

**RESOLUTION 2023-106**

**RESOLUTION OF THE VILLAGE OF CALEDONIA ACCEPTING THE MASTER GRADING AND DRAINAGE PLAN FOR CRAWFORD PARK EXPANSION**

The Village Board of the Village of Caledonia, Racine County, Wisconsin, resolves as follows:

RECITALS

1. The Village of Caledonia (the "Village") acquired consulting engineering services via RFP with Clark Dietz (the "Consultant") to provide a Master Grading and Drainage Plan (the "Project") for the expansion to Crawford Park per the approved Crawford Park Master Plan.
2. The work for the Project has been substantially completed by the Consultant and has been reviewed for compliance and conformance to the RFP and is recommended by the Village's Public Services Director & Village Engineer that the plans for the Project be accepted by the Village Board subject to the following conditions:
  - a. Village Board acceptance and approval.
  - b. Minor corrections and revisions per the Village Engineer and Public Services Director are made.
  - c. Full submittal requirements are provided as described in the original RFP.

**NOW THEREFORE BE IT RESOLVED THAT**, the Crawford Park Master Grading and Drainage Plan be hereby accepted by the Village Board subject to the conditions recommended by the Village's Public Services Director and Village Engineer as set forth above.

Adopted by the Village Board of the Village of Caledonia this 26 day of September 2023.

**VILLAGE OF CALEDONIA**


By: Thomas R Weatherston  
Thomas Weatherston, President

Attest: Joslyn Hoeffert  
Joslyn Hoeffert, Clerk

# MEMORANDUM

Date: September 7, 2023

To: Parks and Recreation Committee

From: Ryan Schmidt, P.E.  
Village Engineer 

Re: **Crawford Park Master Grading and Drainage Plans**

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## BACKGROUND INFORMATION

Clark Dietz was retained by the Village early in 2023 to complete the Master Grading and Drainage Plans for the full build out of Crawford Park. This has been one of the first steps following the approval of the Crawford Park Master Plan that was approved in Fall of 2022. These plans have been shown to the committee at numerous meetings as the progress and information has been updated.

The plans include multiple storm water management ponds, proposed elevations for the grading of the site, elevations of the path and parking lot, and elevations of the proposed amenities. The project plans include overview sheets, detailed drawing sheets, a cost estimate for the main portions of the project, a storm water management plan, and a recommended phase build out for the grading and drainage.

Staff has reviewed the plans and recommend conditional approval of the plans pending further Staff review and commentary. Staff recommends that the Village budget the necessary funding to begin a portion of this project as soon as possible to continue the park expansion. The Utility Commission has reviewed and conditionally approved the Storm Water Management Plan on September 6<sup>th</sup>, 2023.

## RECOMMENDATION

**Move to recommend conditional approval of the Crawford Park Master Grading and Drainage Plan subject to any minor revisions by the Village Engineer and Director of Public Services.**

Conceptual Grading Estimate and Construction Phases



Engineering Quality of Life

Village of Caledonia - Crawford Park

Date: 08/28/2023

STEP 1	Stormwater & Grading Bid Items		Unit	Unit Price	Estimate Quantity	Total Cost
		Pond Excavation (North Pond) and Grading	CY	\$ 15.00	1,500	\$ 22,500.00
	Pond Excavation (South Pond 1) and Grading	CY	\$ 15.00	9,500	\$ 142,500.00	
	Pond Excavation (South Pond 2) and Grading	CY	\$ 15.00	4,500	\$ 67,500.00	
	Topsoil Strip and Stockpile (1/2-12 acres)**	CY	\$ 7.50	20,000	\$ 150,000.00	
	Storm Sewer (12-inch Diameter, RCP)	LF	\$ 110.00	150	\$ 16,500.00	
	Storm Sewer (12-inch Diameter, CMP)	LF	\$ 90.00	20	\$ 1,800.00	
	Storm Sewer (18-inch Diameter, HDPE)	LF	\$ 90.00	610	\$ 54,900.00	
	Storm Sewer (18-inch Diameter, RCP)*	LF	\$ 125.00	185	\$ 23,125.00	
	Flared End Section, 12" RCP	EA	\$ 1,000.00	2	\$ 2,000.00	
	Flared End Section, 12" CMP	EA	\$ 400.00	2	\$ 800.00	
	Flared End Section, 18" RCP*	EA	\$ 2,000.00	3	\$ 6,000.00	
	24" Inlet, Neenah F&G	EA	\$ 4,000.00	1	\$ 4,000.00	
	48" Manhole, Neenah F&G	EA	\$ 6,500.00	2	\$ 13,000.00	
	North Pond OCS	EA	\$ 8,000.00	1	\$ 8,000.00	
	South Pond OCS	EA	\$ 8,000.00	1	\$ 8,000.00	
	Restoration, Seeding & Mulch (Entire Existing Farm Field)	AC	\$ 4,000.00	16	\$ 64,000.00	
	Erosion Control	LS	\$ 25,000.00	1	\$ 25,000.00	
				Construction Cost	\$ 609,630.00	
				<b>Total Construction Cost w/</b>	<b>\$ 609,630.00</b>	

\*18" Storm Sewer Items can be replaced with ditching items during interim conditions  
 \*\*12" of topsoil is assumed. 8"-12" was found in the boring logs for the Public Safety Building.

STEP 2	Swale & Ditching Bid Items		Unit	Unit Price	Estimate Quantity	Total Cost
		Remove Existing Berms, Fill Sledding Hill (Partial), and Grade	CY	\$ 15.00	2000	\$ 30,000.00
	Remove and Replace Trees	EA	\$ 1,000.00	15	\$ 15,000.00	
	Culvert (12-inch Diameter, CMP)	LF	\$ 100.00	420	\$ 42,000.00	
	Flared End Section, CMP	EA	\$ 300.00	15	\$ 4,500.00	
	Ditch Grading	LF	\$ 25.00	1250	\$ 31,250.00	
				Construction Cost	\$ 122,750.00	
				10% Contingency	\$ 12,280.00	
				<b>Total Construction Cost w/</b>	<b>\$ 135,030.00</b>	

STEP 3	Parking & Roadway Aggregate Prep Bid Items	Unit	Unit Price	124 Parking Stalls		76 Parking Stalls	
				Estimate Quantity	Total Cost	Estimate Quantity	Total Cost
	Base Aggregate (8" Under Parking/Drive)	Ton	\$ 25.00	3760	\$ 94,000.00	2970	\$ 74,250.00
				Construction Cost	\$ 94,000.00		\$ 74,250.00
				10% Contingency	\$ 9,400.00		\$ 7,430.00
				<b>Total Construction Cost w/</b>	<b>\$ 103,400.00</b>		<b>\$ 81,680.00</b>

STEP 4 (Choose Sidewalk Type)	Parking Lot Sidewalk Bid Items	Unit	Unit Price	Curb on both sides of Parking Lot with PCC Sidewalk		Curb on both sides of Parking Lot with HMA Sidewalk	
				Estimate Quantity	Total Cost	Estimate Quantity	Total Cost
	Base Aggregate (4" Under PCC Sidewalk)	Ton	\$ 25.00	570	\$ 14,250.00	0	\$ -
	5" PCC Sidewalk	SF	\$ 10.00	11500	\$ 115,000.00	0	\$ -
	Base Aggregate (6" HMA Sidewalk)	Ton	\$ 25.00	0	\$ -	860	\$ 21,500.00
	HMA Surface, 1.75"	Ton	\$ 110.00	0	\$ -	130	\$ 14,300.00
	HMA Blinder, 2.25"	Ton	\$ 100.00	0	\$ -	170	\$ 17,000.00
				Construction Cost	\$ 129,250.00		\$ 52,800.00
				10% Engineering Fee	\$ 12,930.00		\$ 5,280.00
				10% Contingency	\$ 12,930.00		\$ 5,280.00
				<b>Total Construction Cost w/</b>	<b>\$ 155,110.00</b>		<b>\$ 63,360.00</b>

STEP 4 (Choose Curb or Shoulder)	Curb and Gutter Bid Items	Unit	Unit Price	Curb on both sides of Parking Lot		Gravel Shoulder on both sides of Parking Lot	
				Estimate Quantity	Total Cost	Estimate Quantity	Total Cost
	Base Aggregate (6" under Curb)	Ton	\$ 25.00	200	\$ 5,000.00	0	\$ -
	Concrete Curb and Gutter, 18-Inch	LF	\$ 25.00	2600	\$ 65,000.00	0	\$ -
	Gravel Shoulder, 2-Foot	LF	\$ 10.00	0	\$ -	2600	\$ 26,000.00
				Construction Cost	\$ 70,000.00		\$ 26,000.00
				10% Engineering Fee	\$ 7,000.00		\$ 2,600.00
				10% Contingency	\$ 7,000.00		\$ 2,600.00
				<b>Total Construction Cost w/</b>	<b>\$ 84,000.00</b>		<b>\$ 31,200.00</b>

STEP 4	Parking/Roadway Paving Bid Items	Unit	Unit Price	124 Parking Stalls with Curb on both sides of Parking Lot		76 Parking Stalls with Curb on both sides of Parking Lot	
				Estimate Quantity	Total Cost	Estimate Quantity	Total Cost
	HMA Surface, 1.75"	Ton	\$ 100.00	850	\$ 85,000.00	680	\$ 68,000.00
	HMA Blinder, 2.25"	Ton	\$ 90.00	1100	\$ 99,000.00	870	\$ 78,300.00
	Pavement Markings, 4"	LF	\$ 4.00	2480	\$ 9,920.00	1520	\$ 6,080.00
	Pavement Markings, 6"	LF	\$ 5.00	250	\$ 1,250.00	250	\$ 1,250.00
	Pavement Markings, 24"	LF	\$ 10.00	12	\$ 120.00	12	\$ 120.00
				Construction Cost	\$ 195,290.00		\$ 153,750.00
				10% Engineering Fee	\$ 19,530.00		\$ 15,380.00
				10% Contingency	\$ 19,530.00		\$ 15,380.00
				<b>Total Construction Cost w/</b>	<b>\$ 234,350.00</b>		<b>\$ 184,510.00</b>

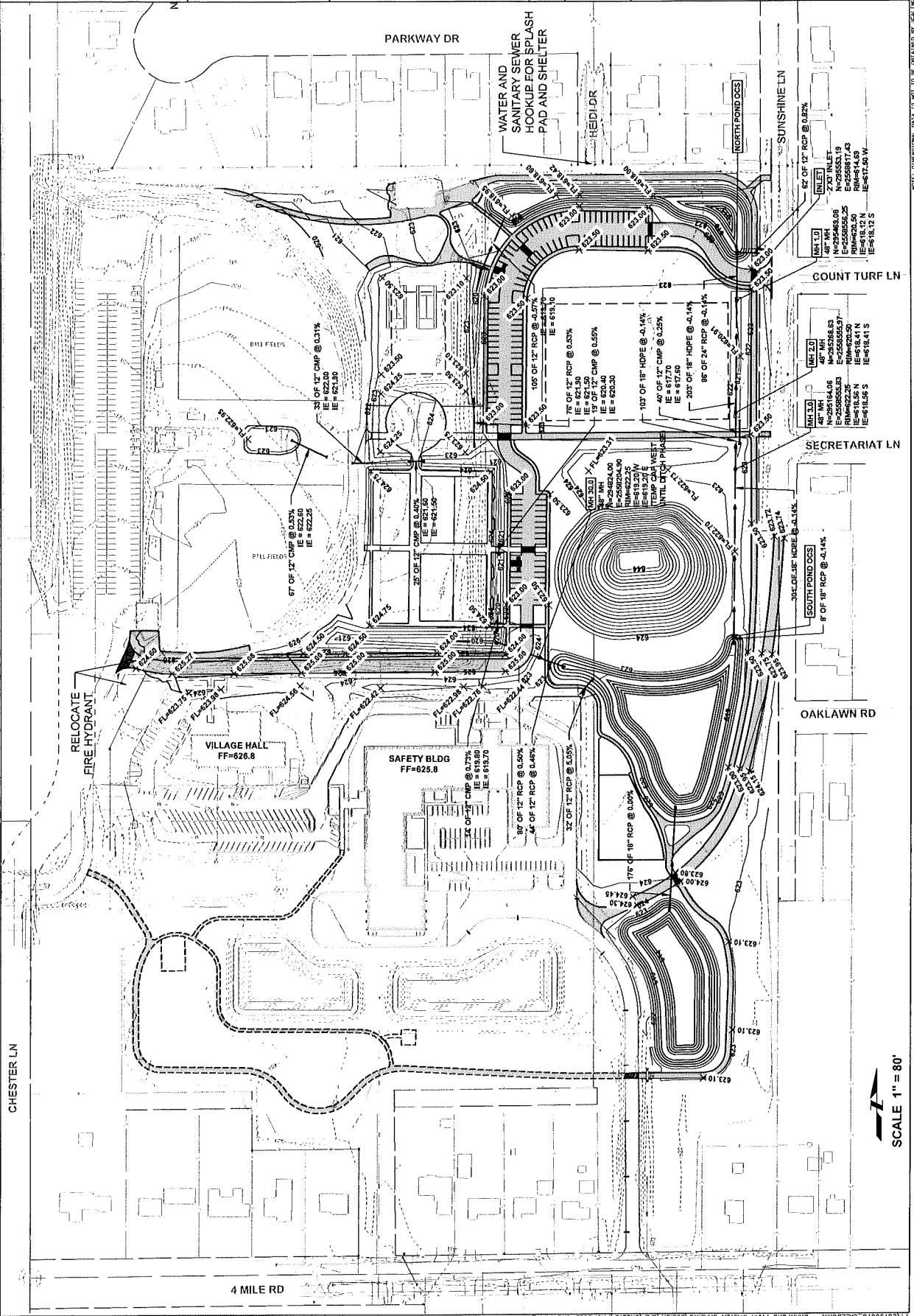
STEP 5	Sledding Hill Bid Items		Unit	Unit Price	Estimate Quantity	Total Cost
		Restoration, Seeding & Mulch	AC	\$ 4,000.00	2	\$ 8,000.00
	Grading Hill (Off-Site Material Needed)***	CY	\$ 25.00	17500	\$ 437,500.00	
				Construction Cost	\$ 445,500.00	
				10% Engineering Fee	\$ 44,550.00	
				10% Contingency	\$ 44,550.00	
				<b>Total Construction Cost w/</b>	<b>\$ 534,600.00</b>	

\*\*\* Does not account for some additional on-site topsoil currently at the site



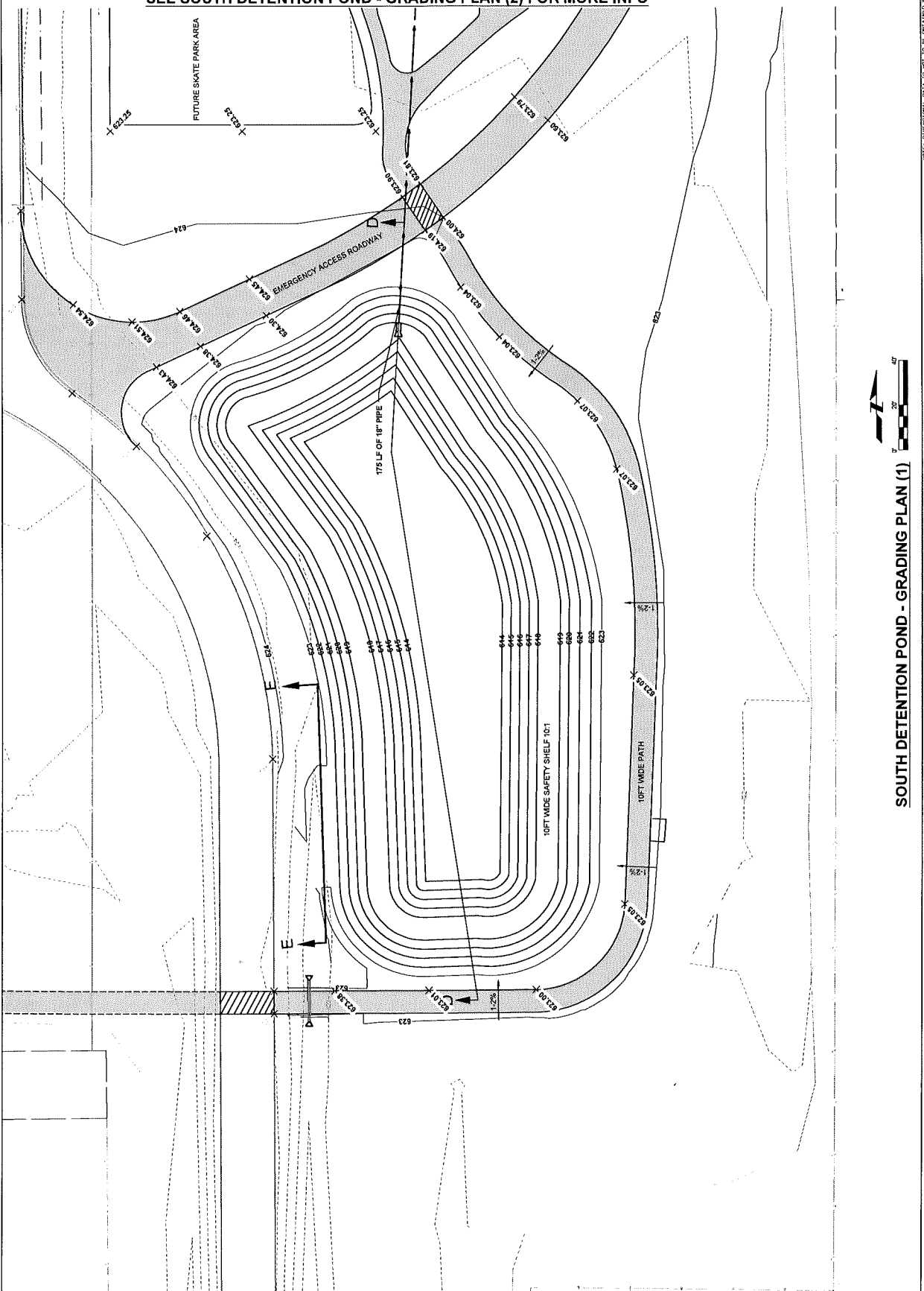






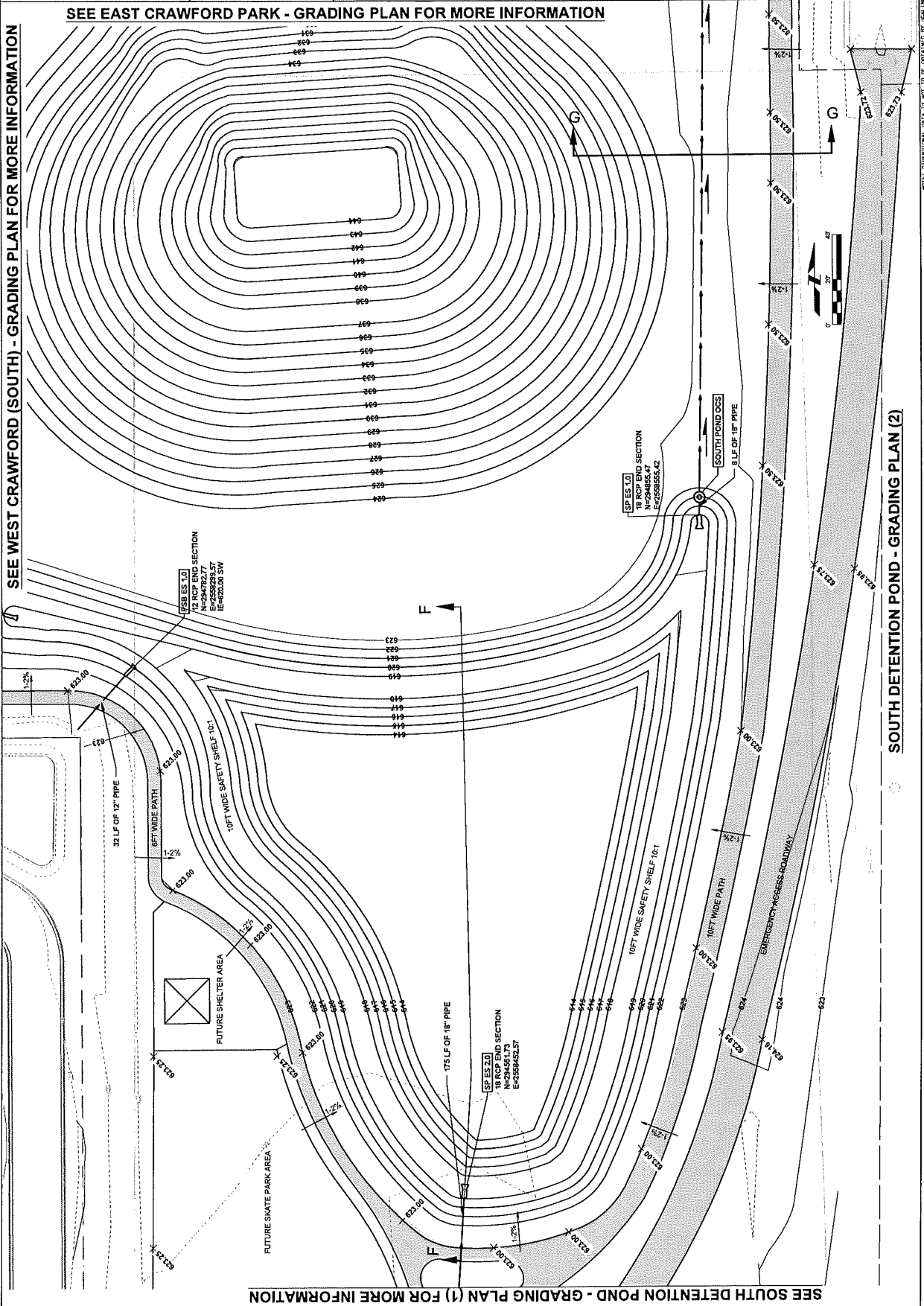






SEE SOUTH DETENTION POND - GRADING PLAN (2) FOR MORE INFO

<p>CLARKDJETZ 625 57TH STREET 5TH FLOOR KENOSHA, WI 53140 PHONE 1 262.697.1350 WWW.CLARKDJETZ.COM</p>	<p>PROJECT TITLE VILLAGE OF CALEDONIA</p>	<p>DESIGNED BY: CJL DRAWN BY: CJL DATE SUBMITTED:</p>	<p>PROJECT No. C0790070</p>
	<p>CLIENT CRAWFORD PARK MASTER GRADING RACINE COUNTY, WISCONSIN</p>	<p>DATE: / / REVISION:</p>	<p>DRAWING No. 6</p>



SEE WEST CRAWFORD (SOUTH) - GRADING PLAN FOR MORE INFORMATION

SEE SOUTH DETENTION POND - GRADING PLAN (1) FOR MORE INFORMATION

SEE EAST CRAWFORD PARK - GRADING PLAN FOR MORE INFORMATION


<p>PROJECT TITLE VILLAGE OF CALEDONIA CRAWFORD PARK MASTER GRADING RACINE COUNTY, WISCONSIN</p>	<p>DESIGNED BY: GILL DRAWN BY: [blank] DATE: [blank]</p> <p>DATE: [blank] REVISION: [blank]</p> <p>DATE: [blank] REVISION: [blank]</p> <p>DATE: [blank] REVISION: [blank]</p>	<p>PROJECT NO. C0790070</p> <p>SHEET NO. 7</p>	<p>PROJECT TITLE SOUTH POND GRADING PLAN 2</p>
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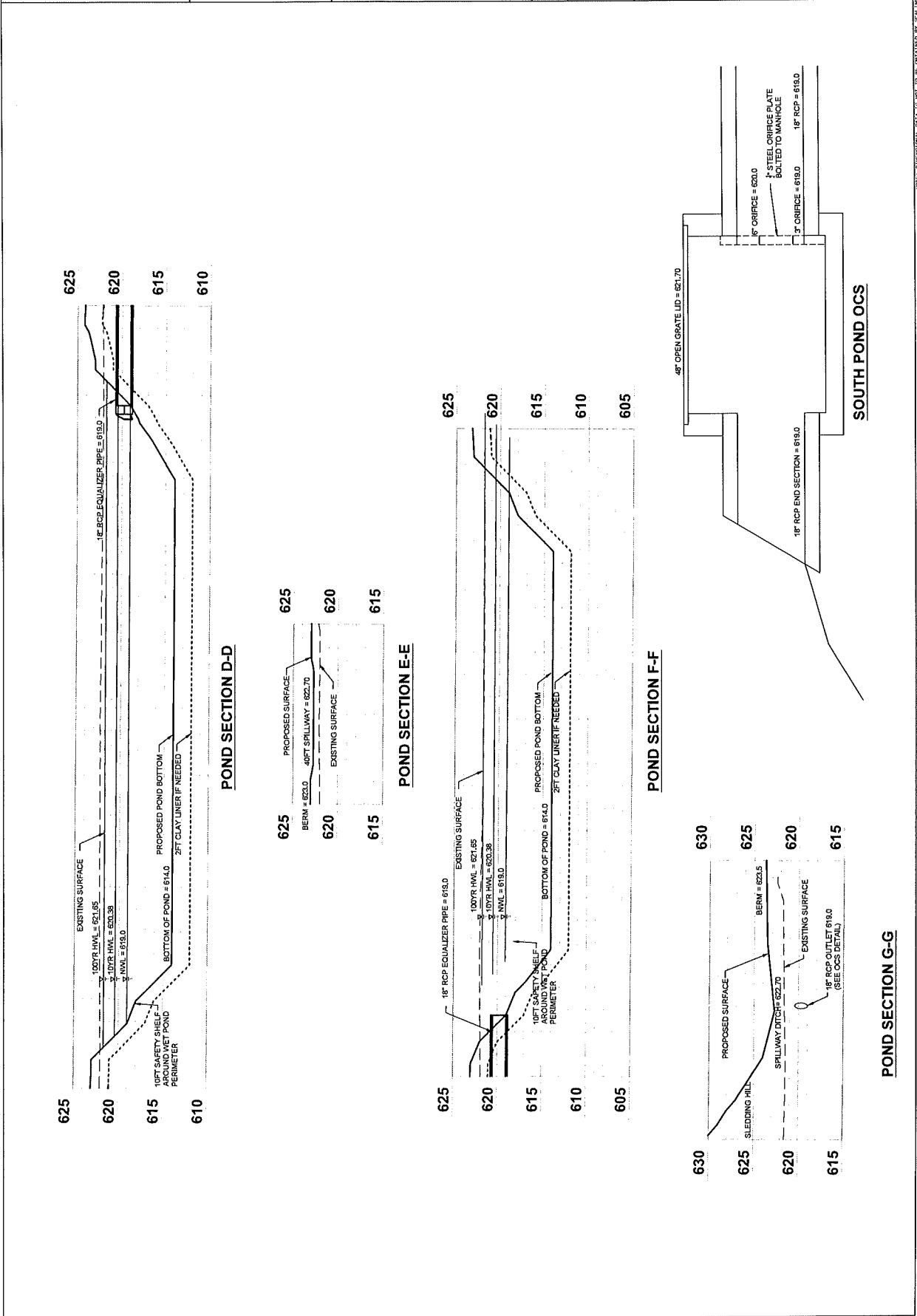


625 87TH STREET  
MILWAUKEE, WI 53140  
PHONE: 1.224.627.1550  
WWW.CLARKDRIETZ.COM

NOTE: DIMENSIONAL DATA IS NOT TO BE OBTAINED BY SCALING ANY PORTION OF THIS DRAWING.

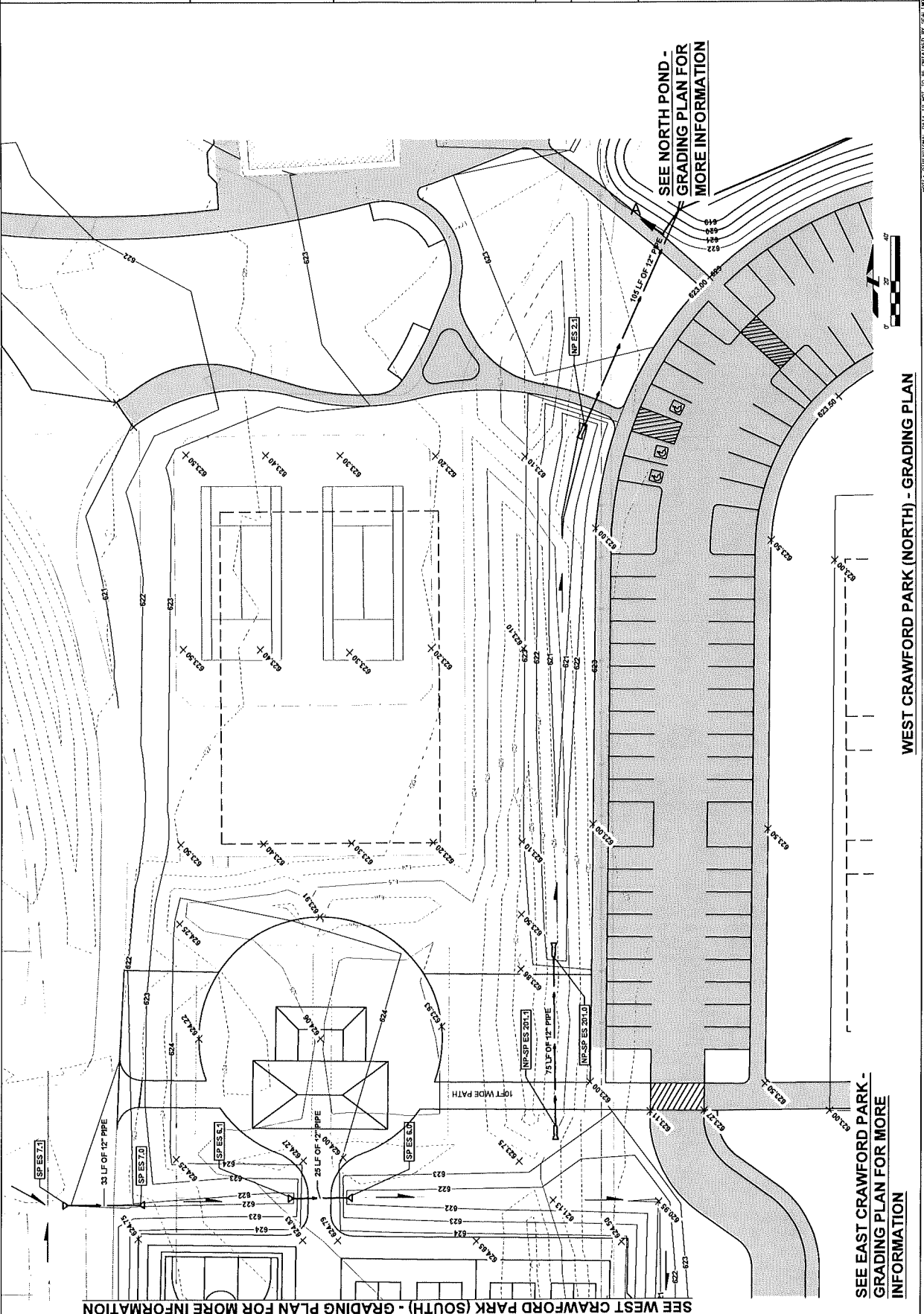
SHEET 7 OF 15 SHEETS

	PROJECT TITLE <b>VILLAGE OF CALEDONIA</b> <b>CRAWFORD PARK MASTER GRADING</b> RACINE COUNTY, WISCONSIN	DRAWN BY: GLL CHECKED BY: DATE: 9/11/2023	PROJECT NO. <b>C0790070</b> DRAWING NO. <b>8</b>
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DIMS 8 OF 15 DIMS  
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**Clarkdjetz**  
 625 57TH STREET  
 MINNEAPOLIS, MN 55410  
 PHONE: 202.627.1350 www.clarkdjetz.com

PROJECT TITLE  
**VILLAGE OF CALEDONIA**  
**CRAWFORD PARK MASTER GRADING**  
 RACINE COUNTY, WISCONSIN

DESIGNED BY: JLB  
 DRAWN BY: JLB  
 DATE: 9/11/2023  
 4:10:00 PM 2023  
 2:17:22 AM 2023

WEST CRAWFORD (NORTH)  
 WEST CRAWFORD (NORTH)  
 C0790070  
 DRAWING NO. 10

DATE: \_\_\_\_\_  
 REVISION: \_\_\_\_\_  
 DRAWING TITLE: \_\_\_\_\_  
 PROJECT NO.: \_\_\_\_\_  
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 SHEET NO.: \_\_\_\_\_  
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 SCALE: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 REVISION: \_\_\_\_\_

SEE WEST CRAWFORD PARK (SOUTH) - GRADING PLAN FOR MORE INFORMATION

SEE NORTH POND - GRADING PLAN FOR MORE INFORMATION

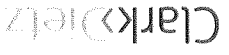
SEE EAST CRAWFORD PARK - GRADING PLAN FOR MORE INFORMATION

WEST CRAWFORD PARK (NORTH) - GRADING PLAN

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 DWG. TO: 05 - S. DWG.





 <p>625 57TH STREET KENOSHA, WI 53140 PHONE 1 202.527.1555 www.clarkdietz.com</p>	<p>PROJECT TITLE VILLAGE OF CALEDONIA</p>	<p>DESIGNED BY: CJL CHECKED BY: DATE: 09/08/23</p>	<p>PROJECT NO. C0790070</p>
	<p>PROJECT TITLE GRANTFORD PARK MASTER GRADING RACINE COUNTY, WISCONSIN</p>	<p>DATE: 09/08/23 SHEET NO.: 13 SHEET TITLE: EROSION CONTROL PLAN</p>	<p>DRAWING NO. 13</p>

