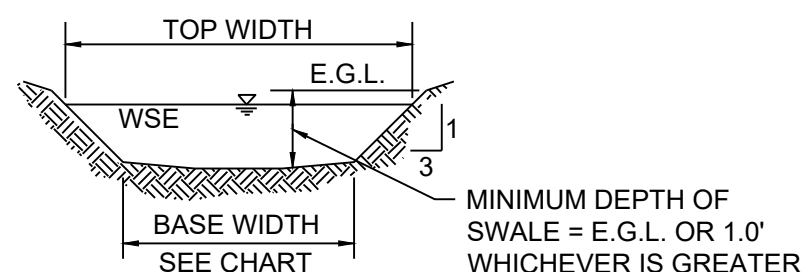


NOTES:

- MBOE = MINIMUM BUILDING OPENING ELEVATION FOR HOUSES ADJACENT TO ENGINEERED OVERFLOW SWALES SHALL BE MINIMUM 2 FEET ABOVE THE 100 YR WATER SURFACE ELEVATION.
- EGL = ENERGY GRADE LINE (100 YR)
- WSE = WATER SURFACE ELEVATION (100 YR)
- ENGINEERED SWALES TO BE GRADED TO NORMAL DEPTH OF FLOW (WATER SURFACE ELEVATION) OR 1.0 FT, WHICHEVER IS GREATER. MINIMUM SLOPE OF ENGINEERED SWALES SHALL BE AS NOTED.
- MBOE'S ADJACENT TO SUMPED INLETS SHALL BE A MINIMUM OF 1' ABOVE TOP OF ADJACENT BERM
- SWALE SECTIONS EXTEND THE ENTIRE LENGTH BETWEEN UPSTREAM AND DOWNSTREAM STRUCTURES WITH THE EXCEPTION OF A TRANSITION AT EACH STRUCTURE.

RUNOFF CALCULATIONS:
 $Q = K \cdot C \cdot I \cdot A$
 $K_{10} = 1.0$ $K_{100} = 1.25$ $C = 0.51$ $I = \text{INTENSITY}$
 DESIGN OVERFLOW = $Q_{\text{OVERFLOW}} = Q_{100} - Q_{10}$
 MANNINGS "n" = .030 FOR SWALES



MINIMUM DEPTH OF SWALE = E.G.L. OR 1.0' WHICHEVER IS GREATER

100 YR OVERFLOW SWALE SECTIONS
SECTION 1-2

100 YEAR OVERFLOW SWALES												
SECTION	DRAINAGE AREA (AC.)	Q100 (CFS)	Q10 (CFS)	DESIGN OVERFLOW (CFS)	BED SLOPE (%)	BASE WIDTH (FT.)	SIDE SLOPE	TOP WIDTH (FT.)	NORMAL DEPTH (FT.)	VELOCITY (FPS)	VELOCITY HEAD (FT.)	EGL (FT.)
A-A	0.32	2.11	-	2.11	2.52	5	3:1	6.02	0.17	2.26	0.08	0.25
B-B	3.54	23.29	-	23.29	7.93	5	3:1	7.91	0.49	7.44	0.86	1.35
C-C	0.93	6.12	-	6.12	6.50	5	3:1	6.44	0.24	4.46	0.31	0.55
D-D	2.65	17.44	-	17.44	5.93	5	3:1	7.69	0.45	6.13	0.58	1.03

DETENTION STORAGE EDDB #1:
 100 YEAR, 24 HR. RAINFALL - MAXIMUM WSE = 990.54 (SEE FINAL STORMWATER MGMT. PLAN) 990.5

AUXILIARY SPILLWAY SET AT 0.5 FEET ABOVE MAX. WSE, SPILLWAY ELEV. = 991.04
 990.7

AUXILIARY SPILLWAY DESIGN:
 $Q(100) = 2.74$ CFS, $Q = CLH^{\frac{2}{3}}$, $C = 3.33$, $L = 20$ FT., 2.74 CFS = $3.33 \cdot 20^{\frac{2}{3}} \cdot (H^{\frac{2}{3}})$, $H = 0.42$ FT.
 1.29 1.29 0.07

DETENTION STORAGE EDDB #2:
 100 YEAR, 24 HR. RAINFALL - MAXIMUM WSE = 975.90 (SEE FINAL STORMWATER MGMT. PLAN) 976.2

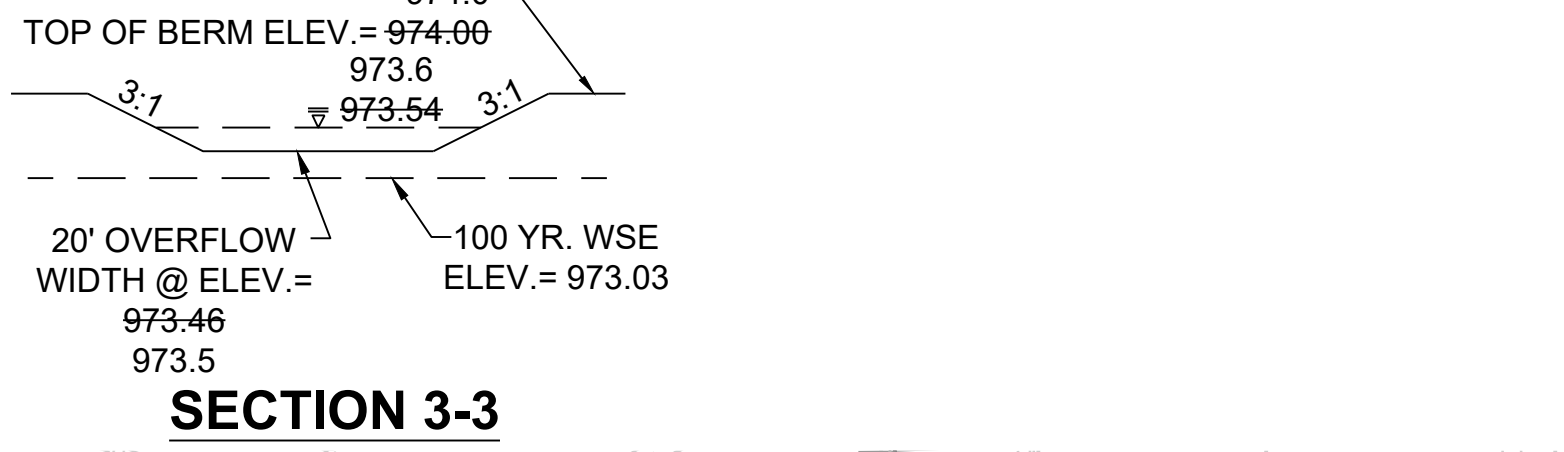
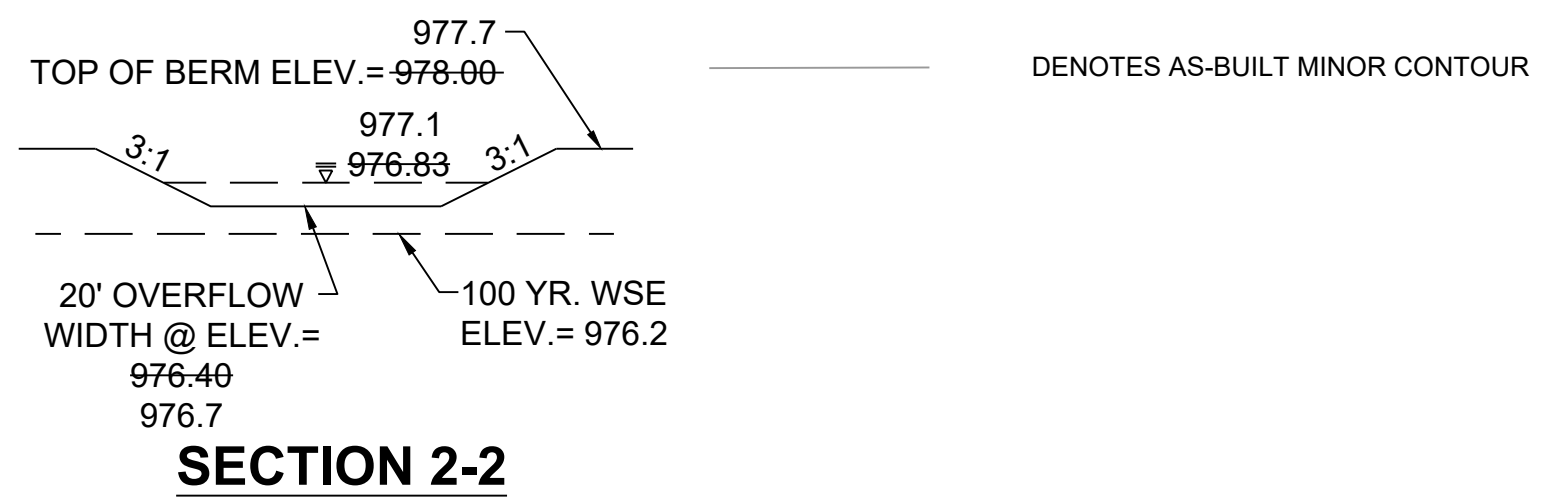
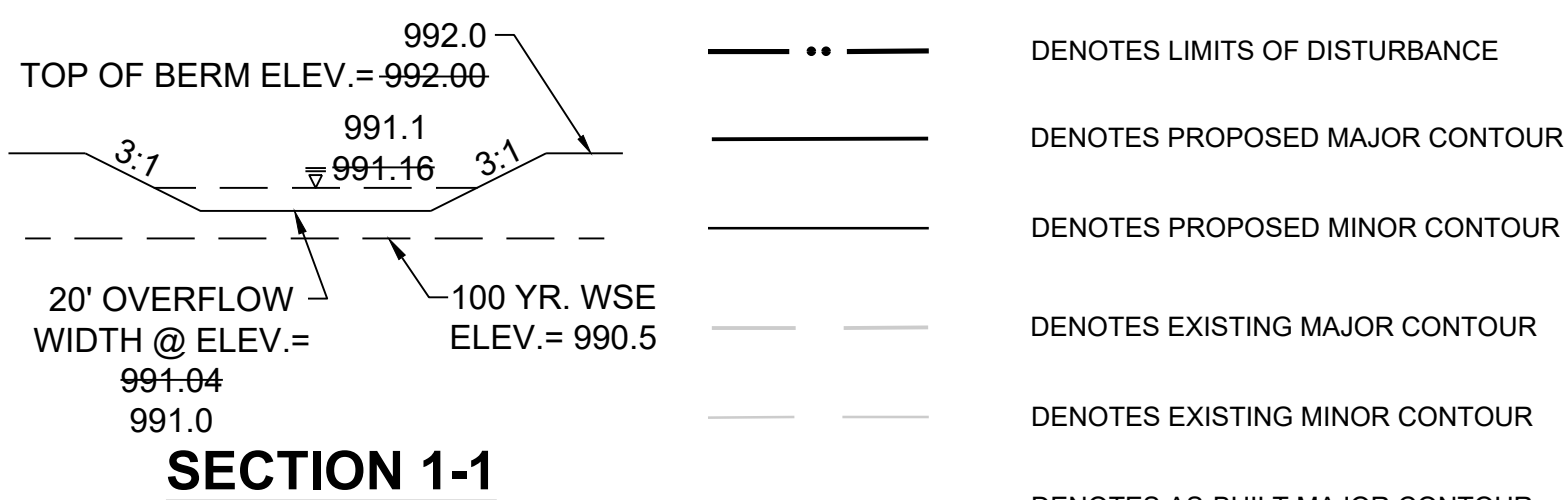
AUXILIARY SPILLWAY SET AT 0.5 FEET ABOVE MAX. WSE, SPILLWAY ELEV. = 976.40
 976.7

AUXILIARY SPILLWAY DESIGN:
 $Q(100) = 18.47$ CFS, $Q = CLH^{\frac{2}{3}}$, $C = 3.33$, $L = 20$ FT., 18.47 CFS = $3.33 \cdot 20^{\frac{2}{3}} \cdot (H^{\frac{2}{3}})$, $H = 0.43$ FT.
 19.09 19.09 0.43

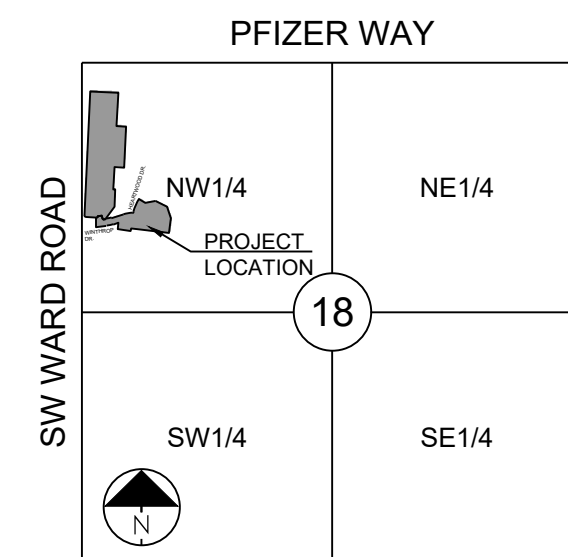
DETENTION STORAGE EDDB #3:
 100 YEAR, 24 HR. RAINFALL - MAXIMUM WSE = 972.96 (SEE FINAL STORMWATER MGMT. PLAN) 973.03

AUXILIARY SPILLWAY SET AT 0.5 FEET ABOVE MAX. WSE, SPILLWAY ELEV. = 973.46
 973.9

AUXILIARY SPILLWAY DESIGN:
 $Q(100) = 1.43$ CFS, $Q = CLH^{\frac{2}{3}}$, $C = 3.33$, $L = 20$ FT., 1.43 CFS = $3.33 \cdot 20^{\frac{2}{3}} \cdot (H^{\frac{2}{3}})$, $H = 0.08$ FT.
 0.71 0.71 0.05



- DENOTES LIMITS OF DISTURBANCE
- DENOTES PROPOSED MAJOR CONTOUR
- DENOTES PROPOSED MINOR CONTOUR
- DENOTES EXISTING MAJOR CONTOUR
- DENOTES EXISTING MINOR CONTOUR
- DENOTES AS-BUILT MAJOR CONTOUR
- DENOTES AS-BUILT MINOR CONTOUR

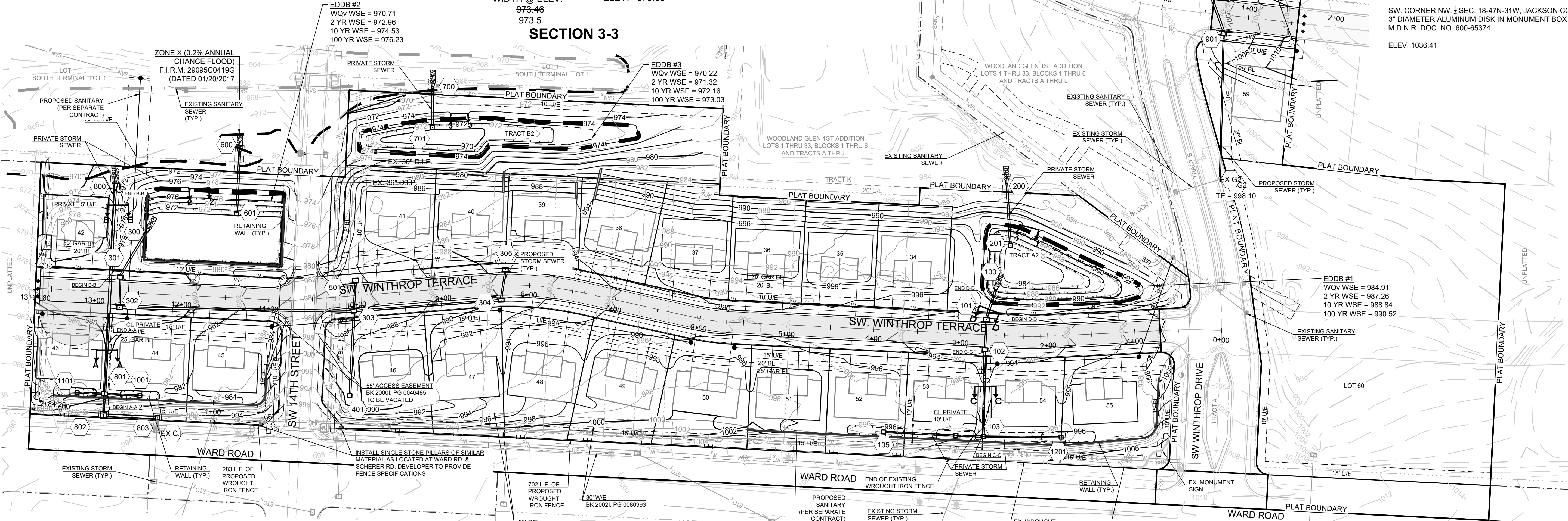


SECTION 18-47N-31W
 LOCATION MAP
 SCALE 1" = 2000'



PROJECT BENCHMARK:

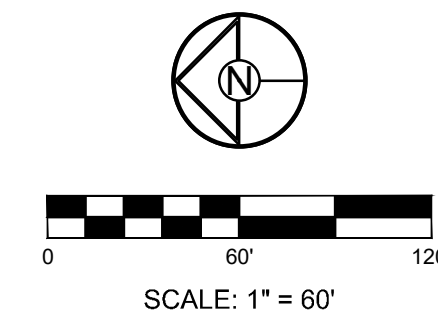
SW CORNER NW 1/4 SEC. 18-47N-31W, JACKSON COUNTY, MO.
 3" DIAMETER ALUMINUM DISK IN MONUMENT BOX
 M.D.N.R. DOC. NO. 600-65374
 ELEV. 1036.41



RECORD DRAWING

The information provided on this drawing conforms to construction records; it is not intended for construction, implementation or recording purposes; and it is solely based on information obtained by Schlager and Associates. "100.00 100.10", "1.00% 1.15% slope", or "8-inch HDPE PVC pipe" are all typical examples of revisions that indicate that design data has been replaced with "as-built" information. All other data is as designed and has not been field verified.

Date: 1/10/2023
 Certified by: RPM
 Title: Design Engineer
 Firm: Schlager and Associates, P.A.



SCHLAGEL
 ENGINEERS PLANNERS SURVEYORS LANDSCAPE ARCHITECTS
 14920 West 107th Street • Lenexa, Kansas 66215
 (913) 492-5158 • Fax: (913) 492-8400
 WWW.SCHLAGELASSOCIATES.COM
 Missouri State Certificate of Authority
 #E200200360PFL #LAC201005237 #LS200200895F

WOODLAND GLEN 2ND PLAT
 STREET, STORMWATER, MASTER DRAINAGE,
 AND EROSION CONTROL PLANS
 WARD ROAD & WINTHROP DRIVE
 LEE'S SUMMIT, MISSOURI

REVISION DATE	DESCRIPTION
1/10/2023	AS-BUILT REVISIONS
1/11/2023	AS-BUILT
08/22/2022	CITY WALL MODIFICATION
08/16/2022	CITY EMAILED COMMENTS
04/24/2020	CITY COMMENTS
01/12/2021	SCHLAGEL QUANTITIES
04/09/2021	SCHLAGEL QUANTITIES
05/12/2021	CITY COMMENTS
06/15/2021	CITY COMMENTS
09/28/2021	CITY COMMENTS
09/28/2021	SCHLAGEL UPDATE
10/06/2021	CITY COMMENTS
01/20/2022	WATER LINE CONFLICT

MASTER DRAINAGE PLAN GRADING PLAN

SHEET

I:\PROJECTS\2018\18-0773.0 Design\3.0 DWG Plans\6.0 SS\18-0773 SS GL AND GP.dwg, MDP GRADING, 1/10/2023, 3:19:09 PM, 1:1

RECORD DRAWING

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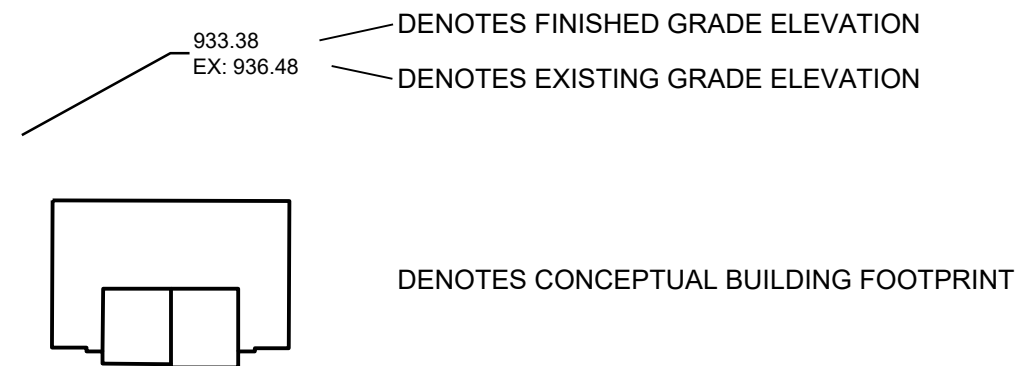
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Date: 1/10/2023
 Certified by: RPM
 Title: Design Engineer
 Firm: Schlagel and Associates, P.A.

LOT TYPE TABLE		
LOT #	TYPE	MBOE
34	BASEMENT	992.5
35	WALKOUT	N/A
36	WALKOUT	N/A
37	WALKOUT	975.0
38	WALKOUT	975.0
39	WALKOUT	975.0
40	WALKOUT	975.0
41	WALKOUT	975.0
42	WALKOUT	971.5
43	STANDARD	981.0
44	STANDARD	981.0
45	STANDARD	N/A
46	STANDARD	982.8
47	STANDARD	N/A
48	STANDARD	N/A
49	STANDARD	N/A
50	STANDARD	N/A
51	STANDARD	N/A
52	STANDARD	996.0
53	STANDARD	996.0
54	STANDARD	996.0
55	STANDARD	996.0
56	WALKOUT	N/A
57	WALKOUT	N/A
58	WALKOUT	N/A
59	WALKOUT	N/A

NOTES:

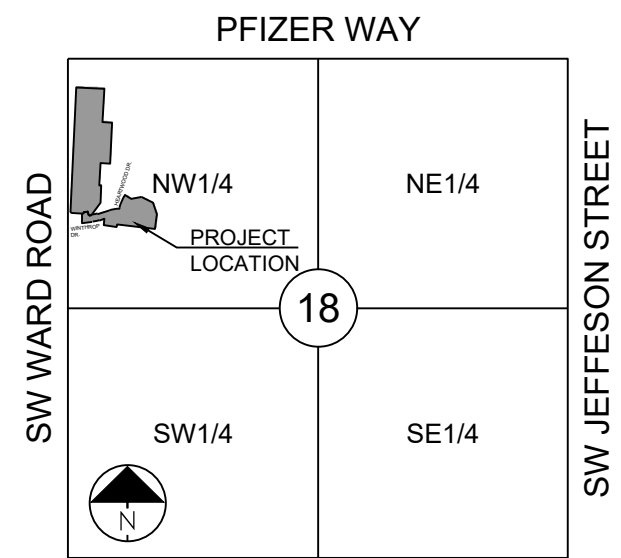
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- EGL = ENERGY GRADE LINE (100 YR)
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- MBOE'S ADJACENT TO SUMPED INLETS SHALL BE A MINIMUM OF 1' ABOVE TOP OF ADJACENT BERM



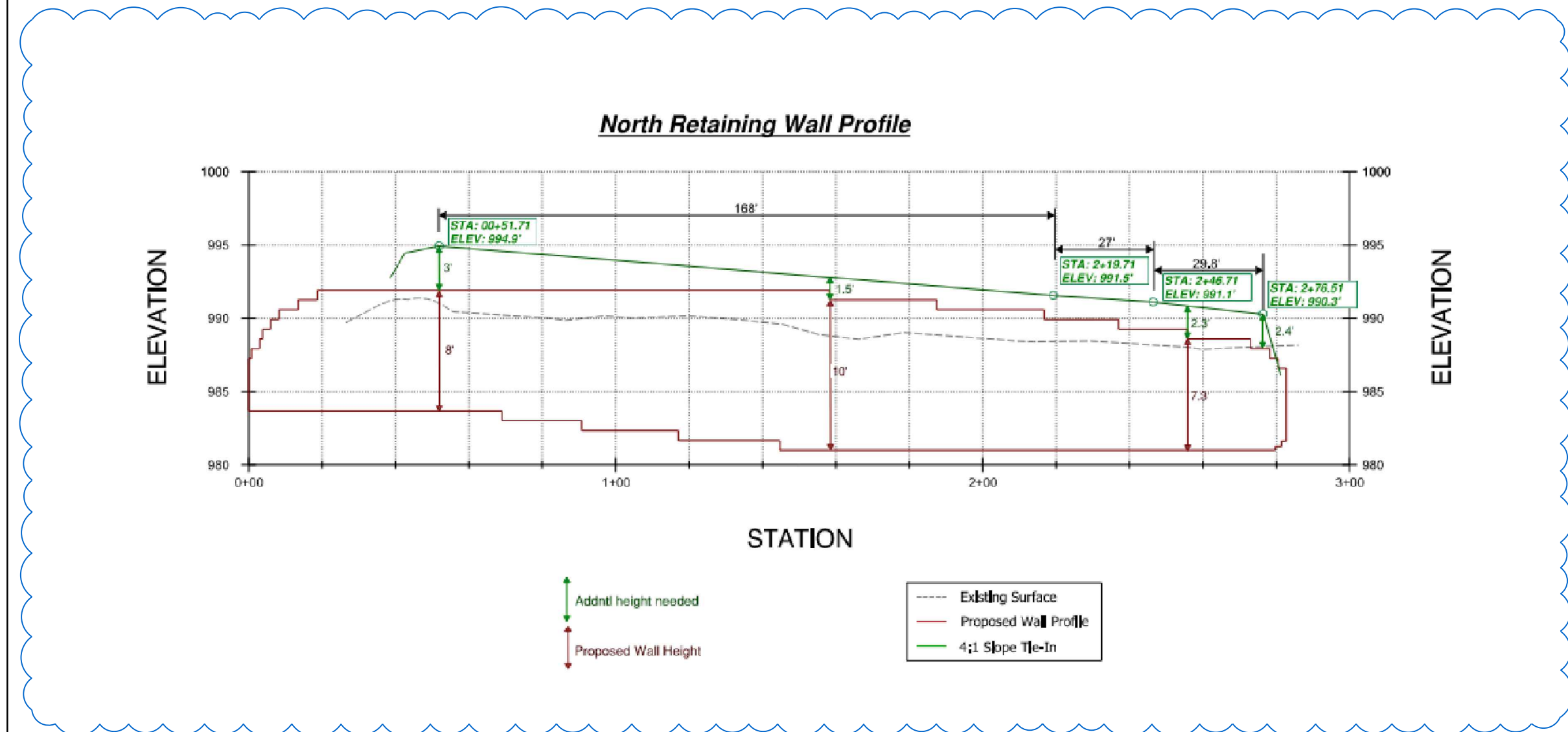
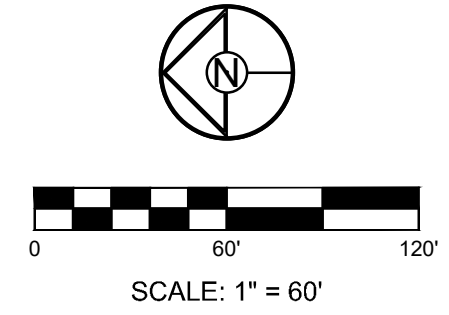
PROJECT BENCHMARK:

SW. CORNER NW 1/4 SEC. 18-47N-31W, JACKSON COUNTY, MO.
 3" DIAMETER ALUMINUM DISK IN MONUMENT BOX
 M.D.N.R. DOC. NO. 600-65374
 ELEV. 1036.41

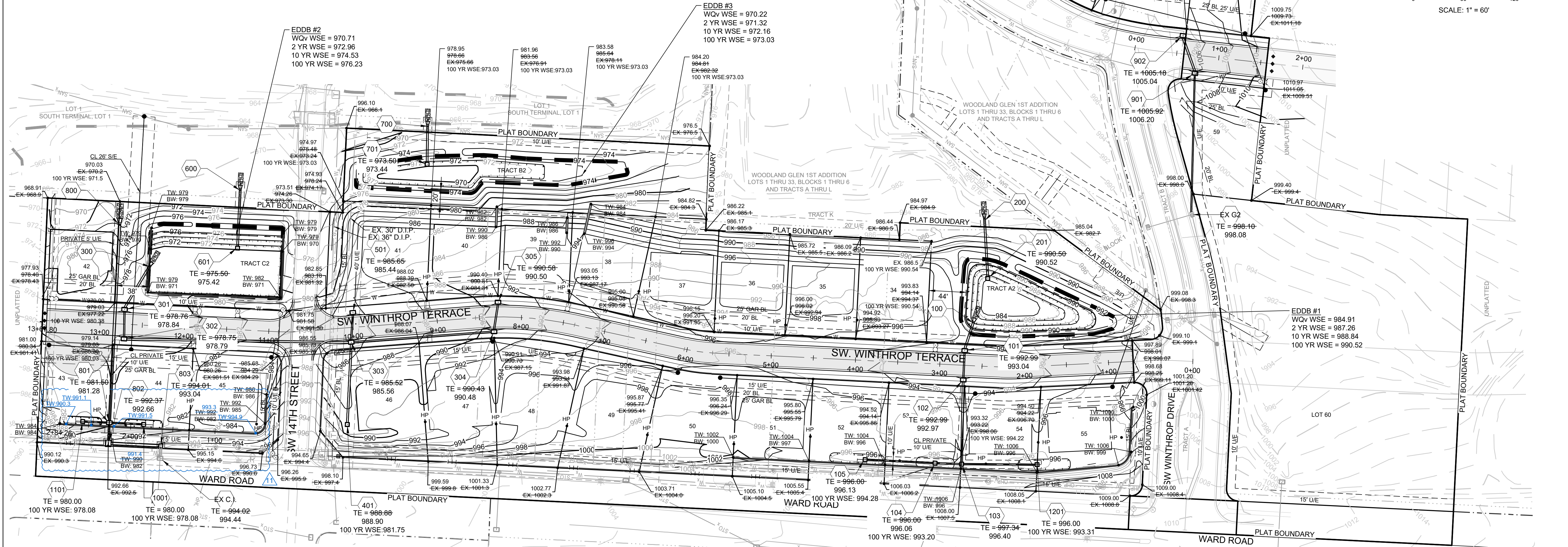
- ** --- DENOTES LIMITS OF DISTURBANCE
- --- DENOTES PROPOSED MAJOR CONTOUR
- --- DENOTES PROPOSED MINOR CONTOUR
- --- DENOTES EXISTING MAJOR CONTOUR
- --- DENOTES EXISTING MINOR CONTOUR
- --- DENOTES AS-BUILT MAJOR CONTOUR
- --- DENOTES AS-BUILT MINOR CONTOUR



SECTION 18-47N-31W
 LOCATION MAP
 SCALE 1" = 2000'



RAISING THE NORTHWEST WALL PER THE CITY'S REQUEST.



WOODLAND GLEN 2ND PLAT
 STREET, STORMWATER, MASTER DRAINAGE,
 AND EROSION CONTROL PLANS
 WARD ROAD & WINTHROP DRIVE
 LEE'S SUMMIT, MISSOURI

REVISION DATE	DESCRIPTION
11/02/2023	AS-BUILT REVISIONS
11/14/2022	AS-BUILT
08/22/2022	CITY WALL MODIFICATION
08/16/2022	CITY EMAILED COMMENTS

DRAWN BY	CITY COMMENTS
BAL	04/24/2020
MB	01/12/2021
MAB	04/09/2021
MAB	05/12/2021
MAB	06/15/2021
MAB	06/28/2021
MAB	09/28/2021
MAB	10/08/2021
MAB	01/20/2022

DATE PREPARED	CITY COMMENTS
2-19-2020	02/19/2020
09/28/2021	09/28/2021
10/08/2021	10/08/2021
01/20/2022	01/20/2022

REVISION	DESCRIPTION
1	AS-BUILT
2	AS-BUILT
3	AS-BUILT
4	AS-BUILT
5	AS-BUILT
6	AS-BUILT
7	AS-BUILT
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96	AS-BUILT
97	AS-BUILT
98	AS-BUILT
99	AS-BUILT
100	AS-BUILT

10 YR STORM SEWER DESIGN CALCULATIONS

Design Storm: 10		"K" Value: 1.00		"F" Factor: 1.00																			
Runoff Calculations										Pipe Properties													
Inlet #	Area (acres)	"C" Value	Cumul. Area (acres)	Cumul. CxA	Runoff To Intensity	Cumul. Runoff	Pipe Cap.	Pipe Vel.	Up Piped Inlet 1	Up Piped Inlet 2	Up Area (acres)	Up CxA	Up Inlet	Down Inlet	Pipe Type	"n" Value	Pipe Size	Slope Length %	Drop In Inlet	FL Up	FL Down	Inlet Top	
LINE 100																							
101	0.42	0.60	2.14	1.28	5.6	7.17	1.81	9.21	17.50	5.57	0.00	0.00	101	100	HDPE	0.012	24	34.17	0.51	0.50	986.65	986.48	992.99
102	1.35	0.60	1.72	1.03	5.5	7.20	5.83	7.43	24.51	7.80	0.00	0.00	102	101	HDPE	0.012	24	35.00	1.00	0.75	987.50	987.15	992.99
103	0.00	0.60	0.37	0.22	5.4	7.24	0.00	1.61	13.09	10.67	0.13	0.08	103	102	HDPE	0.012	15	99.73	3.50	0.50	991.74	988.25	999.50
104	0.06	0.60	0.24	0.14	5.3	7.27	0.26	1.05	7.07	5.76	0.00	0.00	104	103	HDPE	0.012	15	31.45	1.02	0.50	992.57	992.24	998.00
105	0.18	0.60	0.18	0.11	5.0	7.35	0.79	0.79	6.26	5.10	0.00	0.00	105	104	HDPE	0.012	15	82.96	0.80	N/A	993.73	993.07	998.00
LINE 200																							
201	0.36	0.60	0.36	0.22	5.0	7.35	1.59	1.59	9.04	7.37	0.00	0.00	201	200	HDPE	0.012	15	68.80	1.67	N/A	984.00	982.85	990.50
*SEE FINAL STORMWATER REPORT FOR DETAILED POND CALCULATIONS																							
LINE 300																							
301	0.21	0.60	3.36	2.02	6.0	7.06	0.89	14.24	29.00	5.91	0.00	0.00	301	300	RCP	0.013	30	58.76	0.50	0.50	970.29	970.00	978.76
302	0.72	0.60	3.15	1.89	5.9	7.09	3.06	13.40	31.42	6.40	0.00	0.00	302	301	HDPE	0.012	30	35.01	0.50	0.50	970.97	970.79	978.75
303	0.56	0.60	2.43	1.46	5.3	7.25	2.44	10.57	14.44	8.17	0.67	0.40	303	302	HDPE	0.012	18	269.14	1.61	2.44	975.80	971.47	985.52
304	0.81	0.60	1.20	0.72	5.1	7.34	3.57	5.28	12.28	10.01	0.00	0.00	304	303	HDPE	0.012	15	169.67	3.08	0.50	983.47	978.24	990.43
305	0.39	0.60	0.39	0.23	5.0	7.35	1.72	1.72	13.09	10.67	0.00	0.00	305	304	HDPE	0.012	15	35.39	3.50	N/A	985.21	983.97	990.58
LINE 400																							
401	0.44	0.60	0.44	0.26	5.0	7.35	1.94	1.94	15.25	12.43	0.00	0.00	401	303	HDPE	0.012	15	97.58	4.75	N/A	984.44	979.80	988.88
Drop in Inlet 303 4.00																							
LINE 500																							
501	0.23	0.60	0.23	0.14	5.0	7.35	1.01	1.01	14.00	11.41	0.00	0.00	501	303	HDPE	0.012	15	35.31	4.00	N/A	981.21	979.80	985.65
Drop in Inlet 303 4.00																							
LINE 600																							
601	0.29	0.60	0.29	0.17	5.0	7.35	1.28	1.28	8.81	4.99	0.00	0.00	601	600	HDPE	0.012	18	73.11	0.60	N/A	970.44	970.00	975.50
*SEE FINAL STORMWATER REPORT FOR DETAILED POND CALCULATIONS																							
LINE 700																							
701	1.13	0.60	1.13	0.68	5.0	7.35	4.99	4.99	6.64	5.41	0.00	0.00	701	603	HDPE	0.012	15	45.00	0.90	N/A	968.53	968.12	973.50
*SEE FINAL STORMWATER REPORT FOR DETAILED POND CALCULATIONS																							
LINE 800																							
801	0.00	0.60	10.52	6.31	5.1	7.32	0.00	46.19	96.13	13.60	1001	1101	801	800	HDPE	0.012	36	234.80	1.77	0.50	974.21	970.05	981.50
802	0.00	0.60	10.33	6.20	5.1	7.33	0.00	45.41	94.33	13.34	0.00	0.00	802	801	RCP	0.013	36	24.52	2.00	7.00	975.20	974.71	992.37
803	0.00	0.60	10.33	6.20	5.0	7.35	0.00	45.54	72.61	14.79	0.00	0.00	803	802	HDPE	0.012	30	62.23	2.67	0.50	983.86	982.20	994.01
EX C.1.	10.33	0.60	10.33	6.20	5.0	7.35	45.57	45.57	78.61	16.02	0.00	0.00	EX C.1.	803	HDPE	0.012	30	14.92	3.13	0.50	984.82	984.36	994.02
LINE 900																							
901	0.67	0.60	1.41	0.85	5.1	7.33	2.95	6.20	11.28	9.20	0.00	0.00	901	EX G2	HDPE	0.012	15	167.35	2.60	0.50	998.14	993.79	1005.92
902	0.74	0.60	0.74	0.44	5.0	7.35	3.26	3.26	11.06	9.02	0.00	0.00	902	901	HDPE	0.012	15	47.05	2.50	N/A	999.82	998.64	1005.18
LINE 1000																							
1001	0.13	0.60	0.13	0.08	5.0	7.35	0.57	0.57	11.27	6.37	0.00	0.00	1001	801	HDPE	0.012	18	40.71	0.98	N/A	976.10	975.71	980.00
Drop in Inlet 801 1.50																							
LINE 1100																							
1101	0.06	0.60	0.06	0.04	5.0	7.35	0.26	0.26	11.38	6.44	0.00	0.00	1101	801	HDPE	0.012	18	31.59	1.00	N/A	976.02	975.71	980.00
Drop in Inlet 801 1.50																							
LINE 1200																							
1201	0.13	0.60	0.13	0.08	5.0	7.35	0.57	0.57	7.00	5.70	0.00	0.00	1201	103	HDPE	0.012	15	59.97	1.00	N/A	992.84	992.24	998.00
Drop in Inlet 103 0.50																							
* FLOW CAPTURED FROM THESE LINES DRAIN TO THE EXISTING DETENTION BASIN. THE ADDED DRAINAGE DOES NOT EXCEED THE DESIGN OF THE EXISTING BASIN.																							

100 YR STORM SEWER DESIGN CALCULATIONS

Design Storm: 100		"K" Value: 1.25		"F" Factor: 1.00																			
Runoff Calculations										Pipe Properties													
Inlet #	Area (acres)	"C" Value	Cumul. Area (acres)	Cumul. CxA	Runoff To Intensity	Cumul. Runoff	Pipe Cap.	Pipe Vel.	Up Piped Inlet 1	Up Piped Inlet 2	Up Area (acres)	Up CxA	Up Inlet	Down Inlet	Pipe Type	"n" Value	Pipe Size	Slope Length %	Drop In Inlet	FL Up	FL Down	Inlet Top	
LINE 100																							
101	0.42	0.60	2.14	1.28	5.6	10.08	3.18	16.18	17.50	5.57	0.00	0.00	101	100	HDPE	0.012	24	34.17	0.51	0.50	986.65	986.48	992.99
102	1.35	0.60	1.72	1.03	5.5	10.11	10.24	13.04	24.51	7.80	0.00	0.00	102	101	HDPE	0.012	24	35.00	1.00	0.75	987.50	987.15	992.99
103	0.00	0.60	0.37	0.22	5.4	10.17	0.00	2.82	13.09	10.67	0.13	0.08	103	102	HDPE	0.012	15	99.73	3.50	0.50	991.74	988.25	999.50
104	0.06	0.60	0.24	0.14	5.3	10.21	0.46	1.84	7.07	5.76	0.00	0.00	104	103	HDPE	0.012	15	31.45	1.02	0.50	992.57	992.24	998.00
105	0.18	0.60	0.18	0.11	5.0	10.32	1.39	1.39	6.26	5.10	0.00	0.00	105	104	HDPE	0.012	15	82.96	0.80	N/A	993.73	993.07	998.00
LINE 200																							
201	0.36	0.60	0.36	0.22	5.0	10.32	2.79	2.79	9.04	7.37	0.00	0.00	201	200	HDPE	0.012	15	68.80	1.67	N/A	984.00	982.85	990.50
*SEE FINAL STORMWATER REPORT FOR DETAILED POND CALCULATIONS																							
LINE 300																							
301	0.21	0.60	3.36	2.02	6.0	9.93	1.56	25.03	29.00	5.91	0.00	0.00	301	300	RCP	0.013	30	58.76	0.50	0.50	970.29	970.00	978.76
302	0.72	0.60	3.15	1.89	5.9	9.97	5.38	23.55	31.42	6.40	0.00	0.00	302	301	HDPE	0.012	30	35.01	0.50	0.50	970.97	970.79	978.75
303	0.56	0.60	2.43	1.46	5.3	10.18	4.28	18.56	14.44	8.17	0.67	0.40	303	302	HDPE	0.012	18	269.14	1.61	2.44	975.80	971.47	985.52
304	0.81	0.60	1.20	0.72	5.1	10.30	6.26	9.27	12.28	10.01	0.00	0.00	304	303	HDPE	0.012	15	169.67	3.08	0.50	983.47	978.24	990.43
305	0.39	0.60	0.39	0.23	5.0	10.32	3.02	3.02	13.09	10.67	0.00	0.00	305	304	HDPE	0.012	15	35.39	3.50	N/A	985.21	983.97	990.58
LINE 400																							
401	0.44	0.60	0.44	0.26	5.0	10.32	3.41	3.41	15.25	12.43	0.00	0.00	401	303	HDPE	0.012	15	97.58	4.75	N/A	984.44	979.80	988.88
Drop in Inlet 303 4.00																							
LINE 500																							
501	0.23	0.60	0.23	0.14	5.0	10.32	1.78	1.78	14.00	11.41	0.00	0.00	501	303	HDPE	0.012	15	35.31	4.00	N/A	981.21	979.80	985.65
Drop in Inlet 303 4.00																							
LINE 600																							
601	0.29	0.60	0.29	0.17	5.0	10.32	2.25	2.25	8.81	4.99	0.00	0.00	601	600	HDPE	0.012	18	73.11	0.60	N/A	970.44	970.00	975.50
*SEE FINAL STORMWATER REPORT FOR DETAILED POND CALCULATIONS																							
LINE 700																							
701	1.13	0.60	1.13	0.68	5.0	10.32	8.75	8.75	6.64	5.41	0.00	0.00	701	603	HDPE	0.012	15	45.00	0.90	N/A	968.53	968.12	973.50
*SEE FINAL STORMWATER REPORT FOR DETAILED POND CALCULATIONS																							
LINE 800																							
801	0.00	0.60	10.52	6.31	5.1	10.27	0.00	81.07	96.13	13.60	1001	1101	801	800	HDPE	0.012	36	234.80	1.77	0.50	974.21	970.05	981.50
802	0.00	0.60	10.33	6.20	5.1	10.29	0.00	79.70	94.33	13.34	0.00	0.00	802	801	RCP	0.013	36	24.52	2.00	7.00	975.20	974.71	992.37
803	0.00	0.60	10.33	6.20	5.0	10.32	0.00	79.92	72.61	14.79	0.00	0.00	803	802	HDPE								