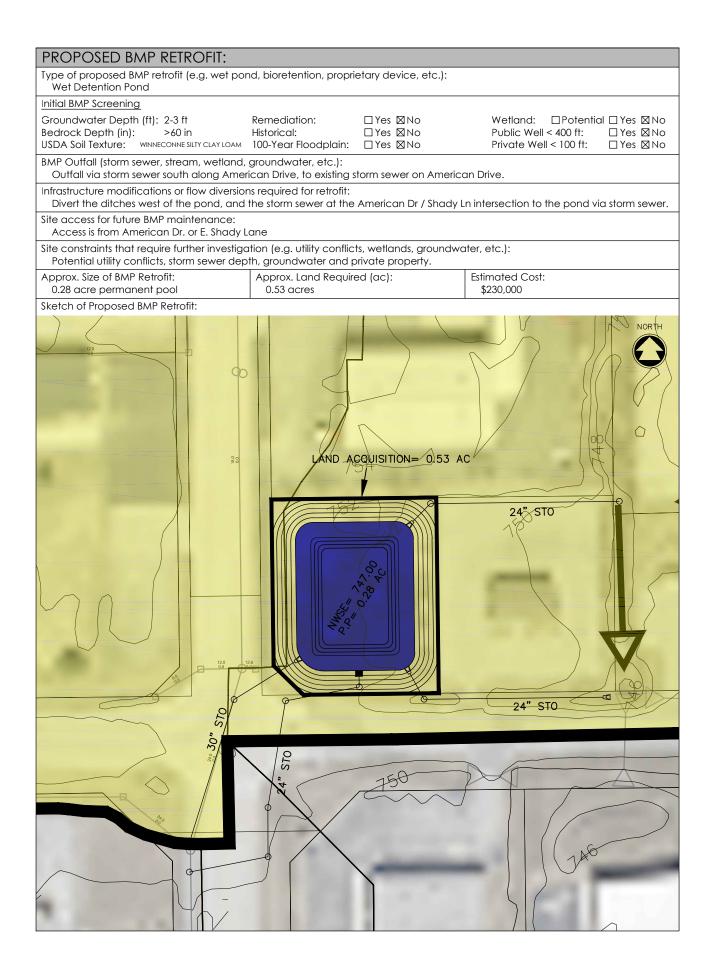




POTENTIAL STORMWATER BMP RETROFIT

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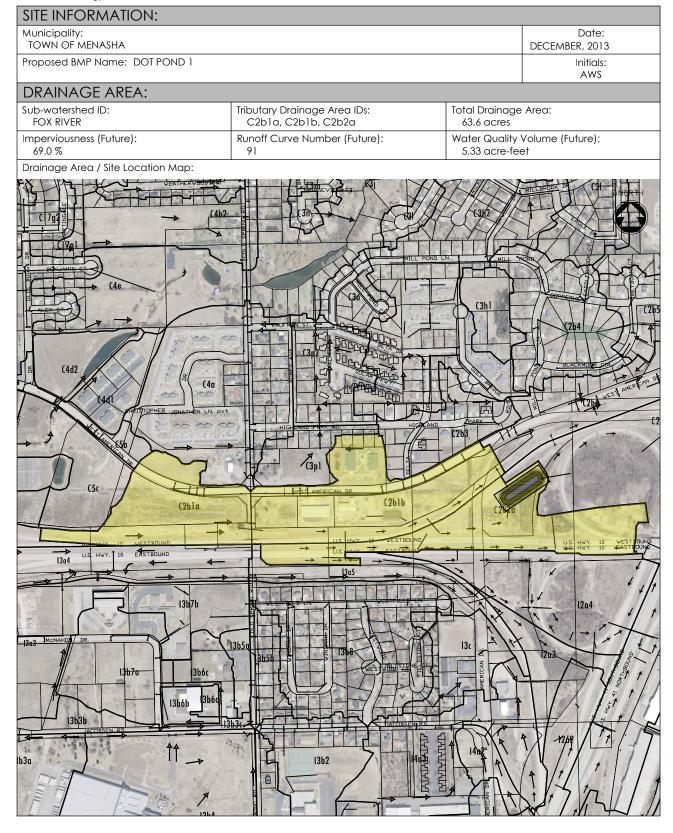


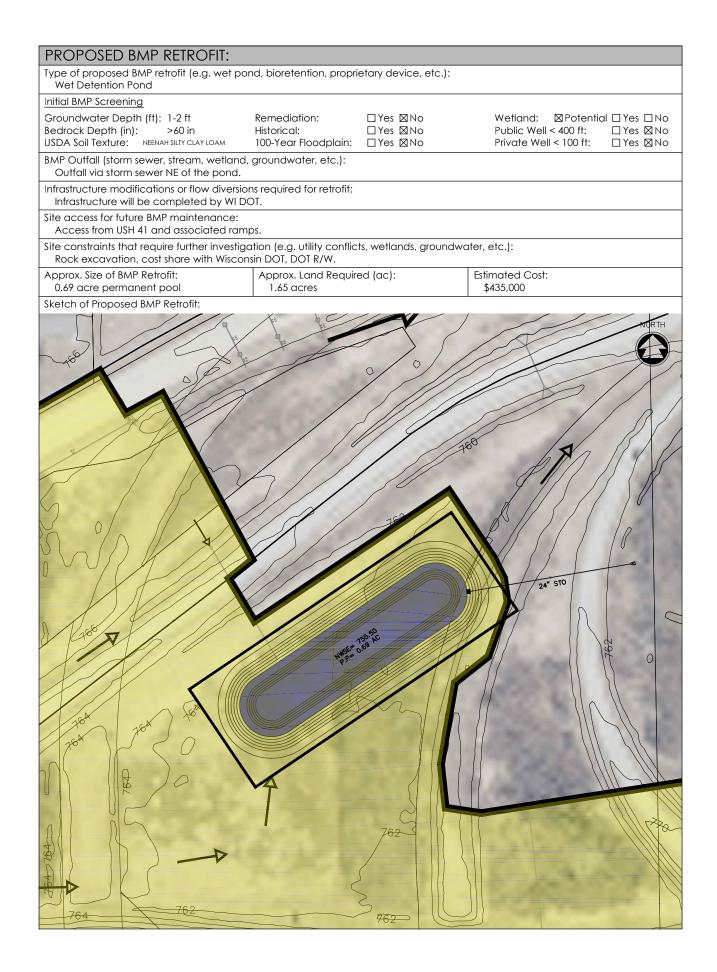




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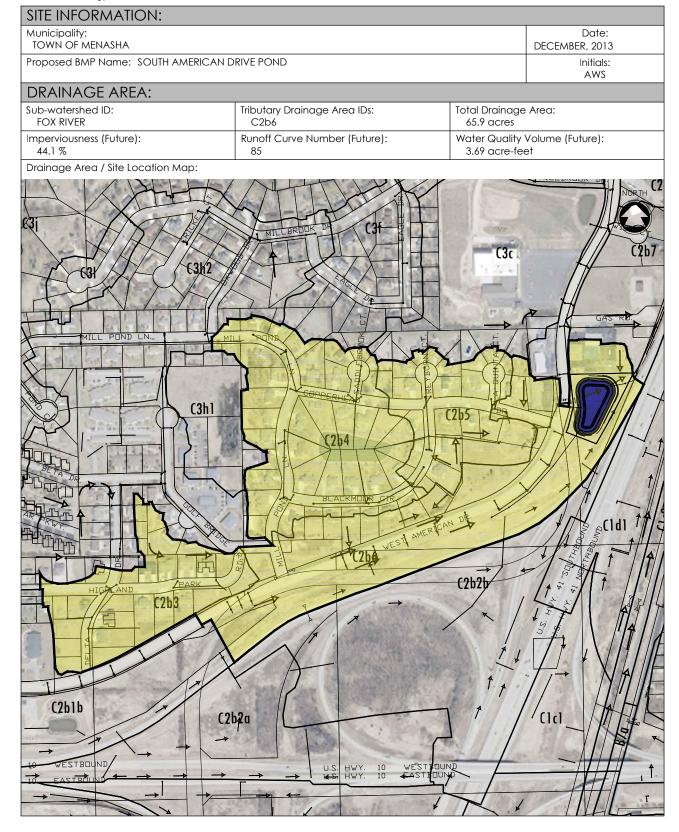


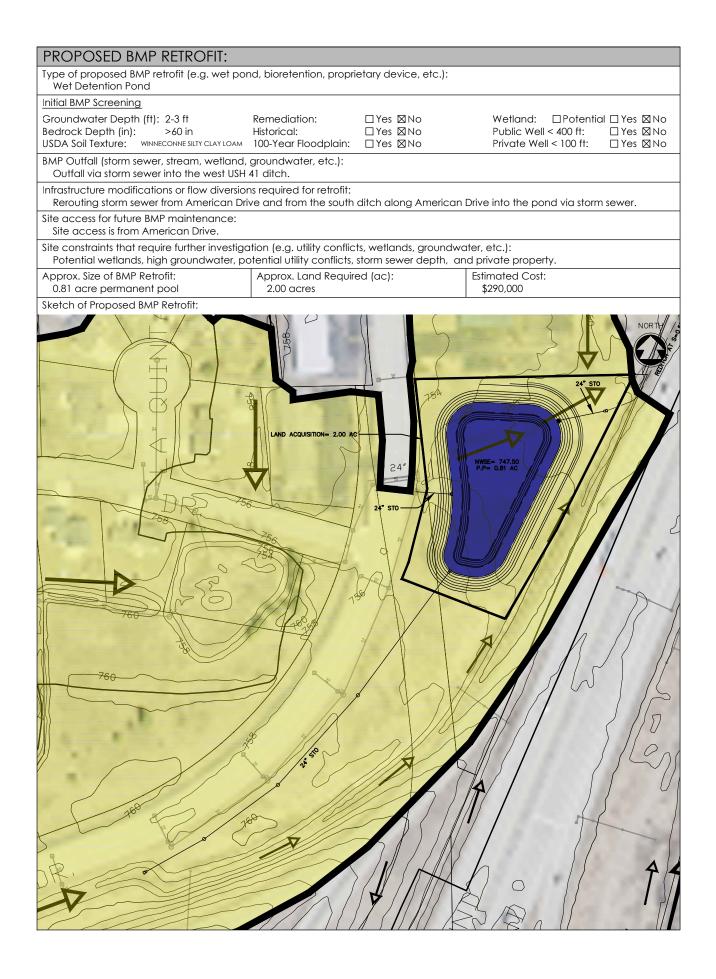




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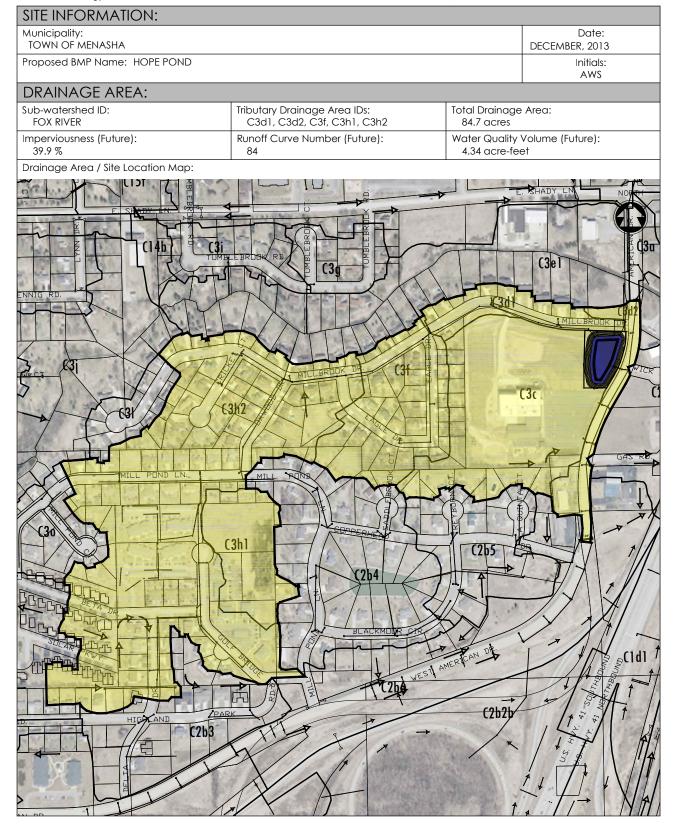


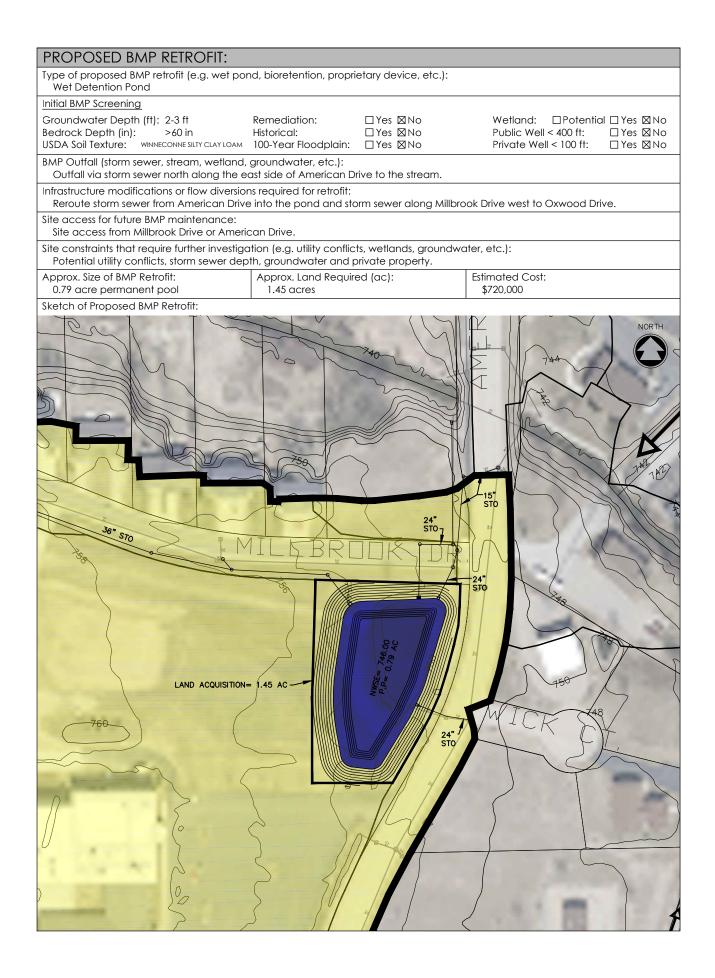




POTENTIAL STORMWATER BMP RETROFIT

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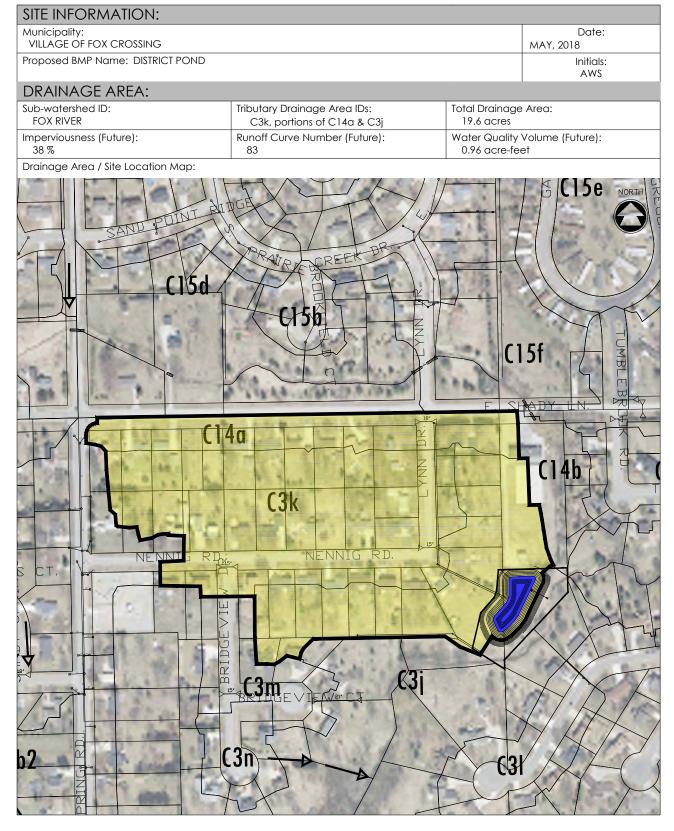


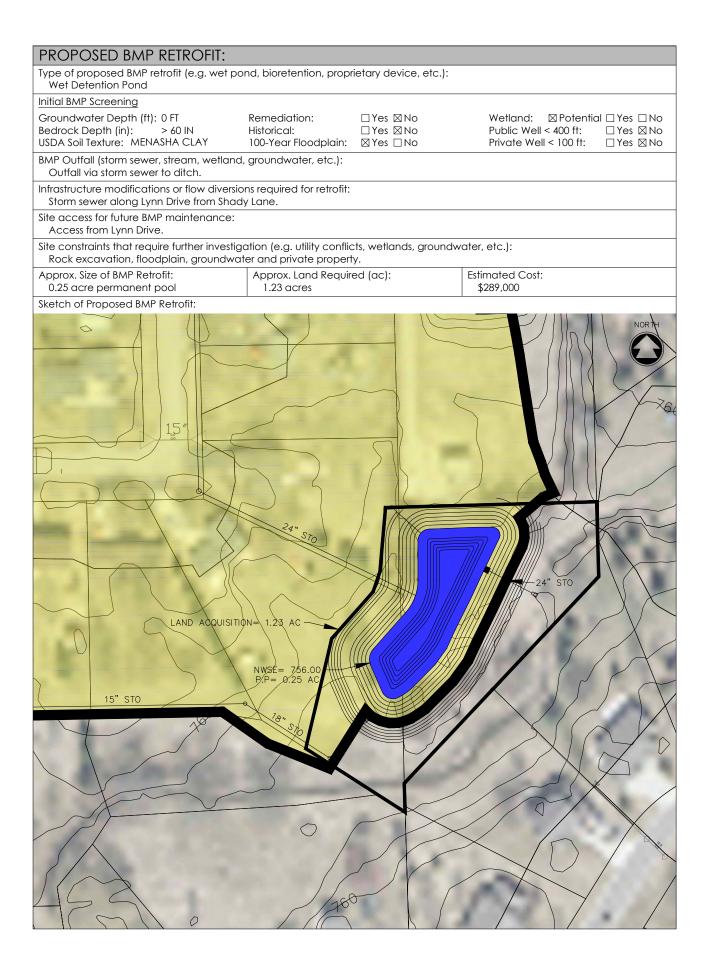


POTENTIAL STORMWATER BMP RETROFIT

BMP ID: P-BMP-C3j

McM PROJECT NO: F0057-9-17-00221

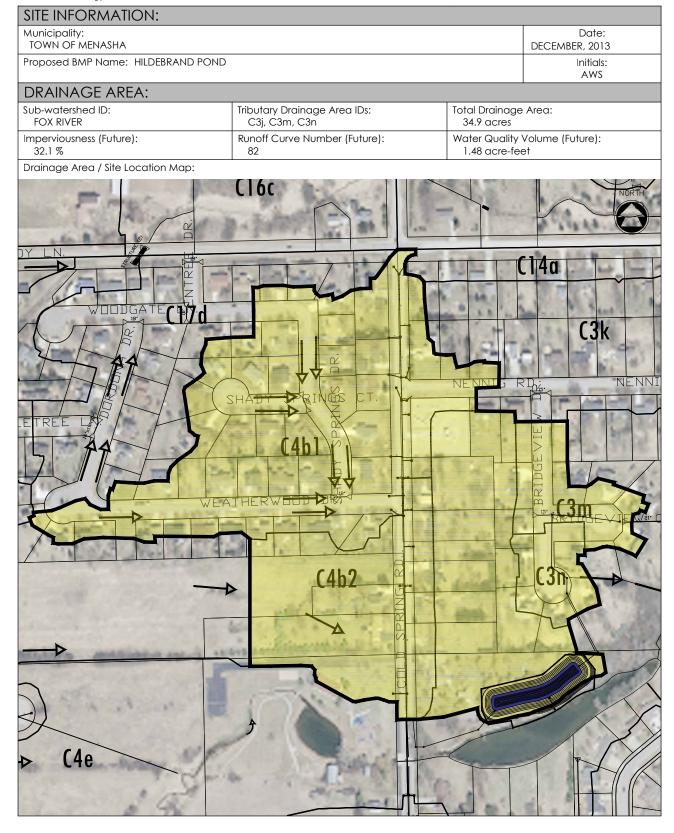


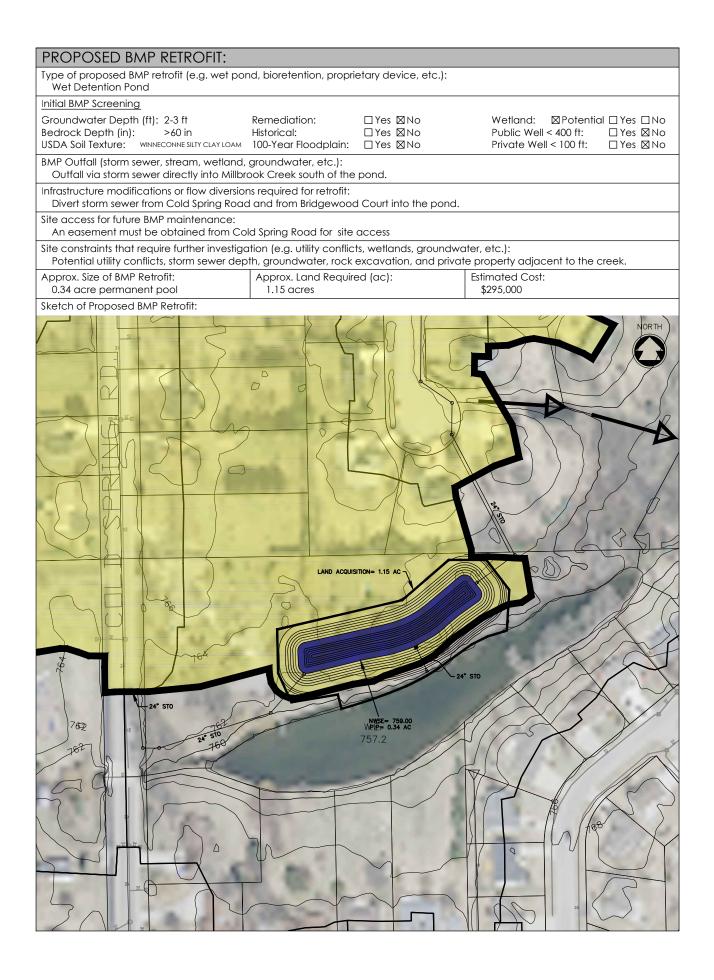




POTENTIAL STORMWATER BMP RETROFIT

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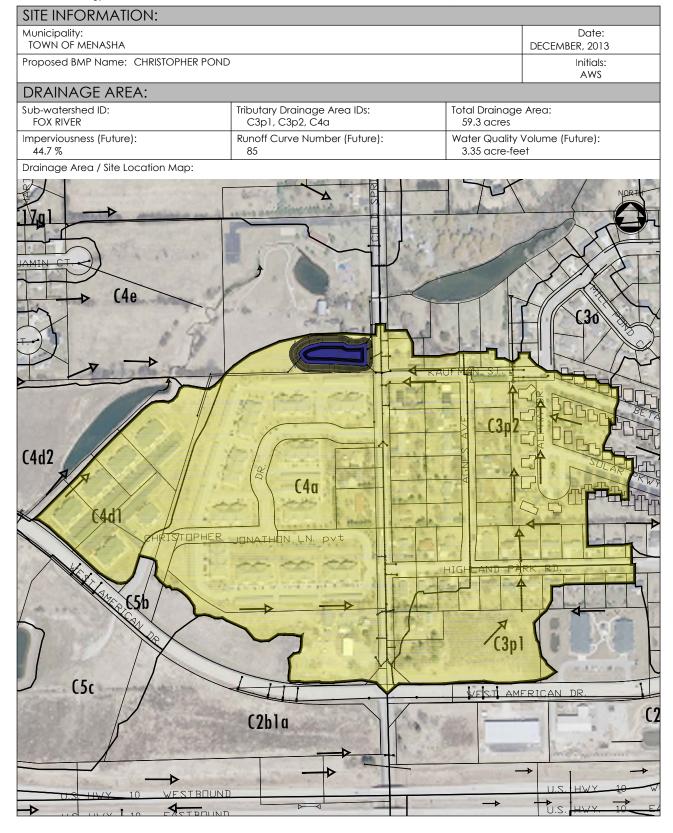


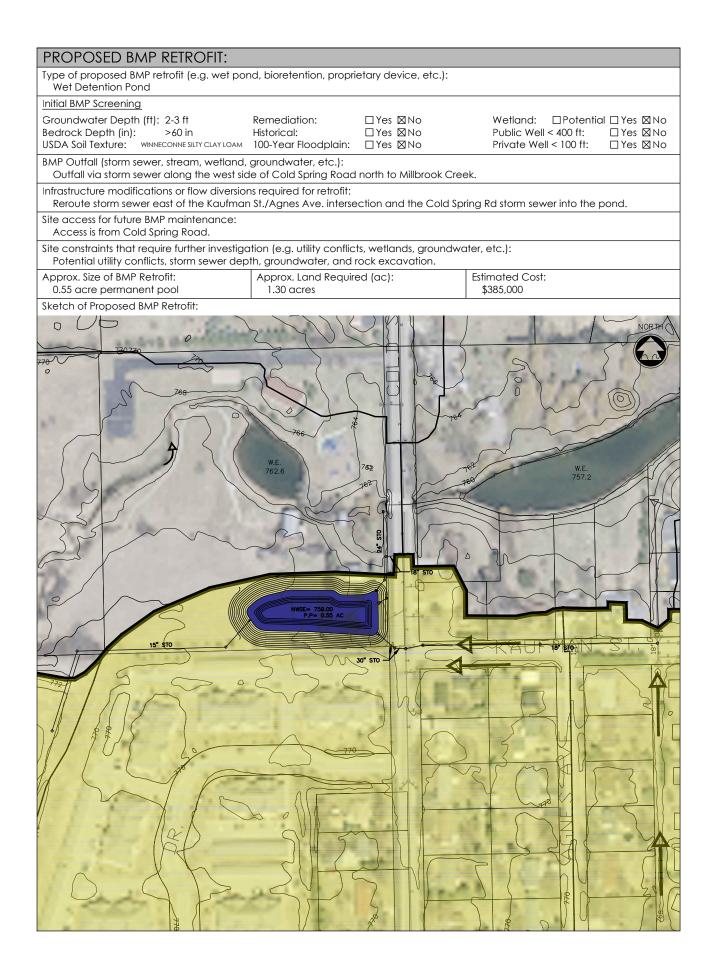




POTENTIAL STORMWATER BMP RETROFIT

BMP ID: P-BMP-C4a

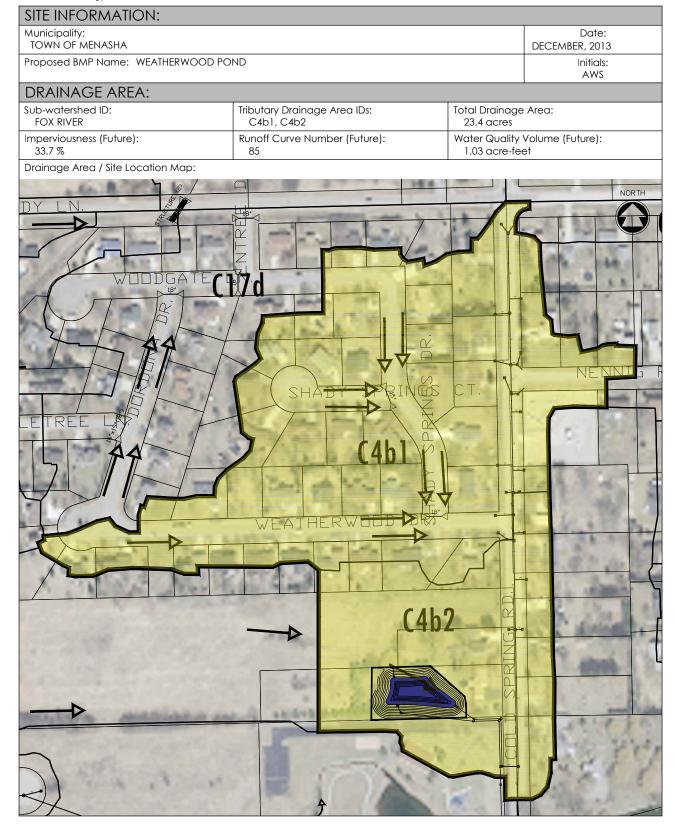


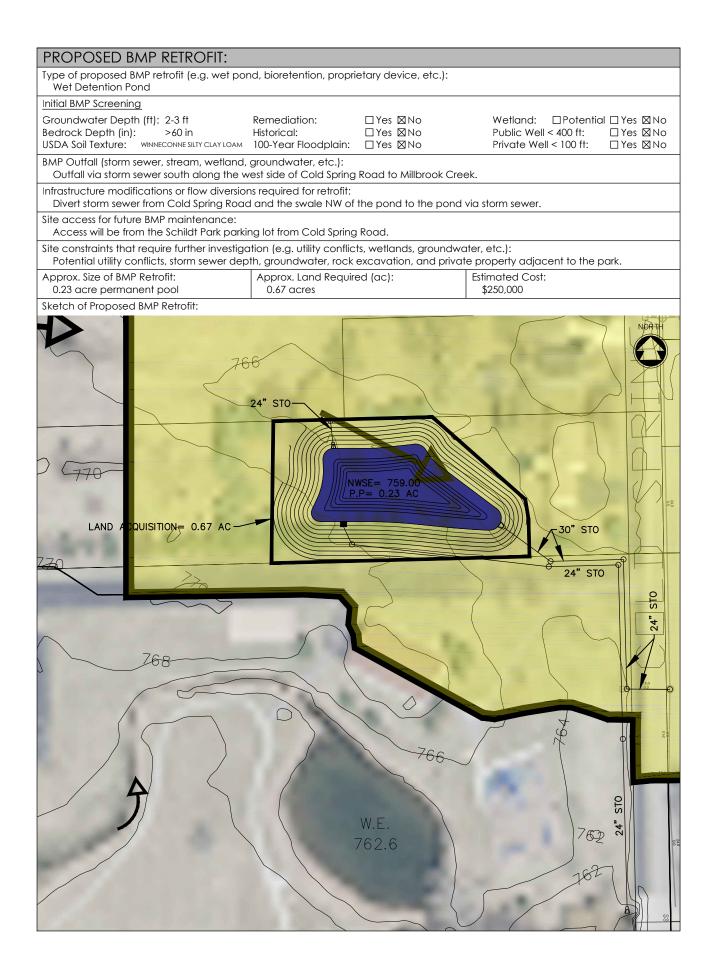




POTENTIAL STORMWATER BMP RETROFIT

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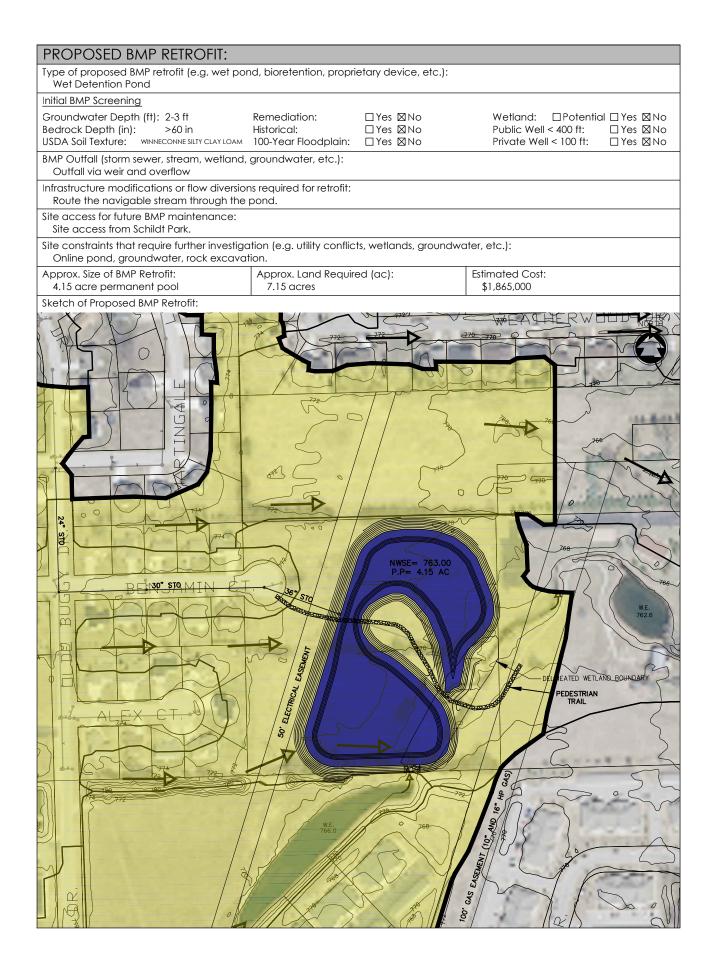




POTENTIAL STORMWATER BMP RETROFIT

BMP ID: P-BMP-C4d2

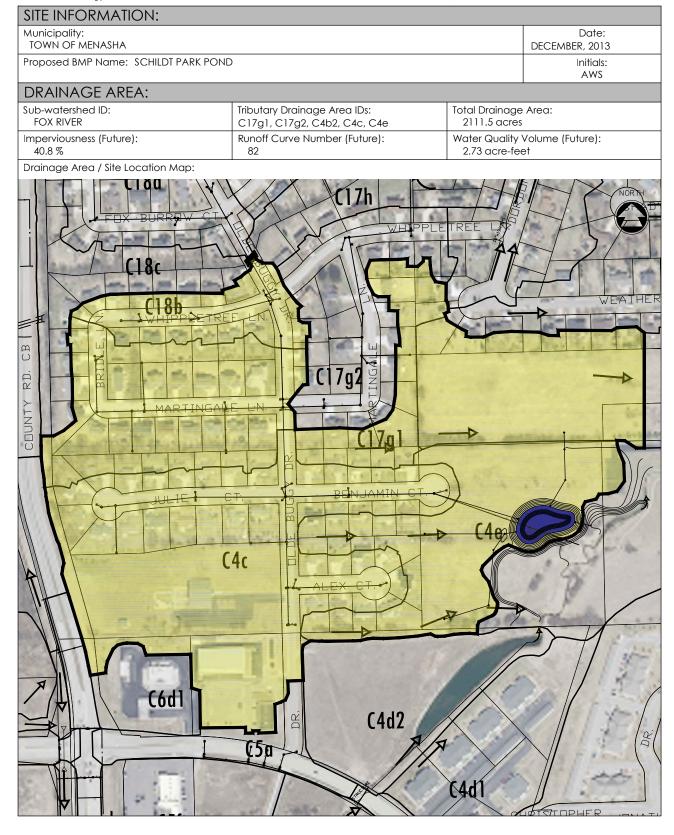
SITE INFORMATION:								
Municipality: TOWN OF MENASHA	Date: DECEMBER, 2013							
Proposed BMP Name: MILL CREEK POND	Initials: AWS							
DRAINAGE AREA:								
Sub-watershed ID: FOX RIVER	Total Drainage Area: 2111.5 acres							
Imperviousness (Future): 52.2 %	erviousness (Future): Runoff Curve Number (Future): Water Qualit							
Drainage Area / Site Location Map:								

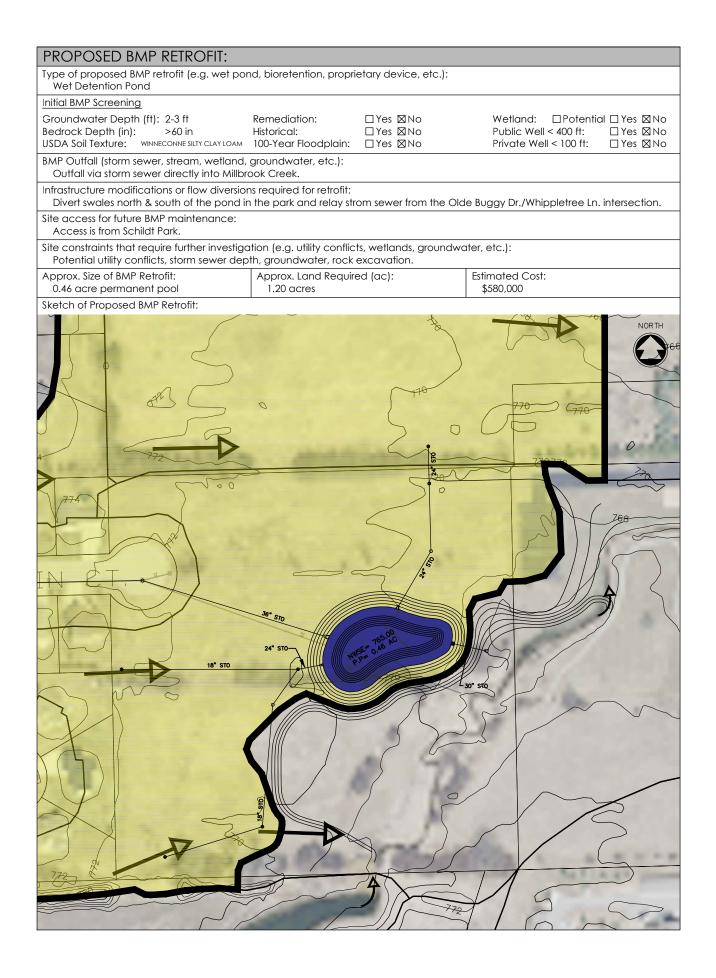




POTENTIAL STORMWATER BMP RETROFIT

BMP ID: P-BMP-C4e2

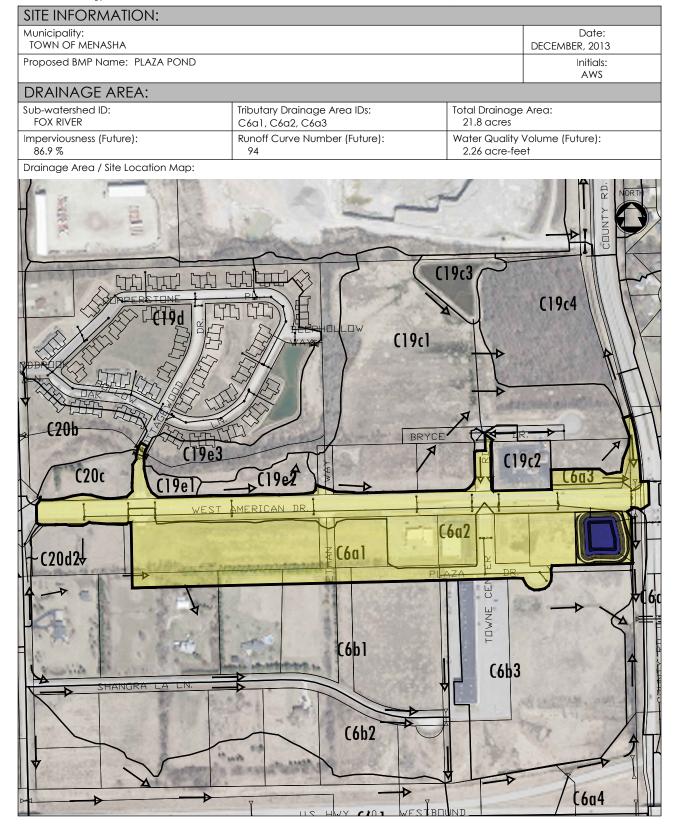


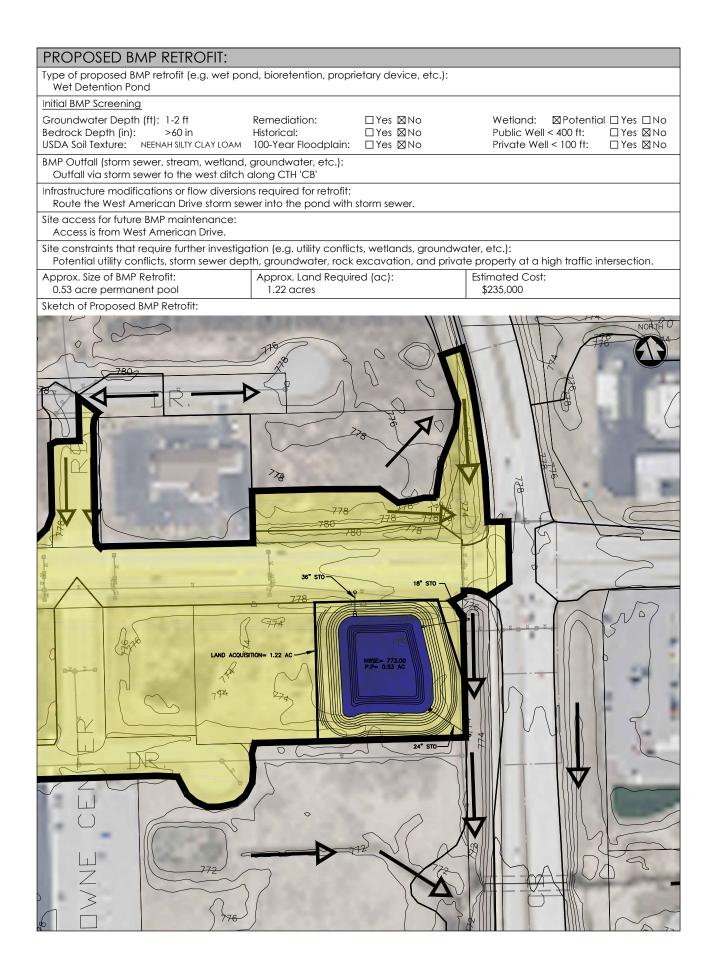




POTENTIAL STORMWATER BMP RETROFIT

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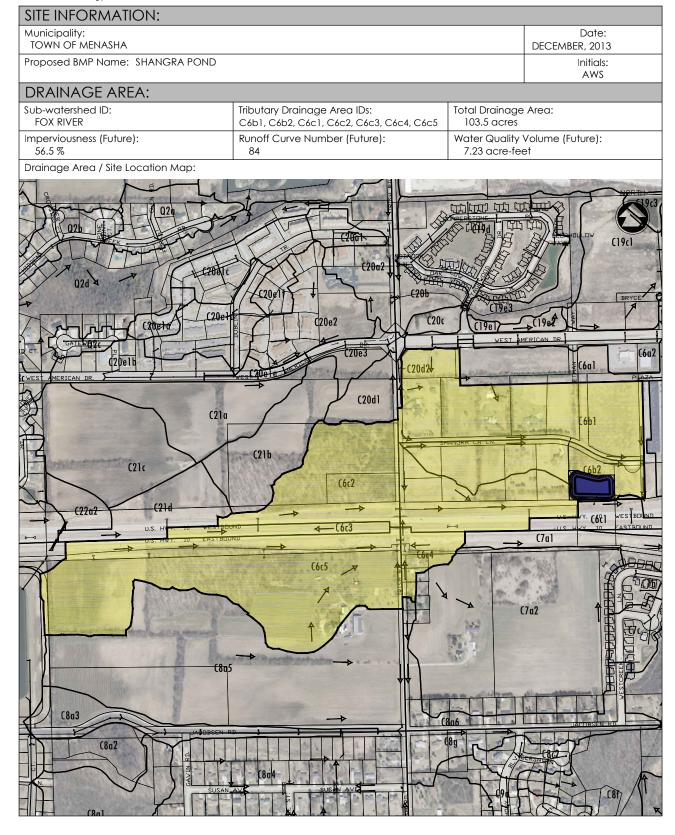


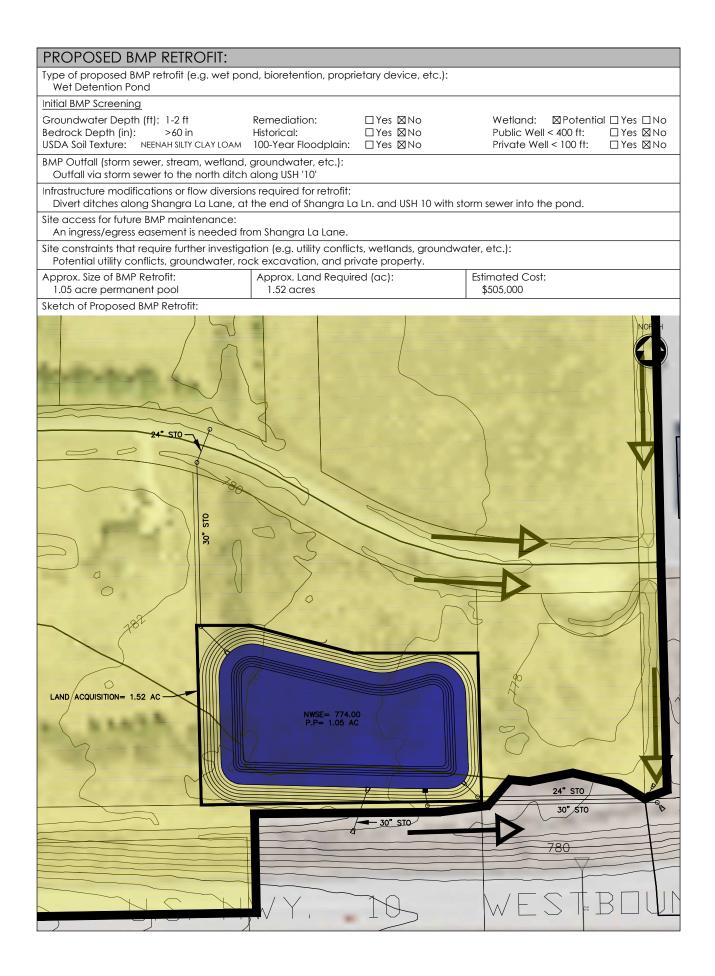




POTENTIAL STORMWATER BMP RETROFIT

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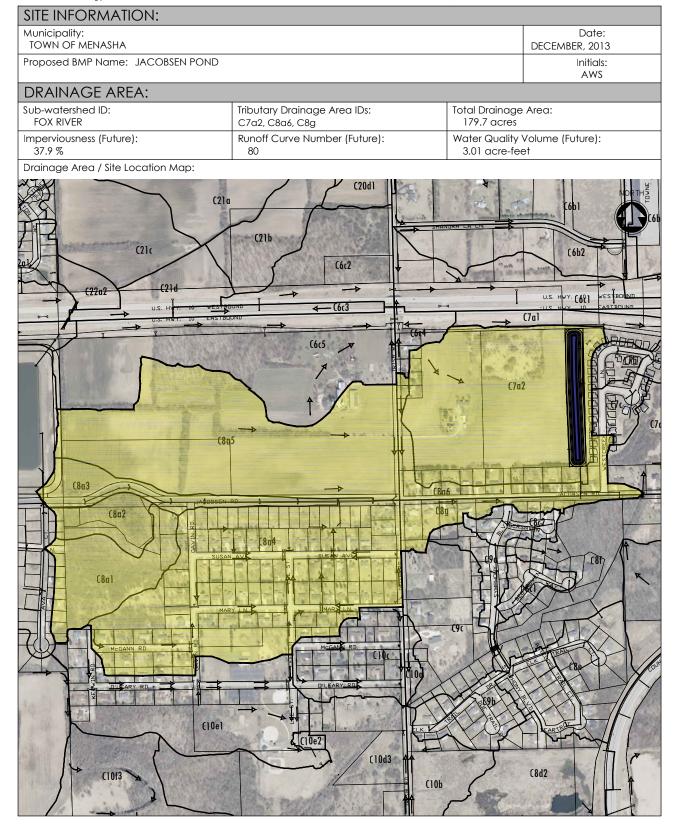


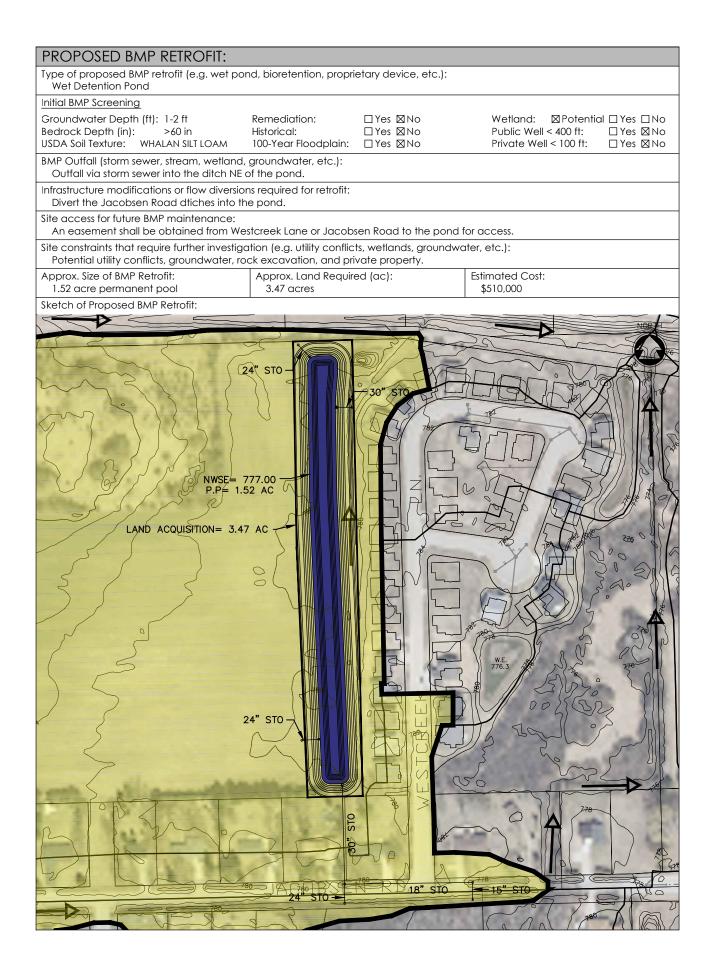




POTENTIAL STORMWATER BMP RETROFIT

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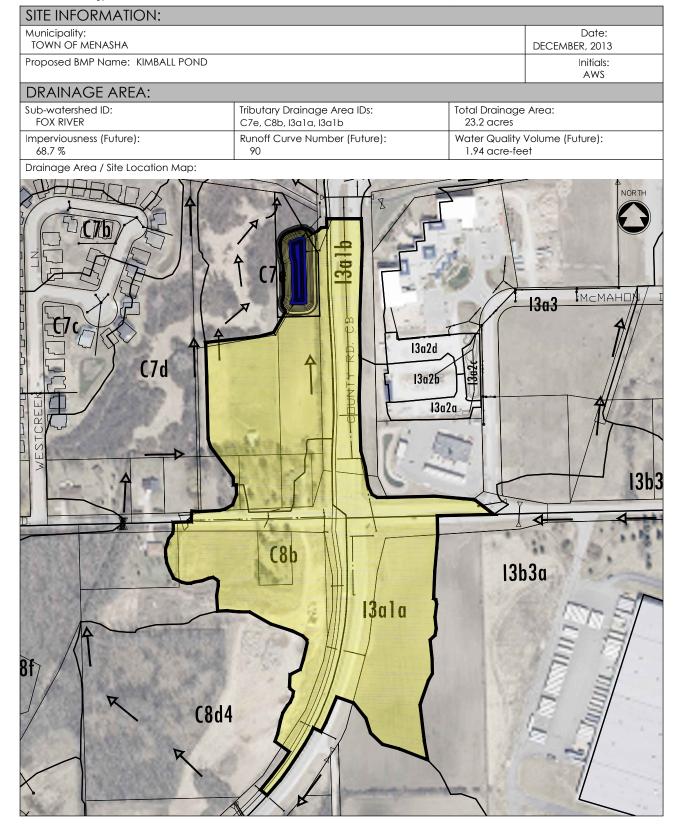


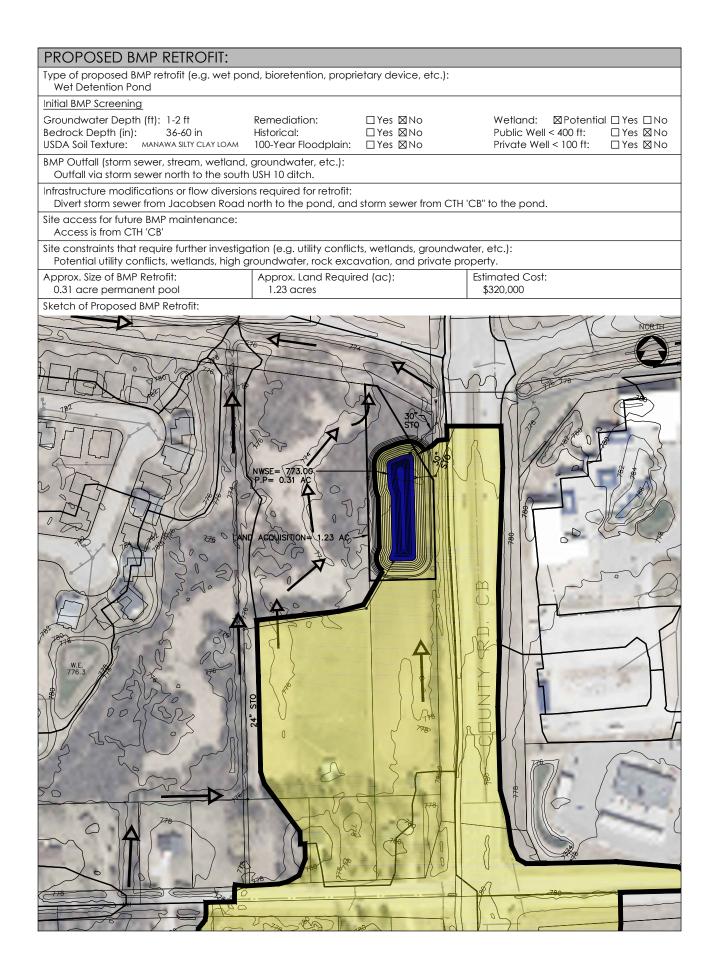




POTENTIAL STORMWATER BMP RETROFIT

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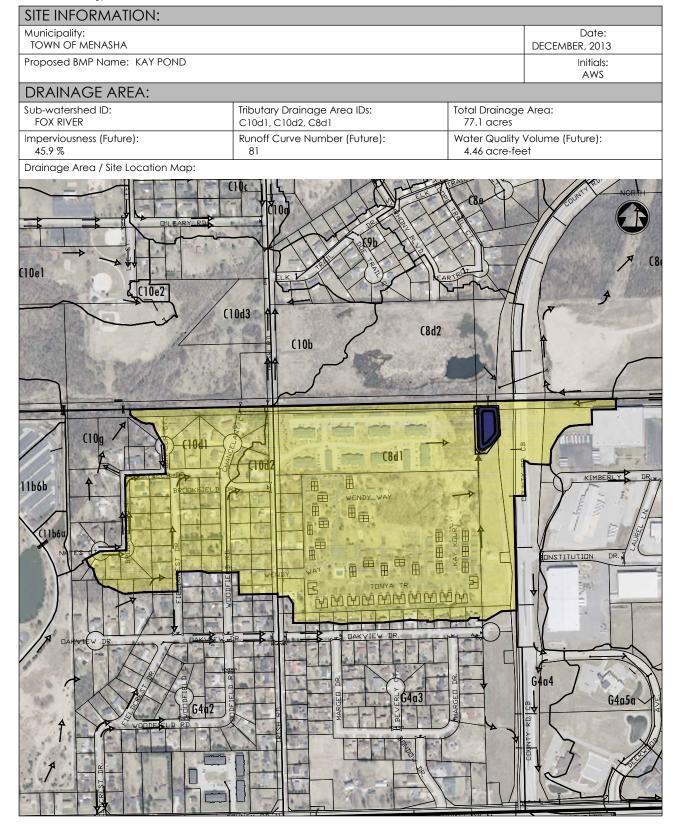


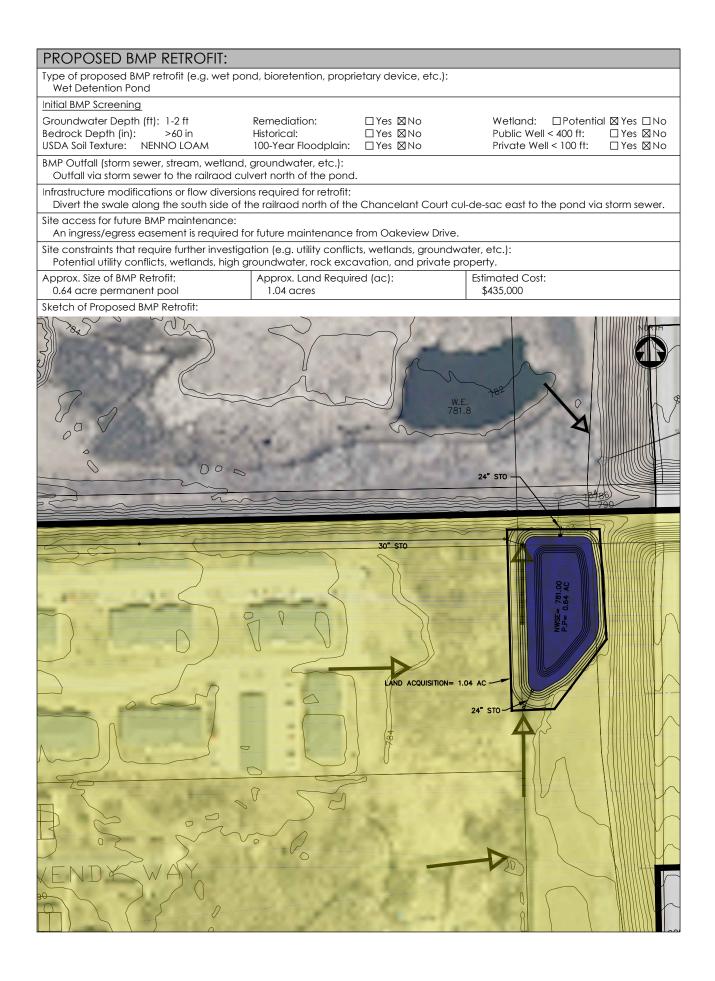




POTENTIAL STORMWATER BMP RETROFIT

BMP ID: P-BMP-C8d1

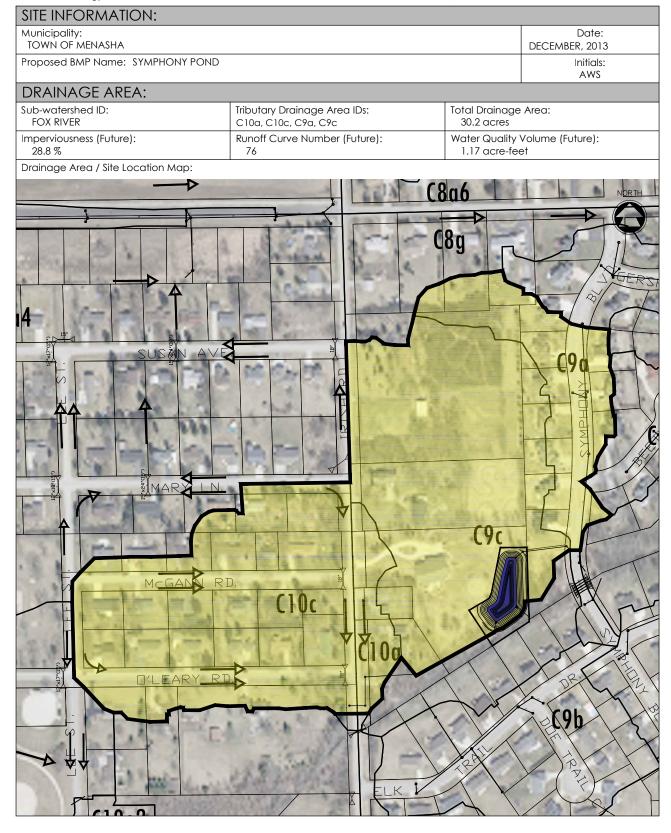


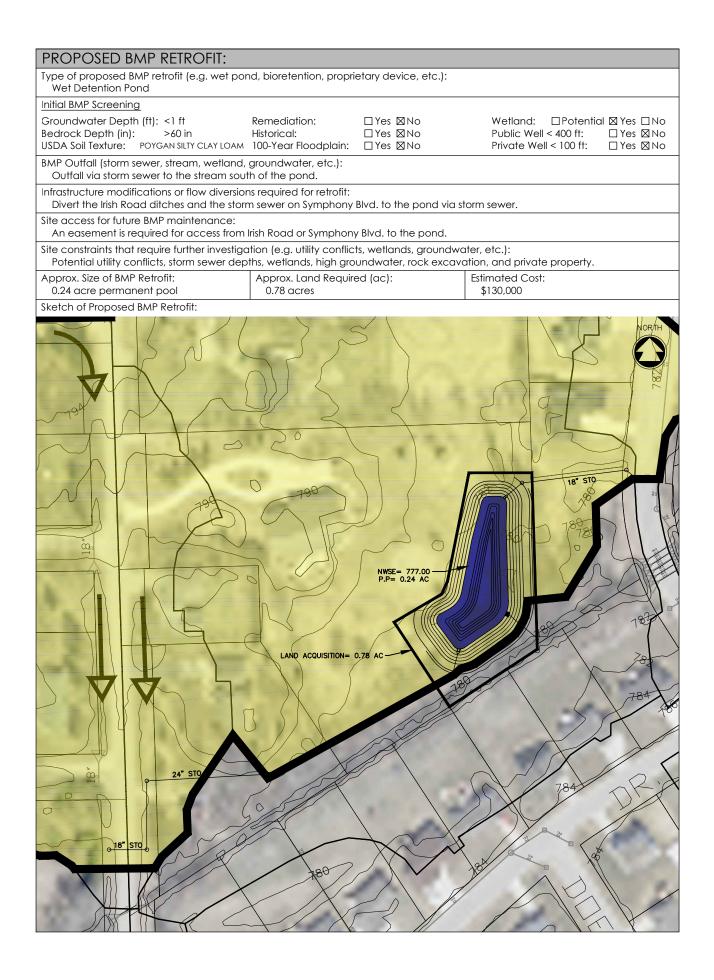




POTENTIAL STORMWATER BMP RETROFIT

BMP ID: P-BMP-C9a

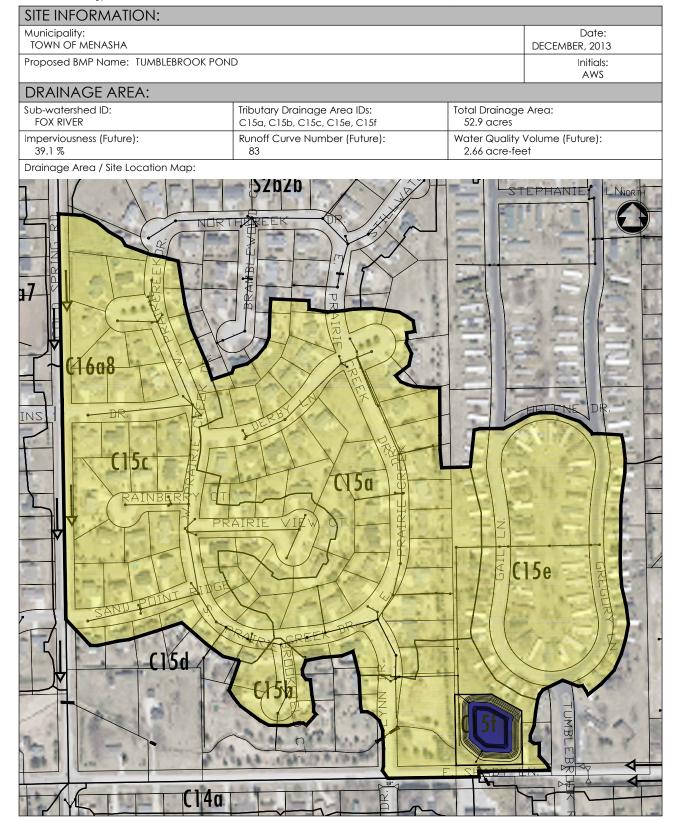


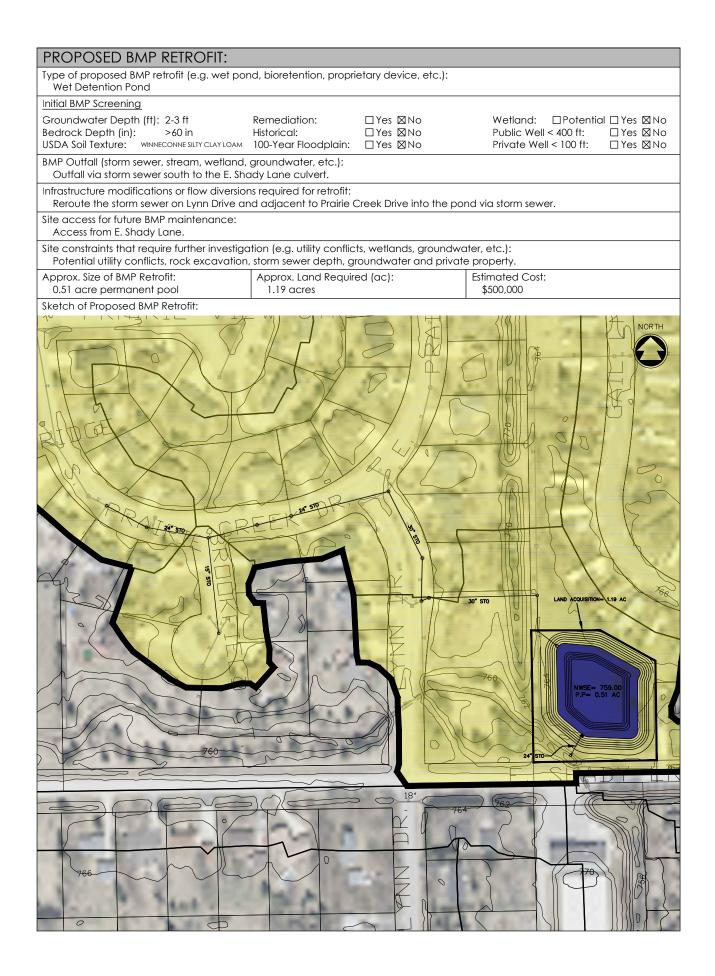




POTENTIAL STORMWATER BMP RETROFIT

BMP ID: P-BMP-C15f

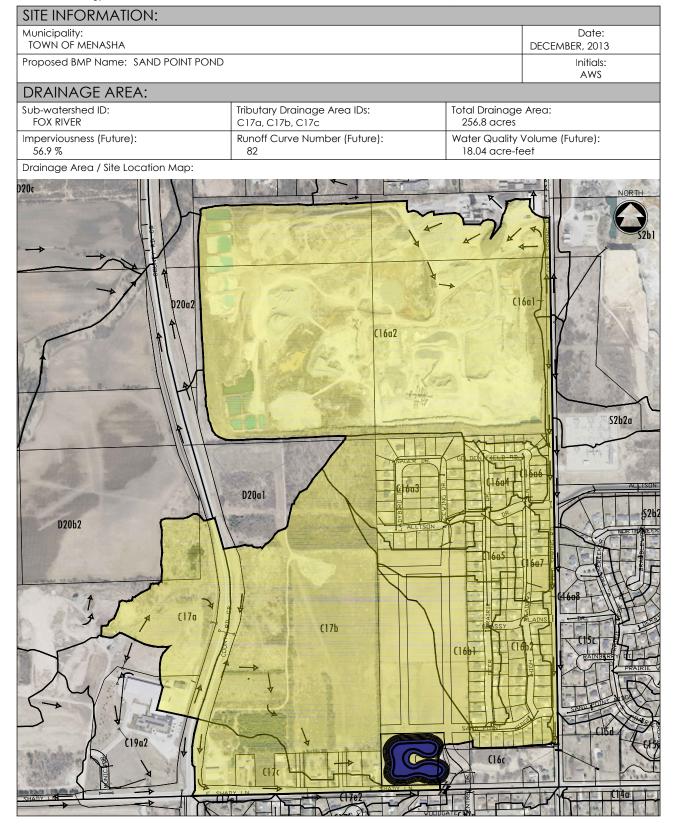


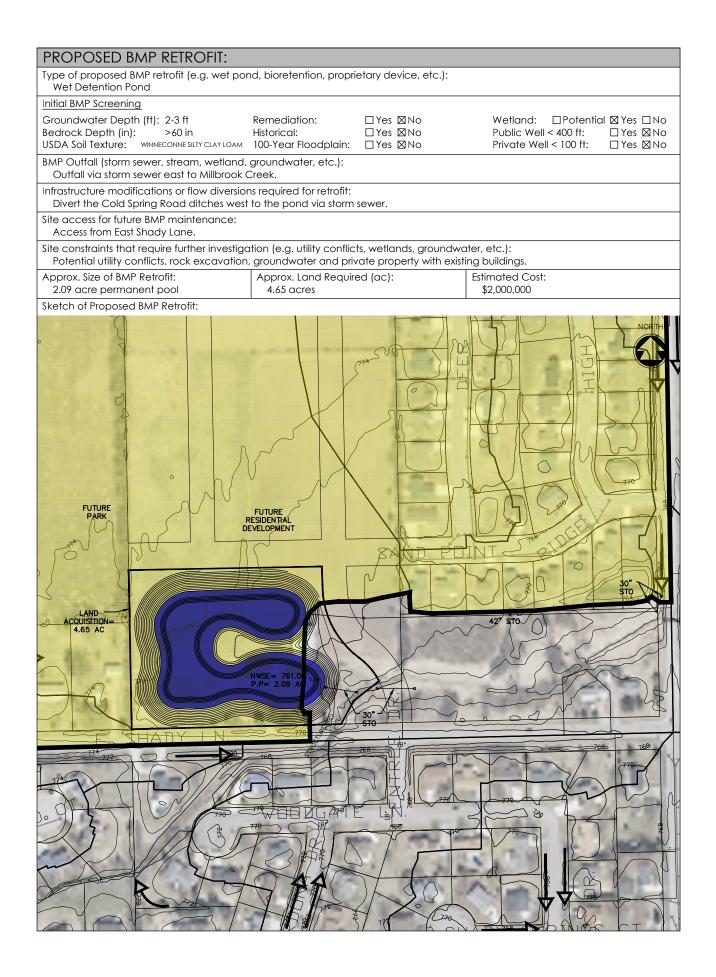




POTENTIAL STORMWATER BMP RETROFIT

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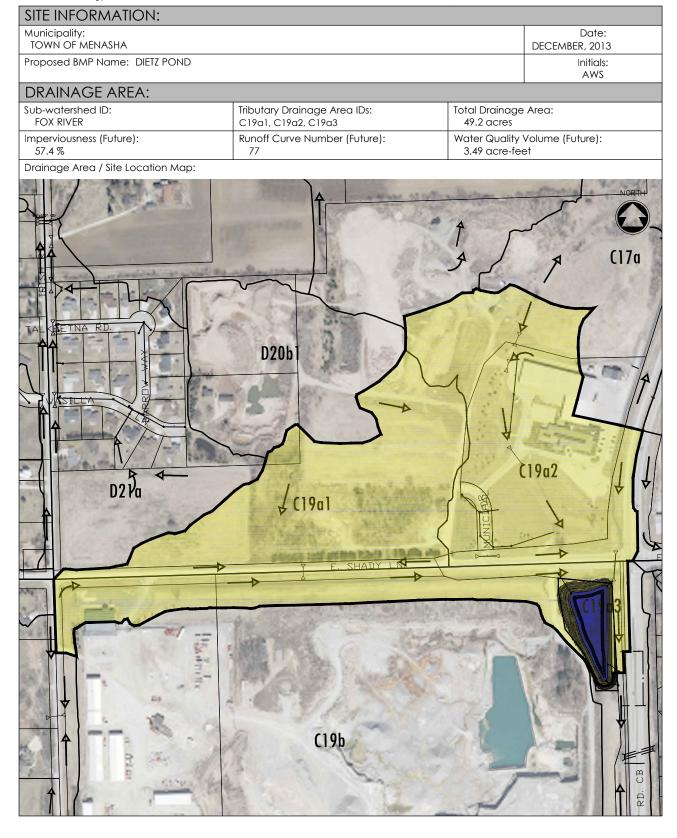


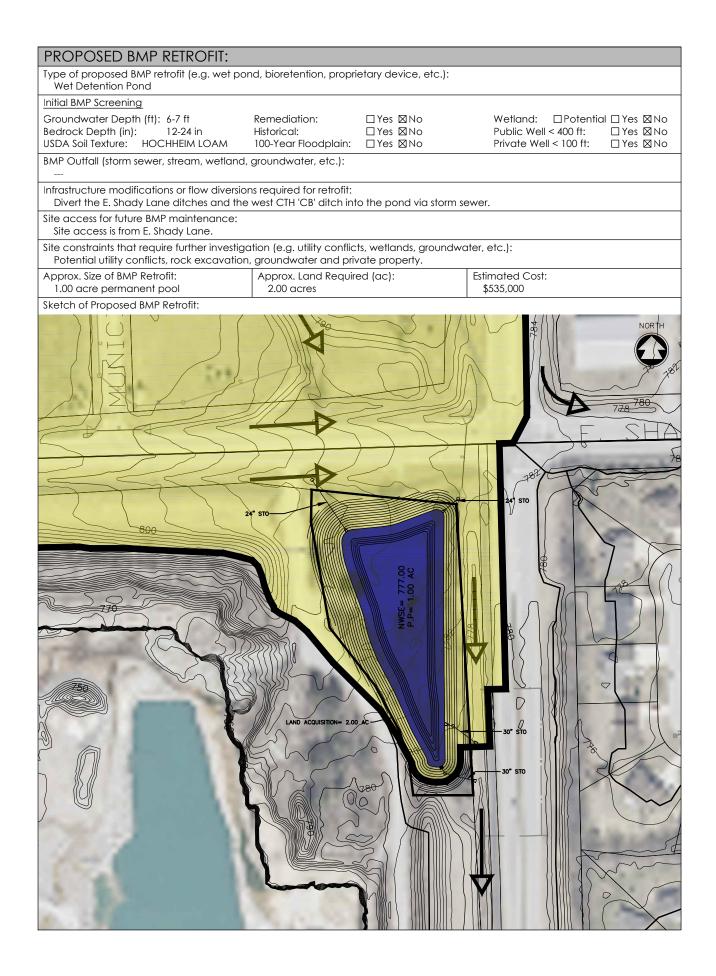




POTENTIAL STORMWATER BMP RETROFIT

BMP ID: P-BMP-C19a3

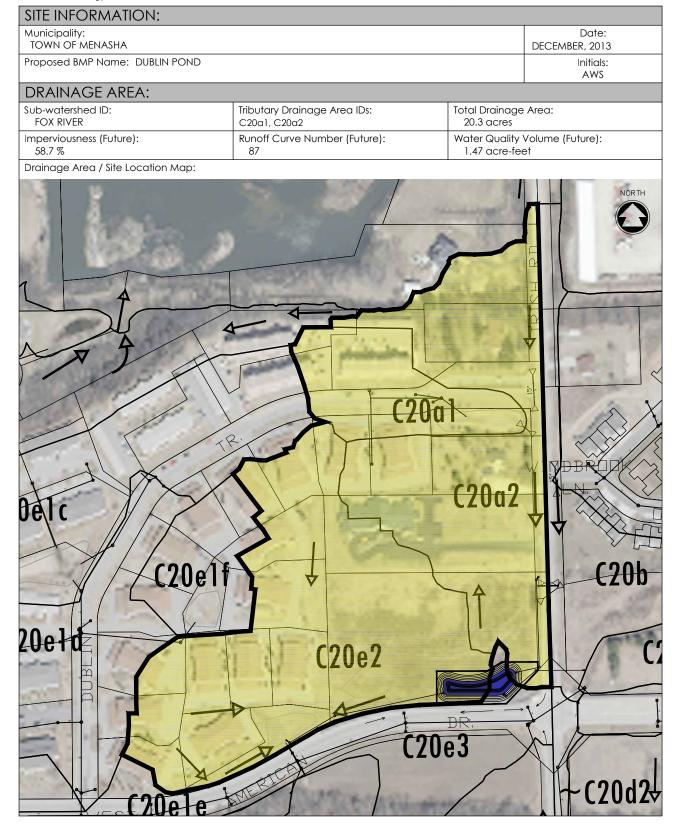


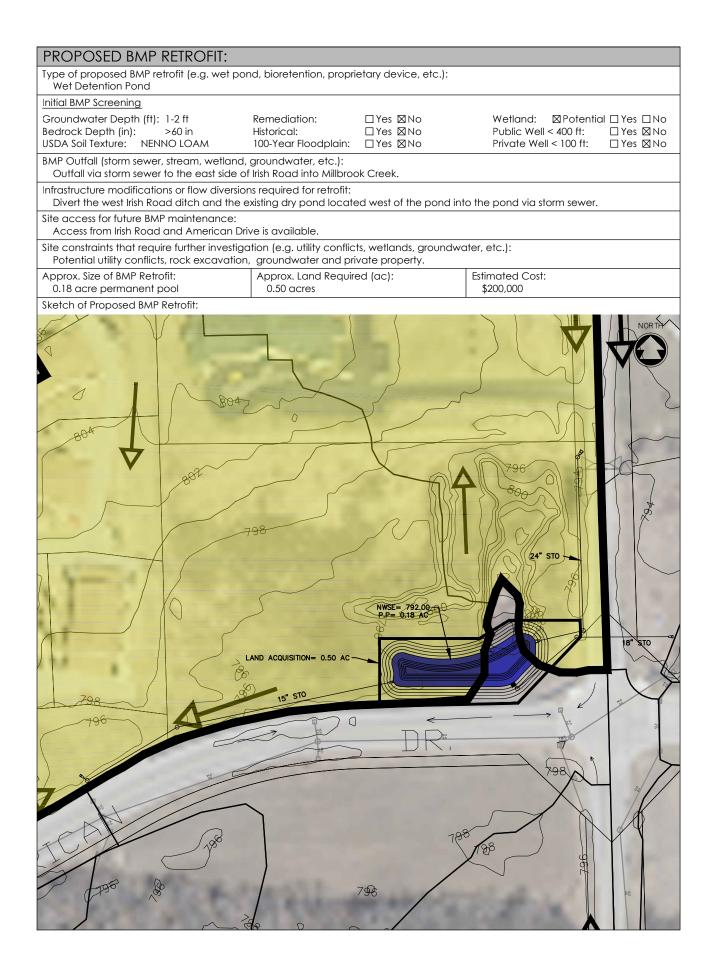




POTENTIAL STORMWATER BMP RETROFIT

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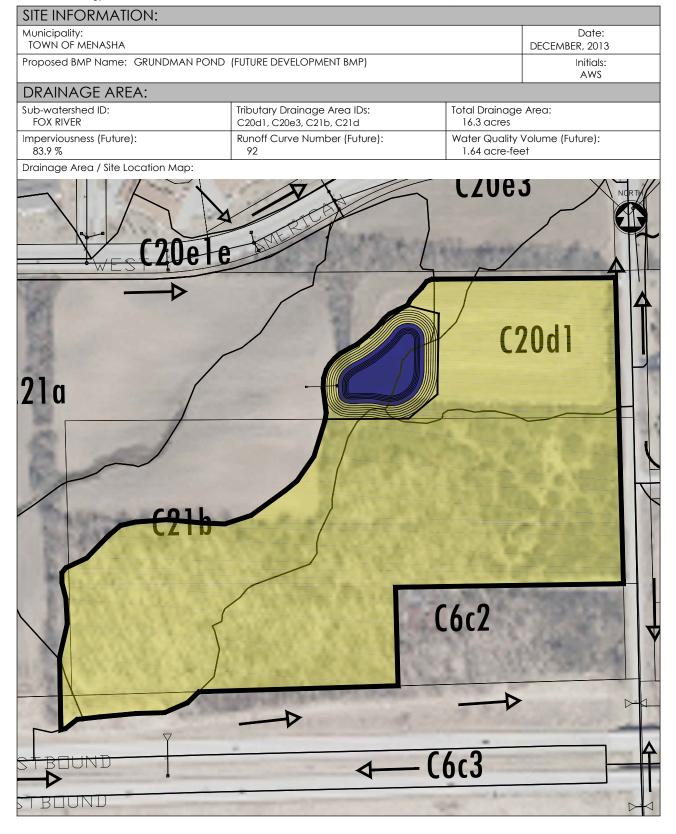


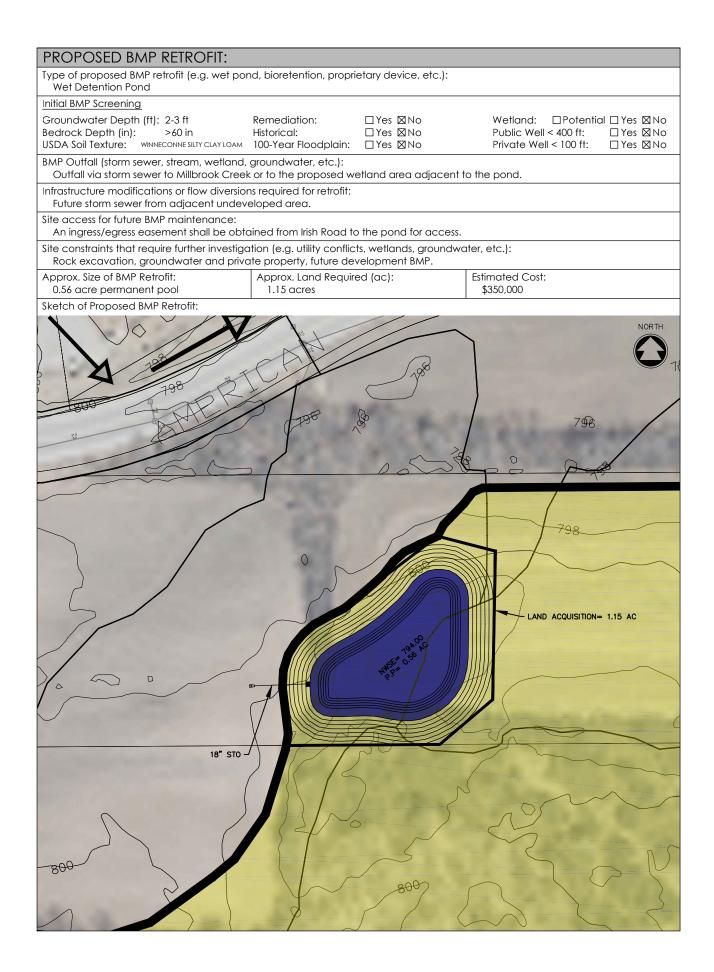




POTENTIAL STORMWATER BMP RETROFIT

BMP ID: P-BMP-C20d1



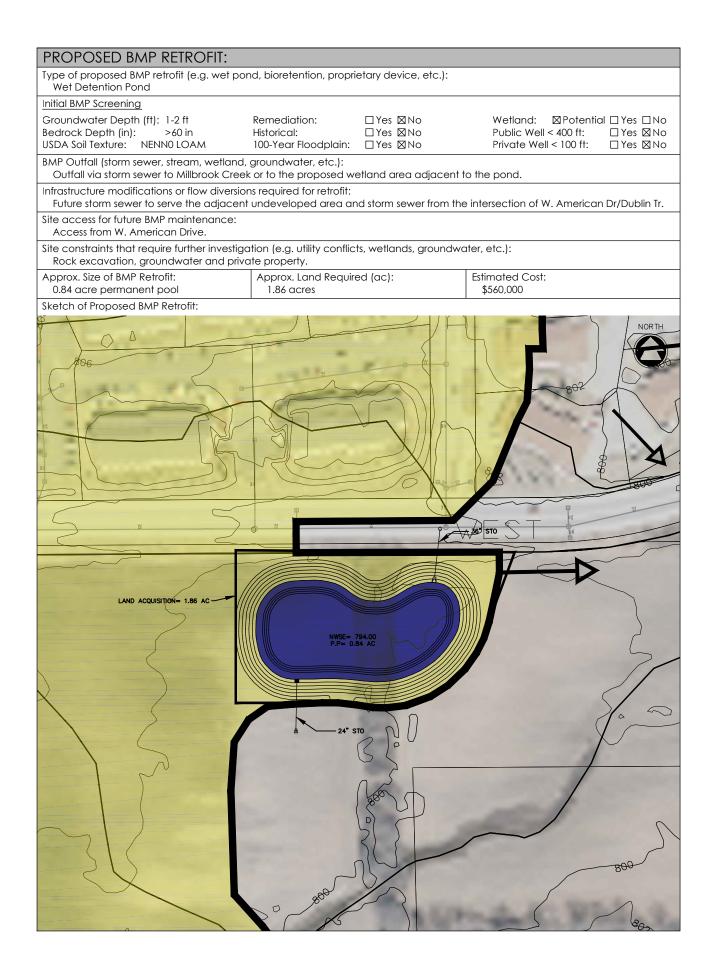




POTENTIAL STORMWATER BMP RETROFIT

BMP ID: P-BMP-C20e1

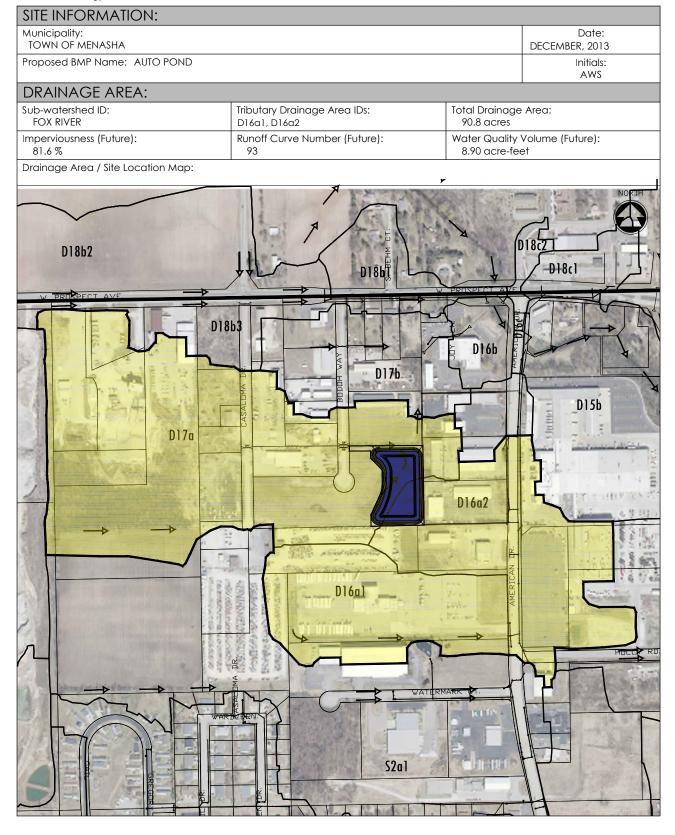
SITE INFORMATION:			
Municipality: TOWN OF MENASHA			Date: DECEMBER, 2013
Proposed BMP Name: SCHOOL POND			Initials: AWS
DRAINAGE AREA:			
Sub-watershed ID: FOX RIVER	Tributary Drainage Area IDs: Total Drainage Area: C20e1a, C20e1b, C20e1d, C20e1d, C20e1f, C21a, C21c 47,5 acres		
Imperviousness (Future): 54.5 %	Runoff Curve Number (Future): 87	Water Quality V 3.21 acre-fee	Volume (Future): et
	C20eto C20eto C20eto C21c		

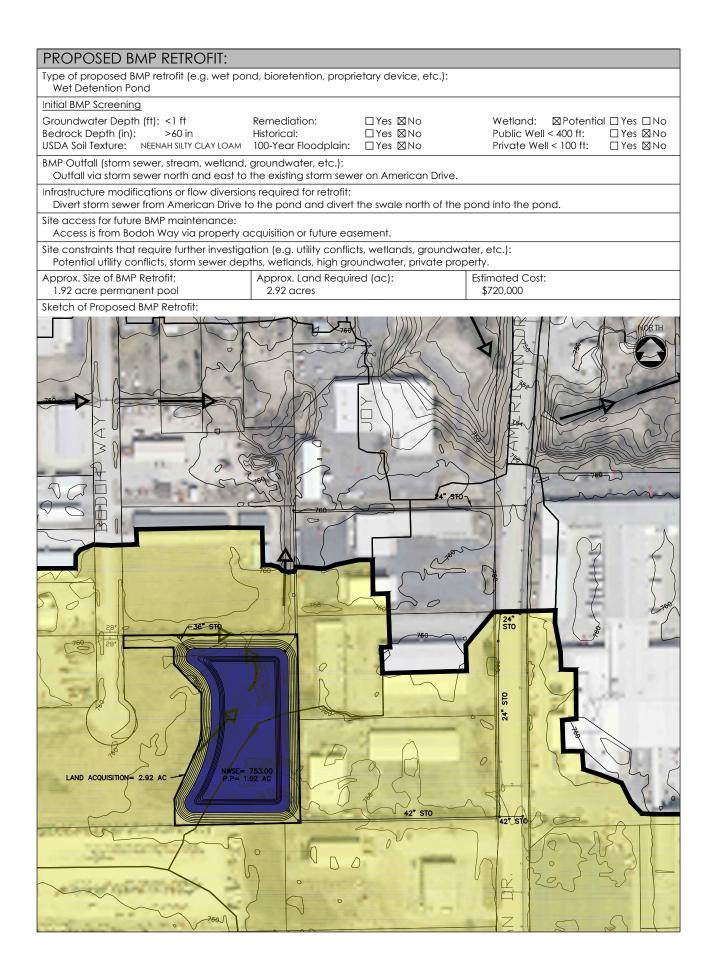




POTENTIAL STORMWATER BMP RETROFIT BMP ID: P-BMP-D16g2

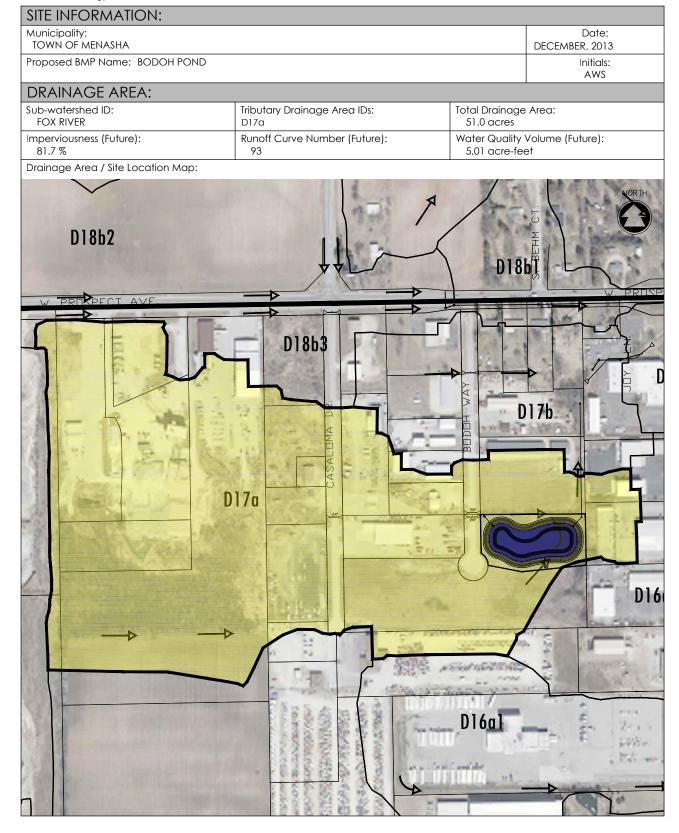
MCM PROJECT NO:	M0003-910495

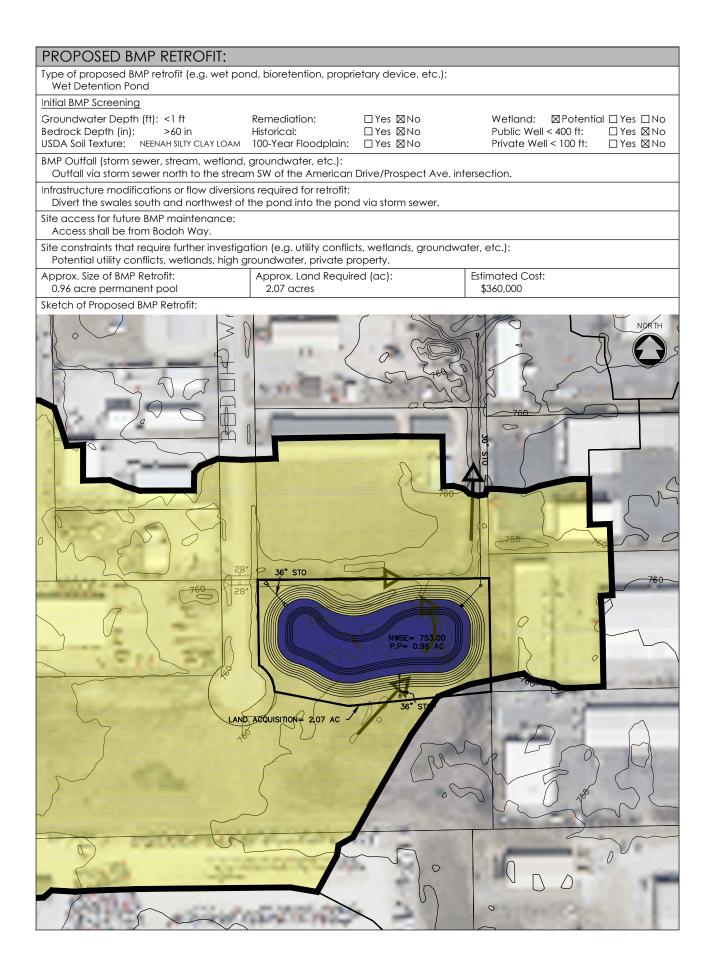






POTENTIAL STORMWATER BMP RETROFIT BMP ID: P-BMP-D17g



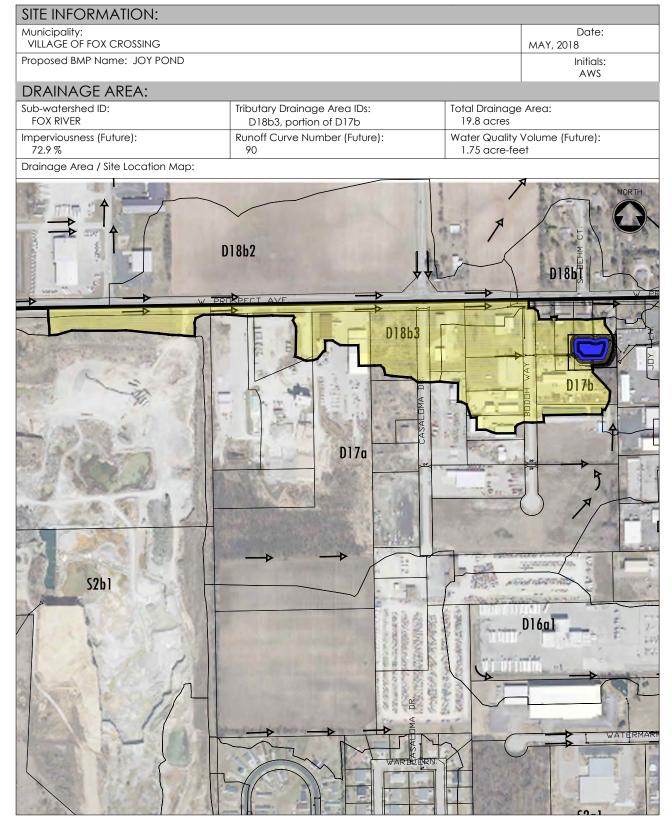


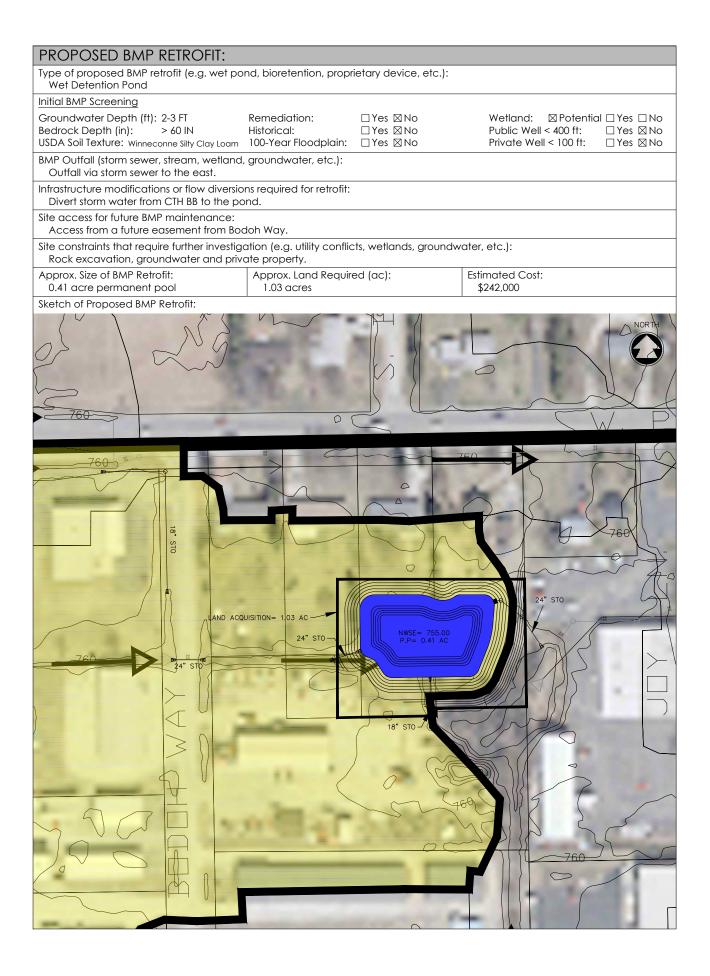


POTENTIAL STORMWATER BMP RETROFIT

BMP ID: P-BMP-D17b

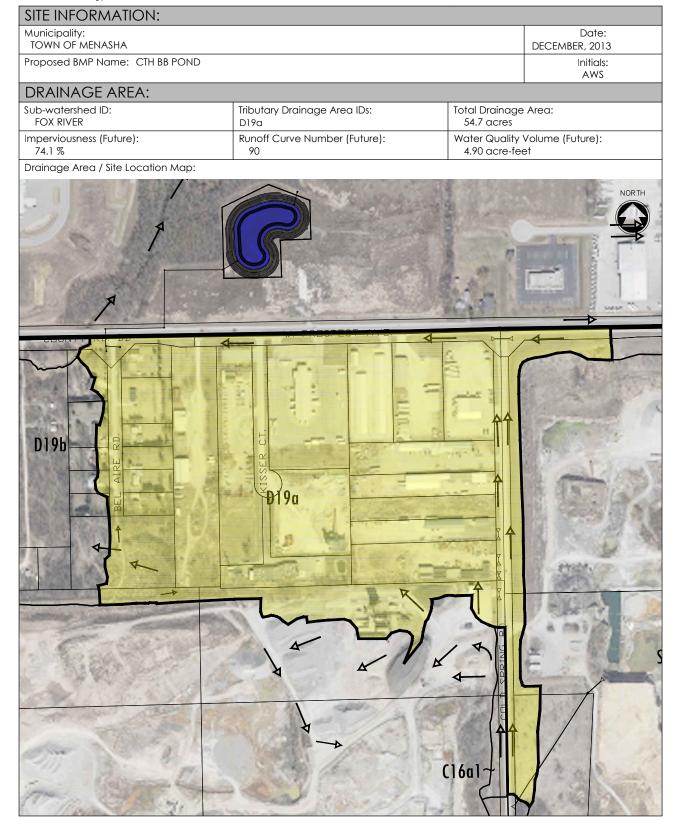
McM PROJECT NO: F0057-9-17-00221

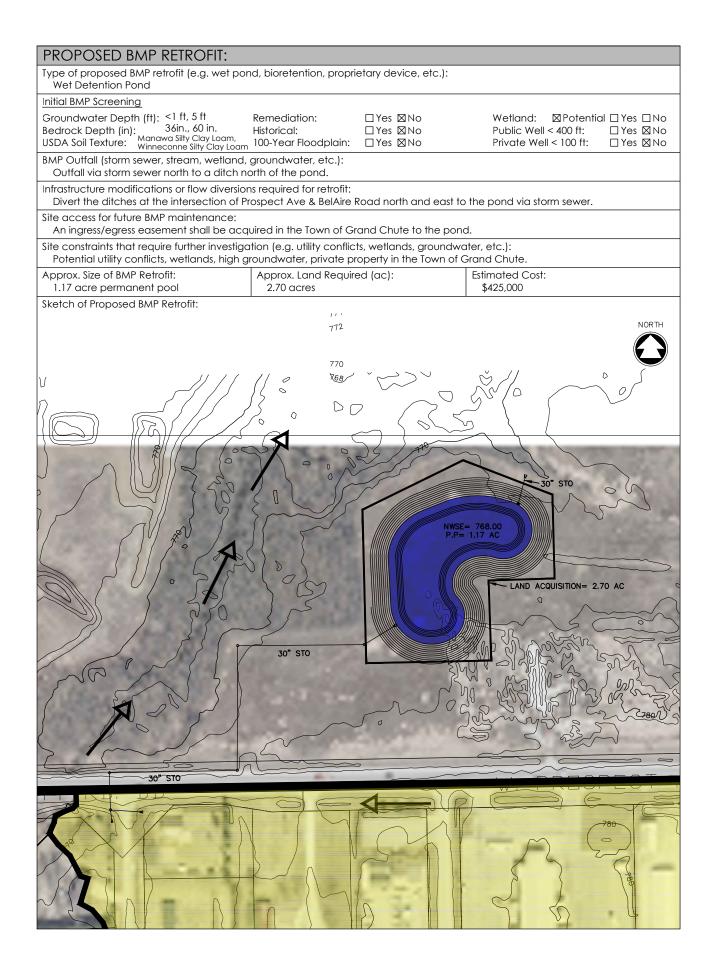






POTENTIAL STORMWATER BMP RETROFIT BMP ID: P-BMP-D19a







POTENTIAL STORMWATER BMP RETROFIT

BMP ID: P-BMP-D20e1

McM PROJECT NO: F0057-9-17-00221

SITE INFORMATION:			
Municipality: VILLAGE OF FOX CROSSING	Date: MAY, 2018		
Proposed BMP Name: IRISH NORTH POND	Initials:		
DRAINAGE AREA:		AWS	
Sub-watershed ID: FOX RIVER	Tributary Drainage Area IDs: D20e1	Total Drainage Area: 26.1 acres	
Imperviousness (Future): 37.7 %	Runoff Curve Number (Future): 83	Water Quality Volume (Future): 1.27 acre-feet	
Drainage Area / Site Location Map:			
		NORTH	
-		· · · ·	
		D20c	
	++		
Ì	D20e1	D20d	
	D21b D20e3	Î	

PROPOSED BMP RETROFIT:				
Type of proposed BMP retrofit (e.g. wet pond, bioretention, proprietary device, etc.): Wet Detention Pond				
Initial BMP Screening				
Groundwater Depth (ft): 0.5 ft	Remediation:	□Yes ⊠No	Wetland: \square Potential \square Yes \square No	
Bedrock Depth (in): >60 in	Historical:	□Yes ⊠No	Public Well < 400 ft: ☐ Yes ⊠ No	
USDA Soil Texture: Neenah Silty Clay Loam		□Yes ⊠No	Private Well < 100 ft: □Yes ⊠No	
BMP Outfall (storm sewer, stream, wetland, Outfall via storm sewer to the adjacent o	creek.			
Infrastructure modifications or flow diversio Future storm sewer to serve the watershe		n Irish Road.		
Site access for future BMP maintenance: Access from Irish Road.				
Site constraints that require further investige Rock excavation, groundwater and prive		ts, wetlands, ground	water, etc.):	
Approx. Size of BMP Retrofit:	Approx. Land Require	ed (ac):	Estimated Cost:	
0.33 acre permanent pool	1.73 acres		\$279,400	
Sketch of Proposed BMP Retrofit:				
			NORTH	
			and the second	
			WSE= 773.00	
			.P= 0.33 AC	
			LAND ACQUISITION 1.73 AC	
			1.75 /10	
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