

### Parks & Recreation Commission AGENDA FOR FEBRUARY 28, 2024 NORTH RIDGEVILLE SENIOR CENTER 7:30 PM

- I. CALL TO ORDER
- II. PLEDGE OF ALLEGIANCE
- III. ROLL CALL
- IV. FINALIZATION OF AGENDA
- V. APPROVAL OF MINUTES
- VI. LOBBY
- VII. REPORTS
  - A. COUNCIL LIAISON'S REPORT
  - B. SCHOOL BOARD LIAISON'S REPORT
  - C. FINANCIAL REPORT
  - D. DIRECTORS REPORT
  - E. RECREATION SUPERVISOR REPORT
  - F. GROUNDS MAINTENANCE REPORT
- VIII. OLD BUSINESS
- IX. NEW BUSINESS
- X. ADJOURNMENT



The Parks and Recreation Commission Meeting was called to order by Vice Chairman Keriann Roach at 7:30p.m.

### **ROLL CALL:**

Jeff Grigsby, Jill Timoteo, Georgia Awig, Keriann Roach and Parks and Recreation Director Kevin Fougerousse.

Excused Absence: Douglas Hayes

### FINALIZATION OF AGENDA:

Motion by Roach, 2<sup>nd</sup> by Timoteo for approval of Agenda.

4 – Yes, 0 – No

### **ELECTION OF OFFICERS:**

Board Member Jeff Grigsby nominated Douglas Hayes for Chairman, with a 2<sup>nd</sup> by Timoteo.

4-Yes, 0-No

Douglas Hayes will serve as Chairman for 1 year.

Board Member Keriann Roach nominated Jill Timoteo for Vice-Chairman, with a 2<sup>nd</sup> by Grigsby

4-Yes, 0-No,

Jill Timoteo will serve as Vice-Chairman for 1 year

### **APPROVAL OF MINUTES:**

Approval of minutes for our regularly scheduled commission meeting that was held on Wednesday, December 6, 2023.

Motion by Awig, 2<sup>nd</sup> by Roach for approval of minutes from our commission meeting that was held on Wednesday, December 6, 2023.

4-Yes, 0-No

### LOBBY:

No report.



### **REPORTS:**

### COUNCIL LIAISONS REPORT:

Councilwoman Georgia Awig mentioned that soon the new police department will be completed. Once completed they will do renovations in the current police department that will house the engineering and building departments. There is a monthly newsletter now. City is currently working on a new website that will come out hopefully in the 1<sup>st</sup> quarter of this year. Coffee and Conversation with the Mayor is February 12.

#### SCHOOL BOARD LIAISONS REPORT:

Jeff Grigsby reported that the school district/panel chose TDA to be the architect for the new high school/transportation facility. There were tours done again at Willoughby South and also Eastlake North. Separately they did a tour of the transportation facility in Strongsville. Liberty Schools received a grant last year to install doors on the facility. This year they got funding to build permanent partitions at Liberty that have insulation and provide a stronger sound barrier for teaching. Liberty will also add 8 trailers to the school to accommodate growth in the school. The next meeting will be February 6<sup>th</sup>.

#### FINANCIAL REPORT:

Parks and Recreation Director Kevin Fougerousse discussed the revenues and expenses from 2023. Trust Fund revenue in November of 2023 was \$22,241.90 and in December of 2023 was 20,175.18. Trust Fund unencumbered balance at the end of 2023 was \$314,614.26. The Park and Recreation Improvement Fund revenue in November of 2023 was \$1,453.34 and in December of 2023 it was \$2,204.73. The Park and Recreation Improvement Fund unencumbered balance at the end of 2023 was \$281,051.26. Our General Fund expenses in November 2023 were \$67,660.90 and in December of 2023 were \$58,340.71. Trust Fund expenses in November 2023 were \$23,252.08 and in December of 2023 expenses were 15,803.20.

### **DIRECTORS REPORT:**

Parks and Recreation Director Kevin Fougerousse announced that the City is moving forward with the TLCI Planning Grant. NOACA and the City hired Envision Group to oversee the project. The Steering Committee will have held their first meeting on Thursday, January 18 with Envision Group. We are excited to finally start this project after a 2-year wait.

#### **RECREATION SUPERVISOR REPORT:**

NR Youth Lacrosse Program is open to kids from 3<sup>rd</sup>-8<sup>th</sup> grade. We currently have 10 in Bantam (3<sup>rd</sup> & 4<sup>th</sup> Grade), 14 in Youth (5<sup>th</sup> & 6<sup>th</sup> Grade) and 09 in Middle School (7<sup>th</sup> & 8<sup>th</sup> Grade). NRHS Lacrosse Program is a club team and currently has 04 pre-registered. Our Junior Golf Lessons runs January 16-February 20 and have 08 kids registered. Our Daddy-Daughter Dance will be held on Saturday, February 3 from 7:00-9:00PM at the NRAC Cafetorium. Daddy-Daughter Dance is full with 155 couples. All Levels Yoga started on January 4 and the class has 14 pre-registered. Ashtanga Yoga started January 9<sup>th</sup> and has 06 enrolled. Restorative Yoga started on January 22 and we had 22 enrolled.

#### **GROUNDS MAINTENANCE REPORT:**

Marc Allen reported that they are installing 2 furnaces at the service garage. Will be getting a quote for a new mini-split to install at the Community Cabin in South Central Park. We lost Zach Merkosky a long-time employee with the City. He accepted a new job with the City of Lakewood. Been helping the Police Department assemble chairs, tables, etc. for the new Police Station.



### **OLD BUSINESS:**

### **NEW BUSINESS:**

Keriann Roach asked about the status of Olde Town Hall. Marc Allen mentioned a meeting was being setup to get an update. Electrical upgrades were being done and completed.

ADJOURNMENT: Meeting adjourned at 7:49PM



### **TRUST FUND REVENUE (275):**

Month	2023 Fiscal Year	2024 Fiscal Year	Difference + / -	Percentage +/-
January	\$30,428.79	\$42,795.43	(+) \$12,366.64	(+) 40.64%

Unencumbered balance through January 2023: \$213,892.37

### PARK AND RECREATION IMPROVEMENT FUND REVENUE (280):

Month	2023 Fiscal Year	2024 Fiscal Year	Difference + / -	Percentage +/-				
January	\$6,899.28	\$4,633.44	(-) \$2,265.84	(-) 32.84%				

Unencumbered balance through January 2023: \$281,051.26

### **GENERAL FUND EXPENSES (185):**

Month	2023 Fiscal Year	2024 Fiscal Year
January	\$75,028.40	\$41,971.64

### **TRUST FUND EXPENSES (275):**

Month	2023 Fiscal Year	2024 Fiscal Year
January	\$22,798.28	\$15,911.56

## **DIRECTORS REPORT:**

### **Root Road Park Parking Lot Project:**

Do the initial cost of the Parking Lot at Root Road Park we initiated a conversation with Brent Anderson at Rafter to revise the plans with the potential for a lower price tag. We received revised plans on the week of February 12 and are currently waiting for the updated estimate. I have provided the revised plans to the commission.

### South Central Park Playground Project:

We have finished the RFP for the South-Central Park Playground Project. We are looking to advertise within the next couple of weeks for the project. The Department hired GPD Group to help construct the RFP and put together the criteria architecture behind the design build.

### **PROGRAM REPORT:**

**Program Name:** Baseball Hitting Clinic **Instructor:** Mike Byrne **Date:** March 3 – March 24 **Current Enrollment:** 6-8 yr. olds: 09 9-11 yr. olds: 10 12-14 yr. olds: 01

### **Program Description:**

These hitting clinics are designed to improve one's skills while participating in a number of drills/exercises geared towards enhancing the player's performance. These drills will be done under the supervision of Mike Byrne. Mike is a youth baseball coach with over 10 years of experience running hitting clinics and coaching high school and travel programs.

**Program Name:** Jr. Browns Flag Football – K-2<sup>nd</sup> Grade **Date:** April - May **Current Enrollment:** 72

### **Program Description:**

Our flag football league partners with the Cleveland Browns and NFL Flag. All teams will receive an official NFL team-branded jersey and flag belts. Teams will compete in a 6-week league with North Olmsted Parks and Recreation, Fairview Park Recreation and Avon Lake. Teams will practice during the week with games being played on Saturdays.

**Program Name:** Jr. Browns Flag Football – 3<sup>rd</sup> & 4th / 5<sup>th</sup> & 6<sup>th</sup> Grade **Date:** April - May **Current Enrollment:** 3<sup>rd</sup> & 4<sup>th</sup> Grade: 27 5<sup>th</sup> & 6<sup>th</sup> Grade: 14

## **Program Description:**

Our flag football league partners with the Cleveland Browns and NFL Flag. All teams will receive an official NFL team-branded jersey and flag belts. Teams will compete in a 6-week league with North Olmsted Parks and Recreation Fairview Park Recreation and Avon Lake. Teams will practice during the week with games being played on Saturdays.

**Program Name:** Jr. Browns Flag Football – 3<sup>rd</sup> & 4th / 5<sup>th</sup> & 6<sup>th</sup> Grade **Date:** April - May **Current Enrollment:** 3<sup>rd</sup> & 4<sup>th</sup> Grade: 27 5<sup>th</sup> & 6<sup>th</sup> Grade: 15

### **Program Description:**

Our flag football league partners with the Cleveland Browns and NFL Flag. All teams will receive an official NFL team-branded jersey and flag belts. Teams will compete in a 6-week league with North Olmsted Parks and Recreation Fairview Park Recreation and Avon Lake. Teams will practice during the week with games being played on Saturdays.

Program Name: Gridiron Girls Youth Flag Football Date: April - June Current Enrollment: 1<sup>st</sup> & 2<sup>nd</sup> Grade: 05 3<sup>rd</sup> & 4<sup>th</sup> Grade: 02 5<sup>th</sup> & 6<sup>th</sup> Grade: 05

## **Program Description:**

The Cleveland Browns are working throughout Northeast Ohio to promote girls flag football. The goal is to have the sport fully sanctioned as a high school sport by OHSAA in the near future. This youth league will hopefully generate interest for high schools to add the sport at their schools. We will partner with surrounding communities Berea, Avon Lake, Fairview, North Olmsted and Olmsted Falls. Teams will compete in a 6-week league. Teams will practice during the week (practice day/time chosen by coach) with games being played on Sundays.

**Program Name:** Little Rangers Instructional Basketball **Instructor:** NRHS Girls Varsity Basketball Team & Coaching Staff **Date:** April 10 – May 15 **Current Enrollment:** Pre K-K: 33 1<sup>st</sup>& 2<sup>nd</sup> Grade: 03

### **Program Description:**

NRHS Girls Varsity Head Coach Amy Esser along with her staff and HS players will lead the Little Rangers program this spring for students in grades Pre-K to 2nd Grade. Players will learn fundamental skills that include but are not limited to: dribbling, shooting, passing, and defensive principles. These will be instructional sessions that will include drill work and games to help improve their basketball skills. We ask that all players bring their own basketball. Jr. Size (25.5) for Pre K-K and youth size (27.5) for 1st and 2nd Grade.

**Program Name:** Daddy Daughter Dance, Theme Candyland **Date:** February 3<sup>RD</sup>, 2024 **Time:** 7:00PM-9:00PM **Enrollment:** 163 Couples

### **Program Description:**

Dads came out to enjoy an evening all dressed up with their special little girl. Light refreshments were served, plenty of dancing was done and a photographer was present to capture the evening full of memories.

**Program Name:** Tots Yoga **Date:** 02/21/2024 **Time:** 6:00-7:00PM **Enrollment:** 5

### **Program Description:**

Join Brandy Reichman for Tots Yoga. Children ages 3-6 will use story time to learn different yoga poses and strategies to help them develop body awareness, self-control, flexibility and strength. This program is designed to enhance their creativity, confidence and coordination through the duration of class. Child will receive the book used during class to take home. Minimal parental involvement encouraged.

**Program Name:** Spinning WED **Date:** 03/06/2024 – 04/10/2024 **Time:** 6:00-7:30PM **Current Enrollment:** 12 (Class is Full)

### **Program Description:**

When in need of a challenging workout, innovative equipment, or a flat-out fun experience, look to Spinning and start enjoying the benefits of indoor cycling. This class is a great cardiovascular workout. Pedal through hill climbs, sprints, and many other challenging drills and exercises. An indoor cycling class set to exciting music tracks and choreographed to provide an excellent workout and improve cardiovascular conditioning. Each session is 6 weeks. Please bring a water bottle and towel.

## City of North Ridgeville Revenue Report

## Accounts: 101.150.000000 to 890.800.510601

As Of: 1/1/2024 to 1/31/2024

Include Inactive Accounts: No	)
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Account	Description	Budget	MTD Revenue	YTD Revenue	Uncollected	% Collected
270	CEMETERY			Target Percent:	8.33%	
DEPT: 000				-		
270.000.500531	LOT SALES	\$15,000.00	\$1,200.00	\$1,200.00	\$13,800.00	8.00%
270.000.500532	BURIALS	\$13,000.00	\$825.00	\$825.00	\$12,175.00	6.35%
270.000.500547	CHARGES FOR SERVICES	\$5,500.00	\$0.00	\$0.00	\$5,500.00	0.00%
270.000.700110	INTEREST INCOME	\$7,000.00	\$814.42	\$814.42	\$6,185.58	11.63%
270.000.800300	REIMBURSEMENT STATE BURIAL, INDI	\$3,000.00	\$0.00	\$0.00	\$3,000.00	0.00%
270.000.800892	OTHER REVENUE	\$0.00	\$0.00	\$0.00	\$0.00	N/A
	DEPT: 000 Totals:	\$43,500.00	\$2,839.42	\$2,839.42	\$40,660.58	6.53%
270 Total:		\$43,500.00	\$2,839.42	\$2,839.42	\$40,660.58	6.53%
275	PARK & RECREATION TRUST			Target Percent:	8.33%	
DEPT: 000						
275.000.000000	PARK & REC TRUST FUND	\$0.00	\$0.00	\$0.00	\$0.00	N/A
275.000.400110	GRANT PROCEEDS	\$500.00	\$0.00	\$0.00	\$500.00	0.00%
275.000.500547	CHARGES FOR SERVICES	\$318,500.00	\$42,071.50	\$42,071.50	\$276,428.50	13.21%
275.000.500556	CONCESSION SALES	\$10,000.00	\$0.00	\$0.00	\$10,000.00	0.00%
275.000.700110		\$8,000.00	\$723.93	\$723.93	\$7,276.07	9.05%
275.000.800892	OTHER REVENUE	\$0.00	\$0.00	\$0.00	\$0.00	N/A
	DEPT: 000 Totals:	\$337,000.00	\$42,795.43	\$42,795.43	\$294,204.57	12.70%
275 Total:		\$337,000.00	\$42,795.43	\$42,795.43	\$294,204.57	12.70%
280	PARK & RECREATION IMPROVEME	ENT		Target Percent:	8.33%	
DEPT: 000	PARK & REC IMP FUND	¢0.00	¢0.00	<b>#0.00</b>	¢0.00	N1/A
280.000.000000 280.000.422130	P & R TRAIL GRANT PROCEEDS	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	N/A N/A
280.000.422130	BUILDING FEES	\$0.00 \$34,000.00	\$0.00 \$4,000.00	\$0.00 \$4,000.00	\$0.00 \$30,000.00	11.76%
280.000.700110	INTEREST INCOME	\$34,000.00 \$5,600.00	\$633.44	\$633.44	\$30,000.00 \$4,966.56	11.31%
280.000.800892	OTHER REVENUE	\$5,600.00 \$0.00	\$0.00	\$0.00	\$4,900.00 \$0.00	N/A
200.000.000032	DEPT: 000 Totals:	\$39,600.00	\$4,633.44	\$4,633.44	\$34,966.56	11.70%
280 Total:		\$39,600.00	\$4,633.44	\$4,633.44	\$34,966.56	11.70%
890	TRUST MISCELLANEOUS			Target Percent:	8.33%	
DEPT: 000						
890.000.630601	PR MEMORIAL TREE PROGRAM	\$1,000.00	\$0.00	\$0.00	\$1,000.00	0.00%
	DEPT: 000 Totals:	\$1,000.00	\$0.00	\$0.00	\$1,000.00	0.00%
890 Total:		\$1,000.00	\$0.00	\$0.00	\$1,000.00	0.00%

		Revenue R	Report						
As Of: 1/1/2024 to 1/31/2024									
Account	Description	Budget	MTD Revenue	YTD Revenue	Uncollected	% Collected			
Grand Total:		\$421,100.00	\$50,268.29	\$50,268.29	\$370,831.71	11.94%			
				Tai	rget Percent:	8.33%			

## City of North Ridgeville Statement of Cash Position with MTD Totals

From: 1/1/2024 to 1/31/2024

## Funds: 275 to 280

Include Inactive Accounts: No

Page Break on Fund: No

Fund	Description	Beginning Balance	Net Revenue MTD	Net Revenue YTD	Net Expenses MTD	Net Expenses YTD	Unexpended Balance	Encumbrance YTD	Ending Balance
275	PARK & RECREATION TRUST	\$331,644.48	\$42,795.43	\$42,795.43	\$15,911.56	\$15,911.56	\$358,528.35	\$144,635.98	\$213,892.37
280	PARK & RECREATION IMPROVEMENT	\$284,709.33	\$4,633.44	\$4,633.44	\$0.00	\$0.00	\$289,342.77	\$0.00	\$289,342.77
Grand	Total:	\$616,353.81	\$47,428.87	\$47,428.87	\$15,911.56	\$15,911.56	\$647,871.12	\$144,635.98	\$503,235.14

## City of North Ridgeville Expense Report

## Accounts: 101.185.100101 to 101.185.417024

Account Access Group: N/A

As Of: 1/1/2024 to 1/31/2024

Account	Description	Budget	MTD Expense	YTD Expense	UnExp. Balance	Encumbrance	Unenc. Balance	% Used
101	GENERAL					Target Percent:	8.33%	
PARK & RECREAT	ION							
101.185.100101	WAGES-SUPER	\$82,200.00	\$6,030.01	\$6,030.01	\$76,169.99	\$0.00	\$76,169.99	7.34%
101.185.100102	WAGES-STAFF	\$97,300.00	\$7,142.59	\$7,142.59	\$90,157.41	\$0.00	\$90,157.41	7.34%
101.185.100111	INCENTIVE PAY	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	N/A
101.185.100117	RETIREE/SEPARATION	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	N/A
101.185.100120	OVERTIME	\$500.00	\$0.00	\$0.00	\$500.00	\$0.00	\$500.00	0.00%
101.185.100127	CT CASH OUT	\$2,500.00	\$0.00	\$0.00	\$2,500.00	\$0.00	\$2,500.00	0.00%
101.185.100128	COMP ABSENCES	\$500.00	\$0.00	\$0.00	\$500.00	\$0.00	\$500.00	0.00%
101.185.100130	LONGEVITY	\$2,100.00	\$0.00	\$0.00	\$2,100.00	\$0.00	\$2,100.00	0.00%
101.185.100190	OTHER COMP	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	N/A
101.185.120125	EMPLOYEE BENEFITS	\$71,600.00	\$5,379.57	\$5,379.57	\$66,220.43	\$3,150.00	\$63,070.43	11.91%
101.185.120127	EMPLOYER HSA CONTRIBU	\$2,250.00	\$2,250.00	\$2,250.00	\$0.00	\$0.00	\$0.00	100.00%
101.185.120155	RETIREMENT	\$29,450.00	\$5,968.39	\$5,968.39	\$23,481.61	\$0.00	\$23,481.61	20.27%
101.185.130100	MEMBERSHIP/EDUCATION	\$2,500.00	\$370.00	\$370.00	\$2,130.00	\$0.00	\$2,130.00	14.80%
101.185.130120	TRAVEL/TRANSPORTATION	\$1,500.00	\$128.00	\$128.00	\$1,372.00	\$339.20	\$1,032.80	31.15%
101.185.130130	UNIFORMS	\$316.50	\$28.60	\$28.60	\$287.90	\$286.90	\$1.00	99.68%
101.185.130150	PHYSICAL EXAMS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	N/A
101.185.210100	OFFICE SUPPLIES	\$1,095.31	\$8.50	\$8.50	\$1,086.81	\$1,086.81	\$0.00	100.00%
101.185.215100	OPERATING SUPPLIES	\$5,268.48	\$37.84	\$37.84	\$5,230.64	\$4,330.64	\$900.00	82.92%
101.185.215115	JANITORIAL SUPPLIES	\$3,265.11	\$0.00	\$0.00	\$3,265.11	\$3,265.11	\$0.00	100.00%
101.185.215240	FUEL	\$2,500.00	\$37.38	\$37.38	\$2,462.62	\$0.00	\$2,462.62	1.50%
101.185.215270	SMALL TOOLS / EQUIPMEN	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	N/A
101.185.310110	ELECTRIC	\$44,473.43	\$6,406.55	\$6,406.55	\$38,066.88	\$36,066.88	\$2,000.00	95.50%
101.185.310120	WATER / SEWER	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	N/A
101.185.310130	NATURAL GAS / OIL	\$1,710.23	\$155.89	\$155.89	\$1,554.34	\$1,554.34	\$0.00	100.00%
101.185.315110	PHONE	\$870.00	\$0.00	\$0.00	\$870.00	\$840.00	\$30.00	96.55%
101.185.315120	CELLULAR PHONE / DATA	\$3,123.02	\$165.23	\$165.23	\$2,957.79	\$357.79	\$2,600.00	16.75%
101.185.315130	NETWORK / INTERNET / CA	\$0.30	\$0.00	\$0.00	\$0.30	\$0.30	\$0.00	100.00%
101.185.315140	ELECT. MEDIA/SUBSCRIPTI	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	N/A
101.185.315190	OTHER COMMUNICATIONS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	N/A
101.185.315200	ADVERTISING	\$500.00	\$0.00	\$0.00	\$500.00	\$250.00	\$250.00	50.00%
101.185.320110	M&R EQUIP CTY GARAGE	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	N/A
101.185.320120	M&R EQUIPMENT - EXTERN	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	N/A
101.185.320130	EQUIPMENT SRV PLANS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	N/A
101.185.320210	M&R VEHICLES-CTY GARA	\$3,000.00	\$556.49	\$556.49	\$2,443.51	\$0.00	\$2,443.51	18.55%
101.185.320420	M&R BUILDINGS	\$5,100.00	\$0.00	\$0.00	\$5,100.00	\$4,661.00	\$439.00	91.39%

## Expense Report As Of: 1/1/2024 to 1/31/2024

Account	Description	Budget	MTD Expense	YTD Expense	UnExp. Balance	Encumbrance	Unenc. Balance	% Used
101.185.320500	M&R LANDS & GROUNDS	\$73,932.56	\$1,175.36	\$1,175.36	\$72,757.20	\$23,877.20	\$48,880.00	33.89%
101.185.325100	EQUIPMENT RENTAL	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	N/A
101.185.330100	PROFESSIONAL SERVICE	\$12,830.69	\$988.31	\$988.31	\$11,842.38	\$10,218.38	\$1,624.00	87.34%
101.185.340100	INSURANCE	\$5,000.00	\$0.00	\$0.00	\$5,000.00	\$0.00	\$5,000.00	0.00%
101.185.350455	CUSTODIAL	\$50,295.48	\$4,002.86	\$4,002.86	\$46,292.62	\$46,064.62	\$228.00	99.55%
101.185.350800	IT LICENSES & SUPPORT	\$200.00	\$0.00	\$0.00	\$200.00	\$179.99	\$20.01	90.00%
101.185.360320	VEHICLE LEASE	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	N/A
101.185.400030	EQUIPMENT LEASING	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	N/A
101.185.400031	MAINT/SVC AGREEMENTS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	N/A
101.185.400033	COPIERS/PRINTERS	\$4,191.61	\$1,140.07	\$1,140.07	\$3,051.54	\$3,051.54	\$0.00	100.00%
101.185.400050	EQUIPMENT OUTLAY	\$6,000.00	\$0.00	\$0.00	\$6,000.00	\$5,846.49	\$153.51	97.44%
101.185.417024	VICTORY PARK PAVING	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	N/A
	PARK & RECREATION Totals:	\$516,072.72	\$41,971.64	\$41,971.64	\$474,101.08	\$145,427.19	\$328,673.89	36.31%
101 Total:		\$516,072.72	\$41,971.64	\$41,971.64	\$474,101.08	\$145,427.19	\$328,673.89	36.31%
Grand Total:		\$516,072.72	\$41,971.64	\$41,971.64	\$474,101.08	\$145,427.19	\$328,673.89	36.31%

Target Percent: 8.33%

## City of North Ridgeville Expense Report

Accounts: 275.380.100102 to 275.380.510050

Account Access Group: N/A

As Of: 1/1/2024 to 1/31/2024

Account	Description	Budget	MTD Expense	YTD Expense	UnExp. Balance	Encumbrance	Unenc. Balance	% Used
275	PARK & RECREATI	ON TRUST				Target Percent:	8.33%	
PARK & RECREAT	ION TRUST							
275.380.100102	WAGES-COMM EDUCATE	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	N/A
275.380.100103	WAGES-SCP	\$65,700.00	\$852.83	\$852.83	\$64,847.17	\$0.00	\$64,847.17	1.30%
275.380.120125	EMPLOYEE BENEFITS	\$2,300.00	\$100.92	\$100.92	\$2,199.08	\$1,160.00	\$1,039.08	54.82%
275.380.120155	RETIREMENT	\$9,200.00	\$79.81	\$79.81	\$9,120.19	\$0.00	\$9,120.19	0.87%
275.380.210100	OFFICE SUPPLIES	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	N/A
275.380.215100	OPERATING SUPPLIES	\$8,000.00	\$0.00	\$0.00	\$8,000.00	\$0.00	\$8,000.00	0.00%
275.380.215201	BB-SUPP/EXP	\$21,000.00	\$0.00	\$0.00	\$21,000.00	\$3,000.00	\$18,000.00	14.29%
275.380.215204	COM ED-SUPP/EXP	\$15,897.02	\$0.00	\$0.00	\$15,897.02	\$4,464.52	\$11,432.50	28.08%
275.380.215208	SPECIAL EVENTS	\$47,006.26	\$0.00	\$0.00	\$47,006.26	\$7,356.26	\$39,650.00	15.65%
275.380.215212	SPORTS-SUPP/EXP	\$41,242.45	\$900.00	\$900.00	\$40,342.45	\$15,325.45	\$25,017.00	39.34%
275.380.215216	CLINICS-SUPP/EXP	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	N/A
275.380.215219	CONCESSIONS-SUPP/EXP	\$11,500.00	\$0.00	\$0.00	\$11,500.00	\$10,000.00	\$1,500.00	86.96%
275.380.215270	SMALL TOOLS / EQUIPMEN	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	N/A
275.380.315110	PHONE	\$400.00	\$0.00	\$0.00	\$400.00	\$399.00	\$1.00	99.75%
275.380.315120	CELLULAR PHONE / DATA	\$1,766.45	\$122.09	\$122.09	\$1,644.36	\$1,584.36	\$60.00	96.60%
275.380.315130	NETWORK / INTERNET / CA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	N/A
275.380.315140	ELECT. MEDIA/SUBSCRIPTI	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	N/A
275.380.315190	OTHER COMMUNICATIONS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	N/A
275.380.315300	POSTAGE	\$500.00	\$0.00	\$0.00	\$500.00	\$0.00	\$500.00	0.00%
275.380.315403	BROCHURES ETC	\$2,680.82	\$430.82	\$430.82	\$2,250.00	\$2,250.00	\$0.00	100.00%
275.380.325200	FACILITY RENTAL	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	N/A
275.380.330100	PROFESSIONAL SERVICES	\$26,483.73	\$14.42	\$14.42	\$26,469.31	\$19,569.31	\$6,900.00	73.95%
275.380.330130	ENGINEERING SERVICES	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	N/A
275.380.350112	MERCHANT SERVICE FEES	\$8,000.00	\$524.67	\$524.67	\$7,475.33	\$0.00	\$7,475.33	6.56%
275.380.350201	BB-CONTRACT SVC	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	N/A
275.380.350204	COM ED-CONTRACT SVCS	\$35,427.92	\$1,925.00	\$1,925.00	\$33,502.92	\$14,720.00	\$18,782.92	46.98%
275.380.350212	SPORTS-CONTRACT SVCS	\$34,000.00	\$10,800.00	\$10,800.00	\$23,200.00	\$5,500.00	\$17,700.00	47.94%
275.380.350216	CLINICS-CONTRACT SVCS	\$12,000.00	\$0.00	\$0.00	\$12,000.00	\$10,000.00	\$2,000.00	83.33%
275.380.350219	CONCESSIONS-CONTRACT	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	N/A
275.380.350800	IT LICENSES & SUPPORT	\$4,300.00	\$0.00	\$0.00	\$4,300.00	\$3,900.00	\$400.00	90.70%
275.380.350807	OTHER - SFTWR EXP	\$2,052.00	\$161.00	\$161.00	\$1,891.00	\$1,871.00	\$20.00	99.03%
275.380.400030	EQUIPMENT LEASING	\$10,750.00	\$0.00	\$0.00	\$10,750.00	\$10,750.00	\$0.00	100.00%
275.380.400031	MAINT/SVC AGREEMENTS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	N/A
275.380.400050	EQUIPMENT OUTLAY	\$48,500.00	\$0.00	\$0.00	\$48,500.00	\$32,786.08	\$15,713.92	67.60%
275.380.415304	SD ACCESSIBLE WALKWAY	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	N/A

Include Inactive Accounts: No

Include Pre-Encumbrances: No

## Expense Report As Of: 1/1/2024 to 1/31/2024

Account	Description	Budget	MTD Expense	YTD Expense	UnExp. Balance	Encumbrance	Unenc. Balance	% Used
275.380.510050	REFUNDS	\$1,000.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$1,000.00	0.00%
PARK & F	RECREATION TRUST Totals:	\$409,706.65	\$15,911.56	\$15,911.56	\$393,795.09	\$144,635.98	\$249,159.11	39.19%
275 Total:		\$409,706.65	\$15,911.56	\$15,911.56	\$393,795.09	\$144,635.98	\$249,159.11	39.19%
Grand Total:		\$409,706.65	\$15,911.56	\$15,911.56	\$393,795.09	\$144,635.98	\$249,159.11	39.19%

Target Percent: 8.33%

# CITY OF NORTH RIDGEVILLE PARKS DEPARTMENT ROOT ROAD PARK PAVEMENT & SITE IMPROVEMENTS 8949 ROOT ROAD, NORTH RIDGEVILLE, OHIO 44039

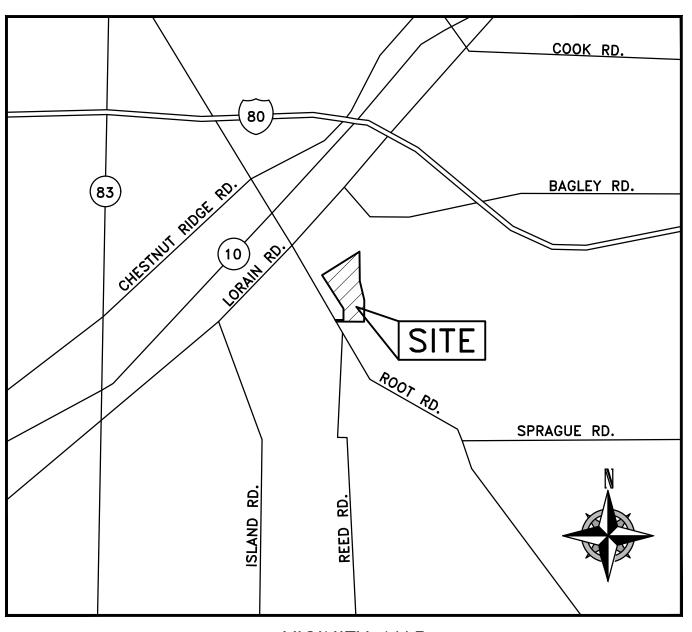
## LEGEND OF LINETYPES

	CENTERLINE
	EX. PAVEMENT
·	DITCH/CREEK/SWALE
	EX. SETBACK LINES
000	EX. MINOR CONTOUR
000	
	EX. MAJOR CONTOUR
STM <	EX. STORM
SAN	EX. SANITARY
w	EX. WATER
G	EX. GAS
DHW	EX. OVERHEAD UTILITIES
T	EX. TELEPHONE
е	EX. U.G. ELECTRIC
000	PROP. MINOR CONTOUR
000	PROP. MAJOR CONTOUR
	PROP. STORM
SAN	PROP. SANITARY
v	PROP. WATER
G	PROP. GAS
DHV	PROP. OVERHEAD UTILITIES
T	PROP. TELEPHONE
<u> </u>	PROP. U.G. ELECTRIC
W/L	CONSTRUCTION LIMITS
SF	SILT FENCE

LEGEND OF	SYMBOLS
ಂಂ	CLEAN OUT
$^{\Diamond}\mathbf{O}_{\!\!\mathcal{S}}$	DOWNSPOUT
<sup>⊥</sup> O <sup>⊘</sup>	YARD DRAIN
(TP)	STORM MANHOLE
SAN	SANITARY MANHOLE
	CATCH BASIN
র্ম	HYDRANT
3 <sup>d</sup> O <sup>L</sup>	WATER VALVE
°O <sup>1</sup>	GAS REG/METER
$_{\mathcal{I}_{i}}\mathbf{O}_{\mathcal{S}}$	WATER REG/METER
	ELECTRICAL METER
os	GAS VALVE
	UTILITY POLE
c	GUY ANCHOR
0	BOLLARD
٩	SIGN
(XxX)	SOILS TYPE
0	IRON PIN/PIPE FOUND
[M]	AS INDICATED IRON PIN/PIPE FOUND IN
<b>F1</b>	MONUMENT BOX AS INDICATED
Pاز خ	INLET PROTECTION
	DEMOLITION AREA

## LIST OF UTILITY COMPANIES IN THE AREA

COMPANY NAME	DESCRIPTION	TELEPHONE	
WIDE OPEN WEST (WOW)	CABLE/INTERNET	(866) 496-9669	105 BLAZE
COLUMBIA GAS OF OHIO	GAS	(800) 344-4077	3101 NO
SPECTRUM / TIME WARNER	CABLE/INTERNET	(866) 874-2389	576 TERN
CENTURYLINK	CABLE/INTERNET	(440) 244-8400	203 W 9T
OHIO EDISON	ELECTRIC	(440) 326-3319	6326 LAK
CITY OF NORTH RIDGEVILLE	WATER, SEWER	(440) 353-084	7307 AV0



VICINITY MAP -NOT TO SCALE-.

SITE ADDRESS: 8949 ROOT ROAD. NORTH RIDGEVILLE, OHIO 44039 SCM COORDINATES: N: 618593.49 E: 2108153.40 (NAD83 OHIO NORTH ZONE) LAT: 41°21'48.89" N LONG: 81°59'28.58" W (WGS 84)

## **DESIGN ENGINEER:**

RICHARD A. FREDRICKSON, P.E., P.S. OHIO ENGINEER - 61668 OHIO SURVEYOR - 8285

## CIVIL SITE DESIGN SHEET LEGEND

TITLE SHEET ... EXISTING CONDITIONS & DEMOLITION PLAN ... EXISTING DRAINAGE MAP ... SITE PLAN .... PROPOSED DRAINAGE MAP. OVERALL UTILITY PLAN ... OVERALL GRADING PLAN. ENLARGED GRADING PLAN .. CONSTRUCTION STORM WATER POLLUTION F CONSTRUCTION STORM WATER POLLUTION F CONSTRUCTION STORM WATER POLLUTION F PERMANENT COMPREHENSIVE STORM WATER PERMANENT COMPREHENSIVE STORM WATER MISCELLANEOUS DETAILS ....

## SCOPE OF WORK

THE IMPROVEMENT PLANS ARE FOR THE SITE PARKING AND DRIVE IMPROVEMENTS FROM GRAVEL TO ASPHALT. THE SITE IS CURRENTLY SERVICED BY A STORM SEWER SYSTEM THAT CONVEYS THE STORM WATER OFFSITE TO A NEIGHBORING DEVELOPMENT. A NEW STORM WATER MANAGEMENT SYSTEM WILL BE INSTALLED TO PROVIDE STANDALONE MANAGEMENT AND SEDIMENT CONTROL FOR THE PARK DEVELOPMENT.

## **CONTRACTORS SWP3 ACKNOWLEDGEMENT:**

PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR SHALL OBTAIN A STORM WATER POLLUTION PREVENTION PLAN (SWP3) SIGNED BY THE CONTRACTOR AND ALL OF HIS SUBCONTRACTORS.

SEE STORM WATER POLLUTION PREVENTION PLAN DETAIL SHEET C5.2 FOR SIGNATURE STATEMENT AND SIGNATURE LIST.

NOI STORM WATER GENERAL PERMIT NUMBER:

## CITY OF NORTH RIDGEVILLE STANDARD DETAILS

CONTRACTOR SHALL ABIDE BY ALL JURISDICTIONAL DETAILS AND SPECIFICATIONS. IN THE CASE WHERE DETAILS CONFLICT THE JURISDICTIONAL DETAIL AND SPECIFICATIONS SHALL BE USED. A LIST OF APPLICABLE STANDARD CITY OF NORTH RIDGEVILLE DETAILS IS PROVIDED HEREON. ADDITIONAL DETAILS AND SPECIFICATIONS MAY BE REQUIRED AND SHALL BE OBTAINED BY THE CONTRACTOR FROM THE CITY OF NORTH RIDGEVILLE ENGINEERING DEPARTMENT.

ADDRESS ZE INDUSTRIAL PKWY, BEREA, OH 44017 ORTH RIDGE RD, ELYRIA, OH 44035 NES AVE, ELYRIA, OH 44035 TH STREET, LORAIN, OHIO 44052 KE AVENUE, ELYRIA, OHIO 44035 VON BELDEN ROAD, NORTH RIDGEVILLE, OHIO 44039

## **BASIS OF BEARINGS**

BASIS OF BEARING IS ASSUMED AND IS USED TO DESCRIBE ANGLES ONLY. A PORTION OF THE WESTERLY VERTICAL, OF THE UNDERGROUND UTILITIES SHOWN LINE OF RIDGEFIELD HOMES INC. SUBDIVISION No. 2 AS HEREON, HAVE BEEN OBTAINED BY A SEARCH OF RECORDED IN PLAT VOLUME 57, PAGE 70 OF THE LORAIN COUNTY PLAT RECORDS AND IS ASSUMED TO BE NORTH 01° 38' 05" EAST AS SHOWN HEREON.

THIS SURVEY IS BASED UPON A FIELD SURVEY PERFORMED BY RAFTER A., LTD IN APRIL OF 2023.

## UNDERGROUND UTILITIES NOTE:

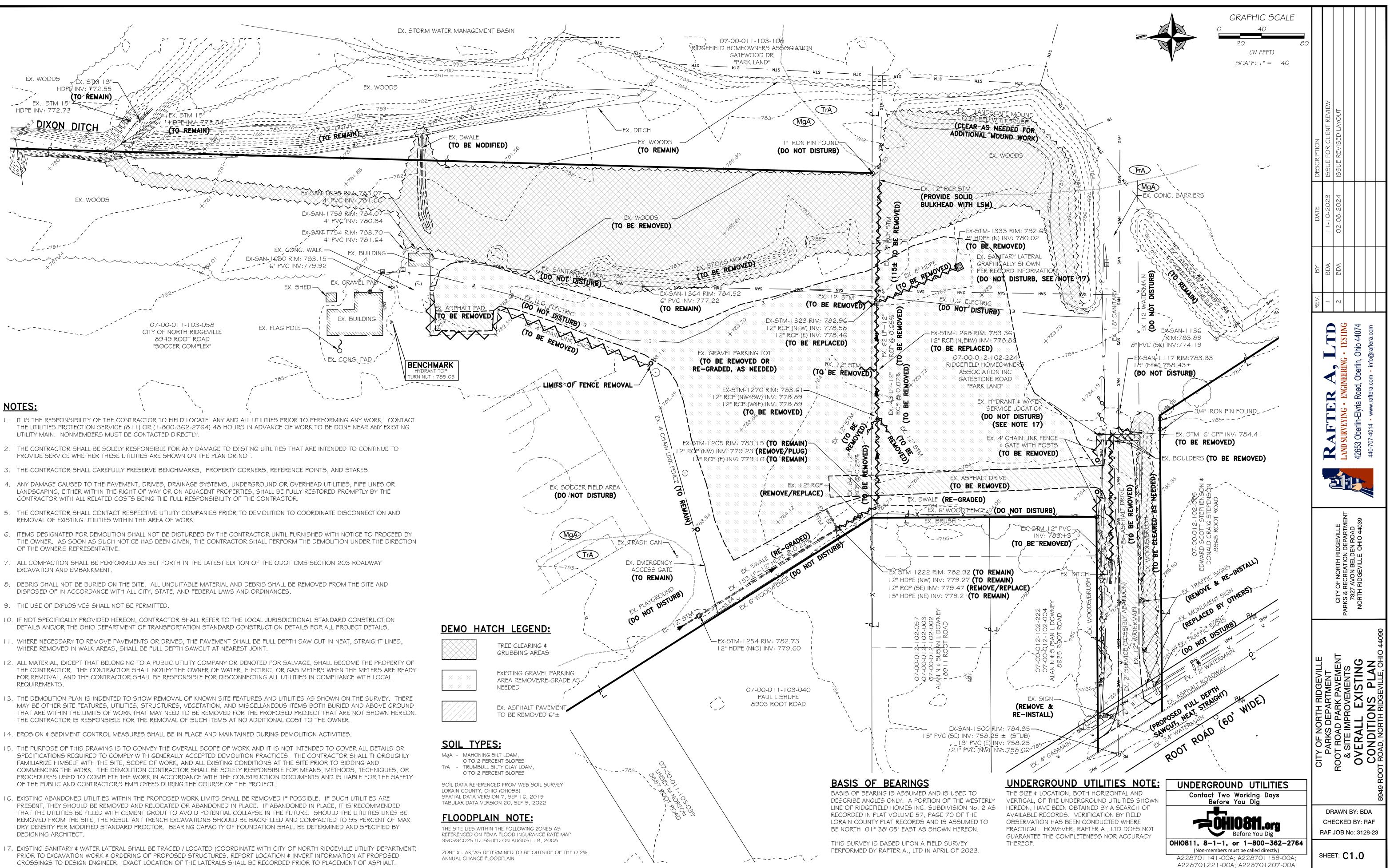
DATE

	CO.O
	CI.O
PREVENTION PLAN	
PREVENTION BASIN DETAILS	
PREVENTION NOTES & DETAILS	
R MANAGEMENT PLAN	. C6.0
R MANAGEMENT BASIN DETAILS	C6.I
	C7.0 - C7.4

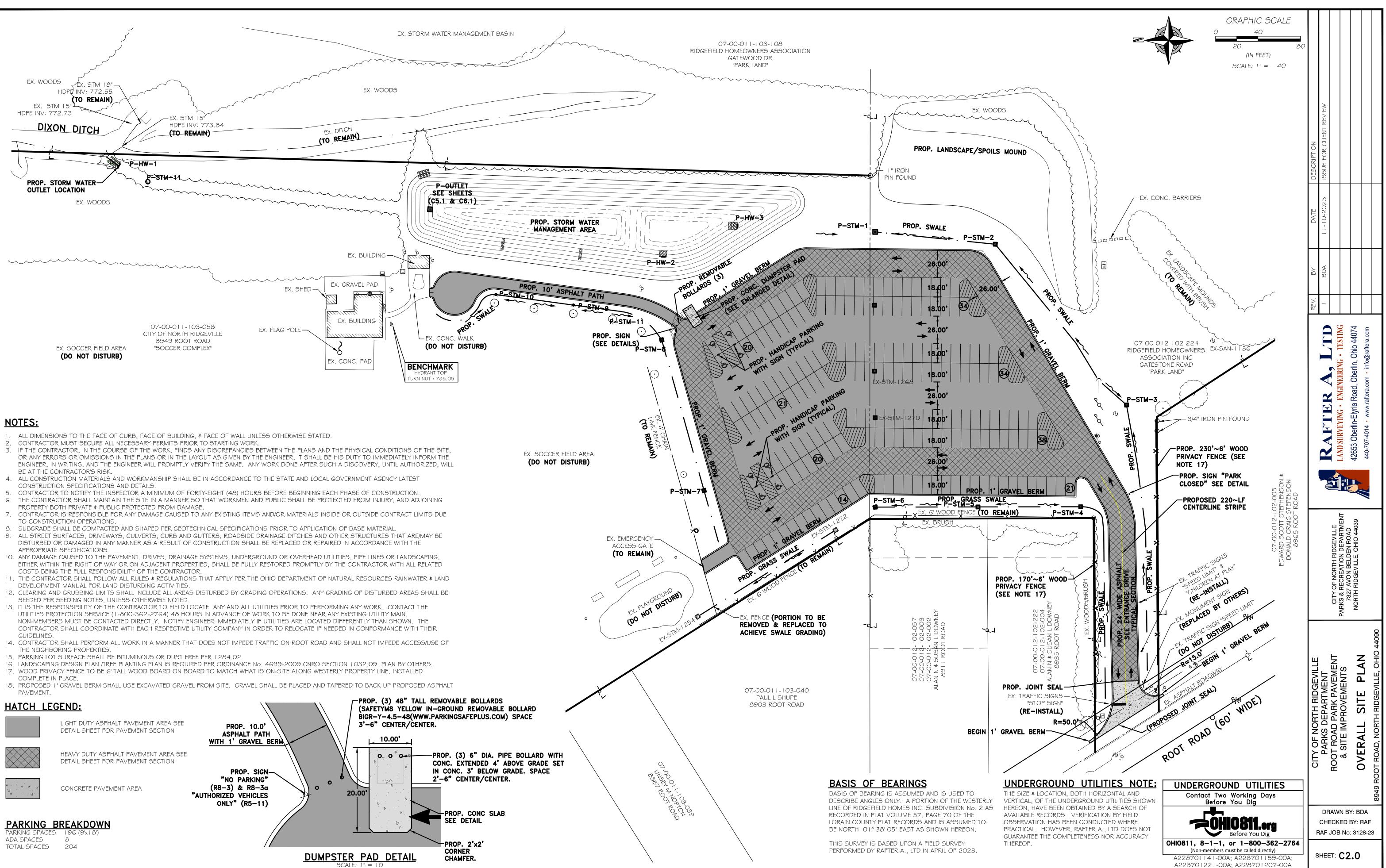
THE SIZE & LOCATION, BOTH HORIZONTAL AND AVAILABLE RECORDS. VERIFICATION BY FIELD OBSERVATION HAS BEEN CONDUCTED WHERE PRACTICAL. HOWEVER, RAFTER A., LTD DOES NOT GUARANTEE THE COMPLETENESS NOR ACCURACY THEREOF.



REV. BY DATE DESCRIPTION	I BDA I I-10-2023 ISSUE FOR CLIENT REVIEW	2 BDA 02-08-2024 ISSUE REVISED LAYOUT				
	RAFTER A. L'TD	I AND STRUCTURE ENCINEEDING		42653 Oberlin-Elyria Road, Oberlin, Ohio 44074	440-707-4014 • www.raftera.com • info@raftera.com	
			PARKS & RECREATION DEPARTMENT 7327 AVON BELDEN ROAD	NORTH RIDGEVILLE, OHIO 44039		
CITY OF NORTH RIDGEVILLE	PARKS DEPARTMENT	ROOT ROAD PARK PAVEMENT	& SITE IMPROVEMENTS	TITIE SUFET		8949 ROOT ROAD, NORTH RIDGEVILLE, OHIO 44090
	DF	RAW	N B'	Y: BI	۵ר	



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HATCH	LEGEND:		PROP. (3) 48" TALL REMOV	UND REMO
	LIGHT DUTY ASPHALT PAVEMENT AREA SEE DETAIL SHEET FOR PAVEMENT SECTION	PROP. 10.0' ASPHALT PATH	$ \begin{array}{c c} BIGR-Y-4.5-48(WWW.PARKIN \\ 3'-6" CENTER/CENTER. \\ 1 0.00' \end{array} $	IGSAFEPLU
	HEAVY DUTY ASPHALT PAVEMENT AREA SEE DETAIL SHEET FOR PAVEMENT SECTION	WITH 1' GRAVEL BERM PROP. SIGN		(3) 6" [ . EXTENDE NC. 3' BE
	CONCRETE PAVEMENT AREA	"NO PARKING" (R8-3) & R8-3a "AUTHORIZED VEHICLES ONLY" (R5-11)		CENTER/
PARKING SP		UNET (NJ-TT)		ROP. CONC E DETAIL
ADA SPACES TOTAL SPAC				ROP. 2'x2' DRNER HAMFER.



## EX. WOODS

## PROPOSED DRAINAGE AREA SUMMARY:

	SQUARE FEET	ACRES	CN	
EXISTING IMPERVIOUS AREAS EX. BUILDING:	7,418.05	0.1703	98	
EX. PAVEMENT:	1,999.81	0.0459	98	
EX. GRAVEL:	1,716.58	0.0394	95	
PROP. PAVEMENT:	90,129.95	2.0691	98	
PROP. POND:	9,857.53	0.2263	98	
EXISTING PERVIOUS AREA (GRASS / WOODS AREA):	381,381.37	8.7553	80	
TOTAL	492,503.29	11.3064	85.90	08 (COMPOSITE CN)

\_\_\_\_\_\_\_\_\_\_\_

## PROPOSED Tc

COMPOSITE TOTAL: 0.083 OF AN HOUR (5 MIN.)

## TIME OF CONCENTRATION LEGEND

Tc(SF) = SHEET FLOW Tc(SCF) = SHALLOW CONCENTRATED FLOW **Tc(CHF)** = CHANNEL FLOW

## SOIL TYPES:

MgA - MAHONING SILT LOAM.

O TO 2 PERCENT SLOPES TrA - TRUMBULL SILTY CLAY LOAM,

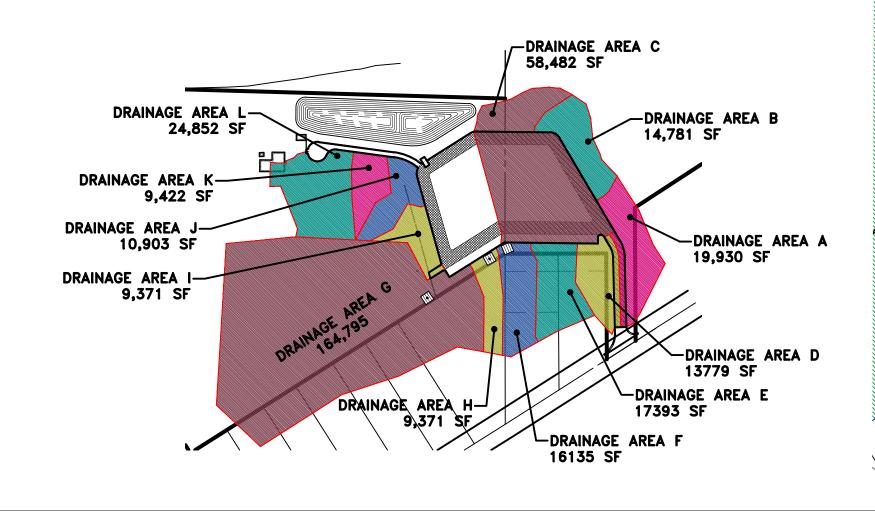
O TO 2 PERCENT SLOPES

SOIL DATA REFERENCED FROM WEB SOIL SURVEY LORAIN COUNTY, OHIO (OH093) SPATIAL DATA VERSION 7, SEP 16, 2019 TABULAR DATA VERSION 20, SEP 9, 2022

## PIPE FLOW CALCULATIONS

BASED ON SCS II UNITLESS MAX INTENSITY = 0.1317 FROM 11.8 TO 11.9 HOURS FOR 100 YEAR STORM EVENT =  $3.55 \text{ IN } \times 0.1317 = 0.49 \text{ INCHES IN } 0.1 \text{ HRS } \text{OR } 4.9 \text{ IN/HOUR}$ N VALUES: PVC: 0.009 HDPE: 0.013

STRUCTURE FROM P-STM-3 P-STM-2 P-STM-1	STRUCTURE TO F P-STM-2 P-STM-1 P-HW-3	PIPE SIZE   2   2 24	SLOPE 0.50% 0.50% 1.00%	LENGTH OF RUN (LF) 195 114 130	DRAINAGE AREA A B C	RUNNOFF COEF. 0.65 0.50 0.80	REQUIRED FLOW I .45 2.27 20.32	PROVIDED FLOW 2.52 2.52 22.67
P-STM-4	P-STM-5	2	0.50%	97	D	0.80	.23	2.52
P-STM-5	P-STM-6	2	0.80%	97	E	0.50	2.20	3.19
P-STM-6	P-STM-1	24	0.50%	259	F	0.50	2.82	16.03
EX-STM-1254		12	0.22	153	G	0.50	9.21	I .67 (EXIST
EX-STM-1222		18	1.07	43	H	0.50	9.72	I 0.89
P-STM-7	P-STM-8	2	.00%	147	l	0.50	0.52	3.57
P-STM-8	P-HW-2	2	.00%	78	J	0.50	1.13	3.57
P-STM-9	POND	10	1.15%	43	К	0.50	0.53	3.40
P-STM-10	POND	10	1.15%	43	L	0.50	0.53	3.40



EX. WOODS

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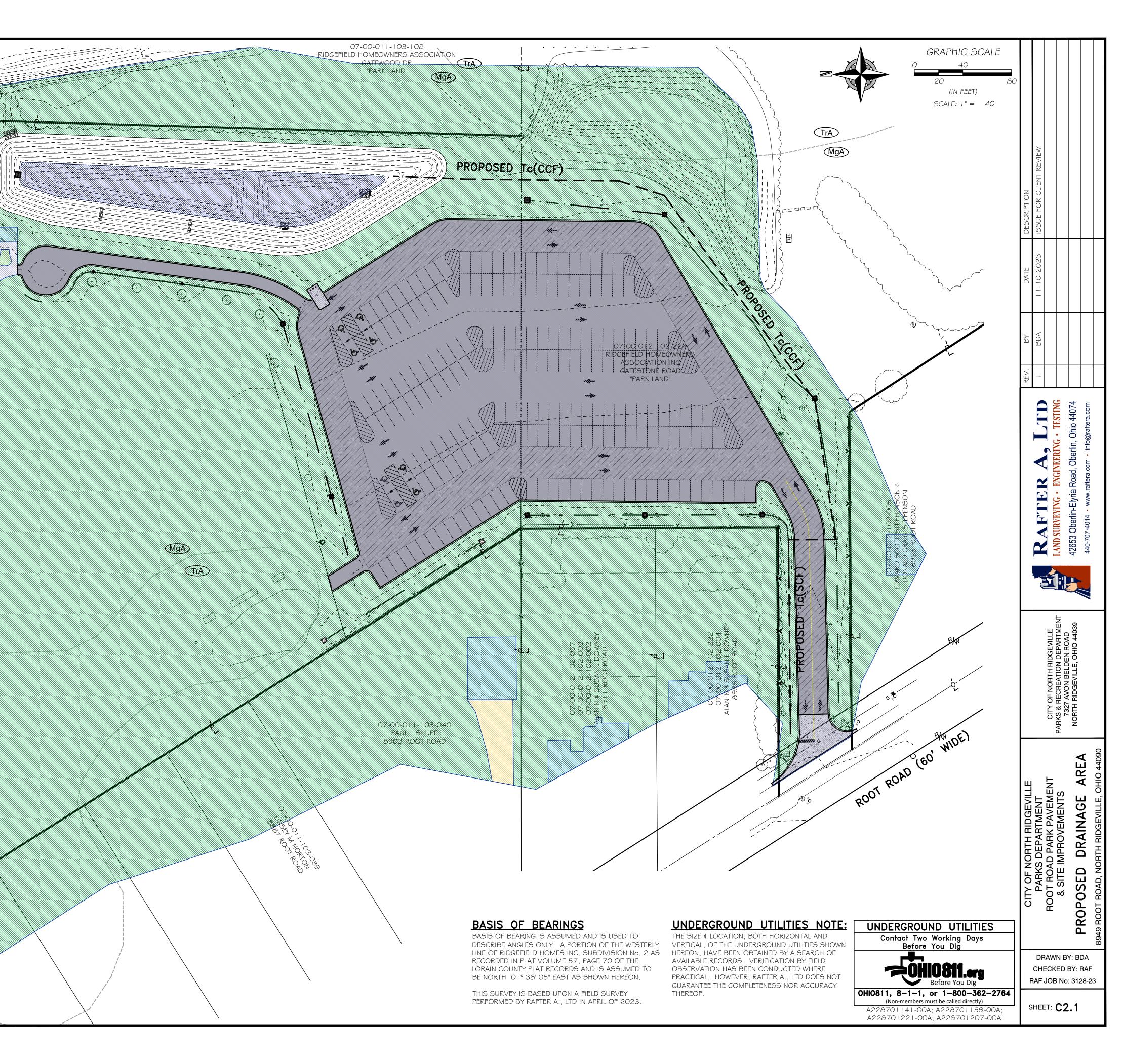
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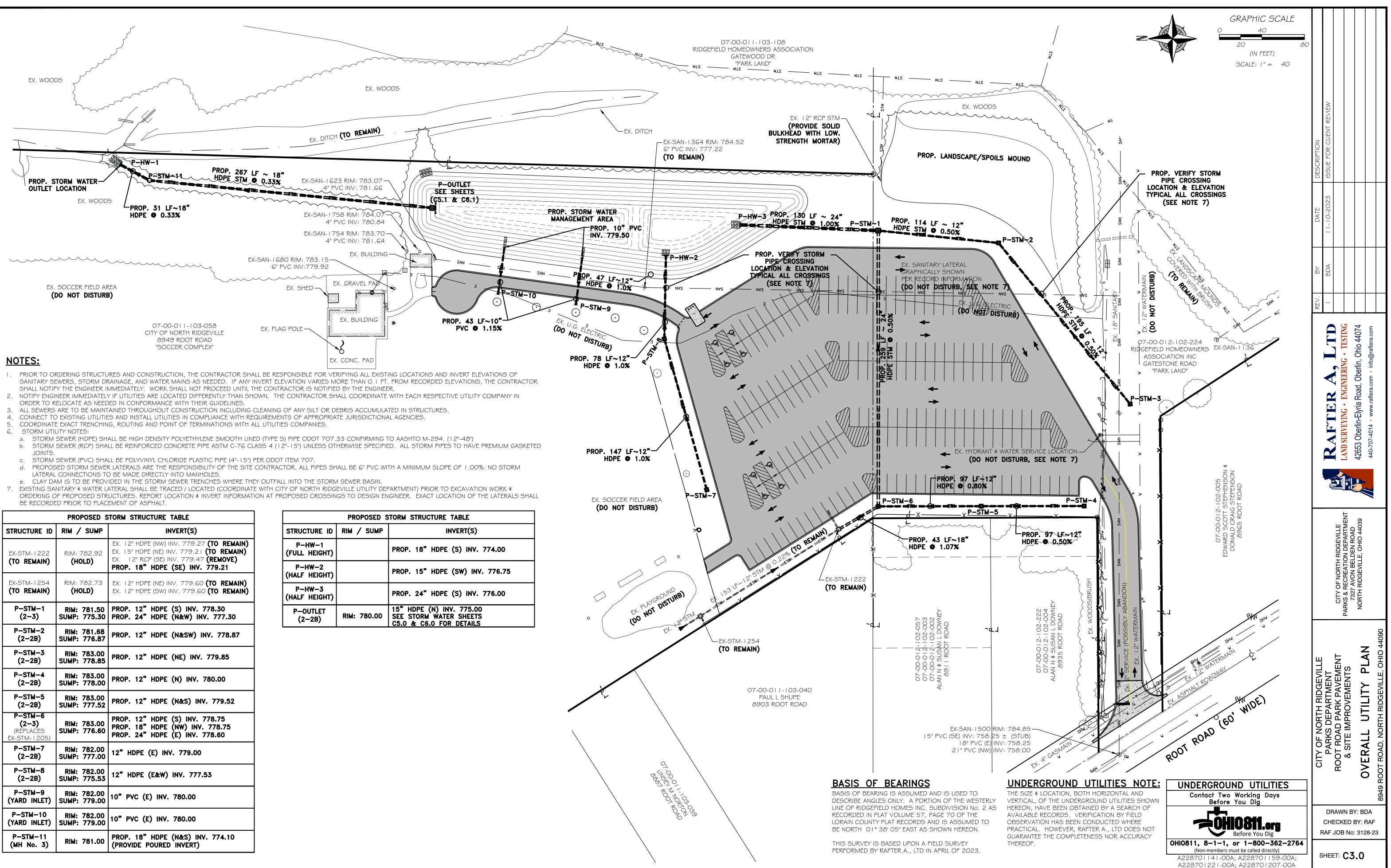
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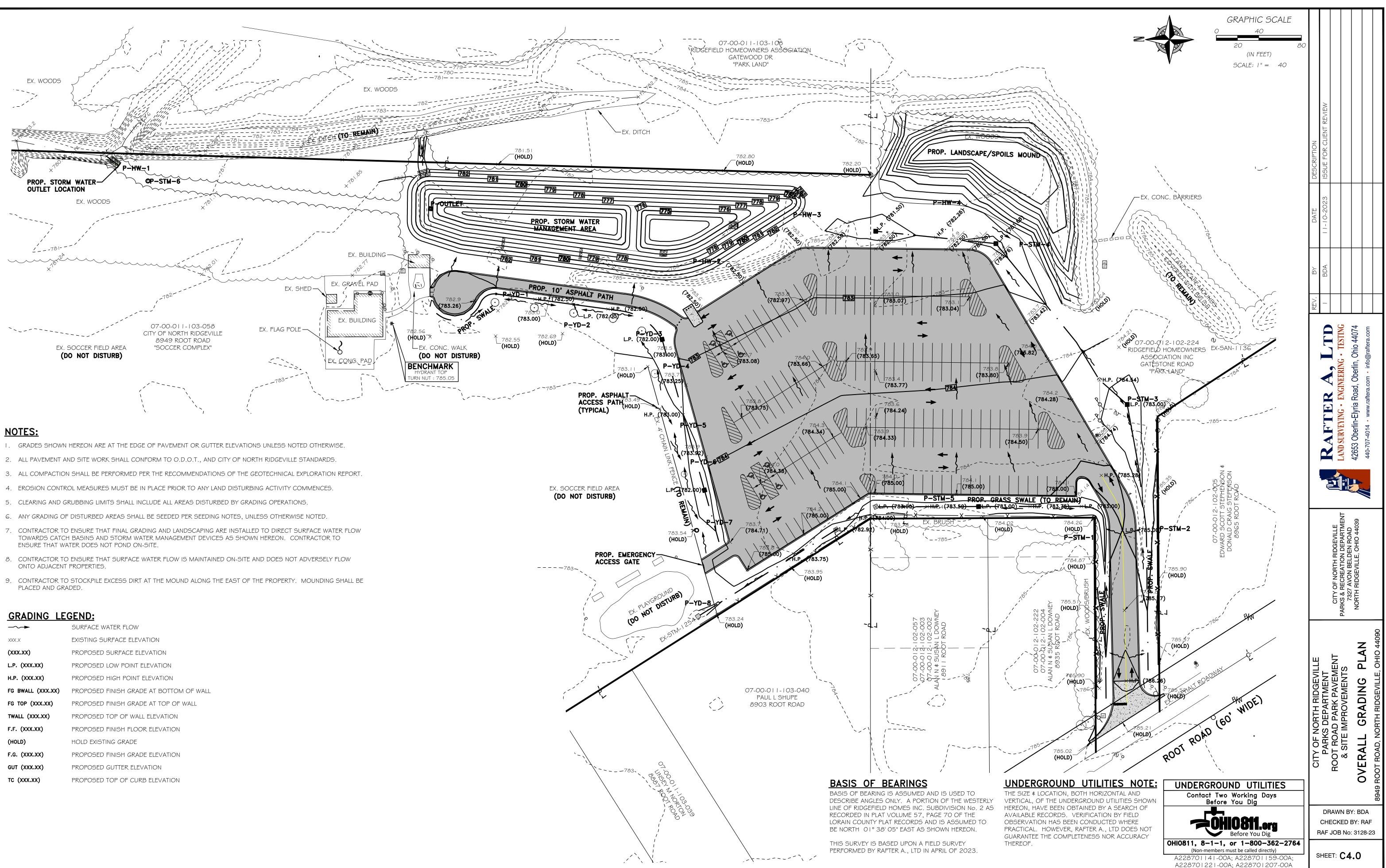
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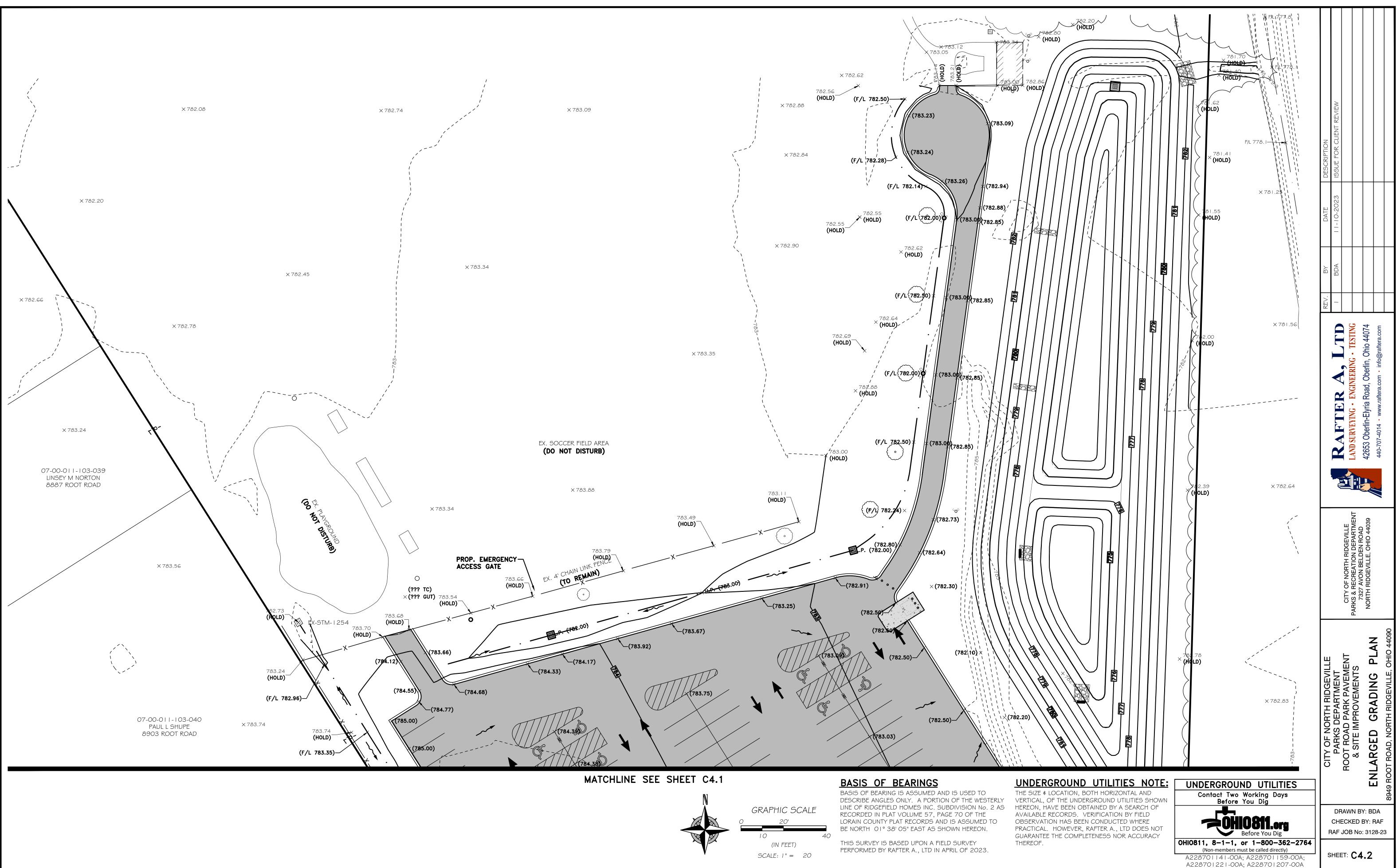
	PROPOSED STORM STRUCTURE TABLE				
STRUCTURE ID	RIM / SUMP	INVERT(S)			
EX-STM-1222 (TO REMAIN)	RIM: 782.92 <b>(HOLD)</b>	EX. 12" HDPE (NW) INV. 779.27 (TO REMAIN) EX. 15" HDPE (NE) INV. 779.21 (TO REMAIN) EX. 12" RCP (SE) INV. 779.47 (REMOVE) PROP. 18" HDPE (SE) INV. 779.21			
EX-STM-1254 (TO REMAIN)	RIM: 782.73 <b>(HOLD)</b>	EX. 12" HDPE (NE) INV. 779.60 (TO REMAIN) EX. 12" HDPE (SW) INV. 779.60 (TO REMAIN)			
P-STM-1 (2-3)	RIM: 781.50 SUMP: 775.30	PROP. 12" HDPE (S) INV. 778.30 PROP. 24" HDPE (N&W) INV. 777.30			
P-STM-2 (2-2B)	RIM: 781.68 SUMP: 776.87	PROP. 12" HDPE (N&SW) INV. 778.87			
P-STM-3 (2-2B)	RIM: 783.00 SUMP: 778.85	PROP. 12" HDPE (NE) INV. 779.85			
P-STM-4 (2-2B)	RIM: 783.00 SUMP: 778.00	PROP. 12" HDPE (N) INV. 780.00			
P-STM-5 (2-2B)	RIM: 783.00 SUMP: 777.52	PROP. 12" HDPE (N&S) INV. 779.52			
P-STM-6 (2-3) (REPLACES EX-STM-1205)	RIM: 783.00 SUMP: 776.60	PROP. 12" HDPE (S) INV. 778.75 PROP. 18" HDPE (NW) INV. 778.75 PROP. 24" HDPE (E) INV. 778.60			
P-STM-7 (2-2B)	RIM: 782.00 SUMP: 777.00	12" HDPE (E) INV. 779.00			
P-STM-8 (2-2B)	RIM: 782.00 SUMP: 775.53	12" HDPE (E&W) INV. 777.53			
P-STM-9 (YARD INLET)	RIM: 782.00 SUMP: 779.00	10" PVC (E) INV. 780.00			
P-STM-10 (YARD INLET)	RIM: 782.00 SUMP: 779.00	10" PVC (E) INV. 780.00			
P-STM-11 (MH No. 3)	RIM: 781.00	PROP. 18" HDPE (N&S) INV. 774.10 (PROVIDE POURED INVERT)			

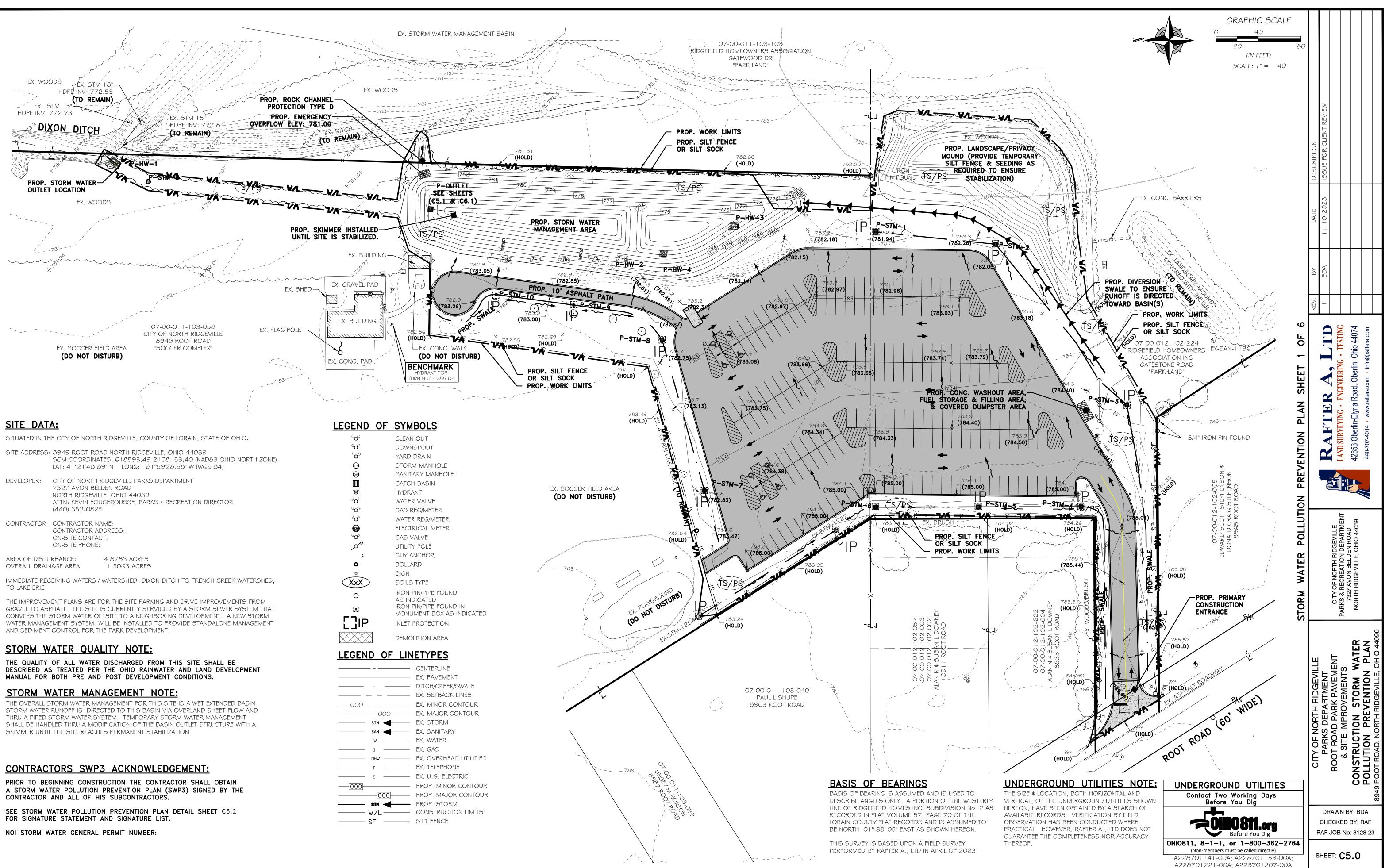
PROPOSED STORM STRUCTURE TABLE						
STRUCTURE ID	RIM / SUMP	INVERT(S)				
P-HW-1 (FULL HEIGHT)		PROP. 18" HDPE (S) INV. 77				
P-HW-2 (HALF HEIGHT)		PROP. 15" HDPE (SW) INV.				
P-HW-3 (HALF HEIGHT)		PROP. 24" HDPE (S) INV. 77				
P-OUTLET (2-2B)	RIM: 780.00	15" HDPE (N) INV. 775.00 SEE STORM WATER SHEETS C5.0 & C6.0 FOR DETAILS				



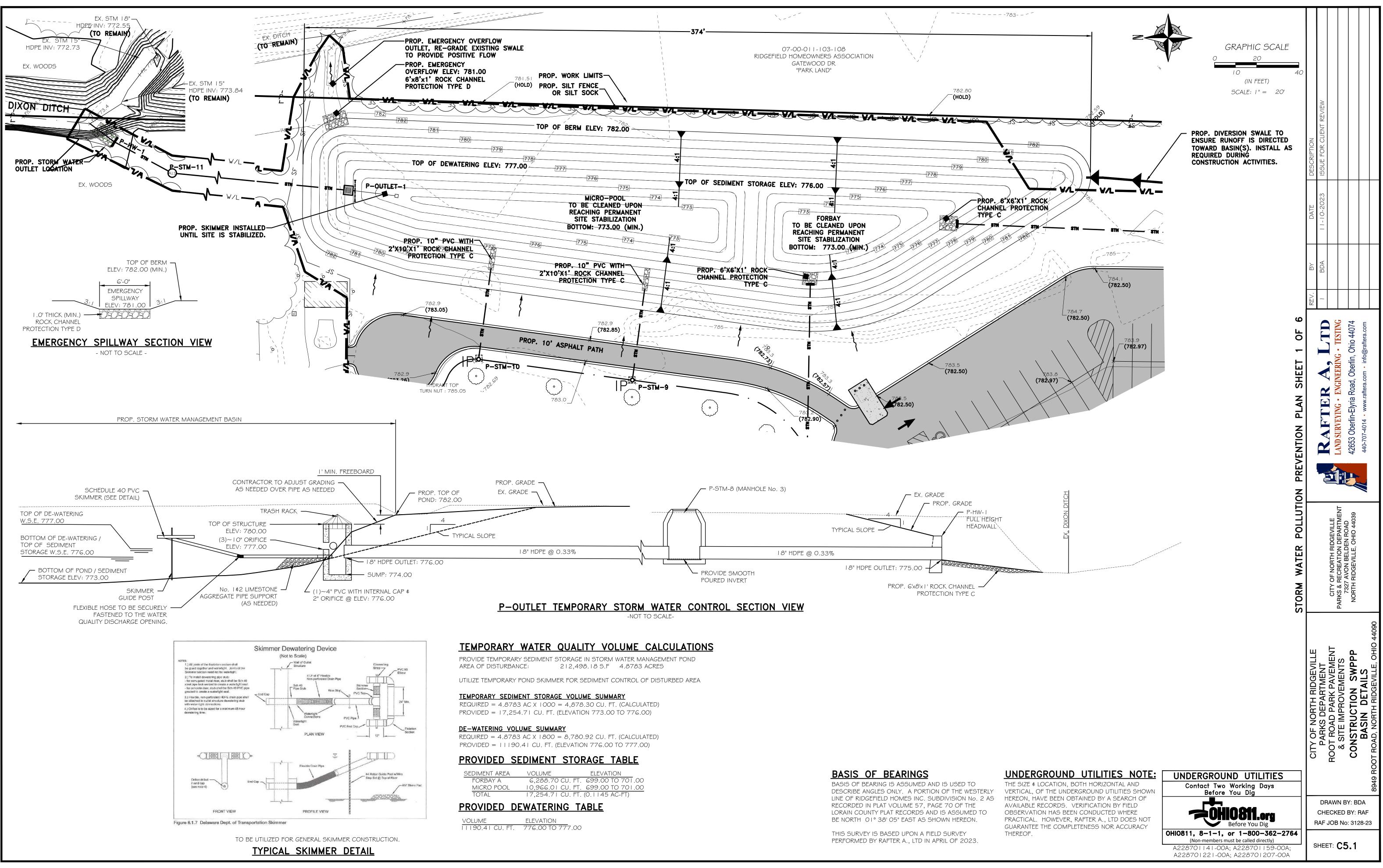
	SURFACE WATER FLOW
XXX.X	EXISTING SURFACE ELEVATION
(XXX.XX)	PROPOSED SURFACE ELEVATION
L.P. (XXX.XX)	PROPOSED LOW POINT ELEVATION
H.P. (XXX.XX)	PROPOSED HIGH POINT ELEVATION
FG BWALL (XXX.XX)	PROPOSED FINISH GRADE AT BOTTOM OF WALL
FG TOP (XXX.XX)	PROPOSED FINISH GRADE AT TOP OF WALL
TWALL (XXX.XX)	PROPOSED TOP OF WALL ELEVATION
F.F. (XXX.XX)	PROPOSED FINISH FLOOR ELEVATION
(HOLD)	HOLD EXISTING GRADE
F.G. (XXX.XX)	PROPOSED FINISH GRADE ELEVATION
GUT (XXX.XX)	PROPOSED GUTTER ELEVATION
TC (XXX.XX)	PROPOSED TOP OF CURB ELEVATION







		CENTERLINE
		EX. PAVEMENT
·		DITCH/CREEK/SWALE
	·	EX. SETBACK LINES
00		EX. MINOR CONTOUR
0	00	EX. MAJOR CONTOUR
— sтм	◀──	EX. STORM
— SAN	◀──	EX. SANITARY
— v		EX. WATER
— G		EX. GAS
— ону		EX. OVERHEAD UTILITIES
— т		EX. TELEPHONE
— Е		EX. U.G. ELECTRIC
0		PROP. MINOR CONTOUR
0	00	PROP. MAJOR CONTOUR
STN	<b>—</b>	PROP. STORM
— W/L	<b>`</b>	CONSTRUCTION LIMITS
— SF		SILT FENCE



## **CONSTRUCTION SITE POLLUTION CONTROLS:**

- CONSTRUCTION PERSONNEL, INCLUDING SUBCONTRACTORS WHO MAY USE OR HANDLE HAZARDOUS OR TOXIC MATERIALS. SHALL BE MADE AWARE OF THE FOLLOWING GENERAL GUIDELINES REGARDING DISPOSAL AND HANDLING OF HAZARDOUS AND CONSTRUCTION WASTES:
- A) PREVENT SPILLS
- B) USE PRODUCTS UP
- C) FOLLOW LABEL DIRECTIONS OF DISPOSAL
- D) REMOVE LIDS FROM EMPTY BOTTLES AND CANS WHEN DISPOSING IN TRASH
- E) RECYCLE WASTES WHENEVER POSSIBLE
- F) DO NOT POUR INTO WATERWAYS, STORM DRAINS, OR ONTO THE GROUND.
- G) DO NOT POUR DOWN THE SINK, FLOOR DRAIN, OR SEPTIC TANKS.
- H) DO NOT BURY CHEMICALS OR CONTAINERS
- I) DO NOT BURN CHEMICALS OR CONTAINERS
- J) DO NOT MIX CHEMICALS TOGETHER
- CONTAINERS SHALL BE PROVIDED FOR THE PROPER COLLECTION OF ALL WASTE MATERIAL INCLUDING CONSTRUCTION DEBRIS, TRASH, PETROLEUM PRODUCTS AND ANY HAZARDOUS MATERIALS USED ON-SITE. CONTAINERS SHALL BE COVERED AND NOT LEAKING. ALL WASTE MATERIAL SHALL BE DISPOSED OF AT FACILITIES APPROVED FOR THAT MATERIAL. CONSTRUCTION DEMOLITION AND DEBRIS (CD&D) WASTE MUST BE DISPOSED OF AT AN OHIO EPA APPROVED CD&D LANDFILL.
- NO CONSTRUCTION RELATED WASTE MATERIALS ARE TO BE BURIED ON-SITE. BY EXCEPTION, CLEAN FILL (BRICKS, HARDENED CONCRETE, SOIL) MAY BE UTILIZED IN A WAY WHICH DOES NOT ENCROACH UPON NATURAL WETLANDS, STREAMS, OR FLOODPLAINS, OR RESULT IN THE CONTAMINATION OF WATERS OF THE STATE.
- HANDLING CONSTRUCTION CHEMICALS. MIXING, PUMPING, TRANSFERRING, OR OTHER HANDLING OF CONSTRUCTION CHEMICALS SUCH AS FERTILIZER, LIME, ASPHALT, CONCRETE DRYING COMPOUNDS, AND ALL OTHER POTENTIALLY HAZARDOUS MATERIALS SHALL BE PERFORMED IN AN AREA AWAY FROM ANY WATERCOURSE, DITCH, OR STORM DRAIN.
- EQUIPMENT FUELING AND MAINTENANCE, OIL CHANGING, ETC.. SHALL BE PERFORMED AWAY FROM WATERCOURSES, DITCHES, OR STORM DRAINS, IN AN AREA DESIGNATED FOR THAT PURPOSE. THE DESIGNATED AREA SHALL BE EQUIPPED FOR RECYCLING OIL AND CATCHING SPILLS. SECONDARY CONTAINMENT SHALL BE PROVIDED FOR ALL FUEL AND OIL STORAGE TANKS. THESE AREA MUST BE INSPECTED EVERY SEVEN (7) DAYS AND WITHIN TWENTY-FOUR (24) HOURS OF A 0.5 INCH OR GREATER RAIN EVENT TO ENSURE THAT THERE ARE NO EXPOSED MATERIALS WHICH WOULD CONTAMINATE STORM WATER. SITE OPERATORS MUST BE AWARE THAT SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) REQUIREMENTS MAY APPLY. AN SPCC PLAN IS REQUIRED FOR SITES WITH ONE SINGLE ABOVE GROUND TANK OF SIX HUNDRED SIXTY (660) GALLONS OR MORE, ACCUMULATIVE ABOVE GROUND STORAGE OF ONE THOUSAND THREE HUNDRED THIRTY (1,330) GALLONS OR MORE, OR FORTY-TWO THOUSAND (42,000) GALLONS OF UNDERGROUND STORAGE. CONTAMINATED SOILS MUST BE DISPOSED OF IN ACCORDANCE WITH ITEM NO. 8.
- CONCRETE WASH WATER SHALL NOT BE ALLOWED TO FLOW TO STREAMS, DITCHES, STORM DRAINS, OR ANY OTHER WATER CONVEYANCE. A SUMP OR PIT WITH NO POTENTIAL FOR DISCHARGE SHALL BE CONSTRUCTED IF NEEDED TO CONTAIN CONCRETE WASH WATER. FIELD TILE OR OTHER SUBSURFACE DRAINAGE STRUCTURES WITHIN TEN (10) FEET OF THE SUMP SHALL BE CUT AND PLUGGED. FOR SMALL PROJECTS, TRUCK CHUTES MAY BE RINSED AWAY FROM ANY WATER CONVEYANCES. PRIOR TO PUMPING WATER FROM CONCRETE WASHOUT PIT, CONTRACTOR SHALL TEST PH TO ENSURE THE WATER IS ACCEPTABLE TO DISCHARGE TO NATURAL WATER COURSE PER OHIO EPA STANDARDS. IF PH IS GREATER THAN OHIO EPA RECOMMENDED DISCHARGE, CONTRACTOR SHALL USE PH LOWERING ACIDS AS RECOMMENDED BY OHIO EPA TO REACH ACCEPTABLE PH DISCHARGE LEVELS PRIOR TO DISCHARGING OFF-SITE.
- SPILL REPORTING REQUIREMENTS: SPILLS ON PAVEMENT SHALL BE ABSORBED WITH SAWDUST OR KITTY LITTER AND DISPOSED OF WITH THE TRASH AT A LICENSED SANITARY LANDFILL. HAZARDOUS OR INDUSTRIAL WASTES SUCH AS MOST SOLVENTS, GASOLINE, OIL-BASED PAINTS, AND CEMENT CURING COMPOUNDS REQUIRE SPECIAL HANDLING. SPILLS SHALL BE REPORTED TO THE OHIO EPA (1-800-282-9378). SPILLS OF TWENTY-FIVE (25) GALLONS OR MORE OF PETROLEUM PRODUCTS SHALL BE REPORTED TO THE OHIO EPA, LOCAL FIRE DEPARTMENT, AND THE LOCAL EMERGENCY PLANNING COMMITTEE WITHIN THIRTY (30) MINUTES OF THE DISCOVERY OF THE RELEASE. ALL SPILLS WHICH CONTACT WATERS OF THE STATE MUST BE REPORTED TO THE OHIO EPA.
- 8 CONTAMINATED SOILS: IF SUBSTANCES SUCH AS OIL, DIESEL FUEL, HYDRAULIC FLUID, ANTIFREEZE, ETC.. ARE SPILLED, LEAKED, OR RELEASED ONTO THE SOIL, THE SOIL SHOULD BE DUG UP AND DISPOSED OF AT A LICENSED SANITARY LANDFILL OR OTHER APPROVED PETROLEUM CONTAMINATED SOLID REMEDIATION FACILITY, NOT A CONSTRUCTION OR DEMOLITION DEBRIS LANDFILL. NOTE THAT STORM WATER RUNOFF ASSOCIATED WITH CONTAMINATED SOILS ARE NOT AUTHORIZED UNDER THE OHIO EPA'S GENERAL STORM WATER PERMIT ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
- OPEN BURNING: NO MATERIALS CONTAINING RUBBER, GREASE, ASPHALT, OR PETROLEUM PRODUCTS. SUCH AS TIRES, AUTOPARTS, PLASTICS OR PLASTIC COATED WIRE MAY BE BURNED (OAC 3745-19). OPEN BURNING IS NOT ALLOWED IN RESTRICTED AREAS, WHICH ARE DEFINED AS: 1) WITHIN CORPORATION LIMITS: 2) WITHIN ONE THOUSAND (1,000) FEET OUTSIDE A MUNICIPAL CORPORATION HAVING A POPULATION OF ONE THOUSAND (1,000) TO TEN THOUSAND (10,000)); AND 3) A ONE (1) MILE ZONE OUTSIDE A CORPORATION OF TEN THOUSAND (10,000) OR MORE. OUTSIDE OF RESTRICTED AREAS, NO OPEN BURNING IS ALLOWED WITHIN A ONE THOUSAND (1,000) FEET OF AN INHABITED BUILDING ON ANOTHER PROPERTY. OPEN BURNING IS PERMISSIBLE IN A RESTRICTED AREA FOR: HEATING TAR, WELDING, SMUDGE POTS, AND SIMILAR OCCUPATIONAL NEEDS, AND HEATING FOR WARMTH OR OUTDOOR BARBECUES. OUTSIDE OF RESTRICTED AREAS, OPEN BURNING IS PERMISSIBLE FOR LANDSCAPE OR LAND-CLEARING WASTES (PLANT MATERIAL, WITH PRIOR WRITTEN PERMISSION FROM THE OHIO EPA), AND AGRICULTURAL WASTES, EXCLUDING BUILDINGS.
- 10. DUST CONTROL OR DUST SUPPRESSANTS SHALL BE USED TO PREVENT NUISANCE CONDITIONS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND IN A MANNER, WHICH PREVENT A DISCHARGE TO WATERS OF THE STATE. SUFFICIENT DISTANCE MUST BE PROVIDED BETWEEN APPLICATIONS AND NEARBY BRIDGES, CATCH BASINS, AND OTHER WATERWAYS. APPLICATION (EXCLUDING WATER) MAY NOT OCCUR WHEN RAIN IS IMMINENT AS NOTED IN THE SHORT TERM FORECAST. USED OIL MAY NOT BE APPLIED FOR DUST CONTROL.
- II. OTHER AIR PERMITTING REQUIREMENTS" CERTAIN ACTIVITIES ASSOCIATED WITH CONSTRUCTION WILL REQUIRE AIR PERMITS INCLUDING BUT NOT LIMITED TO: MOBILE CONCRETE BATCH PLANTS, MOBILE ASPHALT PLANTS, CONCRETE CRUSHERS, LARGE GENERATORS, ETC. THESE ACTIVITIES WILL REQUIRE SPECIFIC OHIO EPA AIR PERMITS FOR INSTALLATION AND OPERATION. OPERATORS MUST SEEK AUTHORIZATION FROM THE CORRESPONDING DISTRICT OF THE OHIO EPA. FOR DEMOLITION OF ALL COMMERCIAL SITES, A NOTIFICATION FOR RESTORATION AND DEMOLITION MUST BE SUBMITTED TO THE OHIO EPA TO DETERMINE IF ASBESTOS CORRECTIVE ACTIONS ARE REQUIRED.
- 12. PROCESS WASTE WATER/LEACHATE MANAGEMENT. THE OHIO EPA CONSTRUCTION GENERAL PERMIT ONLY ALLOWS THE DISCHARGE OF STORM WATER AND DOES NOT INCLUDE OTHER WASTE STREAMS/DISCHARGES SUCH AS VEHICLE AND/OR EQUIPMENT WASHING, ON-SITE SEPTIC LEACHATE, CONCRETE WASH OUTS, WHICH ARE CONSIDERED PROCESS WASTE WATERS. ALL PROCESS WASTE WATERS MUST BE COLLECTED AND PROPERLY DISPOSED AT AN APPROVED DISPOSAL FACILITY. IN THE EVENT, LEACHATE OR SEEPAGE IS DISCHARGE; IT MUST BE ISOLATED FOR COLLECTION AND PROPER DISPOSAL. CORRECTIVE ACTIONS SHALL BE TAKEN TO ELIMINATE THE SOURCE OF WASTE WATER.

## STORM WATER POLLUTION PREVENTION GENERAL NOTES:

- I. SOIL EROSION AND SEDIMENTATION CONTROL MEASURES MUST BE IMPLEMENTED AS A FIRST SITE IS STABILIZED.
- INSTALLED AS PART OF STABILIZATION MEASURES.
- INSPECTION AND CORRECTIVE MEASURE TAKEN.
- LAND DEVELOPMENT AND URBAN STREAM PROTECTION.
- 5. CONTRACTOR TO COORDINATE THE EXCAVATION AND EMBANKMENT WITH CLIENT & ENGINEER PRIOR TO CONSTRUCTION TO INSURE ADEQUATE STORM WATER POLLUTION PREVENTION MEASURES ARE INCORPORATED WITH THE CONSTRUCTION PROCESS.
- EPA, OR SWPPP ENGINEER SHALL BE APPROVED BY THE SWP3 ENGINEER.
- 7. ANY APPROVED REVISIONS SHALL BE MADE IMMEDIATELY BY THE SWP3 ENGINEER AND IMPLEMENTED BY THE OWNER, DEVELOPER, AND/OR CONTRACTOR.
- CONTENTS & REQUIREMENTS.
- DETAINED AND PROPERLY TREATED OR DISPOSED.
- MAINTENANCE AREAS, CLEANING AREAS, EMPLOYEE PARKING AREAS, PORTABLE FACILITIES, OFFICE TRAILER AREAS, AND TOILET FACILITIES.
- AVAILABLE TO CONTAIN AND CLEAN UP FUEL OR CHEMICAL SPILLS/LEAKS.
- 12. DUST ON THE SITE SHALL BE CONTROLLED. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OF TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.
- BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORM WATER DISCHARGE.
- 14. ALL STORM WATER POLLUTION PREVENTION MEASURES PRESENTED ON THIS PLAN SHALL BE INITIATED AS SOON AS PRACTICABLE.
- 15. ANY SEDIMENT LADEN GROUND WATER ENCOUNTERED DURING TRENCHING EXCAVATIONS SHALL BE TREATED PRIOR TO DISCHARGE FROM THE SITE IN A MANNER ACCEPTABLE WITH THE RAINWATER AND LAND DEVELOPMENT MANUAL
- I.G. ANY CATCH BASIN GRATE LOCATED IN PAVEMENT SHALL BE PROTECTED WITH A SILTSACK OR EFFECT UNTIL THE PERMANENT SEEDING OF THE UPLAND AREAS HAS BEEN ESTABLISHED.
- BY BURYING, BURNING, OR MIXING THE WASTES.
- ADMINISTRATIVE CODE (OAC) 3745-20.
- 15. ALL EROSION MEASURES SHALL REMAIN IN PLACE UNTIL THE SITE IS STABILIZED. ALL AREAS OF VEGETATIVE SURFACE STABILIZATION, WHETHER TEMPORARY OR PERMANENT, SHALL BE CONSIDERED TO BE IN PLACE AND FUNCTIONAL WHEN THE REQUIRED UNIFORM RATE OF COVERAGE (70%) IS OBTAINED.
- OTHER APPROVED MEANS WITHIN TWO (2) DAYS.
- 17. IF FOR ANY REASON THE PROJECT IS SUSPENDED, THE CONTRACTOR SHALL INSURE THAT ALL MIXTURE.
- 18. ALL EROSION AND SEDIMENT CONTROL PRACTICES MUST CONFORM TO THE LATEST EDITION OF LAND DEVELOPMENT AND URBAN STREAM PROTECTION.
- THESE MEASURES AND PROCEDURES SHALL CONTINUE TO FUNCTION UNTIL THE ENTIRE PROJECT SITE IS STABILIZED.
- 20. NO SOLID OR LIQUID WASTE SHALL BE DISCHARGED INTO STORM WATER RUNOFF.
- CONTROL DEVICES.
- LOCATIONS SHALL BE NOTED ON THE SITE MAP.
- STORM SEWERS DUE TO EROSION CONTROL BMP'S EMPLOYED DURING CONSTRUCTION.
- 24. NO APPARENT WELLS, STREAMS, BODIES OF WATER, OR WETLANDS OBSERVED UNLESS SHOWN HEREON, 200ft. BOUNDARY NOT TO SCALE.
- SITE. HOWEVER, IF CONTRACTOR MEANS & METHODS REQUIRE FUEL STORAGE IT SHALL BE PROVIDED IN THE AREA INDICATED ON THIS PLAN.

STEP OF GRADING AND WITHIN SEVEN (7) DAYS FROM THE START OF CLEARING AND GRUBBING. THESE MEASURES AND PROCEDURES SHALL CONTINUE TO FUNCTION UNTIL THE ENTIRE PROJECT

2. DITCHES WITH GRADES GREATER THAN 1.5% SHALL HAVE EROSION CONTROL BLANKETS/MATTING

3. REGULAR INSPECTION AND MAINTENANCE SHALL BE PROVIDED FOR ALL EROSION AND SEDIMENT CONTROL PRACTICES. PERMANENT RECORDS OF MAINTENANCE AND INSPECTIONS MUST BE KEPT THROUGHOUT THE CONSTRUCTION PERIOD. INSPECTIONS MUST BE MADE A MINIMUM OF ONCE EVERY 7 DAYS AND IMMEDIATELY AFTER STORM EVENTS GREATER THAT 0.5 INCHES OF RAIN IN A 24 HOUR PERIOD. PROVIDED WILL BE: NAME OF INSPECTOR, MAJOR OBSERVATIONS, DATE OF

4. ALL EROSION AND SEDIMENT CONTROL PRACTICES MUST CONFORM TO THE LATEST EDITION OF RAINWATER AND LAND DEVELOPMENT, OHIO'S STANDARDS FOR STORM WATER MANAGEMENT,

6. ANY REQUIRED MODIFICATIONS AS DETERMINED BY THE OWNER/DEVELOPER, CONTRACTOR, OHIO

8. ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH THE PROJECT SHALL OBTAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND BECOME FAMILIAR WITH ITS

9. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ECT.) SHALL BE

10. ALTHOUGH THE PLAN SHOWS A BASIC AREA FOR MATERIAL STORAGE. THE CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING, OTHER REQUIRED STORAGE AREAS, EQUIPMENT

II. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS SHALL BE MAINTAINED ON SITE OR READILY

13. REFUSE AND DEBRIS GENERATED DURING THE CONSTRUCTION PROCESS SHALL BE DISPOSED IN AN ACCEPTABLE TRASH RECEPTACLE AND/OR OTHER ACCEPTABLE MANNERS. MATERIALS SHALL

APPROVED EQUAL. THIS STORM WATER POLLUTION PREVENTION CONTROL SHALL REMAIN IN

13. NO TOXIC OR HAZARDOUS WASTES SHALL BE DISPOSED INTO STORM DRAINS, SEPTIC TANKS, OR

14. DEMOLITION DEBRIS MUST BE DISPOSED INTO AN OHIO EPA APPROVED LANDFILL. MATERIALS WHICH CONTAIN ASBESTOS MUST COMPLY WITH AIR POLLUTION REGULATIONS AS PER OHIO

I.G. DISTURBED AREAS WHICH WILL REMAIN UNWORKED FOR A PERIOD OF FOURTEEN (14) DAYS OR MORE. SHALL BE STABILIZED WITH TEMPORARY AND/OR PERMANENT SEEDING AND MULCHING OR

INSTALLED EROSION MEASURES ARE FUNCTIONING AND PROPERLY MAINTAINED DURING THIS PERIOD, AND THAT ALL DISTURBED SOILS ARE SEEDED AND MULCHED WITH TEMPORARY SEED

RAINWATER AND LAND DEVELOPMENT, OHIO'S STANDARDS FOR STORM WATER MANAGEMENT,

19. SOIL EROSION AND SEDIMENTATION CONTROL MEASURES MUST BE IMPLEMENTED AS A FIRST STEP OF GRADING AND WITHIN SEVEN (7) DAYS FROM THE START OF CLEARING AND GRUBBING

21. WEEKLY INSPECTION AND MAINTENANCE SHALL BE PROVIDED FOR ALL EROSION AND SEDIMENT

22. ON-SITE & OFFSITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BMP'S. STOCKPILE AND BORROW AREA

23. THE CONTRACTOR SHALL NOT CAUSE STORM WATER BACKUP IN THE STREET RIGHT-OF-WAY OR

25. IT IS NOT ANTICIPATED THAT THIS PLAN WILL REQUIRE FUEL OR FLAMMABLE LIQUIDS STORAGE ON

## POST CONSTRUCTION STORM WATER MANAGEMENT MAINTENANCE REQUIREMENTS

- 1. THIS SITE SHALL REQUIRE A COMPREHENSIVE STORMWATER MANAGEMENT PLAN (CSM PLAN) AND AN INSPECTION AND MAINTENANCE AGREEMENT.
- 2. IT SHALL BE THE RESPONSIBILITY OF THE OWNER THE PARCEL, TO PERFORM THE NECESSARY MAINTENANCE AND REPAIR TO THE STORM WATER MANAGEMENT FACILITY TO INSURE IT IS PROPERLY FUNCTIONING.
- 3. THE STORMWATER MANAGEMENT SYSTEM SHALL BE INSPECTED FOR DAMAGE AND INSURE PROPER FLOW. SEE COMPREHENSIVE STORMWATER MANAGEMENT PLAN & INSPECTION & MAINTENANCE AGREEMENT
- 4. WRITTEN RECORDS SHALL BE KEPT AND SUBMITTED TO THE CITY OF NORTH RIDGEVILLE FOR A MINIMUM OF THREE YEARS (OR AS OUTLINED IN THE CSM PLAN \$ INSPECTION & MAINTENANCE AGREEMENT) AFTER THE TERMINATION OF CONSTRUCTION ACTIVITIES. ITEMS THAT SHALL BE INCLUDED, BUT NOT LIMITED TO:
- A. NAME OF THE CERTIFIED PROFESSIONAL STORMWATER QUALITY (C.P.S.W.Q) PERSON(S) PERFORMING THE INSPECTION;
- B. DATE AND WEATHER CONDITIONS OF THE INSPECTION;
- C. CONDITION OF THE EMBANKMENT AND OUTLET STRUCTURE;
- D. NOTE ANY REPAIRS THAT ARE MADE.

## **SEQUENCE OF CONSTRUCTION:**

- I. A MANDATORY PRE-CONSTRUCTION MEETING WITH APPROPRIATE CITY OF NORTH RIDGEVILLE REPRESENTATIVES.
- 2. STAKEOUT LIMITS OF DISTURBANCE.
- 3. INSTALL TEMPORARY PROTECTION ON ANY EXISTING CATCH BASINS. PREPARE CONSTRUCTION ENTRANCE.
- 4. INSTALL SILT FENCE (OR SILT SOCK) WHERE INDICATED ON THE PLANS.
- 5. BEGIN SITE CLEARING & DEMOLITION. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE CITY AND/OR COUNTY CONSERVATION DISTRICT OF THE LOCATION OF ANY AND ALL EROSION AND SEDIMENTATION CONTROL MEASURES IMPLEMENTED AT ANY BORROW OR SPOIL SITE OF IMPORT/EXPORT MATERIAL
- 6. BEGIN MASS EARTH MOVING OPERATIONS. INSURE THAT OUTLET STRUCTURE IS OUTFITTED WITH TEMPORARY SKIMMER DEVICE.
- 7. MAINTAIN TEMPORARY DRAINAGE SWALES AS REQUIRED TO ENSURE THAT RUNOFF IS DIRECTED TOWARDS STORM WATER MANAGEMENT POND.
- 8. CONTRACTOR TO ENSURE THAT ALL ROADWAYS ARE CLEAR OF DEBRIS. MUD AND GRAVEL. CONTRACTOR SHALL REMOVE SUCH AS REQUIRED.
- 9. TEMPORARY STABILIZE AREAS OF DISTURBANCE (AS NEEDED).
- 10. INSTALL UTILITIES, PROTECT AS NEEDED WITH SILT FENCE AND/OR SILT SOCK. STABILIZE ALL UTILITY TRENCHES AT THE END OF EACH WORKDAY BY MEANS OF GRAVEL BACKFILL TO SURFACE, RE-PAVING, OR MULCHING.
- II. EXCAVATE AND INSTALL BASE FOR BUILDING AREAS AND PARKING.
- 12. INSTALL CURB & PAVEMENT.
- 13. REPLACE TOPSOIL, FINE GRADE AND SEED AREAS AS REQUIRED.
- 14. STABILIZE ALL DISTURBED AREAS WITH PERMANENT SEED AND MULCHING OR CROWNVETCH SEEDING IMMEDIATELY UPON REACHING FINAL GRADE.
- 15. COMPLETE SITE WORK. FINAL LANDSCAPING AND CLEAN UP.
- IG. RESEED AND REDRESS ANY AREAS THAT MAY REQUIRE ATTENTION IMMEDIATELY. NOTE THAN LAWN AREAS WILL NOT BE DEEMED STABLE UNTIL A UNIFORM SEVENTY (70%) PERCENT SHALL BE CONSIDERED TO BE IN PLACE AND FUNCTIONAL WHEN THE REQUIRED UNIFORM RATE OF COVERAGE (70%) IS OBTAINED.
- 17. UPON COMPLETION AND PERMANENT SITE STABILIZATION, REMOVE ALL TEMPORARY SEDIMENT CONTROL DEVICE(S) (INLET PROTECTION & SILT FENCE). ENSURE THAT ANY REQUIRED PERMANENT EROSION CONTROL DEVICES ARE INSTALLED IF CALLED FOR ON THE PLANS.
- 18. REMOVE CONSTRUCTION SEDIMENT FROM BASIN AND PROVIDE AS-BUILT OF SITE FOR REFERENCE IN THE COMPREHENSIVE STORM WATER MANAGEMENT PLAN.
- 19. IF FOR ANY REASON THE PROJECT IS SUSPENDED, THE CONTRACTOR SHALL INSURE THAT ALL INSTALLED EROSION MEASURES ARE FUNCTIONING AND PROPERLY MAINTAINED DURING THE PERIOD. ALL BARE SOILS ARE TO BE SEEDED AND MULCHED WITH THE TEMPORARY SEED MIXTURE.
- 20. CONTRACTOR SHALL SELF INSPECT THE STORM WATER POLLUTION DURING CONSTRUCTION ACTIVITIES AND PROVIDE THE APPROPRIATE JURISDICTIONAL ENTITY WITH WEEKLY REPORTS.

## BASIS OF BEARINGS

BASIS OF BEARING IS ASSUMED AND IS USED TO DESCRIBE ANGLES ONLY. A PORTION OF THE WESTERLY VERTICAL, OF THE UNDERGROUND UTILITIES SHOWN LINE OF RIDGEFIELD HOMES INC. SUBDIVISION No. 2 AS HEREON, HAVE BEEN OBTAINED BY A SEARCH OF RECORDED IN PLAT VOLUME 57, PAGE 70 OF THE LORAIN COUNTY PLAT RECORDS AND IS ASSUMED TO BE NORTH 01° 38' 05" EAST AS SHOWN HEREON.

THIS SURVEY IS BASED UPON A FIELD SURVEY PERFORMED BY RAFTER A., LTD IN APRIL OF 2023.

## SWP3 AMENI

AMENDMENT NUMBER	DESC

## SWP3 CORRECTIVE ACTIONS LOG

INSPECTOR NAME INSPECTION DATE	DESCRIPTION OF CORRECTIVE ACTION NEEDED	CORRECTIVE ACTION TAKEN	DATE ACTION TAKEN

## SWP3 GRADING AND STABILIZATION ACTIVITIES LOG

_		
	DATE OF ACTIVITY INITIATED	DA ACT CEA

## I (WE) UNDERSTAND OUR ROLE AND RESPONSIBILITY IN COMPLYING WITH THE STORM WATER POLLUTION PREVENTION PLAN.

COMPANY	NAME	ŧ	F

UN

DMENT_LOG						
CRIPTION OF AMENDMENT	AMENDMENT PREPARED BY	DATE				

ATE TVITY ASED	DESCRIPTION OF ACTIVITY	DATE STABILIZATION MEASURE INITIATED	DESCRIPTION OF STABILIZATION MEASURE ¢ LOCATION

## **CONTRACTOR & SUBCONTRACTOR SIGNATURE LIST**

PRIOR TO BEGINNING CONSTRUCTION THE ANY/ALL CONTRACTORS AND/OR SUBCONTRACTORS THAT WILL PROVIDE SERVICES FOR IMPROVEMENT OF THE SITE AS SHOWN ON THE PLAN SET SHALL SIGN BELOW:

REPRESENTATIVE	TITLE	SIGNATURE	DATE

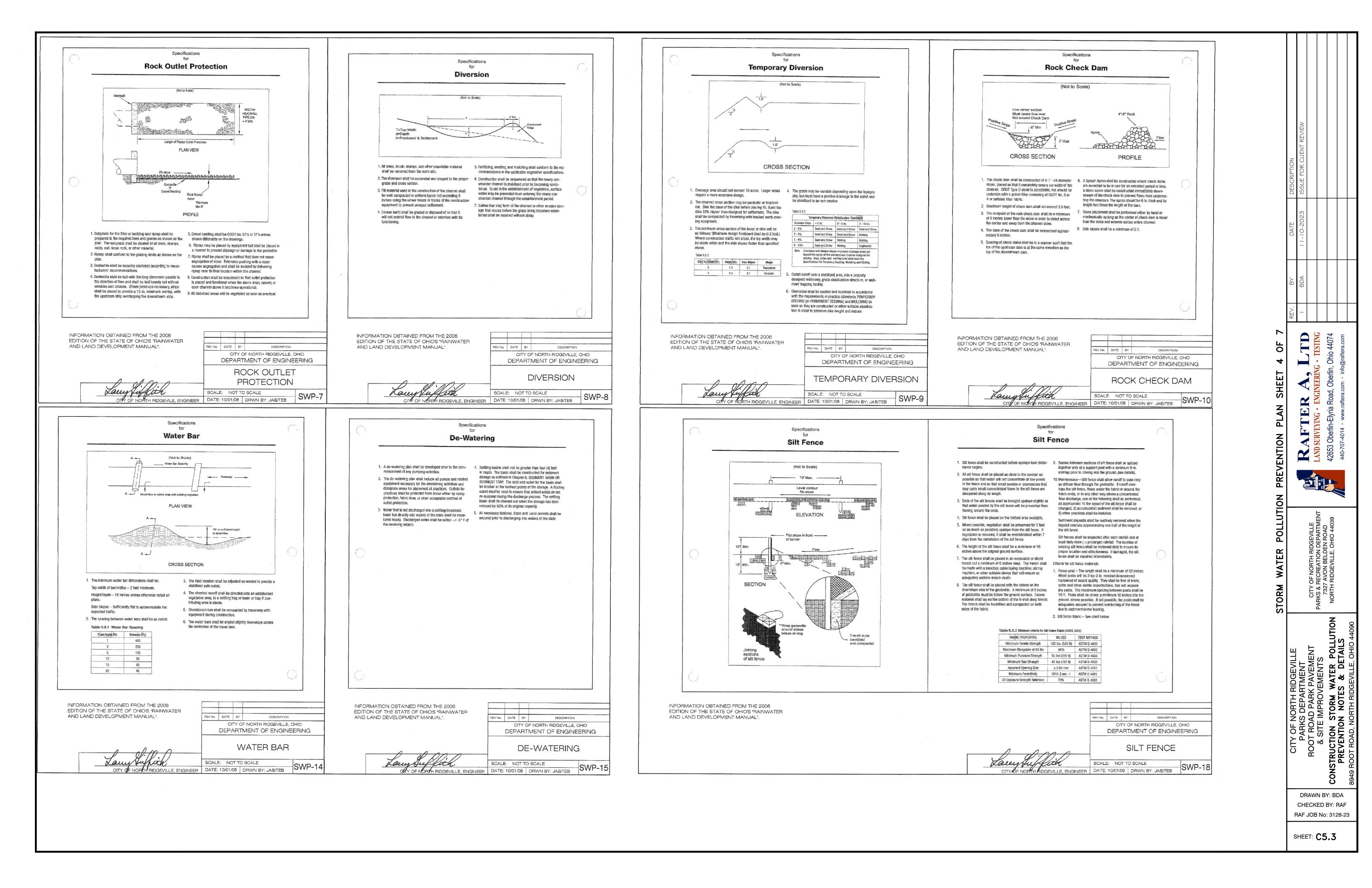
DERGROUND	UTILITIES	NOTE:

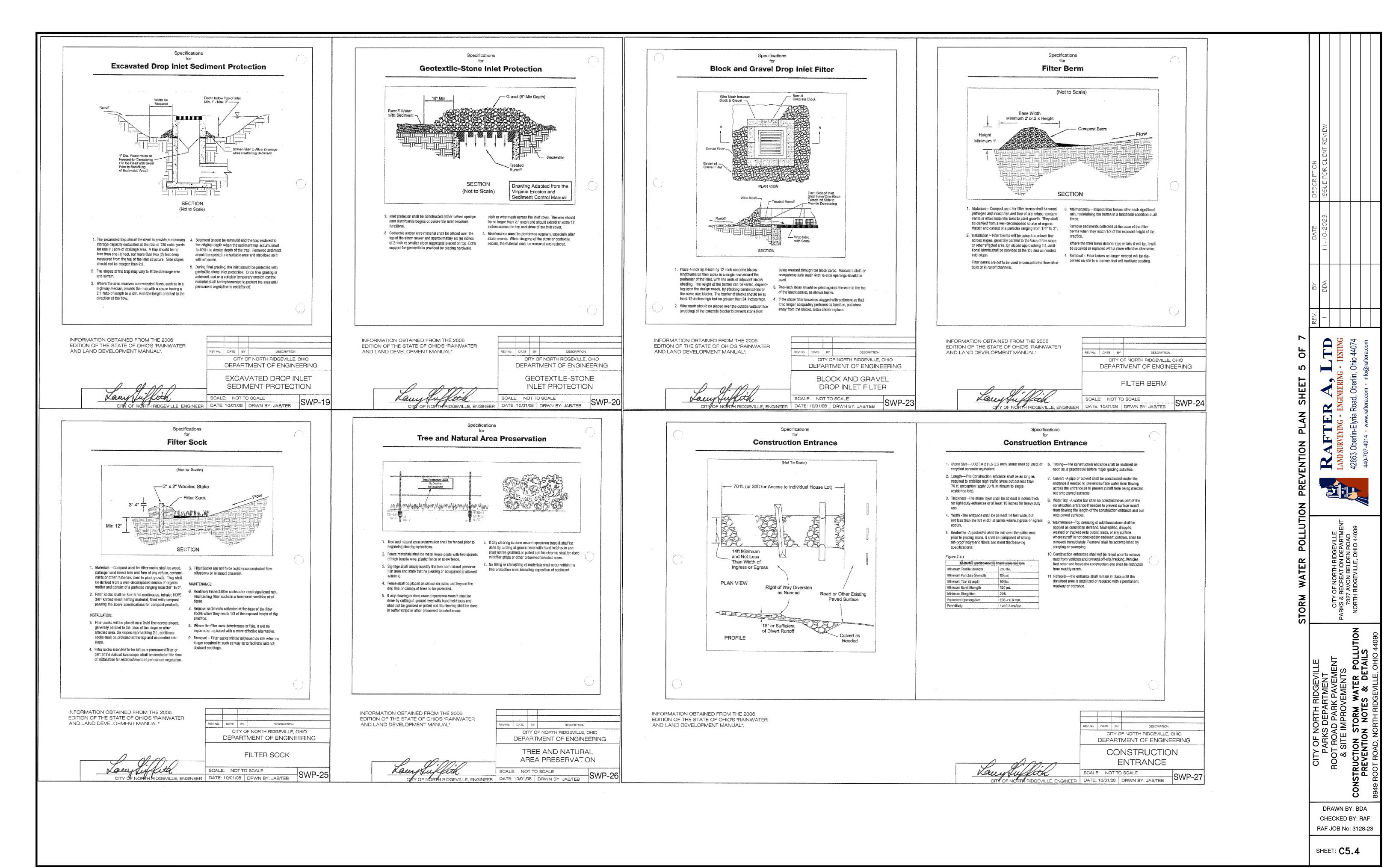
THE SIZE & LOCATION, BOTH HORIZONTAL AND AVAILABLE RECORDS. VERIFICATION BY FIELD OBSERVATION HAS BEEN CONDUCTED WHERE PRACTICAL. HOWEVER, RAFTER A., LTD DOES NOT GUARANTEE THE COMPLETENESS NOR ACCURACY THEREOF.

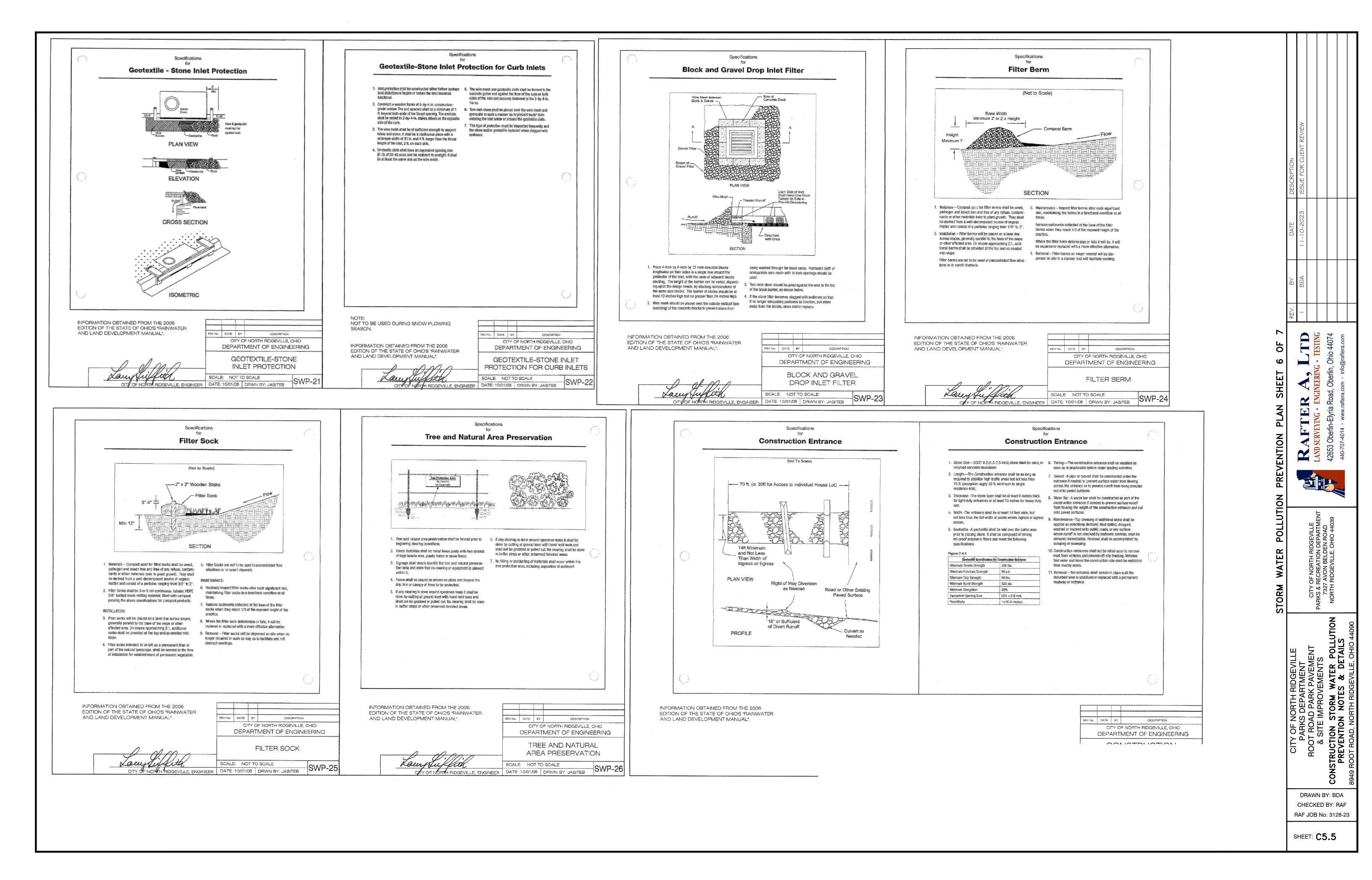


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OF 7	REV. BY DATE DESCRIPTION	I BDA II-IO-2023 ISSUE FOR CLIENT REVIEW			nio 44074	aftera.com	
STORM WATER POLLUTION PREVENTION PLAN SHEET 3 OF 7		RAFTER A LTD			42653 Oberlin-Elyria Road, Oberlin, Ohio 44074	440-707-4014 • www.raftera.com • info@raftera.com	
STORM WATER POLLUT				PARKS & RECREATION DEPARTMENT	0N N		
	CITY OF NORTH RIDGEVILLE	PARKS DEPARTMENT	ROOT ROAD PARK PAVEMENT	& SITE IMPROVEMENTS	CONSTRUCTION STORM WATER POLLUTION	PREVENTION NOTES & DETAILS	8949 ROOT ROAD, NORTH RIDGEVILLE, OHIO 44090
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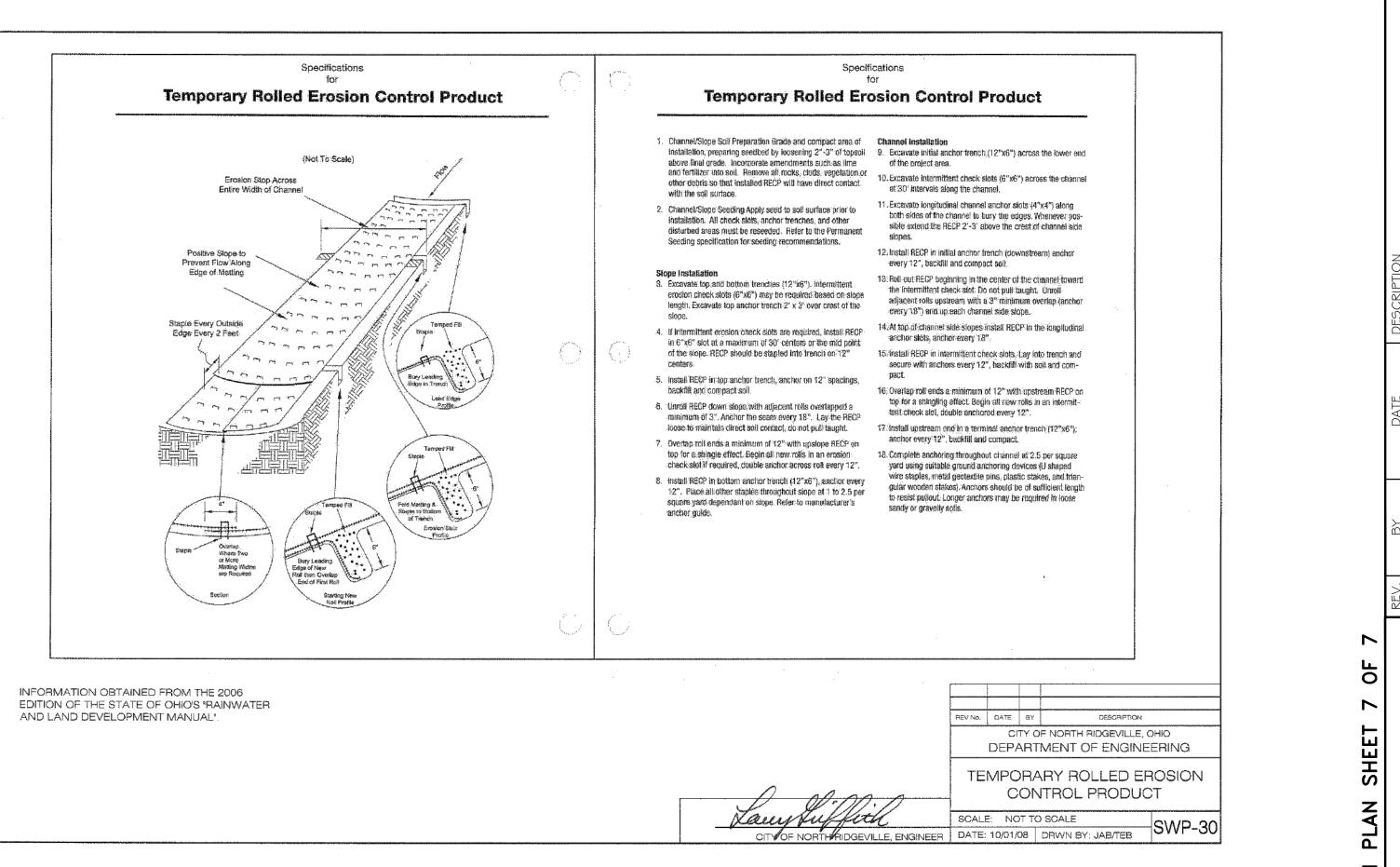




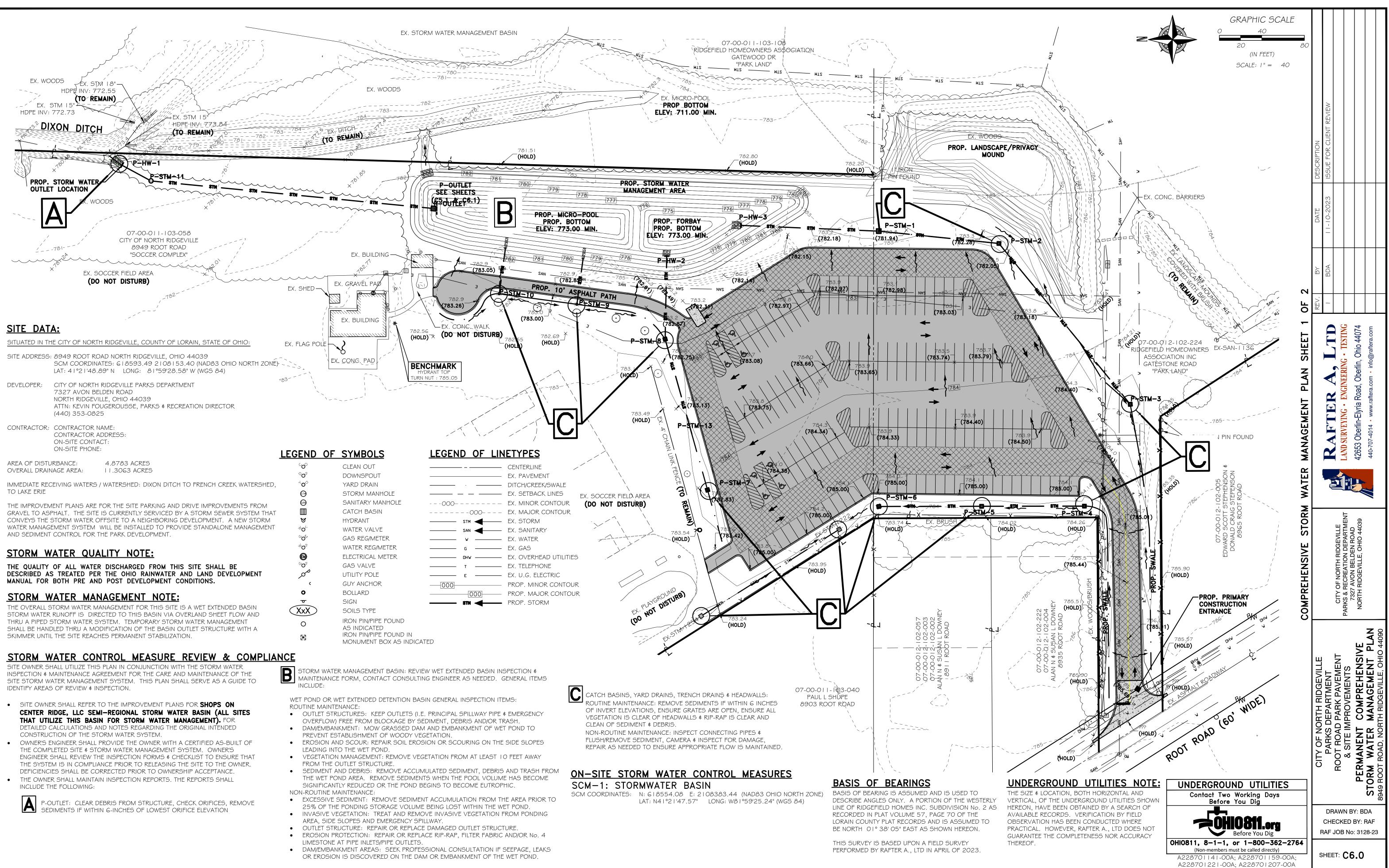
			Specifications for Dust Control	······
		nent seeding and mulch to over 21 days. Saving exis- also reduce solt and air m See Temporary Seeding; F Practices; and The and N 2. Watering – Spray site with before and during grading on haaf foads and other be done at a rate that pre- solt erosion. Weiting ager manufacturers instruction	mechanical spreader as loose, dry ply adhesive according to the foi- a rate that keeps the surface mois	coarse gravel as soon as im or final grade. Crushed d as a permanent cover to etation shall be marked ther suitable barrier revailing air currents at rrier height to control air may be applied by granules or flakes at it but not so flagh as to, hade. Application rates
		Table 7.5.1. Adhesives.for         Adhesive         Adhesive         Latex Emulsion         Latex Emulsion         (No-traffic)         Acrylic Emulsion         (No-traffic)         Acrylic Emulsion         (No-traffic)         Acrylic Emulsion         (Traffic)	Weter)         Type         Bate Gal./Ac.         as needed to accomplish control.           1         Fine         235         control.           Fine         300         Street Cleaning - Paved areas thet sediment from construction should needed, utilizing a street sweeper or scraper.	tment should be applied () () () () () () () () () () () () ()
		INFORMATION OBTAINED F		<u> </u>
AEV N	DATE         BY         DESCRIPTION           CITY OF NORTH RIDGEVILLE, OHIO         DEPARTMENT OF ENGINEERING	EDITION OF THE STATE OF AND LAND DEVELOPMENT	MANUAL". DATE BY CITY OF DEPARTM	DESCRIPTION NORTH RIDGEVILLE, OHIC IENT OF ENGINEER
SO/			DUS	T CONTROL
CITY OF NORTH RIDGEVILLE, ENGINEER DA	CITY OF NORTH SWP3 STANDARD ( SWP3 STANDARD ( SUL TRANSPORT ONTO PUBLIC ROADS WHERE SOIL TRANSPORTED ONTO PUBLIC ROAD SURFAC	GENERAL NOTE	SPILL REPORTING REQUIREMENTS THE CONTRACTOR SHALL CONTACT THE OHIO EPA AT 800-282-9378	AND THE LOCAL FIRE DEPARTMENT
GENERAL EROSION AND SEDIMENT CONTROL NOTES: EROSION CONTROL SHALL CONSIST OF TEMPORARY CONTROL MEASURES AS DETAILED ON THE PLANS I ORDERED BY THE GOVERNING JACENCY DURING THE LIFE OF THE CONTRACT TO CONTROL SOIL EROSION SEDIMENTATION THROUGH USE OF EROSION CONTROL DEST MANAGEMENT PRACTICES (BMP'S). TEMPORARY EROSION AND SEDIMENT CONTROL TEST MANAGEMENT PRACTICES (BMP'S). TEMPORARY EROSION AND SEDIMENT CONTROL TEST MANAGEMENT PRACTICES (BMP'S). TEMPORARY EROSION AND SEDIMENT CONTROL TEST MANAGEMENT PRACTICES (BMP'S). TEMPORARY EROSION AND SEDIMENT CONTROL TEMPORARY COMMENCEMENT OF ANY CLEARING OR EA OPERATIONS. CONTROL BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF ANY CLEARING OR EA OPERATIONS. SCIDIED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF ANY CLEARING OR EA OPERATIONS. SCIDIED ON THE CONTRACTOR PRIOR TO COMMENCEMENT OF ANY CLEARING OR EA OTT ENGINEER AND REFLECTED ON THE REMISED SWP3. 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UNITS OF CLEARING AND GRADING SHALL BE CLEARLY MARKED ON THE SITE WITH SIGNAGE, FLAGGING THE DRANGE CONSTRUCTION FENCING.	E: DRWN BY: SWP-28 CONTROL CONTR	SECONDERRAL NOTE: BES, THE ROADS SHALL BE CLEANED THOROUGHLY WORK DAY OR MORE FREQUENTLY, IN ORDER TO PERMITTED. MENT TO CROSS CURBS SHALL BE PROPERLY MENT TO CROSS CURBS SHALL BE PROPERLY RECEPTED BY SLT FENCE OR DIVERSIONS TO PROTECT INT TRANSPORTED VIA SHEET FLOW, WHERE LL BE PLACED ON A LEVEL CONTOUR. THE EPA THER SEDIMENT BARRIEST DESCHOED TO CONTROL USED FOR CONTROLLING CONCENTRATED BRSION PRACTICES SHALL BE USED TO KEEP RUNOFF PRACTICAL, SUCH DEVICES, WHICH INCLUDE SWALES, ES. DING BUILDING MATERIALS, SHALL BE DISCHARGED IN PLEMENTED TO PREVENT THE DISCHARGE OF NON- TE OR SURFACE WATERS OF THE STATE. UNDER NO YINTO A TRANSPORT HANNEL, STORM SEWER OR MATER TO WASTE MATERIALS IS RECOMMENDED. RS OF THE STATE RESULTING FROM DEWATERING. 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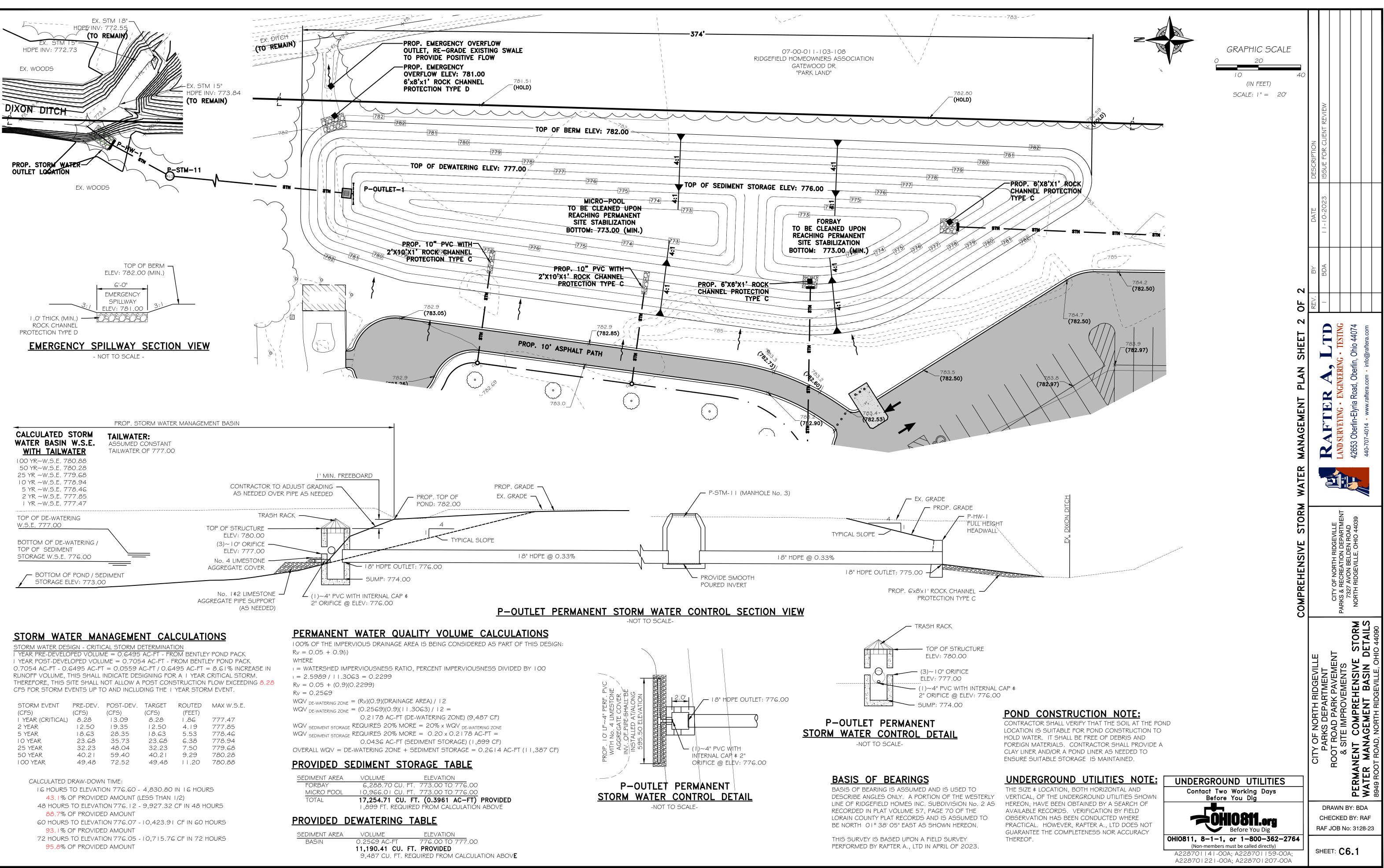
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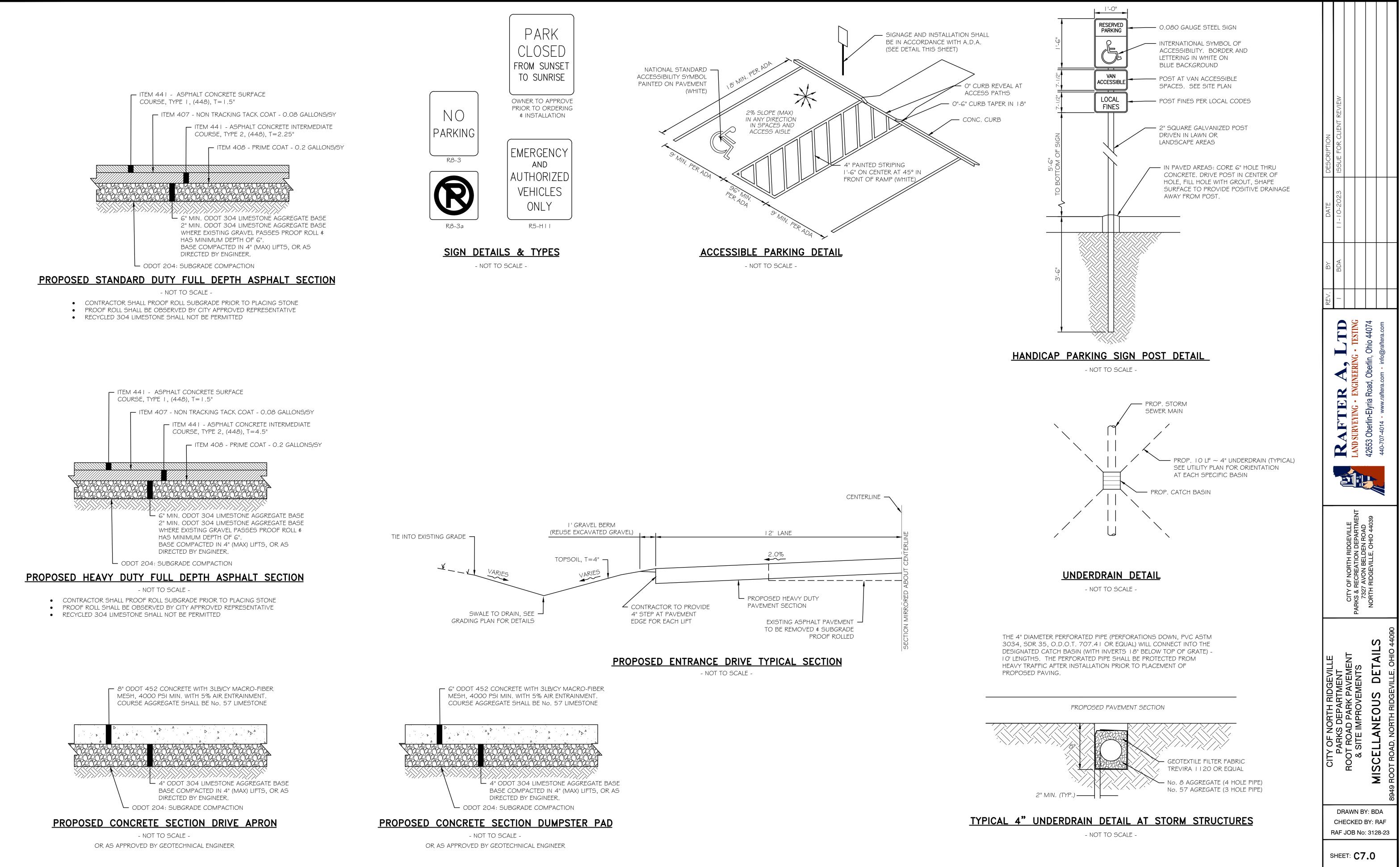


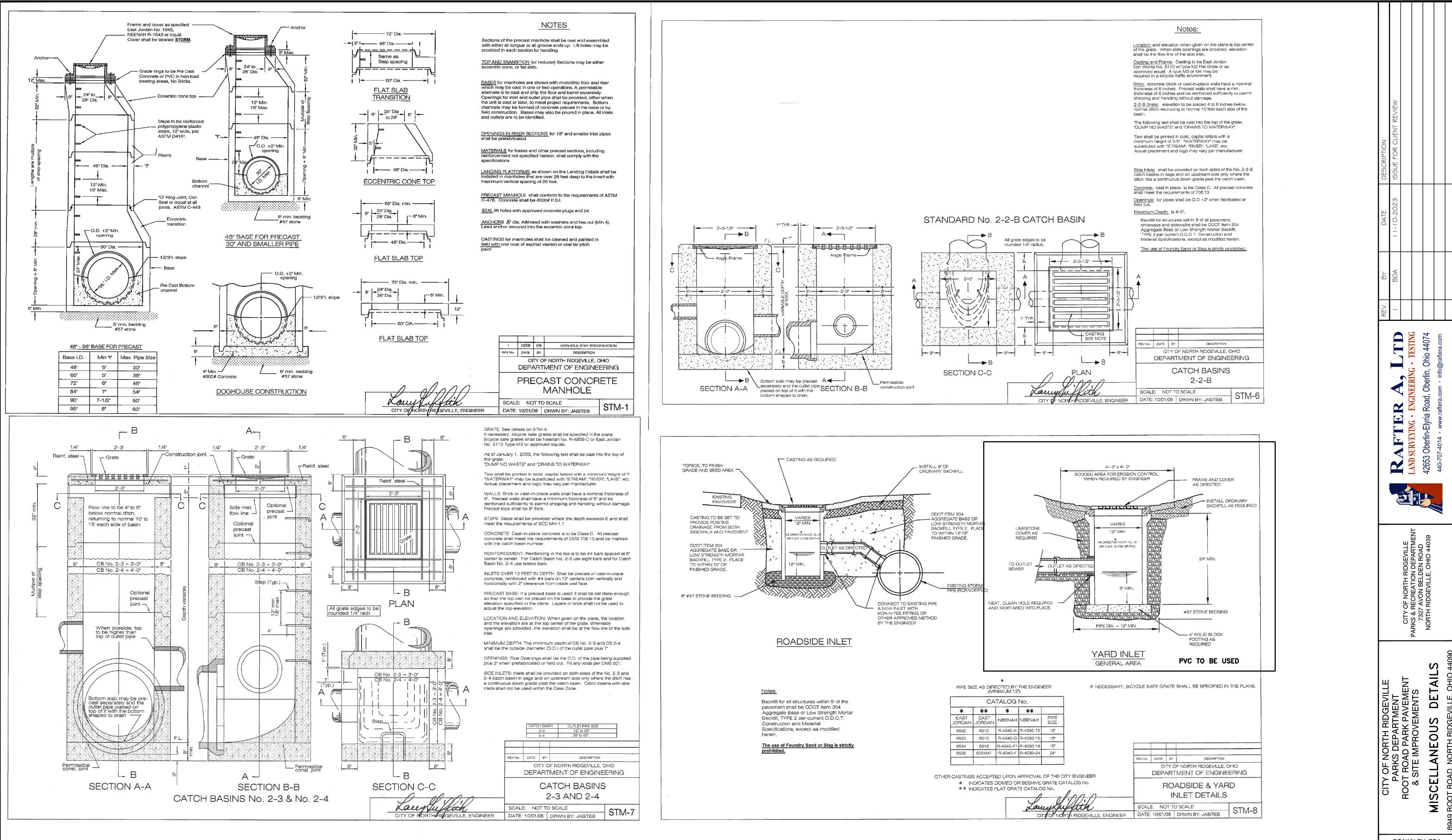
	BY DATE DESCRIPTION	BDA I I - I 0-2023 ISSUE FOR CLIENT REVIEW					
	REV.						
SIURM WAIER PULLUIIUN PREVENIIUN PLAN SHEEI / UP /		RAFTER A LTD		LAND SUKVEYING - ENGINEEKING - LESLING	42653 Oberlin-Elyria Road, Oberlin, Ohio 44074	440-707-4014 • www.raftera.com • info@raftera.com	
SIURM WAIER FULLUIN			CITY OF NORTH RIDGEVILLE	PARKS & RECREATION DEPARTMENT 7327 AVON BELDEN ROAD	NORTH RIDGEVILLE, OHIO 44039		
	CITY OF NORTH RIDGEVILLE	PARKS DEPARTMENT	ROOT ROAD PARK PAVEMENT	& SITE IMPROVEMENTS	CONSTRUCTION STORM WATER POLLUTION	PREVENTION NOTES & DETAILS	8949 ROOT ROAD, NORTH RIDGEVILLE, OHIO 44090
	F	CHI	ECK	'N B` ŒD I 3 No	BY: I	RAF	3
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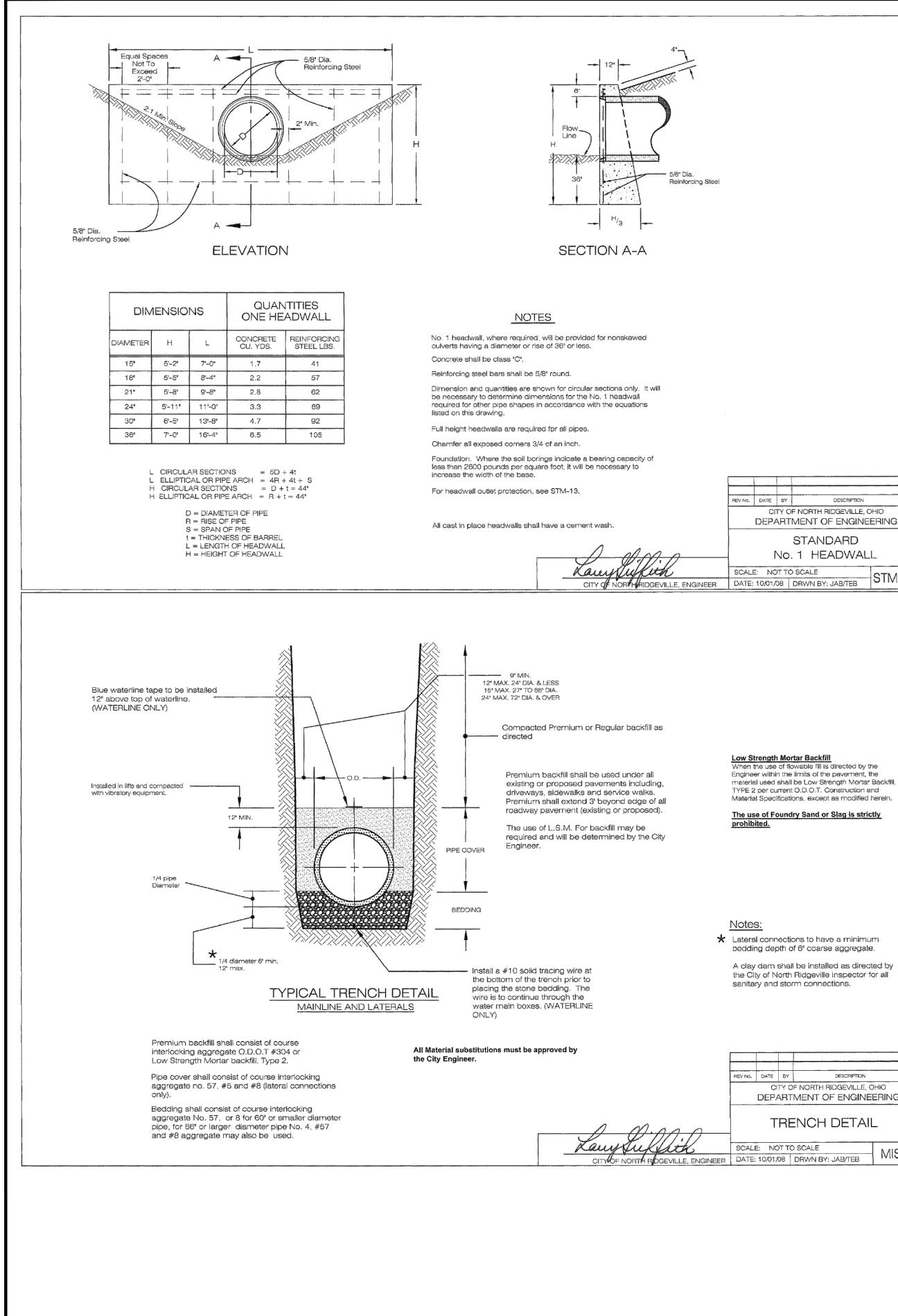
DIMENT AREA	VOLUME	ELEVATION
BASIN	0.2569 AC-FT	776.00 TO 777.00
	11,190.41 CU.	FT. PROVIDED
	9,487 CU. FT.	REQUIRED FROM CALCULATION

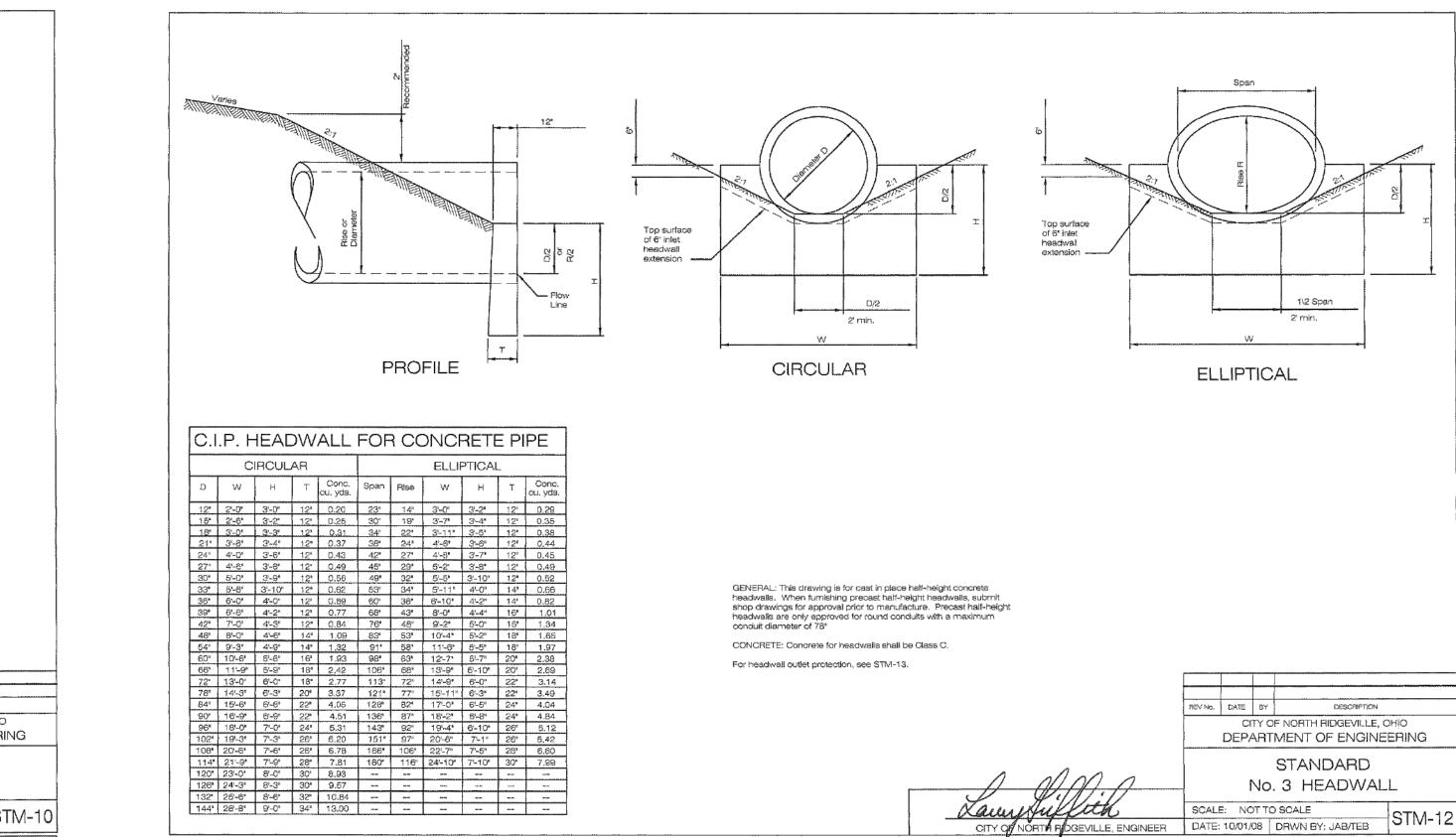




DRAWN BY: BDA CHECKED BY: RAF RAF JOB No: 3128-23

SHEET: C7.1





DEPARTMENT OF ENGINEERING STANDARD No. 1 HEADWALL STM-10

DESCRIPTION

Low Strength Mortar Backfill When the use of flowable fill is directed by the Engineer within the limits of the pavement, the material used shall be Low Strength Mortar Backfill, TYPE 2 per current O.D.O.T. Construction and Material Specifications, except as modified herein.

The use of Foundry Sand or Slag is strictly prohibited.

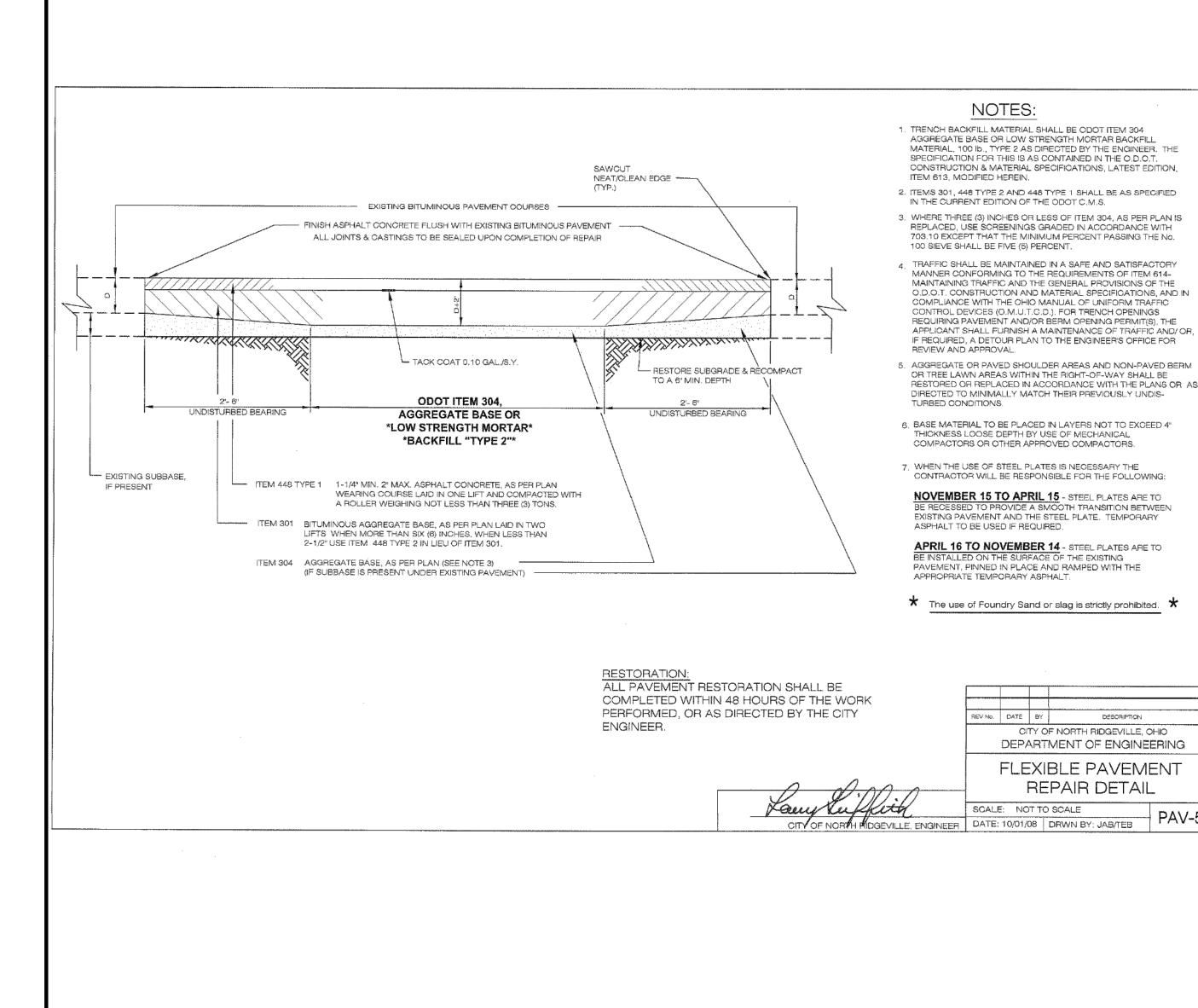
A clay dam shall be installed as directed by

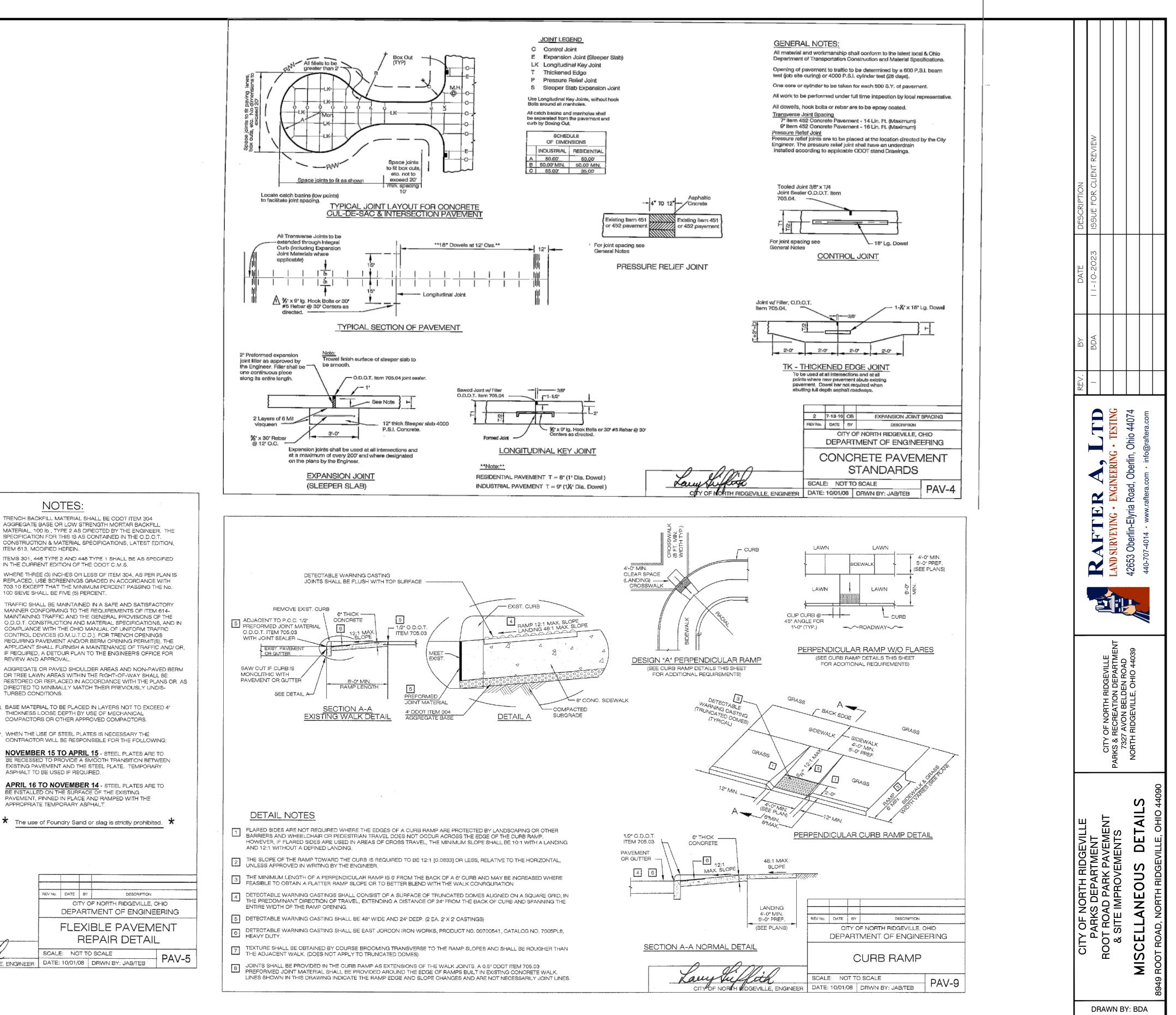
DESCRIPTION

CITY OF NORTH RIDGEVILLE, OHIO DEPARTMENT OF ENGINEERING

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	EVIEW					
DESCRIPTION	ISSUE FOR CLIENT REVIEW					
DATE	11-10-2023					
ВΥ	BDA					
REV.	_					
	TTR AFTER A LTD			42653 Oberlin-Elyria Road, Oberlin, Ohio 44074	440-707-4014 • www.raftera.com • info@raftera.com	
			PARKS & RECREATION DEPARTMENT 7327 AVON BELDEN ROAD	NORTH RIDGEVILLE, OHIO 44039		
CITY OF NORTH RIDGEVILLE	PARKS DEPARTMENT	ROOT ROAD PARK PAVEMENT	& SITE IMPROVEMENTS	MISCELLANEOLIS DETAILS	MISCELLANECUS DE LAILS	8949 ROOT ROAD, NORTH RIDGEVILLE, OHIO 44090
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RAF JOB No: 3128-23

CHECKED BY: RAF

SHEET: C7.4

1.	ALL WORK AND MATERIAL THE CITY OF NORTH ROOM	LS SHALL MEET THE RULES, LA GEVILLE.	WS & CODES OF
2.	The following utilities This project:	MAY BE LOCATED WITHIN THE	work likits of
	PAVEMENTS STORM SEVERS SANITARY SEVERS WATERLINES GAS-COLUMBIS GAS TELEPHONE-WNDSTREAM ELECTRIC-OHIO EDISON	CITY OF NORTH RIDGEVILLE CITY OF NORTH RIDGEVILLE CITY OF NORTH RIDGEVILLE CITY OF NORTH RIDGEVILLE DAN SUREN GEOFF HAMM MIKE ZANNI	(440) 353-0842 (440) 353-0842 (440) 353-0842 (440) 353-0842 (440) 353-0842 (440) 891-2428 (440) 329-4247 (440) 328-3271
	In taken of the LUISON	PRINTING GUTARTERS	19901 326-3271

GENERAL

PAVEMENTS	CITY OF NORTH RIDGEVILLE	(440) 353-0842
STORM SEWERS	CITY OF NORTH RIDGEVILLE	(440) 3530842
SANITARY SEVERS	CITY OF NORTH RIDGEVILLE	(440) 353-0842
WATERLINES	CITY OF NORTH RIDGEVILLE	(440) 353-0842
GAS-COLUMBIS GAS	DAN SUREN	(440) 891-2428
TELEPHONE-WNDSTREAM	GEOFF HAMM	(440) 329-4247
ELECTRIC-OHIO EDISON	MIKE ZANNI	(440) 326-3271
CABLE-SPECTRUM	RON HRIBAL	(440) 366-0416
WATER TRANSMISSION	AVON LAKE MUNICIPAL UTILIT	(EXT. 625) ES (440) 933-6226

THE CONTRACTOR SHALL VERIFY THE ABOVE INFORMATION WITH OUPS WHEN HE CONTACTS THEN BEFORE CONSTRUCTION BEGINS. THE CONTRACTOR SHALL LOCATE ALL UTILITIES OR UNDERGROUND STRUCTURES PRIOR TO CONSTRUCTION AND NOTEY EACH RESPECTIVE UTILITY OWNER FORTY-EIGHT (4B) HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.

- WHERE IN ANY CASE THE PLANS AND SPECIFICATIONS DO NOT ENTIRELY COVER MATERIALS AND/OR WORKNANSHIP, THE "STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, CONSTRUCTION AND MATERIAL SPECIFICATIONS", CURRENT EDITION WILL APPLY, OCOT REFERENCES MAY BE INDICATED THROUGHOUT THE PLANS. MATERIAL AND WORKMANSHIP SHALL ALSO CONFORM TO THE SPECIFICATIONS, RULES AND ORDINANCES OF THE CITY OF NORTH RIDGEVILLE. WHERE CONFLICTS OCCUR IN THE ABOVE, THE CITY OF NORTH RIDGEVILLE. WHERE CONFLICTS OCCUR IN THE ABOVE, THE CITY OF NORTH RIDGEVILLE. WHERE CONFLICTS OCCUR IN THE ABOVE, THE CITY OF NORTH RIDGEVILLE. WHERE CONFLICTS OCCUR IN THE ABOVE, THE CITY OF NORTH RIDGEVILLE. WHERE CONFLICTS OCCUR IN THE ABOVE, THE REPARED OR REPLACED AS DIRECTED BY THE CITY ENGINEER, REFERENCES IN THE CONSTRUCTION INCLUDING MATERIALS OR WORKMANSHIP SHALL BE REPARED OR REPLACED AS DIRECTED BY THE CITY ENGINEER, REFERENCES THROUGHOUT THESE PLANS TO "THE ENGINEER" SHALL BE THE CITY ENGINEER.
- ALL WORK SHALL BE DONE IN A SAFE MANNER AND AS A MINIMUM SHALL COMPLY WITH THE SPECIFIC SAFETY REQUIREMENTS OF THE OSHA AS DEFINED IN 29 CRF 1928.
- AT LEAST FIVE DAYS PRIOR TO THE START OF ACTUAL CONSTRUCTION WORK, A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD AT THE DIRECTION OF THE CITY OF NORTH RIDGEVILLE ENGINEER AND APPROPRIAT CITY OFFICIALS, AND THE OWNER'S ENGINEER. THE CONTRACTOR OR HIS AUTHORIZED SUPERINTENDENT SHALL BE FRESENT, ALONG WITH ANY AND ALL PRIVATE UTILITY COMPANY REPRESENTATIVES. THIS MEETING WILL BE FOR COORDINATION AND PROCEDURE REVIEW PRIOR TO COMMENCING ANY
- THE CONTRACTOR SHALL NOT COMMENCE WITH ANY FORM OF CONSTRUCTION WITHOUT GIVING 24 HOUR NOTICE TO THE OFFICE OF THE CITY ENGINEER TO ARRANGE FOR INSPECTION. IF ANY CHANGE IN THE WORK SCHEDULE BECOMES NECESSARY, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE INSPECTOR TO AVOID UNNECESSARY INSPECTION COSTS. IF NO NOTIFICATION IS MADE IN REGARDS TO CANCELLATION OF WORK, THE CONTRACTOR WILL BE CHARGED A MINIMUM OF SCHE AL WORK F FOUR (4) HOURS.
- THE CONTRACTOR SHALL SUPPLY ALL LABOR, MATERIAL, AND EQUIPMENT NECESSARY, SUCH AS CALCIUM CHLORIDE, WATER, OR A MOTORIZED DUST-FREE STREET SWEEPING DEVICE, AS DIRECTED BY THE ENGINEER, TO MAINTAIN ALL ROADWAYS BEING USED FOR ACCESS TO THE CONSTRUCTION
- THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY SAFEGUARDS SUCH AS BARRICADES, SATISFACTORY BARRERS, LIGHTING, FLAGMEN, TEMPORARY GUARDRAIL, AND SUCH OTHER TRAFFIC CONTROL DEVICES AS PROVIDED IN "ITEM 814 MAINTAINING TRAFFIC" SO AS TO AVOID OAMAGE AND/OR INJURY TO VEHICLES AND PRESONS USING THE ROADWAY DURING CONSTRUCTION. ALL AREAS OF PAVEMENT REMOVAL WHICH HAVE NOT BEEN FULLY RESTORED SHALL BE PROTECTED WITH COMES OR DRUNS DURING DAYLIGHT HOURS. THESE AREAS SHALL BE PROTECTED WITH FLASHING DARTICHT HOURS. THESE AREAS SHALL BE PROTECTED WITH FLASHING DARGCADES OR DRUNS WITH STEAOY BURNING LIGHTS AT NIGHT. THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS AS TO THE PROPOSED WORK WITH MINIMUM HAZARD, DELAY, AND INCONVENENCE UNDER THE KONTRIST USING THE STRALE CONDUCT HIS OPERATIONS AS TO THE PROPOSED WORK WITH MINIMUM HAZARD, DELAY, AND INCONVENENCE UNDER THE CONTRACT AND HE SHALL COORDWATE ALL CLOSING OF STREETS WITH THE CONTRACT AND HE SHALL COORDWATE ALL CLOSING OF STREETS WITH THE GUT ENGINEER AND THE POLICE CHIEF OF THE CITY OF NORTH RIDGEVILLE.
- ACCESS ROADS SHALL BE KEPT FREE OF MUD, DEBRIS, DIRT, ETC, AND SHALL BE CLEANED EVERY DAY AT THE END OF WORK OR MORE FREQUENTLY IF SO ORDERED BY THE CITY OF NORTH RIDGEVILLE.
- THE CONTRACTOR AND ANY SUBCONTRACTOR SHALL HAVE A COMPETENT SUPERVISOR ON THE PROJECT AT ALL TIMES WHEN WORK IS BEIND DONE
- 12. NO SLAG OR OTHER SULFUROUS MATERIAL WILL BE USED ON THE PROJECT. 5. CONCRETE PAVEMENT CURING COMPOUND SHALL BE SILENCURE A FROM CHEMMASTERS, 300 EDWARDS ST., MADISON, CHIO, 44057.

- **CITY OF NORTH RIDGEVILLE** STANDARD GENERAL NOTES

- THE SUBGRADE IN THE STREET SHALL BE LEFT TWO MICHES HIGH FOR THE PAVENENT CONTRACTOR TO TRIM DOWN TO FINAL GRADE. THE CONTRACTOR SHALL PROOF ROLL THE GRADE WITH A FULLY LOADED (MAXIMUM LEGAL WEIGHT) TRIADLE DUMP TRUCK, ANY "SOFT" SPOTS SHALL BE REMOVED AND REPLACED WITH COMPACTED EARTH.
- EARTHWORK SHALL BE DONE IN SUCH A FASHION AS TO NOT TRAP WATER
- TREE AND BRUSH CLEARING/DISPOSAL SHALL BE DONE IN A MANNER ACCEPTABLE TO THE CITY OF NORTH RIDGEVILLE.
- 5. ALL PAVEMENT AREAS SHALL HAVE ALL ORDANICS AND TOPSOIL REMOVED FROM THE AREA.
- 6. AT ALL THES DURING THE PROGRESS OF THE WORK AND UNTER RELEASE OF THE CONTRACTOR FROM HIS CUARANTEE BY THE OWNER, THE CONTRACTOR SHALL MAINTAIN THE BACKFILLED TRENCHES AND OTHER EXCAVATIONS. IN PARTICLEAR, THOSE TRENCHES OR EXCAVATIONS WHICH ARE WITHIN FIFTER (15) FEET OF THE EDGE OF PAYEMENT OR THE EDGE OF TRAVELED ROADWAYS, SHALL BE KEPT FILLED UP THE SAME LEVEL AS THE ADJACENT UNDISUTRED CROUND, NY SETTLEMENT WHICH OCCURS DURING THIS PERIOD SHALL BE INMEDIATELY FILLED IN TO PREVENT THE POSSIBILITY OF ACCIDENTS.
- WHERE EXISTING SEWERS ARE ENCOUNTERED AND ARE INTERFERED WITH, FLOYS SHALL BE MANITAINED, SEWARE OR OTHER LIQUID NUST BE HANDLED BY THE CONTRACTOR EITHER BY CONNECTION INTO OTHER SEMENS (MITH THE APPROVAL OF THE CITY ENGINEER) OR BY TENPORARY FUMPING TO A SATISFACTORY CONTEX-SEWARE OR OTHER LIQUID SHALL NOT BE PUMPED, BALED OR FLUMED OVER THE STREET.
- BACKFILL SHALL INCLUDE THE MATERIAL PLACED ABOVE THE BEDDING AND SHALL CONSIST OF FINELY DIVIDED SOLL FREE FROM STONES, RUBBISH, LARGE CLUMPS DR OTHER HARMFUL DEBRIS. THE BACKFILL SHALL BE TAMPED IN SIX (6) INCH LAYERS.
- BACKFILL WITHIN EXISTING OR PROPOSED PAVED OR STORE STREETS, ALLEYS, DRIVEWAYS, PARKING AREA AND PROPOSED SIDEWALKS, OR ALLEYS, DRIVEWAYS, PARKING AREA AND PROPOSED SIDEWALKS, OR WITHIN FIVE (5) FEET OF THESE AREAS SHALL CONSIST OF A DURABLE GRAVEL, OR CRUSHED STONE MEETING THE REQUIREMENTS OF THEM 304 OF THE CURRENT DOOT CONSTRUCTION AND MATERIAL SPECIFICATIONS. THE USE OF A 304 RECYCLED CONCRETE EQUIVALENT AND SLAD IS PROHIBITED. THE GRANULAR BACKFILL SHALL BE MECHANICALLY TAMPED W SIX (6) INCH LAYERS SO THAT THE BACKFILL, WILL HAVE A DENSITY EQUAL TO A MINIMUM OF B3X OF THAT POSSIBLE UNDER OFTIMUM MOISTURE CONTENT AS DETERMINED BY STANDARD PROCTOR TEST. ROADWAY
- ALL TREES AND BRUSH, AND ANY OTHER VEGETATION WITHIN THE LIMITS OF THIS PROJECT THAT INTERFERE WITH THE CONSTRUCTION SHALL BE REMOVED FROM THE SITE, STUMPS MAY BE GROUND OUT OR REMOVED FROM THE SITE.
- ALL EARTHWORK SHALL HAVE INSPECTION AND TESTING AS DEEMED NECESSARY BY THE CITY OF NORTH RIDGEVILLE. SUCH INSPECTION MILL BE COORDINATED BY THE CITY OF NORTH RIDGEVILLE. SUCH INSPECTION MILL BE LABORATORY TO NAKE THE TESTS RIGDENTAL TO THE QUALITY CONTROL OF THE EARTHWORK OPERATION. SOIL TESTING AND CLASSIFICATION SHALL BE PERFORMED BY THE SOILS TESTING LABORATORY TO DETERMINE THE PROPER MOISTURE CONTENT AND SOIL DENSITY BEFORE BEGINNING EARTHWORK CONSTRUCTION. THE COST OF THIS INSPECTION AND TESTING WILL BE PAND BY THE CONTRACTOR, THE CONTRACTOR SHALL PRESENT HIS PLAN AND SCHEDULE FOR EARTHWORK OPERATIONS AT THE PRE-CONSTRUCTION CONFERENCE.
- WHERE SOFT SUBGRADE IS ENCOUNTERED, DUE TO NO FAULT OR NEGLECT OF THE CONTRACTOR, IN WHICH SATISFACTORY STABILITY CANNOT BE OBTAINED BY MOISTURE CONTROL AND COMPACTION, THE UNSTABLE MATERIAL BHALL BE EXCAVATED TO THE DEPTH REQUIRED BY THE ENGINEER. BACKFILLING OF THESE EXCAVATED AREAS SHALL BE WITH EMBANKMENT MATERIAL DR AGGREGATE BASE (ODOT ITEM 304) OR "AS DIRECTED BY THE ENGINEER."
- CONCRETE WILL BE TESTED BY AN ODOT QUALIFIED LABORATORY DURING CONSTRUCTION FOR AIR ENTRAINMENT AND SLUMP, CONCRETE TEST CYLINDERS WILL BE PREPARED FOR EACH 50 YARDS OR FRACTION THEREOF. CONCRETE BEAMS MAY BE PREPARED AT THE CONTRACTOR'S OFTION. THE CONCRETE BEAMS MAY BE PREPARED AT THE CONTRACTOR'S OFTION. THE CONCRETE BEAMS MAY BE PREPARED AT THE CONTRACTOR'S OFTION. THE CONCRETE BEAMS MAY BE PREPARED AT THE CONTRACTOR'S OFTION. THE CONCRETE BEAMS MAY BE PREPARED AT THE CONTRACTOR'S OFTION. THE CONCRETE BEAMS MAY BE PREPARED AT THE CONTRACTOR'S OFTION. THE CONCRETE BEAMS MAY BE PREPARED TO PERFORM THE ON-SITE INSPECTION PRIOR TO CONSTRUCTION.

- 12. FOR RESIDENTIAL SUBDIVISIONS, THE TRAFFIC CONTROL SKINS WILL BE EFECTED BY THE DEVELOPER. THE INSTALLATION WILL BE EFECTED BY THE DEVELOPER. THE INSTALLATION AND LOST OF THE STREET NAME SIGNS AND STREET LIGHTS WILL BE DOWE BY THE DEVELOPER. THE INSTALLATION WILL BE PADD BY STREET LIGHTS WILL BE DOWE BY THE DEVELOPER AT HIS EMPENSE.
  13. THE CITY ENGINEER SHALL BE NOTIFIED FORTY-EICHT (46) HOURS PRIOR TO BERNARD THE ACTUAL CONSTRUCTION.
  EARTHWORK
  1. ALL EXCAVATION AND FILL WORK SHALL BE DONE IN ACCORDANCE WITH ODDT
  CONSTRUCTION AND FILL WORK SHALL BE DONE IN ACCORDANCE WITH ODDT
  1. ALL EXCAVATION AND FILL WORK SHALL BE DONE IN ACCORDANCE WITH ODDT
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  2. DIALETER PERFORATED POR THE DEVELOPER OF DONE ON AND FILL BE AS THE DEVELOPER OF DONE ON ACCORDANCE WITH ODDT
  3. DIALETER PERFORATED POR THE DEVELOPER OF DONE ON ACCORDANCE WITH ODDT
  4. ALL EXCAVATION AND FILL BE LEFT TWO DUCHES HIGH FOR THE BERGOR BE DONE ON ACCORDANCE WITH ODDT
  4. ALL EXCAVATION AND FILL BE LEFT TWO DUCHES HIGH FOR THE DEVELOPER OF DONE OF DONE
  - THE VARIOUS UNDERGOUND INSTALLATION ITEMS SHALL INCLUDE, BUT NOT BE LIMITED TO, ALL EXCAVATION, MATERIAL, LABOR, BEDDING, BACKFILL, COMPACTION, EQUIPMENT, UTLITY PROTECTION, MAINTENANCE OF ROADWAYS AND DRIVES UNTIL FINAL REPLACEMENT, PUMPING AND/OR DEWATERING, CONSTRUCTION AND REMOVAL OF ALL NEOCESSARY TRENCH PROTECTION AND ALL OTHER INCIDENTAL ITEMS NEOCESSARY TO INSTALL SUCH UTLITY. THE CONTRACTOR IS TO TOTALLY FAMILIARIZE HINSELF WITH THE OROUND CONDITIONS THAT NOW DO OR MAY EAST DURING THE CONSTRUCTION SO AS NOT TO ADVERSELY AFFECT THE INTEGRITY OF ANY UTLITY INSTALLATION OR STRUCTURE ON THE CONSTRUCTION SITE OR ADJACENT PROPERTIES.
  - All sanitary sever and storm sever construction shall, conform with odot item 611\*ANY UNSUITABLE MATERIAL, MATERIAL NOT APPROVED BY THE ENGINEER FOR BACKFILL AND MATERIAL IN EXCESS OF THAT REQUIRED FOR BACKFILING SHALL BE DISPOSED OF BY THE CONTRACTOR ON THE STE.

UNDERGROUND INSTALLATIONS - GENERAL

- THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO PREVENT ANY CAVING OR SETTLING OF EXCAVATION OR THENCH WALLS WHICH COULD ENDANGER THE SAFETY OF ANY PERSON ENGADED IN THE WORK OR IN: ANY WAY DAMAGE THE UNDERGROUND INSTALLATIONS OF ADJACENT UTILITY OR PROPERTY, OR DIMINIST THE TRENCH WOTH NECESSARY FOR THE PROPER CONSTRUCTION OF THE UNDERGROUND INSTALLATION OR OTHERMSE INJURE OR DELAY THE WORK. THE TYPE AND AMOUNT OF SUCH PROTECTION, SUCH AS THENCH BOXES, SHEETING, SHORING, OR BRAGING SHALL BE COMPOSITION AND WATER CONTENT OF THE SOL IN THE PROVENTY OF STRUCTURES OR OTHER UTILIES, THE WBRATION FROM EQUIPMENT AND THE SPOIL PLACEMENT, AND SHALL BE IN ACCORDANCE WITH THE LATEST OSHA REGULATIONS.
- REGULATIONS. IN ORDER TO REDUCE OROUND WATER SEEPAGE AND PROVIDE A STABLE TRENCH IT MAY BE NECESSARY TO DEWATER PRIOT TO EXCAVATION OF THE SEXER TRENCH AND/OR PROVIDE TEMPORARY SUMPS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ADJACENT STRUCTURES, PAYEMENTS, OR UTILITIES, OR LOSS OF PRIVATE WELL WATER RESULTING FROM DEWATERING, LOSS OF GROUND, HEAVE, TRENCH CONSTRUCTION, AND ANY OTHER CONSTRUCTION RETHENOS. THE CONTRACTOR SHALL PROTECT ALL EXISTING SEWERS AND UTILITIES THAT THE PROPOSED INSTALLATION CROSSES BY COMPACING THE BACKFILL UNDER SUCH EXISTING FACILITIES OR SHALL PROTECT THE EDISTING FACILITY IN A MANNER AS APPROVED BY THE ENGINEER. F SHEETING IS USED, IT MAY BE NECESSARY TO LORIVE THE SHEETING SAN ON ABLE TRENCH SUPPORTS OR SHEETING, CARE MUST BE EXERTING MOVABLE TRENCH SUPPORTS OR SHEETING, CARE MUST BE EXERTING SOLOR ON STRUCTION, ATTER BOTTOM OF THE PIPE, WHEN USING MOVABLE TRENCH SUPPORTS OR SHEETING, CARE MUST BE EXERTING AND BRACING IS USED, IT MAY BE NEOESSARY TO LORIVE THE SHEETING AND BRACING IS USED, IT MAY BOTTOM OF THE PIPE, WHEN USING MOVABLE TRENCH SUPPORTS OR SHEETING, CARE MUST BE EXERTING SAND GO SA NOT TO USITURE THE PIPE LOCATION, JOINTING OR BECONNE MATERIAL. IF STEEL SHEETING FOODS BRACES OR STRUTS AS REQURED TO RESTRAIN THE TOP OF THE SHEETING, AND BENESSED OF CONTROLLOR, AFTER THE PIPE LOCATION, JOINTING OR BECONRE TO RESTRAIN THE TOP OF THE SHEETING. AND BENESSED OF CONTROLLOR, ATHER THE PIPE HAS BEEN INSTALLED AND THE BALANCE OF THE BEDDING MATERIAL HAS BEEN INSTALLED AND THE BALANCE OF THE BEDDING MATERIAL HAS BEEN INSTALLED AND THE BALANCE OF THE BEDONG MATERIAL HAS BEEN INSTALLED AND THE BALANCE OF THE BEDDING CONTRACTOR SHALL AND DEVENTE THAT THE REMOVAL OF ANY TRENCH PROTECTION SHALL BE CAREFULLY CONTROLLED. THE THENCH PROTECTION SHALL BE CAREFULLY CONTROLLED. THE PIPE HAS BEEN INSTALLED AND THE BALANCE OF THE BEDONG CONTRACTOR SHALL HAS DEED IND CLOATION, ADVERSELY AFFECT THE PIPE HIE SHEETING AND DEDONG IF SHEETING CUT OFF A
- PRIOR TO ANY CONNECTION INTO AN EXISTING SEWER MANHOLE OR CONDUIT THE CONTRACTOR SHALL TAKE SUCH MEASURES AS NECESSARY, "AS APPROVED BY THE ENGINEER", (I.E. TEMPORARY PLUGS, SAND BAGS, ETC.) DURING THE COURSE OF THE CONSTRUCTION OF THE PROPOSED SEWERS, TO GUARD AGAINST ANY DRAINAGE FROM ENTERING THE EXISTING SYSTEM AND POSSIBLY CONTAMINATING SUCH SYSTEM WITH SRT.

- THE LINE AND GRADE OF SEVER MAINS SHALL BE CONTROLLED DURING THE SEVER CONSTRUCTION BY USE OF AN APPROVED LASER DEVICE, 9. AT ALL STORM SEWER MAIN AND SANITARY SEWER MAIN INTERSECTIONS (CROSSINGS) WHEN PIPE OLEARANCE IS LESS THAN 16", THE LOWER PIPE SHALL BE ENCASED AND THE UPPER PIPE. SHALL BE MONOUTHICALLY GRADLED IN 2500 PSI CONCRETE FOR THE WOTH OF THE TRENCH. AT PIPE CROSSINGS GREATER THEN 18" THE BACKFILL BELOW THE UPPER PIPE SHALL BE COMPACTED IN PLACE TO THE SATISFACTION OF THE ENGINEER. STORM SEWERS
- STORM SEWER CONDUIT SHALL CONFORM TO THE FOLLOWING REQUIREMENTS: STORM CONDUIT BETWEEN STREET BASINS AND CONNECTING TO MANHOLE SHALL BE (A.) ONLY IF COVER IS LESS THAN OR EQUAL TO ONE FOOT MEASURED FROM THE TOP OF THE PIPE TO THE BOTTOM OF THE SUBGRADE, OR MAY BE (E.) IF COVER IS GREATER THAN ONE FOOT MEASURED FROM THE TOP OF THE PIPE TO THE BOTTOM OF THE SUBGRADE, AND FOOTING DRAIN CONNECTIONS SHALL BE (B.) ONLY. SUBGRADE. ALL FOOTING DRAIN CONNECTIONS SHALL BE (B.) OHLY.
- A. REINFORCEO CONCRETE PIPE ASTM C-76, "B" OR "C" WALL, B FOOT LENGTHS, WITH AN "O" RING CONFINED GASKET JOINT PER ASTM C-443: (A) 12" & LARGER DIA. CLASS IV. B. POLYMNYL CHLORIDE (PVC) ASTM D-3034 (SDR 35) (ODOT 707.45) WITH GASKET MATERIAL CONFORMING TO ASTM F-477 AND JOINTS PER ASTM D-3212 OR SOLVENT CEMENT JOINTS PER ASTM D-2584.
- D. ULTRA-RIB (PVC) ASTN F 734 (ODDT 7D7.43) WITH INTEGRAL BELL AND SPIGOT JOINT IN ACCORDANCE WITH ASTN D-3212 AND

- ROOF DRAINS ARE TO BE DISCHARGED ONTO SPLASH BLOCKS. NO CONNECTION TO STORM SEWER. 5. AT LEAST 60 DAYS PRIOR TO THE ENO OF THE PERIOD FOR WHICH IMPROVENENTS ARE COVERED BY MINTENANCE BONDS. THE DEVELOPER SHALL CLEAN AND VIDEO TAPE THE STORM SEVER, SANITARY SEVER AND MANHOLES, OR CAUSE THIS TO BE DONE BY A SUBCONTRACTOR OR BUILDER(S) WHO THE DEVELOPER HOLDS RESPONSELE PRIOR TO RELEASE OF THE MAINTENANCE BONOS COVERING THE IMPROVEMENTS. TWO (2) COPIES OF THE VIDEO TAPE(S) AND A WRITTEN REPORT OF THE RESULTS SHALL BE FURNISHED TO THE DEVELOPER AND THE CITY ENGINEER, BOTH THE TAPING AND THE WRITTEN REPORT SHALL BE DONE TO THE SATISFACTION OF THE DEVELOPER AND THE CITY ENGINEER, BOTH THE TAPING AND THE WRITTEN REPORT SHALL BE DONE TO THE DESIGNEES. ANY AND ALL PROBLEMS DISCOVERED SHALL BE REMEDIATED WITHIN TEN (10) WORKING DAYS BY THE DEVELOPER OR BY THE PARTY THE DEVELOPER SHALL CAUSE TO REMEDIATE THE PROBLEMS, IF ANY

WHERE THE PROPOSED IMPROVEMENTS CROSS EXISTING OR PROPOSED PAVEMENTS, INCLUDING A POINT FIVE (5) FEET BEYOND SUCH CROSSINGS, OR WHERE THE CONSTRUCTION METHODS USED BY THE CONTRACTOR BESULT IN THE TRENCH WALL BEING LESS THAN 3 FEET FROM THE EDGE OF THE PAVEMENT, THE ENTIRE TRENCH BACKFILL SHALL BE COUPACTED IN LAYERS NOT TO EXCEED B INCHES IN THICKNESS WITH MECHANICAL TAVERER HETTING METER TRENCH BACKFILL SHALL BE COUPACTED IN TAMPERS MEETING NINETY-EICHT (98) PERCENT OF MAXMUM LABORATORY

- C. PERMA-LOC (PVC) AASHTO SPECIFICATION IN N-304M (ODOT 707.43) WITH INTEGRAL BELL GASKET JOINTS IN ACCORDANCE WITH ASTM 0-3212 AND INSTALLED PER THE MANUFACTURER'S BECOMMENDATIONS.
- INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. E. SMOOTH INTERIOR, COORUGATED, HIGH DENSITY POLYETHYLENE PIPE (HOPE) CONFORMING TO AASHTO SPECIFICATIONS M252 TYPE S AND M-284 TYPE S, (OFOT 707.33) AOS N-12, HANCOR HI-D, OR APPROVED EQUAL THE JOINTS SHALL BE SILT-TIGHT AND THE CASKETS SHALL MEET THE REQUIREMENTS OF ASTM F477 (NOT PRESSURE RATED), INSTALLED IN ACCORDANCE WITH ASTM D-3212 AND MANUFACTURER'S RECOMMENDATIONS.
- OTHER OPTICHAL MATERIALS MAY BE USED WHEN APPROVED BY THE CITY UNDERDRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH GOOT ITEM 805. CONDUIT SHALL BE 6" DIAMETER PYC TYPE PS-48 PIPE CONFORMING TO ASTIM F-755, OR 6" DIAMETER PSM POLYVINYLCHLORIDE (PYC) PIPE CONFORMING TO ASTIM D-3034 SDR 35, WITH A GEOTEXTILE SLEEVE MEETING THE REQUIREMENTS OF CODT ITEM 712.09, TYPE A, AND WITH THE GRANULAR MATERIAL BEING NO. 57 AGGREGATE (NO SLAG)
- 6. ALL MAIN LINE STORM SEWERS SHALL BE CLEANED AND VIDEOTAPED IN PLAN LINE STORY SEVERA STRALE BE SERVICE AND VIDEO TAPES IMMEDIATELY AFTER CONSTRUCTION AND THE VIDEO TAPE SUBMITTED TO THE CITY ENGINEER FOR REVIEW AND APPROVAL. ALL DEFECTS SHALL BE PROMPTLY REPAIRED BY THE CONTRACTOR
- OCTOBER 1, 2008 REV. 5/11/09, 9/29/09, 12/7/09, 8/18/16 5/9/17, 6/28/17, 6/5/20

- SANITARY SEWERS ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEVER ARE PROHIBITED.
- THE SANITARY SEWER SHALL PASS A LOW PRESSURE AIR TEST AND A 5% DEFLECTION TEST. THESE TESTS SHALL BE CONDUCTED BY A COMPETENT TESTER, PREFERABLY AN INDEPENDENT TESTING COMPANY.
  - A DEFLECTION TEST;
  - DEFLECTION TEST: IF PVC PIPE IS USED, THE DEFLECTION TEST WILL BE RUN NOT LESS THAN 30 DAYS NOR MORE THAN 35 DAYS AFTER THE FINAL AND FULL BACKFILL HAS BEEN PLACED. THE TEST IS REQUIRED ON ALL PVC PIPE. THE CONTRACTOR SHALL SUPPLY ALL NECESSARY EQUIPMENT FOR THE DEFLECTION TESTING, ALL EQUIPMENT SHALL BE APPROVED BY THE CITY OF NORTH RIDGEVILLE PRIOR TO THE START OF TESTING, WHERE POSSIBLE, ELECTRONIC EQUIPMENT SHALL BE USED TO MEASURE AND RECORD THE DELFECTION IN THE FLEXBLE PIPE. NO PIPE SHALL EXCEED A DEFLECTION OF FIVE PERCENT. IF SUCH EQUIPMENT IS NOT AVAILABLE, THE OEFLECTION TEST CAN BE RUN BY THE USED OF MANDRELS, HAVING & DIAMETER EQUAL TO NINETY-FIVE (95) PERCENT OF THE INSIDE DIAMETER OF THE PIPE, PULLED THROUGH THE SEVER WITHOUT MECHANICAL, PULLING DEVICES. MANDRELS SHALL BE CONSTRUCTED WITH AT LEAST NINE EVENLY SPACED ARMS OR PRONGS. A METAL PROVING RING SHALL BE PROVOED TO VERIFY THE ACCURACY OF THE MANDREL SHALL BE EIGHT INCHES FOR EIGHT INCH PIPE, TEN INCHES FOR THEN AND TWELVE INCH PIPE. IF ANY SECTION OF CONDUIT EXCEEDS THE DEFLECTION OF FIVE PERCENT, THE NANDREL SHALL BE EIGHT INCHES FOR EIGHT INCH PIPE, THE MENDES FOR THEN AND TWELVE INCH PIPE. IF ANY SECTION OF CONDUIT EXCEEDS THE DEFLECTION OF FIVE PERCENT, THE NERSFOR THE NAND SHALL BE MADE. CONDUIT WHICH HAS DEFLECTED MORE THAN FIVE PERCENT MUST BE CONTRACTOR. THE PIPE SHALL BE MEASURED IN COMPLIANCE WITH ASTIM D2122. THE LEAKAGE, EXFLITION, OR INFLITIATION SHALL NOT EXCEED
- B. THE LEAKAGE, EXFILTRATION, OR INFILTRATION SHALL NOT EXCEED 100 GALLONS PER INCH OF PIPE DIAMETER PER MILE PER DAY.
- THE SANITARY SEVER MAIN AND ITS LATERALS SHALL BE PVC ASTM D3034, WITH GASKETED JOINTS MEETING ASTM D3212 SDR-35, UNLESS DEPTH OF COVER IS 15 FEET OR GREATER THEN USE ASTM D3034 SDR-28,
- SANITARY MANHOLES SHALL BE PRECAST CONCRETE MEETING THE STANDARDS OF THE CITY OF NORTH ROGEVILLE. THE MANHOLE SHALL BE FULLY INSPECTED ARQUND ITS EXTERIOR BEFORE BACKFILLING. ANY SUSPECTED WEAK SPOTS, CRACKS, ETC. THAT MAY CAUSE A LEAK IN THE FUTURE SHALL BE PATCHED, SEALED, ETC. WITH WATERPRODFING MATERIALS. PARTICULAR ATTENTION SHALL BE PAID TO THE BARREL. JOINTS, STEP LOCATIONS, LIFTING HOLES, AND THE JOINT BETWEEN THE GRADE RINGS AND THE CASTING. ALL MANHOLES SHALL BE VACUUM TESTED PER ASTM-C1244.
- CRADE RINGS SHALL BE USED TO BRING ALL CASTING TO GRADE, MAXIMUM 11 INCHES. IF THE CASTING IS DISTURBED AFTER IT IS INSTALLED IT SHALL BE COMPLETELY REMOVED, CLEANED, AND THEN REINSTALLED.
- THE CONTRACTOR SHALL WARK ALL LATERAL LOCATIONS IN THE FIELD WITH A CONTINUOUS 4" X 4" WOODEN STAKE FROM INVERT TO 2"-6" ABOVE GRADE, PAINTED ORANGE OR RED.
- "LOW-PRESSURE" AIR TESTING FOR PLASTIC PIPE SHALL BE PER ASTM-F1417. ALL MAINLINE SANITARY SEWER SHALL BE VIDEO TAPED PER CITY
- 10. HORIZONTAL AND VERTICAL SEPARATION BETWEEN WATERLINE, STORM SEWERS, AND SANITARY SEWERS SHALL BE MAINTAINED AS FOLLOWS: A. A MINIMUM 10-FOOT HORIZONTAL SEPARATION (MEASURED
  - OUT-TO-OUT CLEAR) BETWEEN THE PROPOSED WATERLINE AND THE STORM SEWER WILL BE MAINTAINED.
  - B. A MINIMUM 10-FOOT HORIZONTAL SEPARATION (MEASURED OUT--TO--OUT CLEAR) BETWEEN THE PROPOSED WATERLINE AND THE SANITARY SEVER WILL BE MAINTAINED.
  - C. A MINIMUM 18-INCH VERTICAL CLEARANCE (MEASURED OUT-TO-OUT CLEAR) BETWEEN THE PROPOSED WATERLINE AND THE SANITARY SEWER WILL BE MAINTAINED.
  - D. A MINIMUM 18-INCH VERTICAL CLEARANCE (MEASURED OUT-TO-OUT CLEAR) BETWEEN THE PROPOSED WATERLINE AND THE STORM SEVER WILL BE MAINTAINED.

11. THE CONTRACTOR WILL COLOR FILM BOTH SANITARY AND STORM SEVERS TO VERIFY THAT THEY ARE FREE OF DEFECTS AND FOREIGN MATTER AND THAT THEY ARE TO THE PROPER ALIGNMENT PRIOR TO FORMAL ACCEPTANCE BY THE CITY OF NORTH RIDGEVILLE. THE INSPECTION AND TESTING SHALL BE DONE BY AN EXPERIENCED AND CENTRIED FIRM. ENCACED IN THIS TYPE OF WORK, AS APPROVED BY THE CITY. WRITTEN REPORTS FOR ALL INSPECTION AND TESTING SHALL BE SUBMITTED TO THE OWNER AND THE CITY FOR APPROVAL. ALL SEVERS WILL BE FILUSHED AND HAVE X. VCR TELEVISED INSPECTION IN ACCORDANCE WITH THE CITY OF NORTH RIDGEVILLE SPECIFICATIONS AFTER THE COMPLETION OF THE PAYEMENT CONSTRUCTION AND SEEDING OF THE DISTURBED AREAS, BUT PRIOR TO THE ISSUANCE OF BUILDING PERMITS. IF THE INSTALLATION FAILS TO MEET THE REQUIREMENTS OF THE TESTS AND RISPECTION, THE CONTRACTOR SHALL REPAR OR REPLACE ALL DEFECTS AND RETEST AND REFER THE CONTRACTOR SHALL REPAR OR REPLACE ALL DEFECTS AND RETEST AND REFERING HE DESTORED AREAS, BEFORE THE STORM AND SANITARY SEWERS ARE TELEVISED.

WATER SYSTEM

- 1. THE WATER SYSTEM SHALL BE CONSTRUCTED PER THE CITY OF NORTH RIDGEVILLE STANDARDS & REGULATIONS. THE WATERLINE SHALL BE PVC MEETING THE REQUIREMENTS OF AWWA C900, OR C909, CLASS 150 PIPE CONFORMING TO DRIB OR DUCTLE IRON PIPE CLASS 52, CEMENT LINED MEETING THE REQUIREMENTS OF ANSI A21.51 AND AWWA C-151.
- A MINIMUM OF 35 PSI SHALL BE MAINTAINED TO THE CURB STOP DURING NORMAL OPERATING CONDITIONS. BOOSTER PUMPS ARE NOT PERMITTED ON SERVICE CONNECTIONS.
- 4. ALL FITTINGS FOR THE WATER MAIN SHALL BE RESTRAINED JOINT TYPE (MEGA-LUG) AND SHALL BE DUCTILE IRON MEETING AWWA C-153.
- . ALL BENDS OR TEES ON THE MAIN SHALL BE RESTRAINED JOINT TYPE (NEGA-LUG) AND BLOCKED WITH WOOD.
- ALL DUCTLE IRON PIPE, CAST IRON FITTINGS AND HYDRANTS SHALL BE POLYWRAPPED ACCORDING TO AWWA C-105. RESTRAIN TWO PIPE JOINTS EITHER SIDE OF TEE OR ELBOW IN ADDITION TO THRUST RESTRAINT.
- ALL FITTINGS SHALL BE GIVEN A CEMENT MORTAR LINING AT THE POINT OF MANUFACTURE. THE LINING SHALL CONFORM TO ANSI A21.4, AWWA C-104 AND ALL SUBSEQUENT AMENDMENTS. ALL FITTINGS SHALL BE DESIGNED FOR A WORKING PRESSURE OF NOT LESS THAN 150 PSI.
- ALL VALVES AND HYDRANT FITTINGS MUST HAVE STAINLESS STEEL NUTS AND BOLTS. T-BOLTS AND NUTS FOR ALL MECHANICAL JOINTS MUST HAVE A BITUMASTIC COATING.
- 10. ALL PIPE SHALL BE GIVEN A CEMENT MORTAR LINING AT THE POINT OF MANUFACTURE, THE MORTAR UNING SHALL NOT BE LESS THAN 1/16 INCH IN THICKNESS AND CONFORM TO ANSI A21.4, AWWA C-104 AND ALL SUBSEQUENT AMENDMENTS.
- 11. ALL JOINTS SHALL BE MECHANICAL OR PUSH-ON TYPE. MECHANICAL JOINTS SHALL MEET THE REQUIREMENTS OF ANSI A21.11, AWA C-111 AND ALL SUBSEQUENT AMENDMENTS, PUSH-ON JOINTS SHALL BE MADE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE PIPE MANUFACTURER. 12. ALL HYDRANTS SHALL HAVE MECHANICAL TYPE JOINTS.
- 13. WHENEVER CHANGES IN LINE AND GRADE OF THE MAIN AS SHOWN ON THE DRAWINGS ARE NOT STANDARD FITTING DEFLECTIONS, THE CONTRACTOR WILL BE PERMITTED TO USE AN APPROVED COMBINATION OF STANDARD FITTINGS AND SMALL DEFLECTION OF THREE DEGREES PER JOINT IN THE ADJOINING LENGTHS OF PIPE (NOT TO EXCEED THE MANUFACTURER'S SPECIFICATIONS).
- CLOSURE PIECES SHALL BE ACCURATELY MEASURED AND CUT, IN THE FIELD, AND INSTALLED USING SOUD TYPE LONG PATTERN SLEEVES AS SHOWN OR AS REQUIRED.

## **CITY OF NORTH RIDGEVILLE** STANDARD GENERAL NOTES

- GATE VALVES VALVES SHALL CONFORM IN ALL RESPECTS WITH AWWA C-500 OF AND WITH THE CITY OF NORTH RIDGEVILLE ENGINEERING DEPARTMI SPECIFICATIONS.
- ALL GATE VALVES THREE INCH AND LARGER SHALL HAVE A NON-STEM, SHALL OPEN BY TURNING TO THE RIGHT, AND SHALL BE OF BY A TWO-INCH SQUARE OPERATING NUT, NUTS SHALL HAVE AN AND THE WORD "OPEN" CAST THEREON TO INDICATE THE DIRECTIO TURNING TO OPEN THE VALVE.
- ALL GATE VALVES THREE-INCH TO 16 INCH IN SIZE SHALL BE ALL GATE VALVES THREE-INCH TO TO INCH IN SIZE SHALL BE OF WEOGE SEATED TYPE. THE VALVES SHALL HAVE RUBBER "O" RING SEALS AND MECHANICAL JOINT ENDS UNLESS OTHERWISE SPECIFIE APPROVED BY THE CITY ENGINEER, IF THE TOP OF THE OPERATION. MORE THAN 36 INCHES BELOW FINISHED GRADE, AN EXTENSION ST BE PROVIDED TO PLACE THE OPERATING WRENCH NUT BETWEEN 2 INCHES BELOW THE SURFACE.
- 4. ALL 20 AND 24 INCH GATE VALVES SHALL BE PROVIDED WITH A BYPASS VALVE AND (ALL 30 INCH TO 48 INCH VALVES INCLUSIVE PROVIDED WITH A SIX INCH BYPASS VALVE LOCATED BELOW THE THE VALVES.
- ALL GATE VALVES 18 INCH AND UNDER SHALL BE CONSTRUCTED VERTICALLY, GATE VALVES 20 INCH AND LARGER IN SIZE SHALL F CONSTRUCTED TO WORK HORIZONTALLY. 6. ALL NUTS AND BOLTS SHALL BE STAINLESS STEEL
- BUTTERFLY VALVES
- IN LIEU OF GATE VALVES, BUTTERFLY VALVES MAY BE USED ON 1: AND LARGER MAINS. ALL BUTTERFLY VALVES SHALL BE OF RUBBER-SEATED TIGHT-CLOS TYPE. THEY SHALL MEET OR EXCEED PERFORMANCE REQUIREMENTS WATER APPLICATIONS OF APPLICABLE RECOGNIZED STANDARDS SUC AWWA C-SO4: ALL VALVES SHALL BE MUELLER BUTTERFLY VALVES APPROVED EQUAL.
- BOTH VALVE ENDS SHALL BE MECHANICAL JOINT PER AWWA C-11 ACCESSORIES (BOLTS, GLANDS AND BASKETS) SHALL BE SUPPLIED VALVE MANUFACTURER.
- ALL VALVES MUST USE FULL AWWA C-504, CLASS 150B VALVE SH. DIAMETER AND FULL CLASS 150B UNDERGROUND-SERVICE-OPERATO TOROUG RATING THROUGHOUT ENTIRE TRAVEL, TO PROVIDE CAPABIL OPERATION IN EMERGENCY SERVICE.
- VALVE BODY SHALL BE HIGH-STRENGTH CAST IRON ASTM A126, CL WITH 18-8 TYPE 304 STAINLESS STEEL BODY SEAT, VALVE VANE S HIGH STRENGTH CAST IRON ASTM A48 CLASS 40, HAVING RUBBER MECHANICALLY SECURED WITH AN INTEGRAL 18-8 STAINLESS STEEL RING AND 18-8 STAINLESS STEEL SELF-LOCKING SCREWS.
- RUBBER SEAT SHALL BE A FULL-CIRCLE 360 DREGEE SEAT NOT PENEIRATED BY THE VALVE SHAFT, VALVE SHAFT SHALL BE ONE EXTENDING FULL SIZE THROUGH THE ENTIRE SHAFT AND OPERATO NECK-DOWN, KEYWAYS OR HOLES TO WEAKEN IT. FOR 14 INCH AV LARGER, VALVE SHAFTS SHALL BE 18-8 STAINLESS STEEL TAPER PINS. DESIGN KEYED TO THE VANE WITH STAINLESS STEEL TAPER PINS.
- VALVE OPERATOR SHALL BE OF THE TRAVELING-NUT TYPE, SEALED, CASKETED, AND LUBRICATED FOR UNDERGROUND SERVICE. IT SHALL CAPABLE OF WITHSTANDING AN OVERLOAD INPUT TORQUE OF 450 F AT FULL-OPEN OR CLOSED POSITION WITHOUT DAMAGE TO THE VALU VALVE OPERATOR. IT SHALL BE DESIGNED TO RESIST SUBBREGAVE WATER TO 25 FEET HEAD PRESSURE FOR UP TD 72 HOURS.
- THE VALVE SHALL BE CAPABLE OF EASY CLOSURE BY ONE MAN U STANDARD VALVE KEY, EVEN UNDER ENERGENCY LINE-BREAK CON AS SEVERE AS THOSE THAT WOULD CAUSE A VALVE MAXIMUM OP TORQUE REQUIREMENT OF AS MUCH AS TWO TIMES AWWA CLASS ALL VALVES SHALL BE TESTED, BUBBLE-TIGHT AIR-UNDER-WATER, MANUFACTURER AS FOLLOWS;
- 4" THROUGH 12" 175 PSI 14" AND UP 150 PSI IN ADDITION A 300 PSI HYDROSTATIC TEST SHALL BE GIVEN TO TH ASSEMBLED VALVE. THIS 300 PSI PRESSURE SHALL ALSO BE APPLI AGAINST THE FULLY CLOSED VANE OF EACH VALVE TO PROVE STRU SOUNDNESS AND ASSURE COMPATIBILITY WITH FIELD LINE TEST PROCEDURES.

## **BASIS OF BEARINGS**

BASIS OF BEARING IS ASSUMED AND IS USED TO DESCRIBE ANGLES ONLY. A PORTION OF THE WESTERLY VERT LINE OF RIDGEFIELD HOMES INC. SUBDIVISION No. 2 AS HERE RECORDED IN PLAT VOLUME 57, PAGE 70 OF THE LORAIN COUNTY PLAT RECORDS AND IS ASSUMED TO BE NORTH 01° 38' 05" EAST AS SHOWN HEREON.

THIS SURVEY IS BASED UPON A FIELD SURVEY PERFORMED BY RAFTER A., LTD IN APRIL OF 2023.

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