

Public Works Committee Meeting
Tuesday, December 20, 2022 5:00 PM
Crete City Hall
243 E 13th Street
Crete, NE 68333

1. Open Meeting

- In accordance with Nebraska law, a copy of the Open Meetings Act can be found in the back of the Council Chambers.
- Items listed on the agenda may be considered in any order.

2. Roll Call

- Attendance of members will be recorded to determine the presence of a quorum for official actions.

3. Items of Business

- The Committee may discuss or limit discussion on, hear testimony in favor of or in opposition to, or take action to provide a recommendation to the City Council on any matter presented under this title.
- 3.A. Provide a recommendation to the City Council on approving Amendment No. 1 to the Owner-Engineer Agreement for the 2021 Street Improvement project.
- 3.B. Provide a recommendation to the City Council on approving Change Order No. 2 to Bauer Underground in the amount of -\$6,670 for the 2021 Street Improvement project.
- 3.C. Provide a recommendation to the City Council on a quote from Brandt Excavating to remove debris and fill hole to finish nuisance abatement at 2340 Forest Avenue at a cost of \$13,550.
- 3.D. Provide a recommendation to the City Council on Ordinance 2160: An ordinance to amend the electric rates beginning March 1, 2023.
- 3.E. Provide a recommendation to the City Council on the plans for 2022 Street Improvement Projects (Gap Paving) and set a date to open bids.
- 3.F. Provide a recommendation to the City Council on annexations on the east side of Crete.

4. Officers' Reports

- Reports may be given by the Mayor, Officers, Departments, or Councilmembers concerning the current operations of the City.
- No action can be taken on matters presented under this title except to answer any questions or to refer the matter for further action.

5. Adjournment

Disclaimers & Notices

- The Council may enter into closed session to discuss any matter on this agenda when it is determined that a closed session is clearly necessary for the protection of the public interest or the prevention of needless injury to the reputation of an individual (if such individual has not requested a public meeting) or as otherwise allowed by law. Any closed session shall be limited to the subject matter for which the closed session was called. If the motion to close passes, then immediately prior to the closed session the Mayor shall restate on the record the limitation of the subject matter of the closed session.
- The City of Crete assures that no person shall on the grounds of race, color, national origin, age, disability, handicap or sex, be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity of the City receiving Federal financial assistance. To report discrimination, contact the City Clerk's office.

- The complete agenda with attachments is available at www.crete.ne.gov.



**AMENDMENT TO OWNER-ENGINEER AGREEMENT
Amendment No. 1**

The Effective Date of this Amendment is:

ARTICLE 1 – BACKGROUND DATA

Effective Date of Owner-Engineer Agreement: **09/15/2020**
Owner: **Crete, NE**
Engineer: **JEO Consulting Group, Inc.**
Project: **Crete 2021 Street Improvements (200586.00)**

ARTICLE 2 – NATURE OF AMENDMENT

Additional Services to be performed by Engineer

ARTICLE 3 – DESCRIPTION OF MODIFICATIONS

Perform additional construction administrative and observation services related to the construction of the Crete 2021 Street Improvements. These additional services are related to additional time and trips required by the Contractor for material retesting due to failed tests. The costs shown below are being fully reimbursed by the Contractor via Change Order No. 1 and will be at no direct cost to the City.

ARTICLE 4 – AGREEMENT SUMMARY

Original agreement amount:	\$ <u>71,150.00</u>
Net change for prior amendments:	\$ <u>0.00</u>
This amendment amount:	\$ <u>4,666.70</u>
Adjusted Agreement amount:	\$ <u>75,816.70</u>

The foregoing Agreement Summary is for reference only and does not alter the terms of the Agreement, including those set forth in Exhibit B.

Owner and Engineer hereby agree to modify the above-referenced Agreement as set forth in this Amendment. All provisions of the Agreement not modified by this or previous Amendments remain in effect.

OWNER:

By: _____
Print name: _____

Title: _____

Date Signed: _____

ENGINEER: **JEO Consulting Group, Inc.**

By: 
Print name: Nathan Boone

Title: Sr. Project Manager

Date Signed: 12/6/2022

Date of Issuance:	August 10, 2022	Effective Date:	Upon Approval
Owner:	City of Crete, Nebraska	Owner's Contract No.:	
Contractor:	Bauer Underground, Inc.	Contractor's Project No.:	
Engineer:	JEO Consulting Group, Inc.	Engineer's Project No.:	200586.00
Project:	2021 Street Improvements	Contract Name:	2021 Street Improvements

The Contract is modified as follows upon execution of this Change Order:

Description: **Final Change order to balance out quantities**Attachments: *[List documents supporting change]*

CHANGE IN CONTRACT PRICE	CHANGE IN CONTRACT TIMES <i>[note changes in Milestones if applicable]</i>
Original Contract Price: \$ <u>875,039.00</u>	Original Contract Times: Substantial Completion: <u>Milestone 1, 30 calendar days</u> <u>Milestone 2, 45 calendar days</u> <u>Milestone 3, 60 calendar days</u> Ready for Final Payment: <u>October 31, 2021</u> days or dates
{Increase} [Decrease] from previously approved Change Orders No. <u>-</u> to No. <u>1</u> : \$ <u>(4,666.70)</u>	[Increase] [Decrease] from previously approved Change Orders No. <u>-</u> to No. <u>-</u> : Substantial Completion: _____ Ready for Final Payment: <u>October 31, 2021</u> days
Contract Price prior to this Change Order: \$ <u>870,372.30</u>	Contract Times prior to this Change Order: Substantial Completion: <u>Milestone 1, 30 calendar days</u> <u>Milestone 2, 45 calendar days</u> <u>Milestone 3, 60 calendar days</u> Ready for Final Payment: <u>October 31, 2021</u> days or dates
[Increase] [Decrease] of this Change Order: \$ <u>(6,670.00)</u>	[Increase] {Decrease} of this Change Order: Substantial Completion: _____ Ready for Final Payment: <u>60</u> days
Contract Price incorporating this Change Order: \$ <u>863,702.30</u>	Contract Times with all approved Change Orders: Substantial Completion: <u>Milestone 1, 30 calendar days</u> <u>Milestone 2, 45 calendar days</u> <u>Milestone 3, 60 calendar days</u> Ready for Final Payment: <u>December 30, 2021</u> days or dates

RECOMMENDED:		ACCEPTED:	
By: <u>Chuck Surjan</u>	By: _____	By: <u>Mick Manti</u>	By: _____
Engineer (if required)	Owner (Authorized Signature)	Contractor (Authorized Signature)	
Title: <u>Construction Services Manager</u>	Title: _____	Title: <u>PROJECT MANAGER</u>	Title: _____
Date: <u>12/1/2022</u>	Date: _____	Date: <u>8/26/2020</u>	Date: _____



December 16, 2022

Re: 2340 Forest Ave Demo

<u>Line No.</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Amount</u>
1.	Mobilization				
2.	2340 Forest Ave Demolition, - Demolition of House - Debris Removal - Landfill Charges				
3.	Haul-in of Clay to fill Basement				
				Base Bid	\$13,550.00

Abandonment of utilities above ground and underground, handling and removal of overhead lines, and demo permits to be handled by the City of Crete. This bid excludes the removal of any pavement, sidewalks or trees. Brandt Excavating will not be responsible for damage to any concrete or pavement caused during demolition or removal of buildings.

Please call me at 402-547-0680 with any questions.

Sincerely,

Jared Pinkerton
Estimator / Project Manager

ORDINANCE NO. 2160

AN ORDINANCE OF THE CITY OF CRETE, NEBRASKA, PERTAINING TO MUNICIPAL ELECTRIC DEPARTMENT, ELECTRICAL RATES; PROVIDING FOR THE CODIFICATION AS PART OF SECTIONS 3-123 AND 3-124 OF ARTICLE 1 OF CHAPTER 3 AS IT NOW EXISTS AND PROVIDING FOR THE REPEAL OF ALL OTHER ORDINANCES AND PARTS OF ORDINANCES IN CONFLICT HEREWITH; AND PROVIDING FOR A TIME WHEN THIS ORDINANCE SHALL BE IN FULL FORCE AND EFFECT.

BE IT ORDAINED BY THE MAYOR AND COUNCIL OF THE CITY OF CRETE, NEBRASKA:

Section 1. That Sections 123 and 124, Article 1, Chapter 3 of the City Code of the City of Crete, Nebraska is hereby amended and re-codified to reflect rates as shown on Attachment 1, effective as of March 1, 2023.

Section 2. That Sections 123 and 124, Article 1, Chapter 3 of the City Code of the City of Crete as now existing and all other ordinances and parts of ordinances in conflict herewith are hereby repealed as of March 1, 2023.

Section 3. That this ordinance shall take effect and be in full force and effect from and after its passage and approval and publication in pamphlet form as provided by law.

PASSED AND APPROVED this 20th day of December, 2022.

Mayor

ATTEST:

City Clerk

ATTACHMENT 1

§3-123 Municipal Electric Department: Rates. The following monthly rate schedules shall apply to all customers of the Municipal Electric Department, according to the applicable service classification:

A. RESIDENTIAL SERVICE

1. RESIDENTIAL SERVICE R

	Effective <u>March 1, 2023</u>
Customer Charge, per month	\$19.50
PLUS:	
<u>Summer</u>	
All kWh used, per month	\$0.1087 /kWh
<u>Winter</u>	
First 650 kWh used, per month	\$0.1087 /kWh
Balance used, per month	\$0.0887 /kWh
Minimum Bill, per month	\$19.50
LOAD MANAGEMENT CREDIT (SUMMER ONLY)	
Per controlled kW or HP	\$2.50 per month

2. RESIDENTIAL SERVICE, SPACE HEATING RH

	Effective <u>March 1, 2023</u>
Customer Charge, per month	\$19.50
PLUS:	
<u>Summer</u>	
All kWh used, per month	\$0.1087 /kWh
<u>Winter</u>	
First 650 kWh used, per month	\$0.1087 /kWh
Balance used, per month	\$0.0887 /kWh
Minimum Bill, per month	\$19.50
LOAD MANAGEMENT CREDIT (SUMMER ONLY)	
Per controlled kW or HP	\$2.50 per month

B. GENERAL SERVICE

1. GENERAL SERVICE G

	Effective <u>March 1, 2023</u>
Customer Charge, per month	
Single Phase Service	\$33.00
Three Phase Service	\$57.35
PLUS:	
<u>Summer</u>	
All kWh used, per month	\$0.1146 /kWh
<u>Winter</u>	
First 1,200 kWh used, per month	\$0.1146 /kWh
Balance used, per month	\$0.0971 /kWh
 LOAD MANAGEMENT CREDIT (SUMMER ONLY)	
Per controlled kW or HP	\$2.50 per month

2. GENERAL SERVICE, SPACE HEATING GH

	Effective <u>March 1, 2023</u>
Customer Charge, per month	
Single Phase Service	\$33.00
Three Phase Service	\$57.35
PLUS:	
<u>Summer</u>	
All kWh used, per month	\$0.1146 /kWh
<u>Winter</u>	
First 1,200 kWh used, per month	\$0.1146 /kWh
Balance used, per month	\$0.0971 /kWh
 LOAD MANAGEMENT CREDIT (SUMMER ONLY)	
Per controlled kW or HP	\$2.50 per month

3. GENERAL SERVICE, DEMAND GD

	Effective <u>March 1, 2023</u>
Customer Charge, per month	\$85.00
PLUS:	
<u>Summer</u>	
On-peak demand charge	\$28.80 /kW
Off-peak demand charge	\$9.80 /kW
Energy charge, all kWh used, per month	\$0.0463 /kWh
<u>Winter</u>	
On-peak demand charge	\$21.00 /kW
Off-peak demand charge	\$21.00 /kW
Energy charge, all kWh used, per month	\$0.0463 /kWh

Minimum Bill

The greater of:

- a) The customer charge; or
- b) The customer charge plus the demand charge associated with 65% of the maximum recorded billing demand for the previous summer (June-September) months; or
- c) One dollar and fifty cents (\$1.50) per KVA of installed transformer capacity.

C. LARGE POWER SERVICE

1. LARGE POWER SERVICE LP1

	Effective <u>March 1, 2023</u>
Customer Charge, per month	\$225.00
PLUS:	
<u>Summer</u>	
On-peak demand charge	\$27.25 /kW
Off-peak demand charge	\$8.50 /kW
Energy charge, all kWh used, per month	\$0.0406 /kWh
<u>Winter</u>	
On-peak demand charge	\$20.95 /kW
Off-peak demand charge	\$20.95 /kW
Energy charge, all kWh used, per month	\$0.0406 /kWh

Minimum Bill

The greater of:

- a) The demand charge plus the energy charge, and the customer charge; or
- b) One dollar and fifty cents (\$1.50) per KVA of installed transformer capacity.

2. LARGE POWER SERVICE LP2

	Effective <u>March 1, 2023</u>
Customer Charge, per month	\$225.00
PLUS:	
<u>Summer</u>	
On-peak demand charge	\$26.20 /kW
Off-peak demand charge	\$8.25 /kW
Energy charge, all kWh used, per month	\$0.0395 /kWh
<u>Winter</u>	
On-peak demand charge	\$19.85 /kW
Off-peak demand charge	\$19.85 /kW
Energy charge, all kWh used, per month	\$0.0395 /kWh

Minimum Bill

The greater of:

- a) The demand charge plus the energy charge, and the customer charge; or
- b) One dollar and fifty cents (\$1.50) per KVA of installed transformer capacity.

D. IRRIGATION SERVICE IP

	Effective <u>March 1, 2023</u>
Customer Charge, per month	\$49.00
PLUS:	
Annual Fixed Charge	
On-peak HP charge (connected per season)	\$94.50 /HP
Off-peak HP charge (connected per season)	\$32.85 /HP
<i>Off peak: Minimum 30 HP, restricted hours use</i>	
Energy charge, all kWh used	\$0.0848 /kWh

Subject to application of fuel and energy adjustment as provided in Section 3-123.

Irrigation Season

The period from June 1 through September 30

Off-Season Service

The period from October 1 through May 31

Energy charge, all kWh used Billed at the General Service G rate

Minimum Seasonal Charge

The greater of:

- 1) The HP charge; or
- 2) A charge of \$120.

Billing HP shall be the nameplate rating of the motor(s) connected to this service.

E. LIGHTING

1. CITY STREET LIGHTING SL

	Effective March 1, 2023
Customer Charge, per month	\$10.00
PLUS:	
<u>Summer</u>	
Energy charge, all kWh used, per month (where applicable)	\$0.0627 /kWh
<u>Winter</u>	
Energy charge, all kWh used, per month (where applicable)	\$0.0627 /kWh

OR: Rental lighting charge, PL or ML, as applicable.

2. RENTAL LIGHTING PL

	Effective March 1, 2023
Customer Charge, per month	
PL1 175 watt mercury vapor light	\$8.50 /fixture
PL2 100/150 watt sodium vapor light	\$7.70 /fixture
PL3 400 watt mercury vapor light	\$14.65 /fixture
PL4 400 watt sodium vapor light	\$14.65 /fixture
PL7 1000 watt mercury vapor light	\$22.10 /fixture

3. RENTAL LIGHTING ML

	Effective March 1, 2023
Customer Charge, per month	
ML1 175 watt mercury vapor light	\$4.60 /fixture
ML2 100/150 watt sodium vapor light	\$4.35 /fixture
ML3 400 watt mercury vapor light	\$5.65 /fixture
ML4 400 watt sodium vapor light	\$5.35 /fixture
ML7 1000 watt mercury vapor light	\$7.10 /fixture

F. COGENERATION

Owners of small power and energy production facilities must execute a small power and cogeneration agreement with the City.

1. COGENERATION G1

The producer shall pay a minimum monthly charge to the City for each measured interconnection.

Customer Charge, per month

240 Volts or Less

Single phase meter	\$13.00 /meter
Three phase meter	\$29.00 /meter

Over 240 Volts

Single phase meter	\$29.00 /meter
Three phase meter	\$51.00 /meter

For energy purchased by City

All kWh purchased by City, per month	\$0.0378 /kWh
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PLUS:

The fuel and energy adjustment applied to the City electric rate classification for retail power and energy sales to the producer.

2. COGENERATION G2

For the purchase of power and/or energy by the City from small power and energy producers with production capability of more than 100 kW.

The producer shall pay a minimum monthly charge to the City for each measured interconnection.

Customer Charge, per month

240 Volts or Less

Single phase meter	\$29.00 /meter
Three phase meter	\$51.00 /meter

Over 240 Volts

Single phase meter	\$29.00 /meter
Three phase meter	\$51.00 /meter

For energy purchased by City

All kWh purchased by City, per month	\$0.0378 /kWh
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PLUS:

The fuel and energy adjustment applied to the City electric rate classification for retail power and energy sales to the producer, based on the pooled energy adjustment assessed by the City's power supplier.

Time-of-Day Metering	
Single phase meter	\$29.00 /meter
Three phase meter	\$51.00 /meter

G. PRODUCTION COST ADJUSTMENT

The base production cost for the tariffs presently in effect is 71.84 mills/kWh (\$ 0.07184 /kWh) including purchased power costs and transmission service.

(Amended by Ord. No. 1629, 5 /17/05) (Ord. No. 1722, 12/02/08)

§30-124 Municipal Electric Department: Rate Adjustment Availability. The City reserves the right to increase the cost per kilowatt-hour (kWh) to compensate for any increase in fuel and energy costs per kWh or any production cost adjustment or pooled energy adjustment assessed by the City's power supplier.

**Comparison of Revenue from Existing Rates
to Revenue from Proposed Rates
Crete, NE**

Line	Rate Class	Revenue Existing Rates	Revenue Proposed Rates	Difference	
				\$	%
1	Residential / Residential Heating	\$ 3,161,256	\$ 3,325,751	\$ 164,495	5.2%
2	General Service / GS Heating Single Phase	625,303	644,132	18,830	3.0%
3	General Service / GS Heating Three Phase	723,192	743,807	20,615	2.9%
4	General Service Demand	1,413,183	1,444,509	31,326	2.2%
5	Irrigation	4,729	5,009	280	5.9%
6	Large Power Service LP1	2,699,524	2,804,645	105,121	3.9%
7	Large Power Service LP2	2,645,217	2,743,010	97,794	3.7%
8	City Street Lighting	34,160	36,178	2,018	5.9%
9	Rental Lighting	27,479	28,661	1,181	4.3%
10	Total	\$ 11,334,042	\$ 11,775,701	\$ 441,659	3.9%

**Appendix Table B-1
Typical Bill Comparison
Existing vs. Proposed Rates
Residential / Residential Heating**

Line	Summer Rates			
	Existing		Proposed	
1	Minimum Bill	\$ -	Minimum Bill	\$ -
2	Customer Charge	\$ 17.00	Customer Charge	\$ 19.50
3	Energy	cts/kWh	Energy	cts/kWh
4	First 650 kWh	11.060	650 kWh	10.870
5	Next - kWh	-	- kWh	-
6	Next - kWh	-	- kWh	-
7	Next - kWh	-	- kWh	-
8	Excess	11.060	Excess	10.870
9	Load Management Credit	\$ 2.50		\$ 2.50

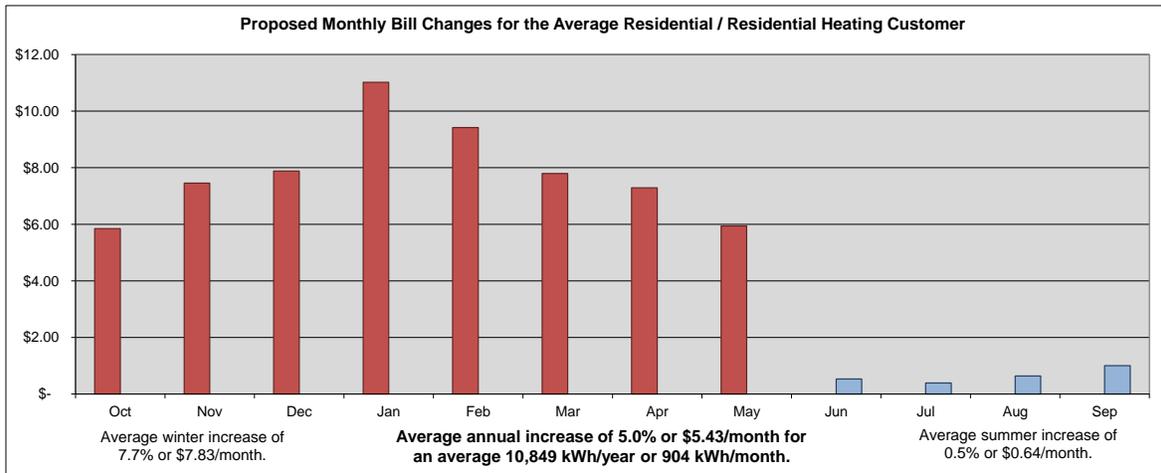
	Winter Rates			
	Existing		Proposed	
	Minimum Bill	\$ -	Minimum Bill	\$ -
	Customer Charge	\$ 17.00	Customer Charge	\$ 19.50
	Energy	cts/kWh	Energy	cts/kWh
	First 650 kWh	10.300	650 kWh	10.870
	Next - kWh	-	- kWh	-
	Next - kWh	-	- kWh	-
	Next - kWh	-	- kWh	-
	Excess	8.130	Excess	8.870

Existing Rate Revenue	\$ 3,161,256
Proposed Rate Revenue	\$ 3,325,751
Rate Increase / Decrease	5.2%

Line	Monthly Usage (kWh)	Summer Monthly Bill		% Inc. / (Dec.)
		Existing	Proposed	
9	500	72.30	73.85	2.1%
10	1,000	127.60	128.20	0.5%
11	2,000	238.20	236.90	-0.5%

Monthly Usage (kWh)	Winter Monthly Bill		% Inc. / (Dec.)
	Existing	Proposed	
500	68.50	73.85	7.8%
1,000	112.41	121.20	7.8%
2,000	193.71	209.90	8.4%

Annual Average Monthly Bill		% Inc. / (Dec.)	\$ Inc. / (Dec.)
Existing	Proposed		
69.77	73.85	5.9%	4.08
117.47	123.53	5.2%	6.06
208.54	218.90	5.0%	10.36



Appendix Table B-2
Typical Bill Comparison
Existing vs. Proposed Rates
General Service / GS Heating Single Phase

Line	Summer Rates			
	Existing		Proposed	
1	Minimum Bill	\$ -	Minimum Bill	\$ -
2	Customer Charge	\$ 31.44	Customer Charge	\$ 33.00
3	Energy	cts/kWh	Energy	cts/kWh
4	First 1,200 kWh	11.270	1,200 kWh	11.460
5	Next - kWh	-	- kWh	-
6	Next - kWh	-	- kWh	-
7	Next - kWh	-	- kWh	-
8	Excess	11.270	Excess	11.460
9	Load Management Credit	\$ 2.50		\$ 2.50

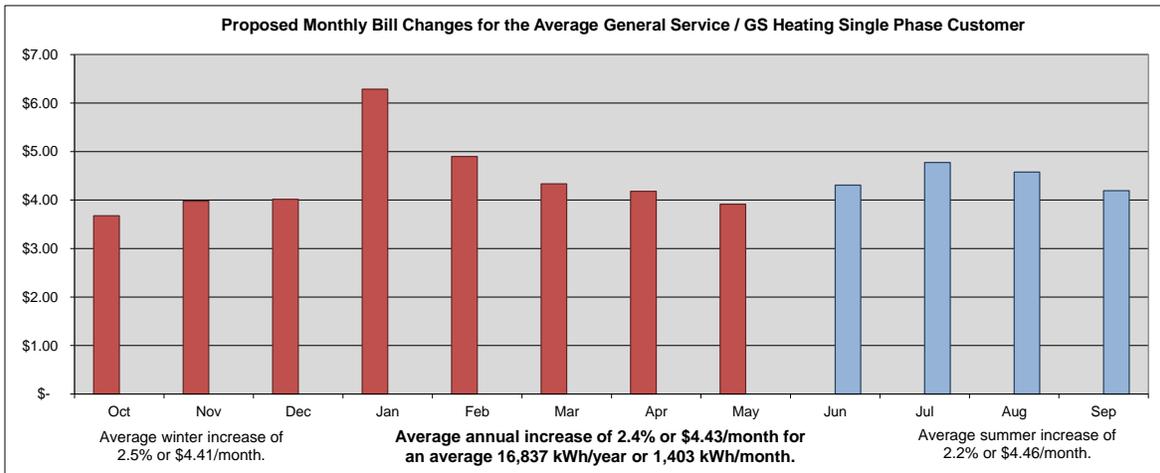
	Winter Rates			
	Existing		Proposed	
	Minimum Bill	\$ -	Minimum Bill	\$ -
	Customer Charge	\$ 31.44	Customer Charge	\$ 33.00
	Energy	cts/kWh	Energy	cts/kWh
	First 1,200 kWh	11.270	1,200 kWh	11.460
	Next - kWh	-	- kWh	-
	Next - kWh	-	- kWh	-
	Next - kWh	-	- kWh	-
	Excess	9.320	Excess	9.710

Existing Rate Revenue	\$ 625,303
Proposed Rate Revenue	\$ 644,132
Rate Increase / Decrease	3.0%

Line	Monthly Usage (kWh)	Summer Monthly Bill		% Inc. / (Dec.)
		Existing	Proposed	
9	750	115.97	118.95	2.6%
10	1,500	200.49	204.90	2.2%
11	2,500	313.19	319.50	2.0%

Monthly Usage (kWh)	Winter Monthly Bill		% Inc. / (Dec.)
	Existing	Proposed	
750	115.97	118.95	2.6%
1,500	194.64	199.65	2.6%
2,500	287.84	296.75	3.1%

Annual Average Monthly Bill		% Inc. / (Dec.)	\$ Inc. / (Dec.)
Existing	Proposed		
115.97	118.95	2.6%	2.99
196.59	201.40	2.4%	4.81
296.29	304.33	2.7%	8.04



Appendix Table B-3
Typical Bill Comparison
Existing vs. Proposed Rates
General Service / GS Heating Three Phase

Line	Summer Rates			
	Existing		Proposed	
1	Minimum Bill	\$ -	Minimum Bill	\$ -
2	Customer Charge	\$ 55.28	Customer Charge	\$ 57.35
3	Energy	cts/kWh	Energy	cts/kWh
4	First 1,200 kWh	11.270	1,200 kWh	11.460
5	Next - kWh	-	- kWh	-
6	Next - kWh	-	- kWh	-
7	Next - kWh	-	- kWh	-
8	Excess	11.270	Excess	11.460
9	Load Management Credit	\$ 2.50		\$ 2.50

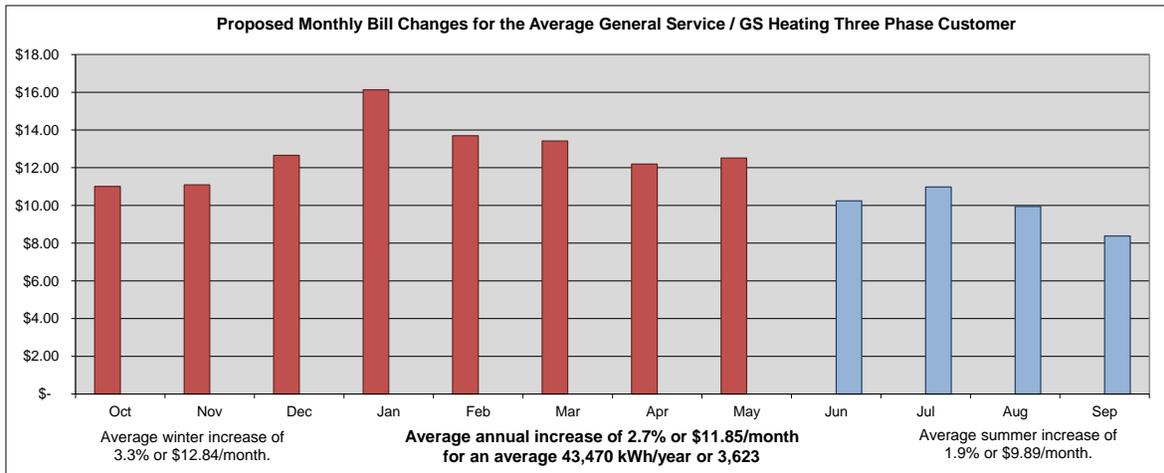
	Winter Rates			
	Existing		Proposed	
	Minimum Bill	\$ -	Minimum Bill	\$ -
	Customer Charge	\$ 55.28	Customer Charge	\$ 57.35
	Energy	cts/kWh	Energy	cts/kWh
	First 1,200 kWh	11.270	1,200 kWh	11.460
	Next - kWh	-	- kWh	-
	Next - kWh	-	- kWh	-
	Next - kWh	-	- kWh	-
	Excess	9.320	Excess	9.710

Existing Rate Revenue	\$ 723,192
Proposed Rate Revenue	\$ 743,807
Rate Increase / Decrease	2.9%

Line	Monthly Usage (kWh)	Summer Monthly Bill		% Inc. / (Dec.)
		Existing	Proposed	
9	500	111.63	114.65	2.7%
10	1,000	167.98	171.95	2.4%
11	2,000	280.68	286.55	2.1%

Monthly Usage (kWh)	Winter Monthly Bill		% Inc. / (Dec.)
	Existing	Proposed	
500	111.63	114.65	2.7%
1,000	167.98	171.95	2.4%
2,000	265.08	272.55	2.8%

Annual Average Monthly Bill		% Inc. / (Dec.)	\$ Inc. / (Dec.)
Existing	Proposed		
111.63	114.65	2.7%	3.02
167.98	171.95	2.4%	3.97
270.28	277.22	2.6%	6.94



**Appendix Table B-4
 Typical Bill Comparison
 Existing vs. Proposed Rates
 General Service Demand**

Line	Summer Rates			
	Existing		Proposed	
1	Minimum Bill	\$ -	Minimum Bill	\$ -
2	Customer Charge	\$ 81.30	Customer Charge	\$ 85.00
3	Demand On-Peak	\$ 28.73	Demand On-Peak	\$ 28.80
4	Off-Peak	\$ 9.76	Off-Peak	\$ 9.80
5	Energy	cts/kWh	Energy	cts/kWh
6	First - kWh	-	- kWh	-
7	Next - kWh	-	- kWh	-
8	Next - kWh	-	- kWh	-
9	Next - kWh	-	- kWh	-
10	Excess	4.440	Excess	4.630

	Winter Rates			
	Existing		Proposed	
	Minimum Bill	\$ -	Minimum Bill	\$ -
	Customer Charge	\$ 81.30	Customer Charge	\$ 85.00
	Demand On-Peak	\$ 20.87	Demand On-Peak	\$ 21.00
	Off-Peak	\$ 20.87	Off-Peak	\$ 21.00
	Energy	cts/kWh	Energy	cts/kWh
	First - kWh	-	- kWh	-
	Next - kWh	-	- kWh	-
	Next - kWh	-	- kWh	-
	Next - kWh	-	- kWh	-
	Excess	4.440	Excess	4.630

Existing Rate Revenue	\$ 1,413,183
Proposed Rate Revenue	\$ 1,444,509
Rate Increase / Decrease	2.2%

**Appendix Table B-5
 Typical Bill Comparison
 Existing vs. Proposed Rates
 Large Power Service LP1**

Line	Summer Rates			
	Existing		Proposed	
1	Minimum Bill	\$ -	Minimum Bill	\$ -
2	Customer Charge	\$ 205.96	Customer Charge	\$ 225.00
3	Demand On-Peak	\$ 26.02	Demand On-Peak	\$ 27.25
4	Off-Peak	\$ 8.13	Off-Peak	\$ 8.50
5	Energy	cts/kWh	Energy	cts/kWh
6	First - kWh	-	- kWh	-
7	Next - kWh	-	- kWh	-
8	Next - kWh	-	- kWh	-
9	Next - kWh	-	- kWh	-
10	Excess	3.900	Excess	4.060

Line	Winter Rates			
	Existing		Proposed	
1	Minimum Bill	\$ -	Minimum Bill	\$ -
2	Customer Charge	\$ 205.96	Customer Charge	\$ 225.00
3	Demand On-Peak	\$ 20.33	Demand On-Peak	\$ 20.95
4	Off-Peak	\$ 20.33	Off-Peak	\$ 20.95
5	Energy	cts/kWh	Energy	cts/kWh
6	First - kWh	-	- kWh	-
7	Next - kWh	-	- kWh	-
8	Next - kWh	-	- kWh	-
9	Next - kWh	-	- kWh	-
10	Excess	3.900	Excess	4.060

Existing Rate Revenue	\$ 2,699,524
Proposed Rate Revenue	\$ 2,804,645
Rate Increase / Decrease	3.9%

**Appendix Table B-6
 Typical Bill Comparison
 Existing vs. Proposed Rates
 Large Power Service LP2**

Line	Summer Rates				Winter Rates			
	Existing		Proposed		Existing		Proposed	
1	Minimum Bill	\$ -						
2	Customer Charge	\$ 205.96	Customer Charge	\$ 225.00	Customer Charge	\$ 205.96	Customer Charge	\$ 225.00
3	Demand On-Peak	\$ 26.02	Demand On-Peak	\$ 26.20	Demand On-Peak	\$ 18.97	Demand On-Peak	\$ 19.85
4	Off-Peak	\$ 8.13	Off-Peak	\$ 8.25	Off-Peak	\$ 18.97	Off-Peak	\$ 19.85
5	Energy	cts/kWh	Energy	cts/kWh	Energy	cts/kWh	Energy	cts/kWh
6	First - kWh	-	- kWh	-	First - kWh	-	- kWh	-
7	Next - kWh	-	- kWh	-	Next - kWh	-	- kWh	-
8	Next - kWh	-	- kWh	-	Next - kWh	-	- kWh	-
9	Next - kWh	-	- kWh	-	Next - kWh	-	- kWh	-
10	Excess	3.790	Excess	3.950	Excess	3.790	Excess	3.950

Existing Rate Revenue	\$2,645,217
Proposed Rate Revenue	\$2,743,010
Rate Increase / Decrease	3.7%

**Appendix Table B-7
Typical Bill Comparison
Existing vs. Proposed Rates
Irrigation**

Line	Summer Rates			
	Existing		Proposed	
1	Minimum Bill	\$ -	Minimum Bill	\$ -
2	Customer Charge	\$ 43.36	Customer Charge	\$ 49.00
3	Energy	cts/kWh	Energy	cts/kWh
4	First 1,200 kWh	8.130	1,200 kWh	8.480
5	Next - kWh	-	- kWh	-
6	Next - kWh	-	- kWh	-
7	Next - kWh	-	- kWh	-
8	Excess	8.130	Excess	8.480
9	On-Pk HP Charge	\$ 92.14		\$ 94.50
10	Off-Pk HP Charge	\$ 31.44		\$ 32.85

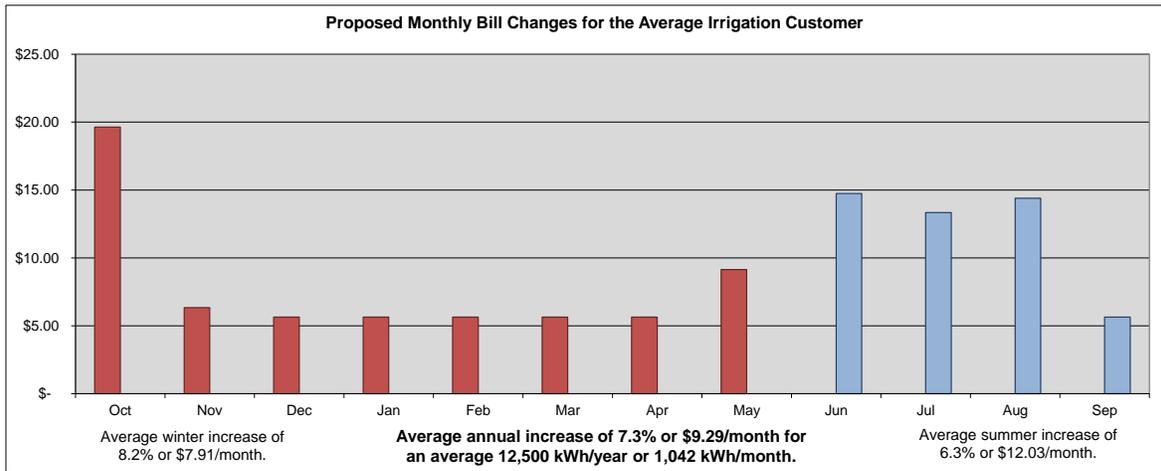
	Winter Rates			
	Existing		Proposed	
Minimum Bill	\$ -	Minimum Bill	\$ -	
Customer Charge	\$ 43.36	Customer Charge	\$ 49.00	
Energy	cts/kWh	Energy	cts/kWh	
First 1,200 kWh	8.130	1,200 kWh	8.480	
Next - kWh	-	- kWh	-	
Next - kWh	-	- kWh	-	
Next - kWh	-	- kWh	-	
Excess	8.130	Excess	8.480	

Existing Rate Revenue	\$ 4,729
Proposed Rate Revenue	\$ 5,009
Rate Increase / Decrease	5.9%

Line	Monthly Usage (kWh)	Summer Monthly Bill		% Inc. / (Dec.)
		Existing	Proposed	
9	500	84.01	91.40	8.8%
10	1,000	124.66	133.80	7.3%
11	2,000	205.96	218.60	6.1%

Monthly Usage (kWh)	Winter Monthly Bill		% Inc. / (Dec.)
	Existing	Proposed	
500	84.01	91.40	8.8%
1,000	124.66	133.80	7.3%
2,000	205.96	218.60	6.1%

Annual Average Monthly Bill		% Inc. / (Dec.)	\$ Inc. / (Dec.)
Existing	Proposed		
84.01	91.40	8.8%	7.39
124.66	133.80	7.3%	9.14
205.96	218.60	6.1%	12.64



**Appendix Table B-8
Typical Bill Comparison
Existing vs. Proposed Rates
City Street Lighting**

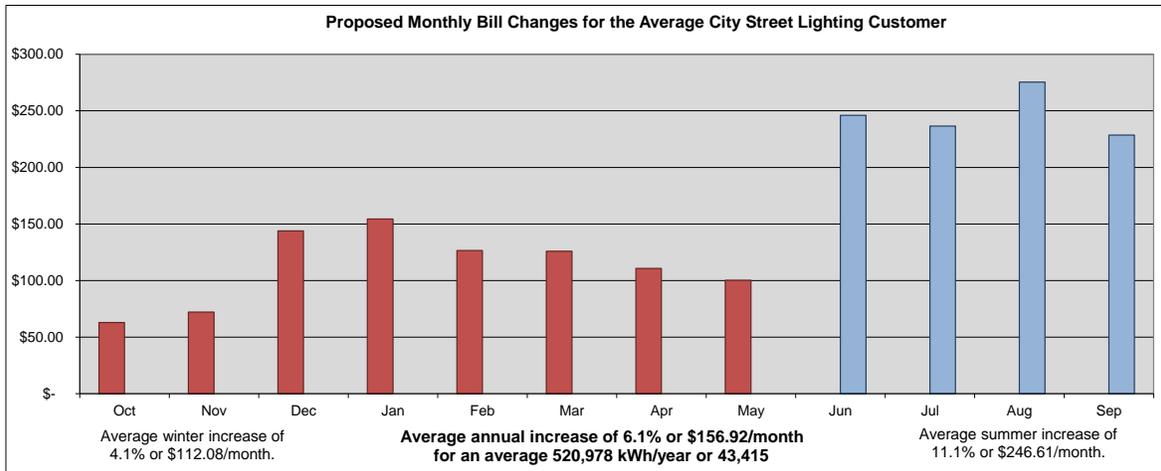
Line	Summer Rates				Winter Rates			
	Existing		Proposed		Existing		Proposed	
1	Minimum Bill	\$ -	Minimum Bill	\$ -	Minimum Bill	\$ -	Minimum Bill	\$ -
2	Customer Charge	\$ 7.05	Customer Charge	\$ 10.00	Customer Charge	\$ 7.05	Customer Charge	\$ 10.00
3	Energy	cts/kWh	Energy	cts/kWh	Energy	cts/kWh	Energy	cts/kWh
4	First - kWh	-	First - kWh	-	First - kWh	-	First - kWh	-
5	Next - kWh	-	Next - kWh	-	Next - kWh	-	Next - kWh	-
6	Next - kWh	-	Next - kWh	-	Next - kWh	-	Next - kWh	-
7	Next - kWh	-	Next - kWh	-	Next - kWh	-	Next - kWh	-
8	Excess	5.650	Excess	6.270	Excess	6.030	Excess	6.270

Existing Rate Revenue	\$ 34,160
Proposed Rate Revenue	\$ 36,178
Rate Increase / Decrease	5.9%

Line	Monthly Usage (kWh)	Summer Monthly Bill		% Inc. / (Dec.)
		Existing	Proposed	
9	500	35.30	41.35	17.1%
10	1,000	63.55	72.70	14.4%
11	2,000	120.05	135.40	12.8%

Monthly Usage (kWh)	Winter Monthly Bill		% Inc. / (Dec.)
	Existing	Proposed	
500	37.20	41.35	11.2%
1,000	67.35	72.70	7.9%
2,000	127.65	135.40	6.1%

Annual Average Monthly Bill	% Inc. / (Dec.)	\$ Inc. / (Dec.)	
			Existing
36.57	41.35	13.1%	4.78
66.08	72.70	10.0%	6.62
125.12	135.40	8.2%	10.28



**Appendix Table B-9
Typical Bill Comparison
Existing vs. Proposed Rates
Rental Lighting**

PL: Owned, installed and maintained by City; no energy through customer's meter; ML: Owned, installed and maintained by City; energy through customer's meter

Line	Summer Rates				Winter Rates			
	Existing		Proposed		Existing		Proposed	
		Per Fixture		Per Fixture		Per Fixture		Per Fixture
1								
2	PL1 175 W Mercury Vapor	\$ 8.16	PL1 175 W MV	\$ 8.50	PL1 175 W Mercury Vapor	\$ 8.16	PL1 175 W MV	\$ 8.50
3	PL2 100/150 W Sodium Vapor	\$ 7.37	PL2 100/150 W SV	\$ 7.70	PL2 100/150 W Sodium Vapor	\$ 7.37	PL2 100/150 W SV	\$ 7.70
4	PL3 400 W Mercury Vapor	\$ 14.05	PL3 400 W MV	\$ 14.65	PL3 400 W Mercury Vapor	\$ 14.05	PL3 400 W MV	\$ 14.65
5	PL4 400 W Sodium Vapor	\$ 14.05	PL4 400 W SV	\$ 14.65	PL4 400 W Sodium Vapor	\$ 14.05	PL4 400 W SV	\$ 14.65
6	PL7 1000 W Mercury Vapor	\$ 21.17	PL7 1000 W MV	\$ 22.10	PL7 1000 W Mercury Vapor	\$ 21.17	PL7 1000 W MV	\$ 22.10
7								
8	ML1 175 W Mercury Vapor	\$ 4.39	ML1 175 W MV	\$ 4.60	ML1 175 W Mercury Vapor	\$ 4.39	ML1 175 W MV	\$ 4.60
9	ML2 100/150 W Sodium Vapor	\$ 4.16	ML2 100/150 W SV	\$ 4.35	ML2 100/150 W Sodium Vapor	\$ 4.16	ML2 100/150 W SV	\$ 4.35
10	ML3 400 W Mercury Vapor	\$ 5.44	ML3 400 W MV	\$ 5.65	ML3 400 W Mercury Vapor	\$ 5.44	ML3 400 W MV	\$ 5.65
11	ML4 400 W Sodium Vapor	\$ 5.12	ML4 400 W SV	\$ 5.35	ML4 400 W Sodium Vapor	\$ 5.12	ML4 400 W SV	\$ 5.35
12	ML7 1000 W Mercury Vapor	\$ 6.81	ML7 1000 W MV	\$ 7.10	ML7 1000 W Mercury Vapor	\$ 6.81	ML7 1000 W MV	\$ 7.10

Existing Rate Revenue	\$ 27,479
Proposed Rate Revenue	\$ 28,661
Rate Increase / Decrease	4.3%

2022 CRETE STREET IMPROVEMENTS JEO PROJECT NO. 220169.00

OWNER:

NAME: TOM OURADA
CONTACT INFO: PHONE: 402.826.4312
 EMAIL: tom.ourada@crete.ne.gov

ENGINEER:

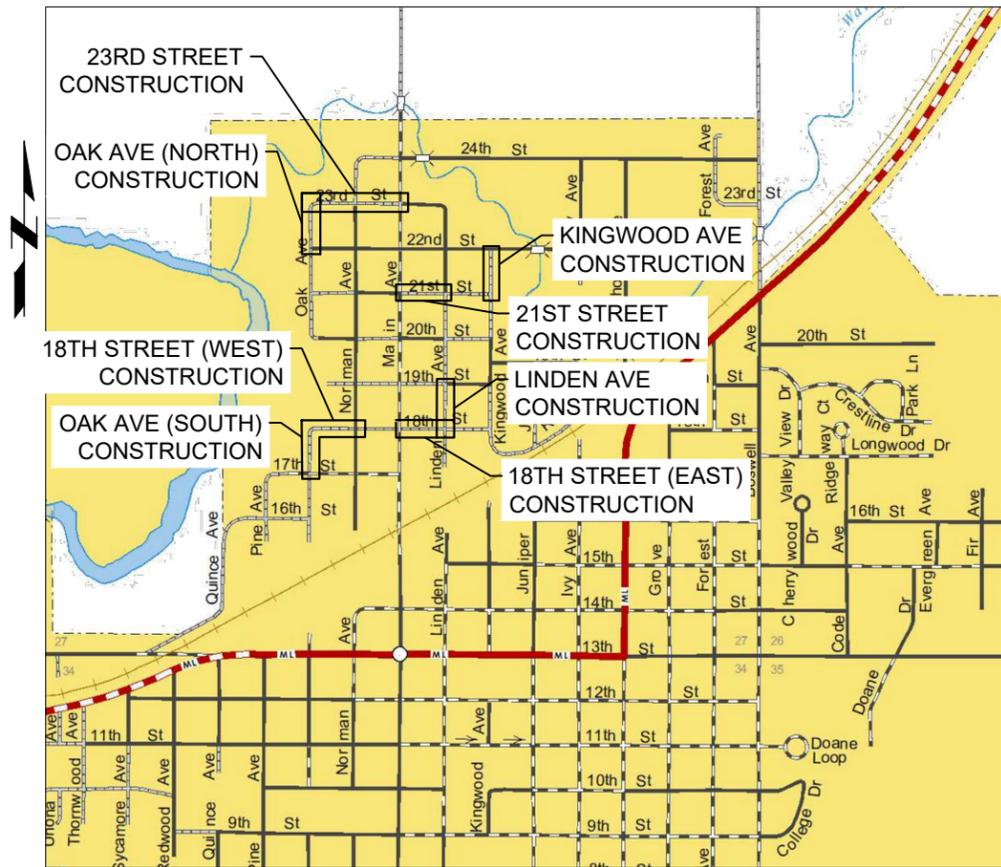
NAME: BRENT CIECIOR
CONTACT INFO: COMPANY: JEO CONSULTING GROUP INC.
 PHONE: 402.525.1953
 EMAIL: bciecior@jeo.com

INDEX OF SHEETS:

SHEET NO:	SHEET NAME:
C0.1	COVER SHEET
C0.2	SYMBOLS
C0.3	GENERAL NOTES AND QUANTITIES
C0.5	TYPICAL SECTIONS
C0.6 - C0.9	CONTROL SHEET
D1.1 - D1.2	STANDARD DETAILS
PP1.0 - PP1.9	PLAN AND PROFILE SHEETS
C2.1 - C2.6	GEOMETRIC SHEETS
C3.1 - C3.6	GRADE SHEETS
C4.1 - C4.9	EROSION CONTROL SHEETS
C5.1 - C5.2	RIGHT-OF-WAY SHEETS
DR1.1	DRAINAGE PROFILES
XS1.1 - XS1.19	CROSS-SECTION SHEETS

NDOT STANDARD PLANS:

STD. PLAN NO:	PLAN NAME:
301-R12	PAVEMENT DETAILS
303-R3	CURB RAMPS
411-R2	BEDDING AND BACKFILL REQUIREMENTS FOR CONCRETE PIPE
435-R2	MANHOLE
502-R2	SILT FENCE DETAILS
924-R4	URBAN TRAFFIC CONTROL PLAN



VICINITY MAP

UTILITIES:

NAME: GALEN HAGSTROM
CONTACT INFO: COMPANY: BLACK HILLS
 PHONE: 402-858-3572
 GALEN.HAGSTROM@BLACKHILLSCORP.COM

KYLE BEER
 COMPANY: WINDSTREAM
 PHONE: 402-219-1222
 KYLE.BEER@WINDSTREAM.COM

TODD STRAIN
 COMPANY: SPECTRUM
 PHONE: 402-421-0316
 TODD.STRAIN1@CHARTER.COM

I, [JEO ENGINEER, P.E.], AM THE COORDINATING PROFESSIONAL ON THE [PROJECT NAME] PROJECT.

NOTE:
 NEITHER THE OWNER (CLIENT) NOR JEO CONSULTING GROUP, INC. ASSUMES ANY RESPONSIBILITY FOR UTILITY LOCATIONS BEING ACCURATELY SHOWN OR NOT SHOWN ON THE PLANS. A REQUEST FOR UTILITY LOCATES WAS MADE FOR THIS LOCATION AS PER THE ONE-CALL NOTIFICATION SYSTEM ACT. (DATE: 2-24-2022, TICKET NOS.: 220550669-683).
 UTILITIES SHOWN ARE FROM FIELD MARKINGS PROVIDED IN THE FIELD BY THE UTILITY PROVIDERS.
 THE EXACT LOCATION AND/OR SIZE OF UNDERGROUND FEATURES MAY NOT BE ACCURATELY, COMPLETELY AND RELIABLY DEPICTED. FIELD VERIFICATION OF UTILITIES MAY BE REQUIRED. CONTRACTOR(S) SHALL NOTIFY THE RESPECTIVE UTILITY COMPANIES BEFORE COMMENCING ANY WORK.



2022
CRETE STREET IMPROVEMENTS
JEO PROJECT NO. 220169.00

COVER SHEET

PRELIMINARY
NOT FOR CONSTRUCTION
95%
DATE:
11/29/2022
PRELIMINARY

PROJECT NO.	220169.00
DATE	11/29/2022
DRAWN BY	JDP
FILE NAME	S-220169.00_GEN.dwg
FIELD BOOK	CRETE #4
FIELD CREW	DF
SURVEY FILE NO.	SV-220169.00
PLAN IN HAND	PIH INI
DATE	PIH DATE
70 PERCENT REVIEW	70% INI
DATE	70% DATE
95 PERCENT REVIEW	95% INI
DATE	95% DATE
REVISIONS	

LINESTYLES

ITEM	SYMBOL
BREAK LINE	
CABLE TELEVISION	— UTV — UTV —
CABLE TV (NS)	— <UTV> — — <UTV> —
CENTERLINE OF ROAD	
CONTOUR MINOR (EX)	— 1202 — —
CONTOUR MAJOR (EX)	— 1200 — —
CONTOUR MINOR (EX,SCREENED)	— 1202 — —
CONTOUR MAJOR (EX,SCREENED)	— 1200 — —
CONTOUR MINOR (PR)	— 1202 — —
CONTOUR MAJOR (PR)	— 1200 — —
LIMITS OF CONSTRUCTION	— LOC — — LOC —
CULVERT	
ELECTRIC (OVHD)	— OHE — — OHE —
ELECTRIC (OVHD, NS)	— <OHE> — — <OHE> —
ELECTRIC (UGND)	— UGE — — UGE —
ELECTRIC (UGND, NS)	— <UGE> — — <UGE> —
FENCE (WOODEN)	— □ — □ — □ — □ —
FENCE (WIRE OR UNKNOWN)	— x — x — x — x —
FENCE (CHAINLINK)	— ○ — ○ — ○ — ○ —
FENCE (SECURITY)	— △ — △ — △ — △ —
FIBER OPTIC LINE	— FO — — FO —
FIBER OPTIC LINE (NS)	— <FO> — — <FO> —
FLOWLINE (BREAKLINE)	
GAS LINE	— G — — G —
GAS LINE (NS)	— <G> — — <G> —
GUARDRAIL	
PROPERTY BOUNDARY	
PROPERTY LOT LINES (PR)	
PROPERTY LINES (EX,NS)	
RIGHT-OF-WAY LINE	— ROW — — ROW —
RAILROAD RIGHT-OF-WAY	— RR ROW — —
RAILROAD TRACKS	
RETAINING WALL	
SANITARY SEWER (EX)	— 8" SAN — —
SANITARY SEWER (NS)	— <SAN> — — <SAN> —
SANITARY SEWER (PR)	— 8" SAN — —
SAN SEWER FORCE MAIN (EX)	— 8" FM — — 8" FM —
SAN SEWER FORCE MAIN (PR)	— 6" FM — — 6" FM —
STORM SEWER (EX)	— 12" ST — — (OFFSET TO PIPE SIZE)
STORM SEWER (NS)	— <ST> — — <ST> —
STORM SEWER (PR)	— 12" ST — — (OFFSET TO PIPE SIZE)
TELEPHONE LINE (UGND)	— UGT — — UGT —
TELEPHONE LINE (UGND,NS)	— <UGT> — — <UGT> —
TELEPHONE LINE (OVHD)	— OHT — — OHT —
TELEPHONE LINE (OVHD,NS)	— OHT — — OHT —
TERRACE	
CROPLINE	— Y — — Y —
TRAVELED WAY	
WATER (EX)	— 6" W — — 6" W —
WATER (NS)	— <W> — — <W> —
WATER (PR)	— 6" W — —
FIRE SERVICE	— 6" F — — 6" F —
EXISTING	EX
EXISTING, NOT-SURVEYED	NS
PROPOSED	PR
OVERHEAD	OVHD
UNDERGROUND	UGND

COMMON HATCHING

ITEM	HATCH
ASPHALT PAVEMENT (EX.)	
CONCRETE PAVEMENT (EX.)	
GRAVEL (EX.)	
BRICK PAVEMENT (EX.)	
ASPHALT PAVEMENT (PR.)	
CONCRETE PAVEMENT (PR.)	
CONCRETE SIDEWALK (PR)	
GRAVEL (PR.)	
BRICK PAVEMENT (PR.)	
RIP RAP	
SEEDING	
MATTING	
UNDISTURBED EARTH	
EARTH	
GRANULAR FILL	
SAND MORTAR, PLASTER	
CONCRETE	
BRICK	
CONCRETE BLOCK	
METAL	
WOOD FRAMING	
WOOD FRAMING INTERRUPTED MEMBER	
BATT INSULATION	
RIGID INSULATION	

UTILITIES

ITEM	SYMBOL
STORM SEWER	
CURB INLET	
GRATE INLET	
CATCH BASIN	
STORM SEWER MANHOLE	
SANITARY	
CLEANOUT	
SEPTIC TANK	
SANITARY MANHOLE	
POWER, ELECTRICAL, LIGHT, AND TRAFFIC	
AIR CONDITIONING UNIT	
ANTENNA	
ANCHOR POLE/POST	
GUY POLE	
GUY WIRE ANCHOR	
ELECTRICAL HIGHLINE TOWER (METAL OR CONCRETE)	
POWER POLE (EXISTING)	
POWER POLE (PROPOSED)	
POWER (ELEC) PEDESTAL	
POWER (ELEC) PULL BOX OR MANHOLE	
POWER (ELEC) METER	
LIGHT POLE	
TRAFFIC SIGNAL	
TRAFFIC SIGNAL BOX	
TELEVISION PEDESTAL	
TELEVISION MANHOLE	
WATER	
WATER MANHOLE	
WATER VALVE	
WATER SHUT OFF OR CURB STOP	
WELL	
WATER METER	
WATER METER PIT	
YARD HYDRANT	
WATER ELEVATION	
WATER TOWER	
FIRE HYDRANT (EXISTING)	
FIRE HYDRANT (PROPOSED)	
FIRE HYDRANT IN PROFILE	
WATER FITTINGS	
11- 1/4"	
22- 1/2"	
45°	
90°	
CROSS	
PLUG	
REDUCER	
TEE	
GAS	
GAS METER	
GAS MANHOLE	
GAS FILL PIPE	
GAS PUMP	
GAS VALVE	
GAS VENT	
TELEPHONE	
FIBER OPTICS PULL BOX	
TELEPHONE POLE	
TELEPHONE PULL BOX OR MANHOLE	
TELEPHONE PEDESTAL	
MANHOLE (NON-SPECIFIC)	
UNDERGRND STORAGE TANK	
VALVE (NON-SPECIFIC)	

SITE & SIGNAGE

ITEM	SYMBOL
SIGN	
BARRICADE	
ROAD SIGNS	
COUNTY ROAD	
INTERSTATE HIGHWAY	
STATE HIGHWAY	
U.S. HIGHWAY	
MILE MARKER POST	
RIGHT OF WAY MARKER	
RAILROAD CROSSING SIGNAL	
RAILROAD SWITCH	
FLAG POLE	
MAILBOX	
PROPANE TANK	
SATELLITE TV DISH	
WINDMILL	

CONTROL & ELEVATION

ITEM	SYMBOL
BENCHMARK	
CONTROL POINT (NON-PROPERTY)	
MONUMENT FOUND (PROPERTY)	
MONUMENT SET	
TEMPORARY POINT	
TEST BORING	
POINT ELEVATION (EXISTING)	× 0.00
POINT ELEVATION (PROPOSED)	
TOP OF PAVEMENT	TP
TOP OF CURB	TC
GROUND	GR
TOP OF WALL	TW
BOTTOM OF WALL	BW
FLOWLINE	FL
GRID TICK	+

MISC FEATURES

ITEM	SYMBOL
CENTER PIVOT	
CEMETERY	
GRAVE	
CHURCH	
CAVE	
CISTERN	
LATRINE	
OIL WELL	
GUARD POST	

PAVING FEATURES

ITEM	SYMBOL
EXISTING PAVEMENT JOINT	
TRANSVERSE JOINT	
LONGITUDINAL JOINT	
EXPANSION/KEYED JOINT	
PAVEMENT MARKING	
PAVEMENT REBAR	
HANDICAP SYMBOL	

VEGETATION

ITEM	SYMBOL
BUSH	
CONIFEROUS TREE	
DECIDUOUS TREE	
MARSH/WETLAND	
TREE MASS LINE	
TREE STUMP	

SWPPP

ITEM	SYMBOL
SILT FENCE	— SF — — SF —
INLET PROTECTION	
STRAW WATTLE CHECK	
STRAW BALE CHECK	
FLOW ARROW (PLAN)	
AREA INLET	
FILTER PROTECTION	

GENERAL

ITEM	SYMBOL
PLAN REVISION	
NORTH ARROW	
GRAPHIC SCALE PLAN	
GRAPHIC SCALE PROFILE/ CROSS SECTION	
KEYNOTE OR TABULAR NOTE	
REFERENCED NOTE	
ELEVATION	
SECTION	
ENLARGED DETAIL	



2022
CRETE STREET IMPROVEMENTS
JEO PROJECT NO. 220169.00

SHEET NAME

PRELIMINARY
NOT FOR CONSTRUCTION
95%
DATE:
11/29/2022
PRELIMINARY

PROJECT NO. 220169.00
 DATE 11/29/2022
 DRAWN BY JDP
 FILE NAME S-220169.00_GEN.dwg
 FIELD BOOK CRETE #4
 FIELD CREW DF
 SURVEY FILE NO. SV-220169.00
 PLAN IN HAND INTLS INI PIH INI
 INTLS DATE PIH DATE
 70 PERCENT REVIEW INTLS DATE 70% INI DATE
 95 PERCENT REVIEW INTLS DATE 95% INI DATE
 REVISIONS

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GENERAL NOTES

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES, INCLUDING POT-HOLING AND/OR EXCAVATION NECESSARY, TO FIELD VERIFY ANY POTENTIAL CONFLICTS WITH PROPOSED CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE ALL RELOCATIONS, TO BE COMPLETED BY UTILITY PROVIDERS, WITH THE ENGINEER AND CITY.
- EARTHWORK SHALL BE PAID AS ESTABLISHED QUANTITIES IN ACCORDANCE WITH THE SPECIFICATIONS WITH NO DIRECT MEASUREMENT TO BE MADE FOR VARIANCE IN PAVEMENT THICKNESS OR EARTHWORK NECESSARY TO COMPLETE THE PROJECT. ALL OTHER EARTHWORK AND SITE GRADING NECESSARY TO COMPLETE THE WORK SHALL BE CONSIDERED SUBSIDIARY TO OTHER ITEMS FOR WHICH DIRECT PAYMENT IS MADE.
- PRIOR TO PERFORMING WORK, THE CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND DEPTHS OF EXISTING STORM SEWER, WATER, SANITARY UTILITIES IN THE VICINITY OF PROPOSED STORM SEWER WORK.
- THE CONTRACTOR SHALL PROTECT ALL PROPERTY PINS FROM BEING DISTURBED DURING CONSTRUCTION AND SHALL BE RESPONSIBLE FOR COST OF RESETTING ANY PINS.
- THE CONTRACTOR SHALL GRADE AND SHAPE AREAS TO BE SEEDED, BLENDING THEM TO MATCH EXISTING GROUND, AS APPROVED BY THE ENGINEER IN THE FIELD. MINOR GRADING AND SHAPING IS ANTICIPATED AND SHALL BE CONSIDERED INCIDENTAL AND SUBSIDIARY TO OTHER ITEMS FOR WHICH DIRECT PAYMENT IS MADE.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO ANY PAVING WORK IF POSITIVE DRAINAGE IS IN QUESTION. THE INTENT OF THE DRAWINGS TO ENSURE POSITIVE DRAINAGE IN ALL SITUATIONS. IF POSITIVE DRAINAGE DOES NOT OCCUR AT SPECIFIC LOCATIONS. THE CONTRACTOR SHALL REPAIR, INCLUDING THE REMOVAL AND REPLACEMENT OF PAVEMENT, TO ACHIEVE POSITIVE DRAINAGE. CONTRACTOR WILL BE REQUIRED TO PAY ALL COSTS ASSOCIATED WITH THE NEEDED REPAIR.
- THE CONTRACTOR SHALL PERFORM SUBGRADE PREPARATION TO A DEPTH OF 12-INCHES IN ALL CONCRETE PAVING, SIDEWALK, AND RAMP AREAS IN ACCORDANCE WITH THE SPECIFICATIONS. SUBGRADE PREPARATION FOR STREET, DRIVEWAY, AND ALLEY CONCRETE PAVEMENT SHALL BE PAID FOR SEPARATELY. ALL OTHER SUBGRADE PREPARATION SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
- THE CONTRACTOR SHALL COORDINATE TREE REMOVALS WITH THE ENGINEER PRIOR TO ANY REMOVALS. THIS SHALL INCLUDE ANY TREE GREATER THAN 3" IN DIAMETER.
- ADJUST CURB STOPS, VALVE BOXES, AND OTHER MISCELLANEOUS CITY OWNED UTILITIES NOT DIRECTLY LISTED IN THE SUMMARY OF QUANTITIES TO GRADE. ALL ADJUSTMENTS ARE SUBSIDIARY TO OTHER CONTRACT ITEMS.
- STAND ALONE CURB RAMP CONSTRUCTION SHALL REQUIRE THE REMOVAL-AND REPLACEMENT OF ADJACENT CURB AND GUTTER, AND SHALL BE PAID FOR AS "REMOVE AND REPLACE CURB AND GUTTER" AND PAID FOR BY THE LINEAR FOOT.
- SILT FENCE SHALL BE PLACED IN COORDINATION WITH THE ENGINEER BASED ON THE LEVEL OF CONSTRUCTION WITHIN ANY SPECIFIC AREA, WHILE CURB INLETS ARE IN THE PROCESS OF BEING CONSTRUCTED. SILT FENCE INSTALLATION MAY BE REQUIRED AROUND THE NEW CURB INLETS IF ADVERSE WEATHER IS FORECASTED. CURB INLET SEDIMENT FILTERS SHALL BE INSTALLED AROUND ANY EXISTING INLETS DOWNSTREAM OF ANY ADJACENT CONSTRUCTION WORK, INCLUDING REMOVALS, GRADING, PAVING, SAWING, ETC.

GROUP A - OAK AVE (SOUTH) & 18TH STREET (EAST)

ITEM	BID ITEM	UNIT	QUANTITY
1.	Mobilization	LS	1
2.	Bonding and Insurance	LS	1
3.	Clearing and Grubbing	LS	1
4.	Remove Tree	EA	16
5.	Remove Pavement	SY	170
6.	Remove Concrete Sidewalk	SF	663
7.	Remove Storm Sewer Structure (< 6' deep)	EA	2
8.	Remove Storm Sewer Pipe	LF	173
9.	Adjust Valve Box to Grade	EA	4
10.	Earthwork, Establish Quantity	CY	750
11.	7" Concrete Pavement	SY	2350
12.	6" Concrete Driveway	SY	119
13.	4" Concrete Sidewalk	SF	4751
14.	Detectable Warning Panels	SF	56
15.	Subgrade Preparation	SY	2350
16.	Gravel Surface Course	TON	2
17.	Concrete Header	EA	2
18.	Concrete Collar	EA	1
19.	Curb Inlet	EA	3
20.	Curb Inlet w/ Manhole	EA	2
21.	Storm Sewer Junction Box (4'x4')	EA	1
22.	18" RCP Flared End Section	EA	1
23.	15" PVC Pipe, SDR 35	LF	68
24.	18" RCP, Class III	LF	204
25.	24" Round Equivalent (RE) RCP, Class III	LF	6
26.	Temporary Traffic Control Measures	LS	1
27.	Reset Sign and Post	EA	2
28.	6" Top Soil	SY	2350
29.	Silt Fence, High Porosity	LF	100
30.	Curb Inlet Sediment Filter	EA	1
31.	Hydro-Seeding, Fertilizer and Mulch	ACRE	0.50

GROUP B - 18TH STREET (EAST)

ITEM	BID ITEM	UNIT	QUANTITY
1.	Mobilization	LS	1
2.	Bonding and Insurance	LS	1
3.	Clearing and Grubbing	LS	1
4.	Remove Tree	EA	6
5.	Remove Pavement	SY	100
6.	Remove Concrete Sidewalk	SF	372
7.	Remove Storm Sewer Pipe	LF	55
8.	Adjust Valve Box to Grade	EA	3
9.	Earthwork, Establish Quantity	CY	250
10.	7" Concrete Pavement	SY	1535
11.	6" Concrete Driveway	SY	237
12.	4" Concrete Sidewalk	SF	2448
13.	Modular Block Retaining Wall	SF	65
14.	Detectable Warning Panels	SF	48
15.	Subgrade Preparation	SY	1535
16.	Gravel Surface Course	TON	2
17.	Concrete Header	EA	4
18.	Temporary Traffic Control Measures	LS	1
19.	Reset Sign and Post	EA	5
20.	6" Top Soil	SY	1535
21.	Silt Fence, High Porosity	LF	100
22.	Curb Inlet Sediment Filter	EA	1
23.	Hydro-Seeding, Fertilizer and Mulch	ACRE	0.25

GROUP C - LINDEN AVE

ITEM	BID ITEM	UNIT	QUANTITY
1.	Mobilization	LS	1
2.	Bonding and Insurance	LS	1
3.	Clearing and Grubbing	LS	1
4.	Remove Tree	EA	4
5.	Remove Pavement	SY	18
6.	Remove Storm Sewer Structure (<6' deep)	EA	1
7.	Remove Storm Sewer Pipe	LF	5
8.	Earthwork, Establish Quantity	CY	121
9.	7" Concrete Pavement	SY	939
10.	4" Concrete Sidewalk	SF	1335
11.	Modular Block Retaining Wall	SF	10
12.	Subgrade Preparation	SY	939
13.	Temporary Traffic Control Measures	LS	1
14.	6" Top Soil	SY	939
15.	Silt Fence, High Porosity	LF	100

GROUP C - LINDEN AVE (CONT.)

ITEM	BID ITEM	UNIT	QUANTITY
16.	Curb Inlet Sediment Filter	EA	1
17.	Hydro-Seeding, Fertilizer and Mulch	ACRE	0.25

GROUP D - 21ST STREET

ITEM	BID ITEM	UNIT	QUANTITY
1.	Mobilization	LS	1
2.	Bonding and Insurance	LS	1
3.	Clearing and Grubbing	LS	1
4.	Remove Tree	EA	4
5.	Remove Pavement	SY	373
6.	Remove Concrete Sidewalk	SF	2317
7.	Adjust Valve Box to Grade	EA	4
8.	Earthwork, Establish Quantity	CY	69
9.	7" Concrete Pavement	SY	1110
10.	6" Concrete Driveway	SY	50
11.	4" Concrete Sidewalk	SF	3305
12.	Detectable Warning Panels	SF	104
13.	Subgrade Preparation	SY	1110
14.	Gravel Surface Course	TON	2
15.	Concrete Header	EA	2
16.	Trench Drain	EA	1
17.	Temporary Traffic Control Measures	LS	1
18.	Reset Sign and Post	EA	1
19.	6" Top Soil	SY	1110
20.	Silt Fence, High Porosity	LF	100
21.	Hydro-Seeding, Fertilizer and Mulch	ACRE	0.25

GROUP E - KINGWOOD AVE

ITEM	BID ITEM	UNIT	QUANTITY
1.	Mobilization	LS	1
2.	Bonding and Insurance	LS	1
3.	Clearing and Grubbing	LS	1
4.	Remove Tree	EA	1
6.	Remove Concrete Sidewalk	SF	23
7.	Adjust Valve Box to Grade	EA	2
8.	Earthwork, Establish Quantity	CY	42
9.	7" Concrete Pavement	SY	924
10.	4" Concrete Sidewalk	SF	1745
11.	Detectable Warning Panels	SF	40
12.	Subgrade Preparation	SY	1745
13.	Temporary Traffic Control Measures	LS	1
14.	6" Top Soil	SY	924
15.	Silt Fence, High Porosity	LF	300
16.	Curb Inlet Sediment Filter	EA	2
17.	Hydro-Seeding, Fertilizer and Mulch	ACRE	0.25

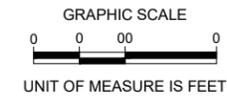
GROUP F - OAK AVE (NORTH)

ITEM	BID ITEM	UNIT	QUANTITY
1.	Mobilization	LS	1
2.	Bonding and Insurance	LS	1
3.	Clearing and Grubbing	LS	1
4.	Remove Tree	EA	4
5.	Adjust Valve Box to Grade	EA	3
6.	Earthwork, Establish Quantity	CY	97
7.	7" Concrete Pavement	SY	1265
8.	6" Concrete Driveway	SY	42
9.	4" Concrete Sidewalk	SF	4161
10.	Detectable Warning Panels	SF	80
11.	Subgrade Preparation	SY	1265
12.	Gravel Surface Course	TONS	1
13.	Concrete Header	EA	1
14.	Adjust Hydrant to Grade	EA	1
15.	Temporary Traffic Control Measures	LS	1
16.	Reset Sign and Post	EA	2
17.	6" Top Soil	SY	1265
18.	Silt Fence, High Porosity	LF	400
19.	Curb Inlet Sediment Filter	EA	3
20.	Hydro-Seeding, Fertilizer and Mulch	ACRE	0.25

FOR INFORMATION ONLY



Know what's below.
Call before you dig.



GROUP G - 23RD STREET (WEST)

ITEM	BID ITEM	UNIT	QUANTITY
1.	Mobilization	LS	1
2.	Bonding and Insurance	LS	1
3.	Clearing and Grubbing	LS	1
4.	Remove Tree	EA	3
5.	Remove Storm Sewer Structure (< 6' deep)	EA	1
6.	Remove Storm Sewer Pipe	LF	15
7.	Earthwork, Establish Quantity	CY	399
8.	7" Concrete Pavement	SY	971
9.	6" Concrete Driveway	SY	73
10.	4" Concrete Sidewalk	SF	2295
11.	Detectable Warning Panels	SF	48
12.	Subgrade Preparation	SY	971
13.	Gravel Surface Course	TON	1
14.	Concrete Header	EA	1
15.	Curb Inlet	EA	1
16.	Curb Inlet w/ Manhole	EA	1
17.	15" PVC Pipe, SDR 35	LF	32
18.	18" RCP, Class III	LF	159
19.	Connect to Existing Storm Sewer Structure	EA	1
20.	Temporary Traffic Control Measures	LS	1
21.	6" Top Soil	SY	971
22.	Silt Fence, High Porosity	LF	100
23.	Curb Inlet Sediment Filter	EA	2
24.	Hydro-Seeding, Fertilizer and Mulch	ACRE	0.25

GROUP H - 23RD STREET (EAST)

ITEM	BID ITEM	UNIT	QUANTITY
1.	Mobilization	LS	1
2.	Bonding and Insurance	LS	1
3.	Clearing and Grubbing	LS	1
4.	Remove Tree	EA	7
5.	Remove Pavement	SY	104
6.	Remove Concrete Sidewalk	SF	234
7.	Adjust Valve Box to Grade	EA	2
8.	Earthwork, Establish Quantity	CY	256
9.	7" Concrete Pavement	SY	1103
10.	6" Concrete Driveway	SY	88
11.	4" Concrete Sidewalk	SF	2984
12.	Detectable Warning Panels	SF	88
13.	Subgrade Preparation	SY	1103
14.	Gravel Surface Course	TON	2
15.	Concrete Header	EA	2
16.	Curb Inlet	EA	1
17.	Curb Inlet w/ Manhole	EA	1
18.	15" PVC Pipe, SDR 35	LF	32
19.	18" RCP, Class III	LF	164
20.	Connect to Existing Storm Sewer Structure	EA	1
21.	Temporary Traffic Control Measures	LS	1
22.	6" Top Soil	SY	1103
23.	Silt Fence, High Porosity	LF	200
24.	Curb Inlet Sediment Filter	EA	2
25.	Hydro-Seeding, Fertilizer and Mulch	ACRE	0.25

EARTHWORK

SITE	CUT	FILL
OAK AVE (SOUTH) & 18TH ST (WEST)	732	23
18TH ST (EAST)	226	33
LINDEN AVE	118	125
21ST ST	136	66
KINGWOOD AVE	42	192
OAK AVE (NORTH)	80	184
23RD ST (WEST)	493	60
23RD ST (EAST)	251	21

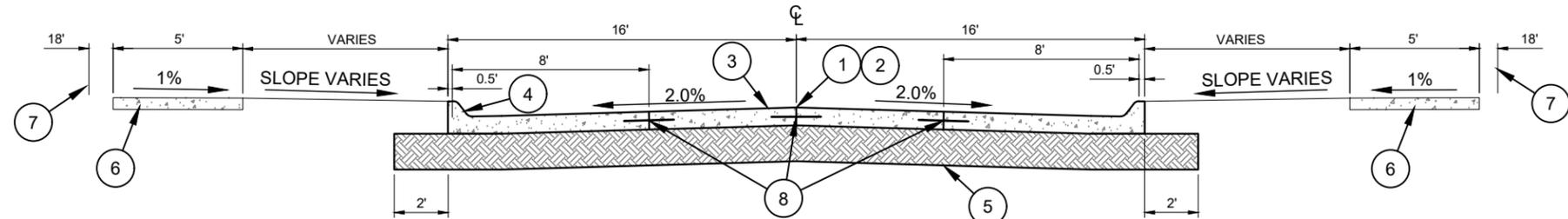
2022
CRETE STREET IMPROVEMENTS
JEO PROJECT NO. 220169.00
SUMMARY OF QUANTITIES & GENERAL NOTES

PRELIMINARY
NOT FOR CONSTRUCTION
95%
DATE:
11/29/2022
PRELIMINARY

PROJECT NO. 220169.00
 DATE 11/29/2022
 DRAWN BY JDP
 FILE NAME S-220169.00_GEN.dwg
 FIELD BOOK CRETE #4
 FIELD CREW DF
 SURVEY FILE NO. SV-220169.00
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 70 PERCENT REVIEW INTLS DATE 70% INI
 95 PERCENT REVIEW INTLS DATE 95% INI
 REVISIONS

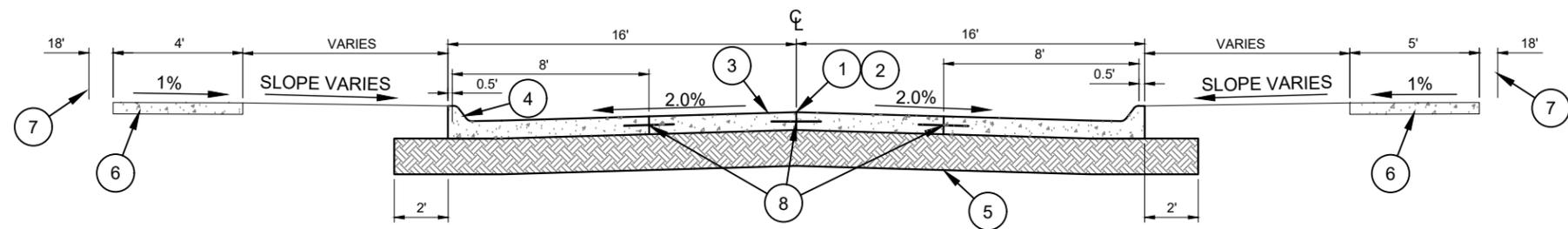
LEGEND:

- ① PROFILE GRADE LINE
- ② CENTER LINE
- ③ 7" P.C.C. PAVEMENT
- ④ 6" INTEGRAL CURB AND GUTTER
- ⑤ 12" COMPACTED SUBGRADE
- ⑥ 4" CONCRETE SIDEWALK
- ⑦ PUBLIC RIGHT-OF-WAY
- ⑧ LONGITUDINAL BARS
- ⑨ TIE BAR (#4 DIA. x 30" BARS @ 48" C/C)



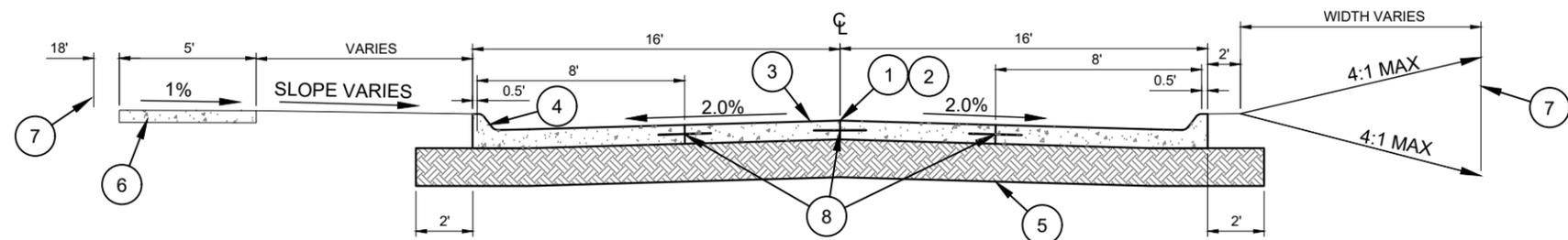
1 TYPICAL SECTION - 5' SIDEWALK
SCALE: NOT TO SCALE

18TH STREET - WEST (13+40 TO 16+25)
18TH STREET - EAST (51+50 TO 53+66)
21ST STREET (STA. 62+50 TO 63+75)



2 TYPICAL SECTION - 4' SIDEWALK LT
SCALE: NOT TO SCALE

OAK AVE - NORTH (20+76 TO 23+37)
23RD STREET - WEST (70+35 TO 72+96)
23RD STREET - EAST (73+68 TO 76+00)



3 TYPICAL SECTION - NO SIDEWALK RT
SCALE: NOT TO SCALE

OAK AVE - SOUTH (11+25 TO 13+40)
LINDEN AVE (31+75 TO 33+80)

2022
CRETE STREET IMPROVEMENTS
JEO PROJECT NO. 220169.00

TYPICAL SECTIONS

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11/29/2022
PRELIMINARY

PROJECT NO.	220169.00
DATE	11/29/2022
DRAWN BY	JDP
FILE NAME	S-220169.00_GEN.dwg
FIELD BOOK	CRETE #4
FIELD CREW	DF
SURVEY FILE NO.	SV-220169.00
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DATE	70% DATE
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DATE	95% DATE
REVISIONS	

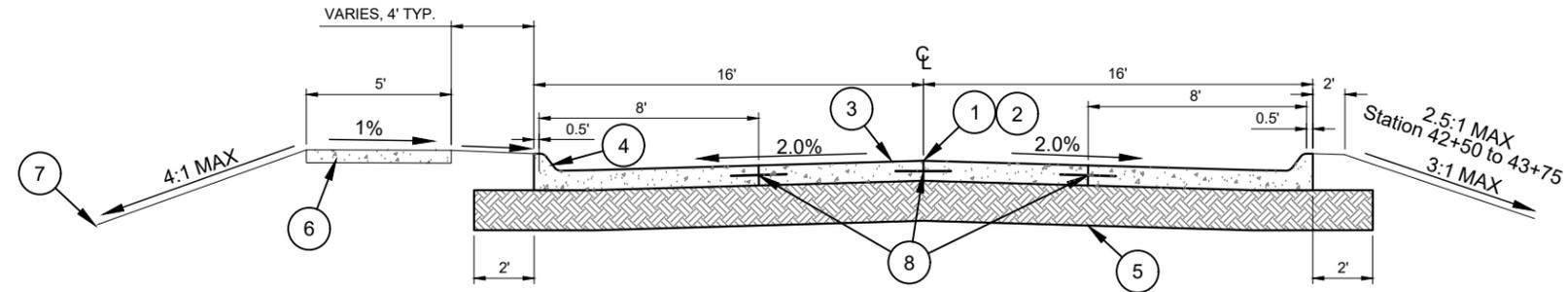


Know what's below.
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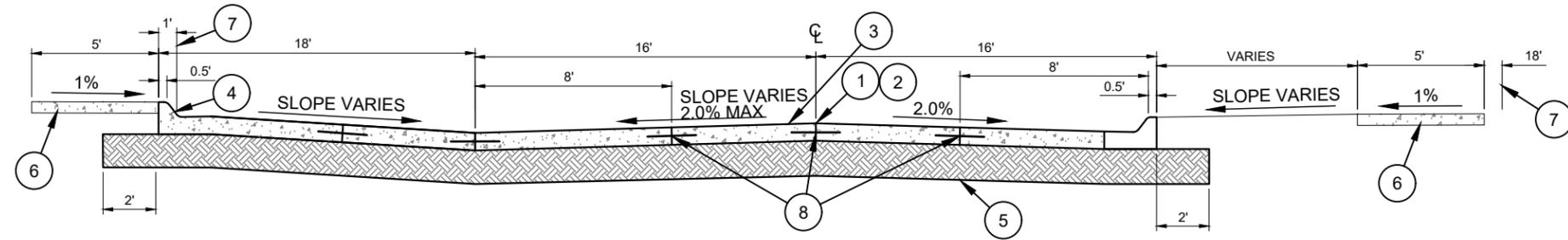
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LEGEND:

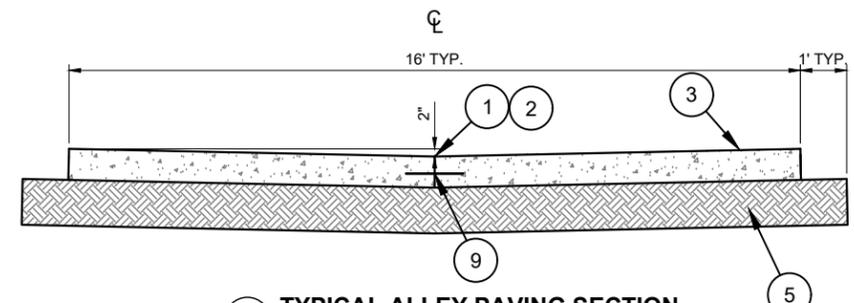
- ① PROFILE GRADE LINE
- ② CENTER LINE
- ③ 7" P.C.C. PAVEMENT
- ④ 6" INTEGRAL CURB AND GUTTER
- ⑤ 12" COMPACTED SUBGRADE
- ⑥ 4" CONCRETE SIDEWALK
- ⑦ PUBLIC RIGHT-OF-WAY
- ⑧ LONGITUDINAL BARS
- ⑨ TIE BAR (#4 DIA. x 30" BARS @ 48" C/C)



③ **TYPICAL SECTION - KINGWOOD**
 SCALE: NOT TO SCALE
 KINGWOOD AVE (41+03 TO 43+62)



④ **TYPICAL SECTION - PARKING LT.**
 SCALE: NOT TO SCALE
 21ST STREET (STA. 61+00 TO STA. 62+50)



⑤ **TYPICAL ALLEY PAVING SECTION**
 SCALE: 1/2" = 1'



2022
 CRETE STREET IMPROVEMENTS
 JEO PROJECT NO. 220169.00

TYPICAL SECTIONS

PRELIMINARY PRELIMINARY
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 DATE: 11/29/2022

PROJECT NO.	220169.00
DATE	11/29/2022
DRAWN BY	JDP
FILE NAME	S-220169.00_GEN.dwg
FIELD BOOK	CRETE #4
FIELD CREW	DF
SURVEY FILE NO.	SV-220169.00
PLAN IN HAND	SV-220169.00
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95 PERCENT REVIEW	95% INI
INITIALS	95% DATE
REVISIONS	



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4" CONCRETE SIDEWALK		
STATION TO STATION	SIDE	SQ. FT.
10+53 TO 12+44	LT.	988
13+35 TO 13+40	RT.	82
12+52 TO 13+40	LT.	502

6" CONCRETE DRIVEWAY		
STATION: WIDTH (FT)	SIDE	SQ. YDS.
12+47: 8'	LT.	18

REMOVE CONCRETE SIDEWALK		
STATION TO STATION	SIDE	SQ. FT.
10+69 TO 10+73	LT.	113
10+69 TO 10+73	RT.	31
12+71 TO 12+75	LT.	17
13+00 TO 13+04	RT.	48

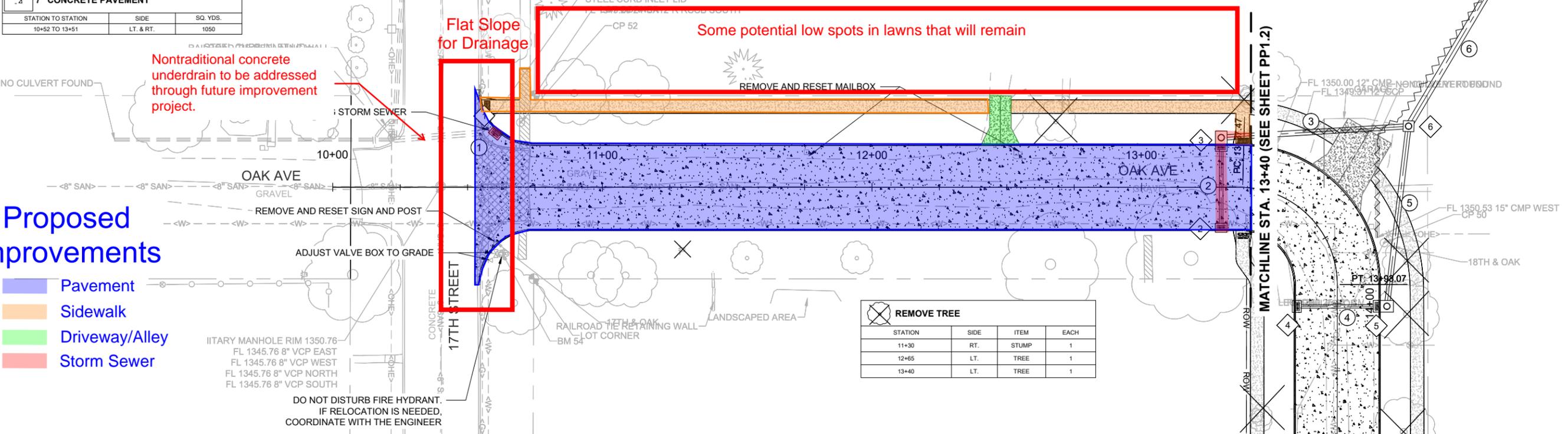
REMOVE STORM SEWER STRUCTURE			
STATION	SIDE	TYPE	EACH
10+22	LT.	INLET	1
10+55	LT.	INLET	1

REMOVE CONCRETE PAVEMENT		
STATION TO STATION	SIDE	SQ. YD.
10+52 TO 10+73	LT. & RT.	78

7" CONCRETE PAVEMENT		
STATION TO STATION	SIDE	SQ. YDS.
10+52 TO 13+51	LT. & RT.	1050

Proposed Improvements

- Pavement
- Sidewalk
- Driveway/Alley
- Storm Sewer



Nontraditional concrete underdrain to be addressed through future improvement project.

Flat Slope for Drainage

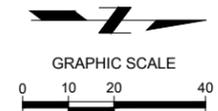
Some potential low spots in lawns that will remain

REMOVE AND RESET MAILBOX

IIITARY MANHOLE RIM 1350.76
FL 1345.76 8" VCP EAST
FL 1345.76 8" VCP WEST
FL 1345.76 8" VCP NORTH
FL 1345.76 8" VCP SOUTH

DO NOT DISTURB FIRE HYDRANT.
IF RELOCATION IS NEEDED,
COORDINATE WITH THE ENGINEER

REMOVE TREE			
STATION	SIDE	ITEM	EACH
11+30	RT.	STUMP	1
12+65	LT.	TREE	1
13+40	LT.	TREE	1



UNIT OF MEASURE IS FEET

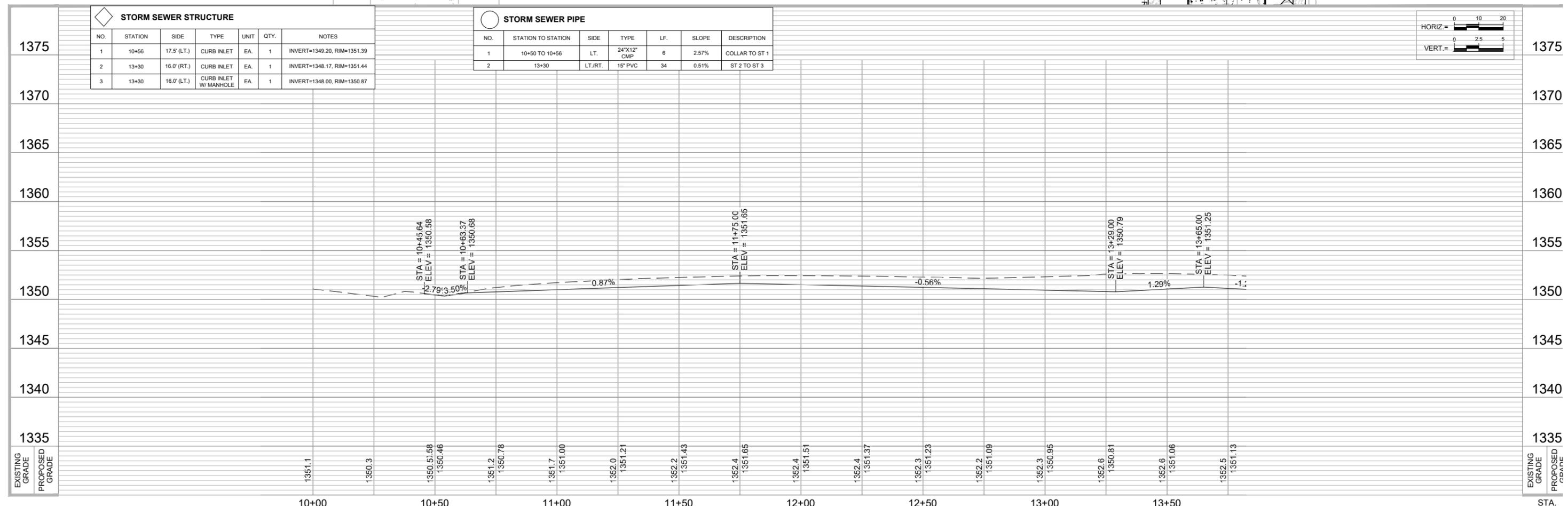
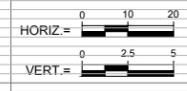


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STORM SEWER STRUCTURE						
NO.	STATION	SIDE	TYPE	UNIT	QTY.	NOTES
1	10+56	17.5' (LT.)	CURB INLET	EA.	1	INVERT=1349.20, RIM=1351.39
2	13+30	16.0' (RT.)	CURB INLET	EA.	1	INVERT=1348.17, RIM=1351.44
3	13+30	16.0' (LT.)	CURB INLET W/ MANHOLE	EA.	1	INVERT=1348.00, RIM=1350.87

STORM SEWER PIPE						
NO.	STATION TO STATION	SIDE	TYPE	LF.	SLOPE	DESCRIPTION
1	10+50 TO 10+56	LT.	24"X12" CMP	6	2.57%	COLLAR TO ST 1
2	13+30	LT./RT.	15" PVC	34	0.51%	ST 2 TO ST 3



7" CONCRETE PAVEMENT		
STATION TO STATION	SIDE	SQ. YDS.
13+40 TO 16+80	LT. & RT.	1235
15+14 TO 15+30	LT.	32
15+14 TO 15+30	RT.	33

6" CONCRETE DRIVEWAY		
STATION: WIDTH (FT.)	SIDE	SQ. YDS.
13+65, 19'	LT.	50
15+04, 14'	LT.	29
15+43, 10'	LT.	22

4" CONCRETE SIDEWALK		
STATION TO STATION	SIDE	SQ. FT.
13+40 TO 13+58	LT.	171
13+40 TO 15+18	RT.	656
13+69 TO 14+97	LT.	746
15+11 TO 15+15	LT.	20
15+31 TO 15+37	LT.	30
15+31 TO 16+78	RT.	818
15+47 TO 16+78	LT.	738

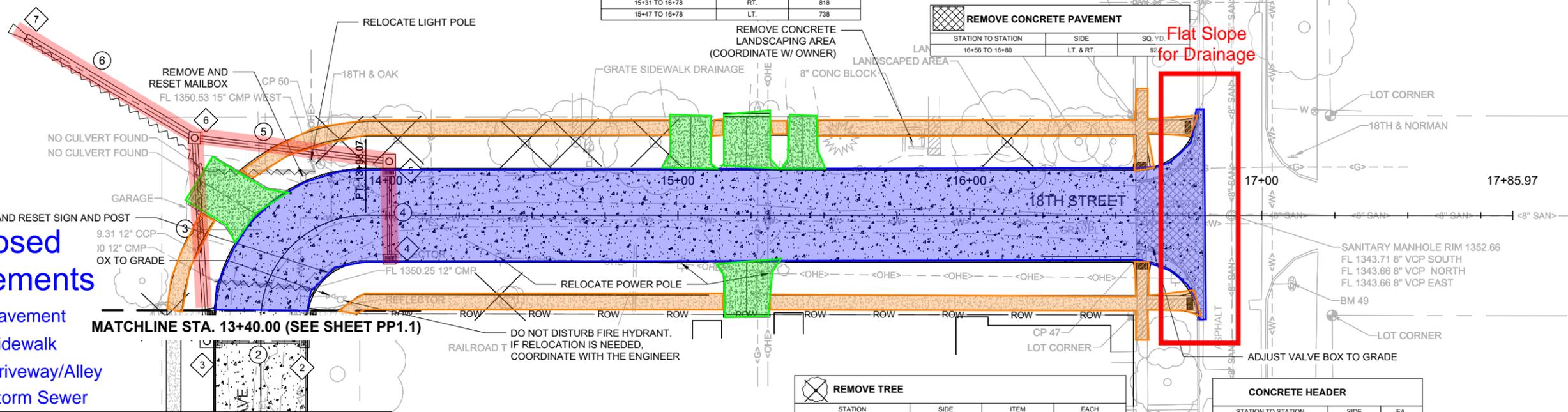
REMOVE CONCRETE SIDEWALK		
STATION TO STATION	SIDE	SQ. FT.
16+56 TO 16+78	LT.	196
16+56 TO 16+78	RT.	169
14+63 TO 14+71	LT.	36
15+85 TO 15+90	LT.	53

REMOVE STORM SEWER PIPE			
STATION TO STATION	SIDE	TYPE	LF
13+46 TO 13+55	LT. & RT.	CMP	33
13+50 TO 13+61	LT.	CCP	30
13+63 TO 13+81	LT.	CMP	40
13+66 TO 13+62	LT.	CMP	70

REMOVE CONCRETE PAVEMENT		
STATION TO STATION	SIDE	SQ. YD.
16+56 TO 16+80	LT. & RT.	92

Proposed Improvements

- Pavement
- Sidewalk
- Driveway/Alley
- Storm Sewer

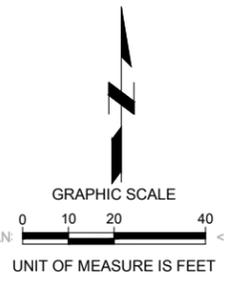
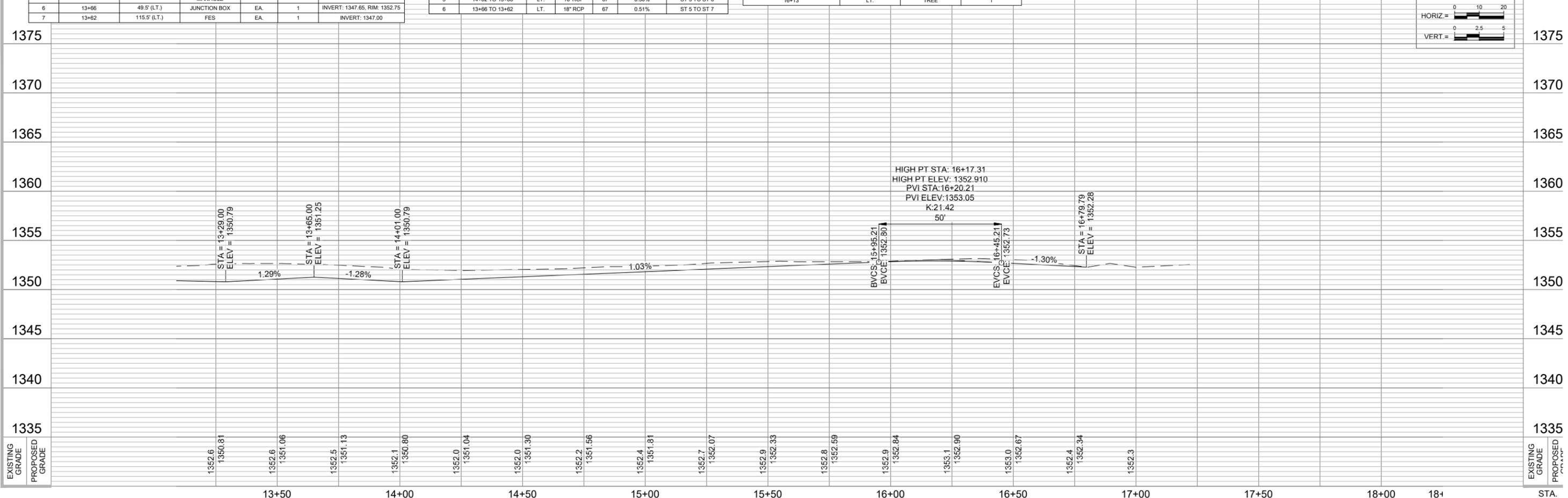


STORM SEWER STRUCTURE						
NO.	STATION	SIDE	TYPE	UNIT	QTY.	NOTES
4	14+02	16.0' (RT.)	CURB INLET	EA.	1	INVERT: 1348.16, RIM: 1351.37
5	14+02	16.0' (LT.)	CURB INLET W/ MANHOLE	EA.	1	INVERT: 1347.99, RIM: 1351.20
6	13+66	49.5' (LT.)	JUNCTION BOX	EA.	1	INVERT: 1347.65, RIM: 1352.75
7	13+62	115.5' (LT.)	FES	EA.	1	INVERT: 1347.00

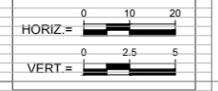
STORM SEWER PIPE							
NO.	STATION TO STATION	SIDE	TYPE	LF.	SLOPE	DESCRIPTION	
3	13+30 TO 13+66	LT.	18" RCP	70	0.51%	ST 3 TO ST 6	
4	14+02	LT./RT.	15" PVC	34	0.50%	ST 4 TO ST 5	
5	14+02 TO 13+66	LT.	18" RCP	67	0.50%	ST 5 TO ST 6	
6	13+66 TO 13+62	LT.	18" RCP	67	0.51%	ST 5 TO ST 7	

REMOVE TREE			
STATION	SIDE	ITEM	EACH
13+90	LT.	TREE	1
14+04	LT.	TREE	1
14+42	RT.	TREE	1
14+47	LT.	TREE	1
14+65	LT.	TREE	1
14+92	LT.	TREE	1
16+13	LT.	TREE	1

CONCRETE HEADER		
STATION TO STATION	SIDE	EA.
15+14 TO 15+30	LT.	1
15+14 TO 15+30	RT.	1



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7" CONCRETE PAVEMENT		
STATION	SIDE	SQ. YDS.
50+81 TO 52+40	LT. & RT.	1467
52+23 TO 52+45	LT.	34
52+23 TO 52+45	RT.	34

6" CONCRETE DRIVEWAY		
STATION, WIDTH (FT.)	SIDE	SQ. YDS.
51+70, 24'	RT.	52
52+04, 24'	RT.	51
52+65, 24'	RT.	51
52+57, 16'	LT.	34

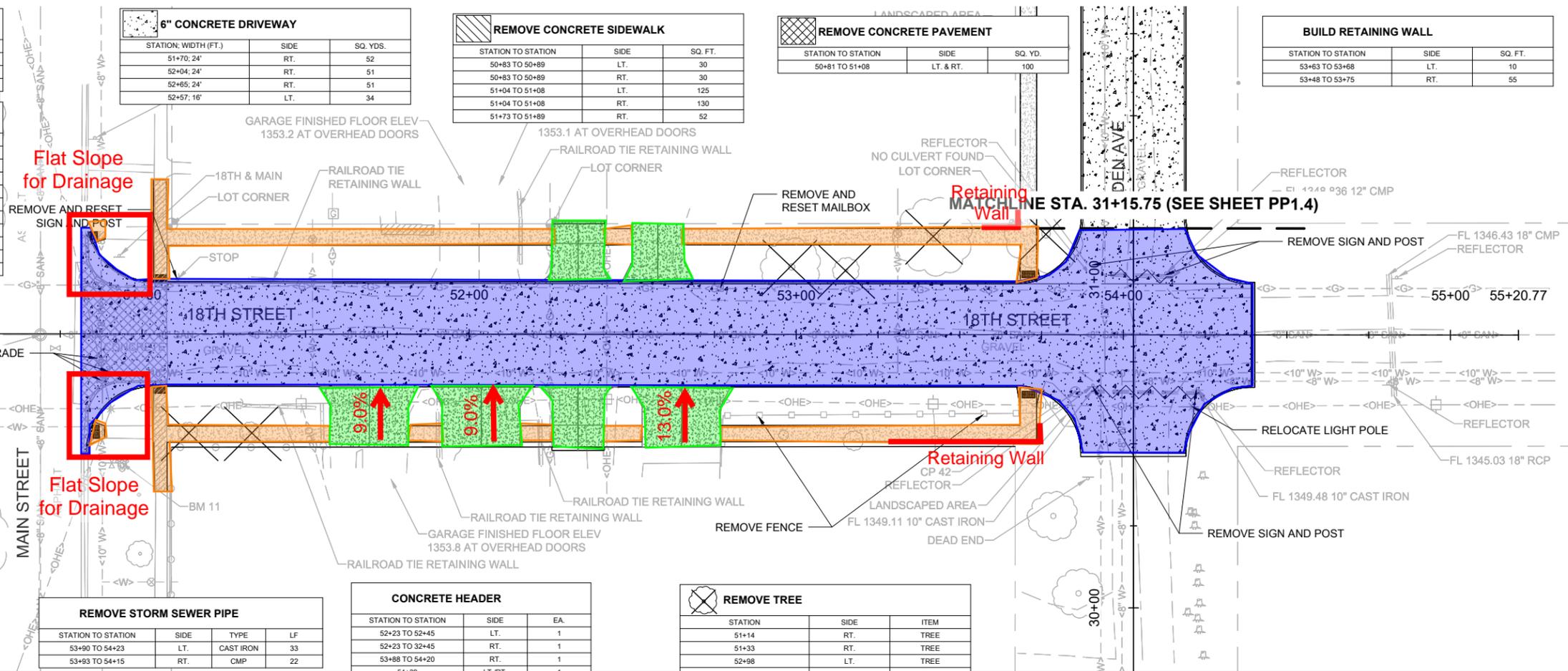
REMOVE CONCRETE SIDEWALK		
STATION TO STATION	SIDE	SQ. FT.
50+83 TO 50+89	LT.	30
50+83 TO 50+89	RT.	30
51+04 TO 51+08	LT.	125
51+04 TO 51+08	RT.	130
51+73 TO 51+89	RT.	52

REMOVE CONCRETE PAVEMENT		
STATION TO STATION	SIDE	SQ. YD.
50+81 TO 51+08	LT. & RT.	100

BUILD RETAINING WALL		
STATION TO STATION	SIDE	SQ. FT.
53+63 TO 53+68	LT.	10
53+48 TO 53+75	RT.	55

Proposed Improvements

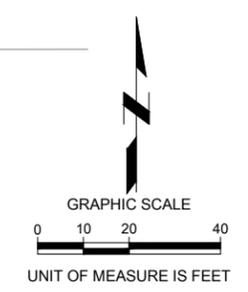
- Pavement
- Sidewalk
- Driveway/Alley
- Storm Sewer



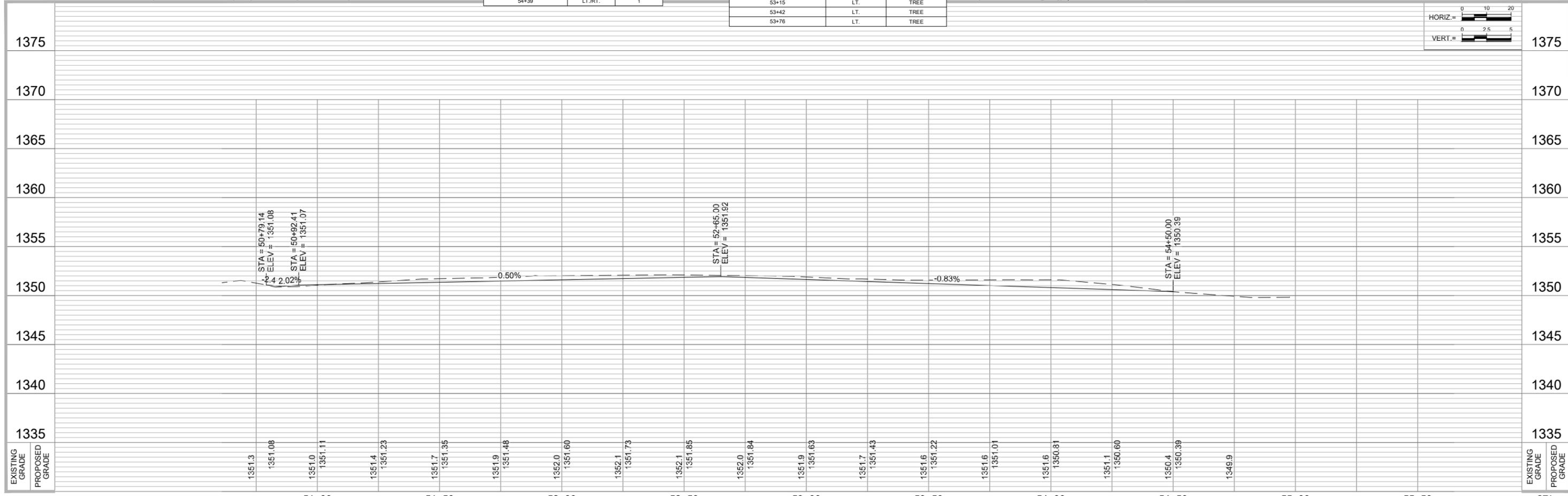
REMOVE STORM SEWER PIPE			
STATION TO STATION	SIDE	TYPE	LF
53+90 TO 54+23	LT.	CAST IRON	33
53+93 TO 54+15	RT.	CMP	22

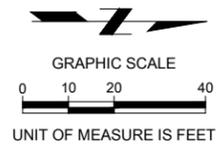
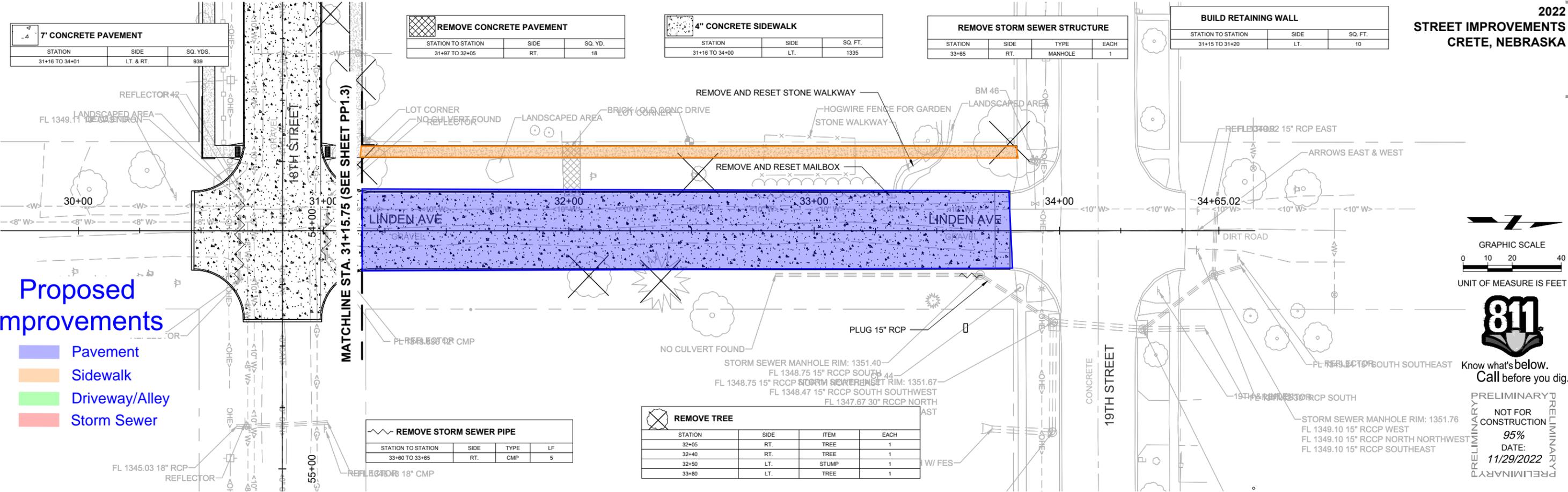
CONCRETE HEADER			
STATION TO STATION	SIDE	EA.	
52+23 TO 52+45	LT.	1	
52+23 TO 32+45	RT.	1	
53+88 TO 54+20	RT.	1	
54+39	LT./RT.	1	

REMOVE TREE		
STATION	SIDE	ITEM
51+14	RT.	TREE
51+33	RT.	TREE
52+98	LT.	TREE
53+15	LT.	TREE
53+42	LT.	TREE
53+76	LT.	TREE



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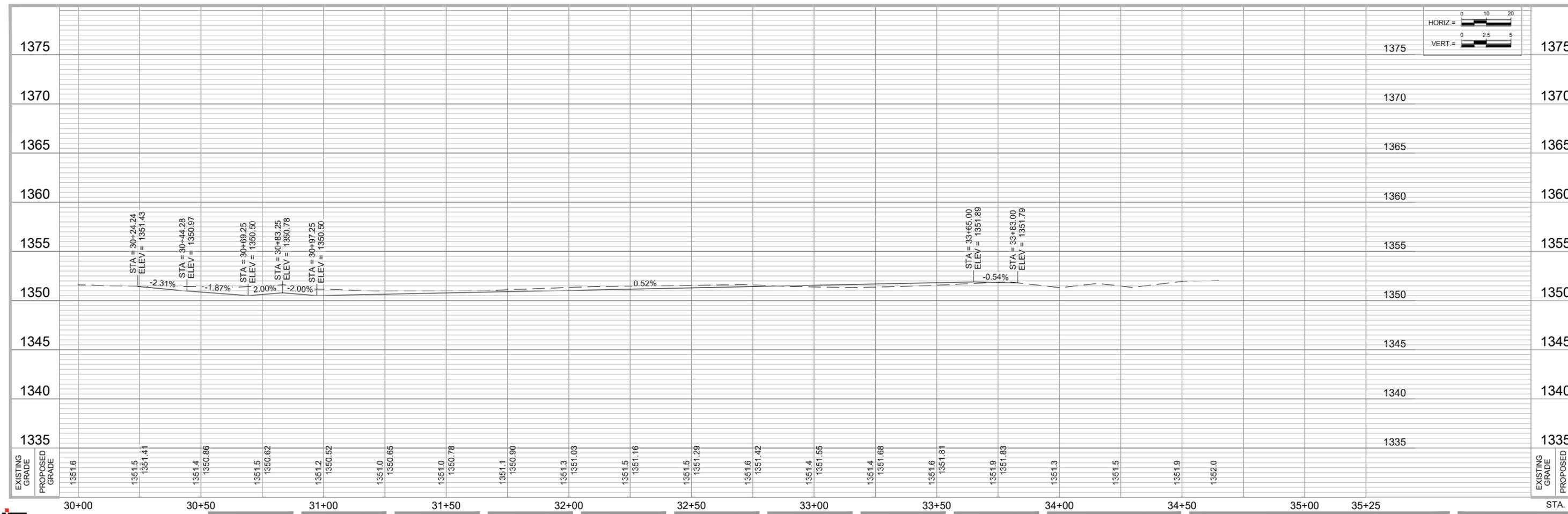




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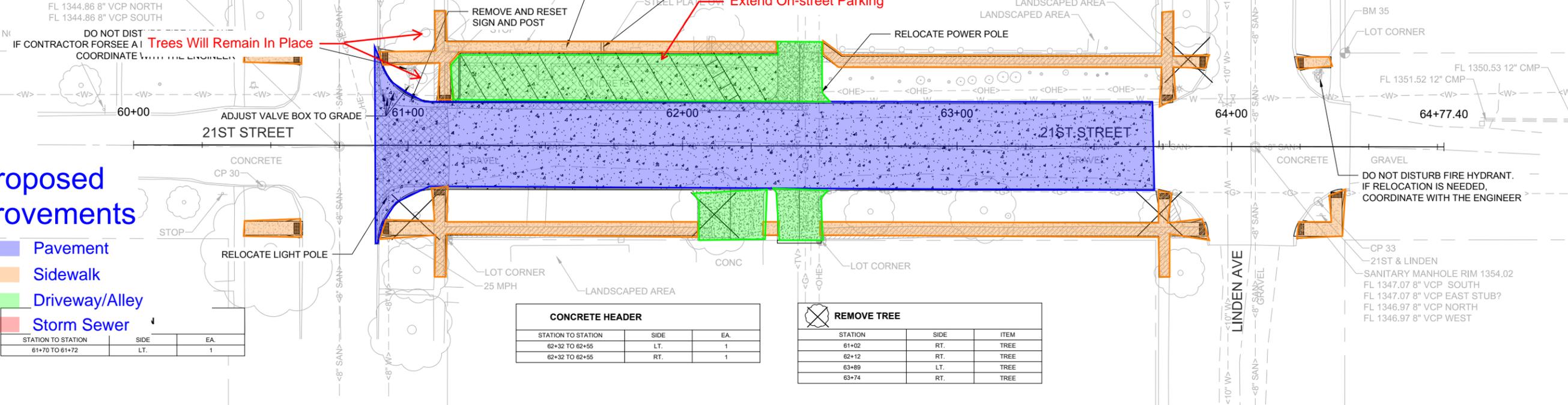


7" CONCRETE PAVEMENT		
STATION	SIDE	SQ. YDS.
60+87 TO 63+72	LT. & RT.	1035
62+32 TO 62+55	LT.	41
62+32 TO 62+55	RT.	34

4" CONCRETE SIDEWALK		
STATION	SIDE	SQ. FEET
60+40 TO 60+61	LT.	83
60+40 TO 60+61	RT.	106
60+87 TO 62+35	LT.	713
60+87 TO 62+17	RT.	688
62+31 TO 62+35	RT.	26
62+50 TO 63+92	LT.	688
62+50 TO 63+92	RT.	809
64+22 TO 64+36	LT.	52
64+22 TO 64+40	RT.	140

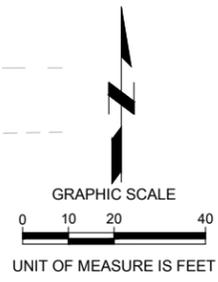
REMOVE CONCRETE SIDEWALK		
STATION TO STATION	SIDE	SQ. FT.
61+09 TO 62+11	RT.	502
61+09 TO 62+11	LT.	585
62+46 TO 63+80	LT.	587
62+51 TO 63+91	RT.	643

REMOVE CONCRETE PAVEMENT		
STATION TO STATION	SIDE	SQ. YD.
60+87 TO 61+15	LT. & RT.	100
61+13 TO 62+44	LT.	270
62+01 TO 62+30	RT.	3



Proposed Improvements

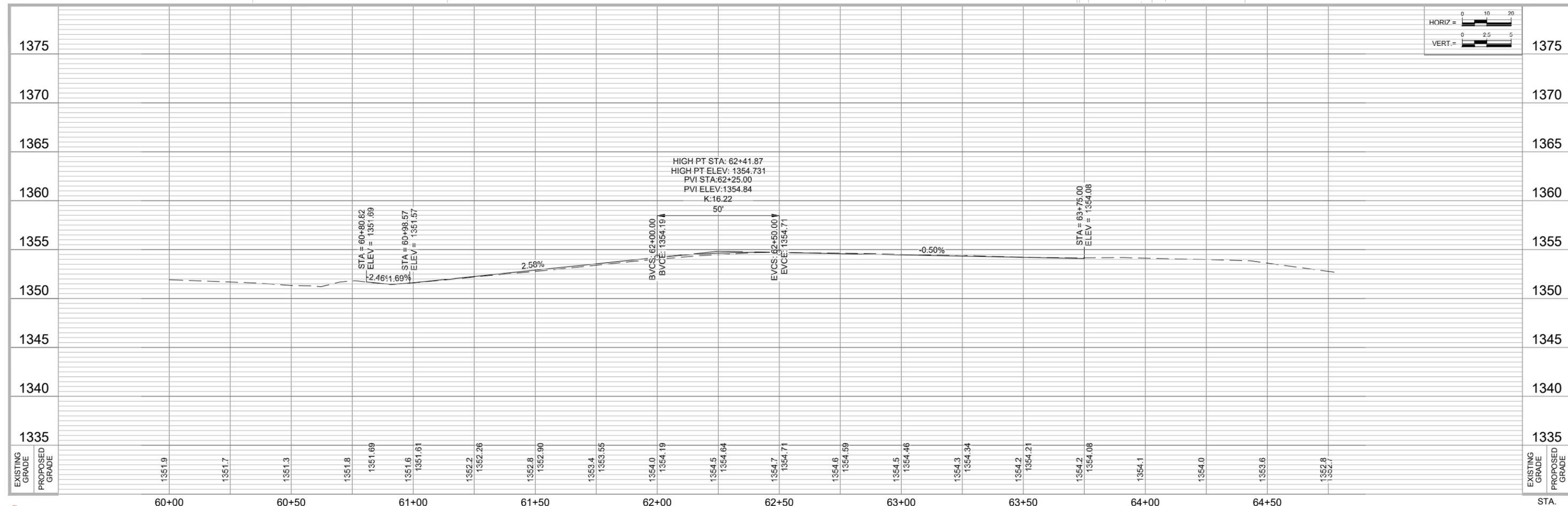
- Pavement
- Sidewalk
- Driveway/Alley
- Storm Sewer



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CONCRETE HEADER		
STATION TO STATION	SIDE	EA.
62+32 TO 62+55	LT.	1
62+32 TO 62+55	RT.	1

REMOVE TREE		
STATION	SIDE	ITEM
61+02	RT.	TREE
62+12	RT.	TREE
63+89	LT.	TREE
63+74	RT.	TREE



7" CONCRETE PAVEMENT		
STATION	SIDE	SQ. YDS.
41+03 TO 43+84	LT. & RT.	924

4" CONCRETE SIDEWALK		
STATION	SIDE	SQ. FEET
40+81 TO 43+81	LT.	1570
40+93 TO 40+98	RT.	86
44+12 TO 44+30	LT.	89

REMOVE CONCRETE SIDEWALK		
STATION TO STATION	SIDE	SQ. FT.
40+93 TO 41+03	RT.	23

REMOVE TREE		
STATION	SIDE	ITEM
43+12	RT.	TREE

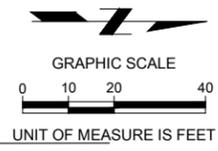
Proposed Improvements

- Pavement
- Sidewalk
- Driveway/Alley
- Storm Sewer

STORM SEWER INLET RIM: 1353.53
FL 1350.63 30" RCCP NORTHWEST
FL 1350.63 30" RCCP EAST

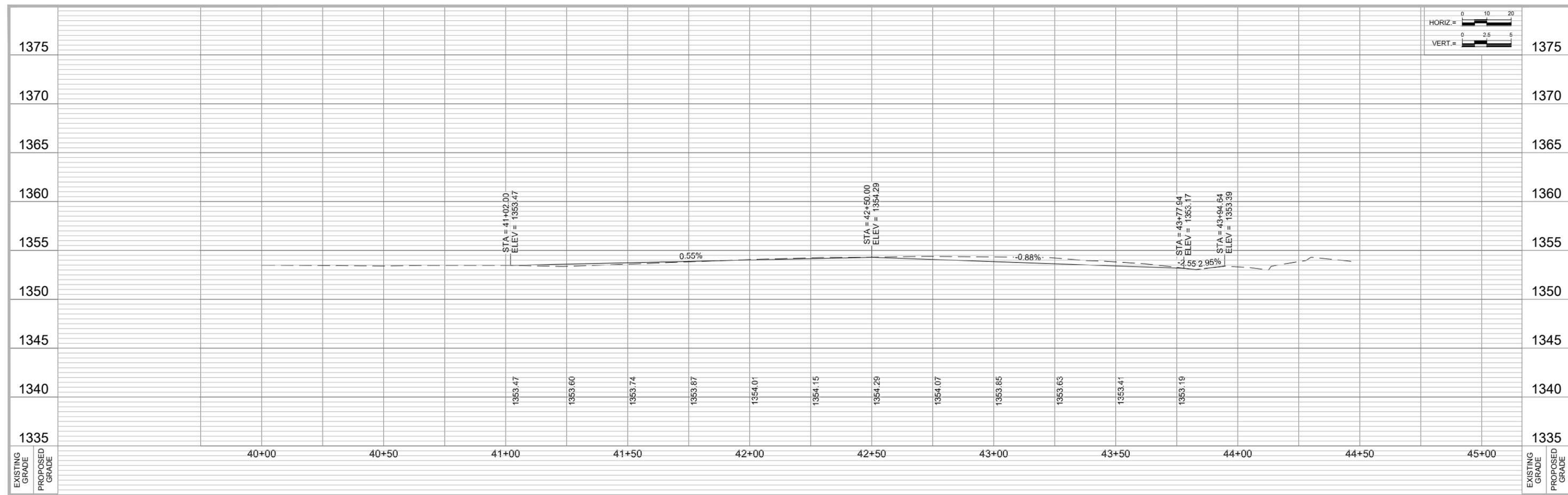
SANITARY MANHOLE RIM 1353.30
FL 1348.10 8" VCP SOUTH
FL 1347.30 8" VCP NORTH
CHAIN LINK FENCE 1346.90 8" VCP EAST
POSTS ONLY FL 1346.90 8" VCP WEST

DO NOT DISTURB FIRE HYDRANT.
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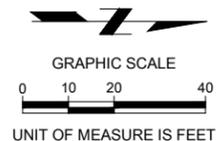
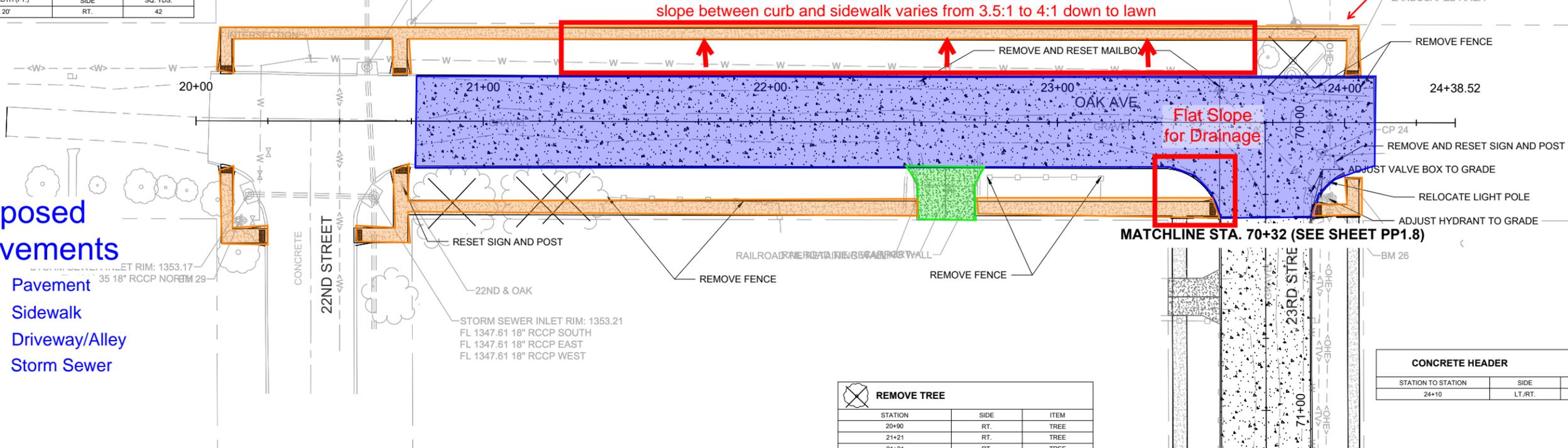
7" CONCRETE PAVEMENT		
STATION	SIDE	SQ. YDS.
20+76 TO 24+10	LT. & RT.	1265

6" CONCRETE DRIVEWAY		
STATION WIDTH (FT.)	SIDE	SQ. YDS.
22+61, 20'	RT.	42

4" CONCRETE SIDEWALK		
STATION	SIDE	SQ. FEET
20+13 TO 20+25	RT.	168
20+54 TO 20+51	RT.	1704
20+13 TO 24+05	LT.	1750
22+71 TO 23+57	RT.	425
23+88 TO 24+05	RT.	114

Proposed Improvements

- Pavement
- Sidewalk
- Driveway/Alley
- Storm Sewer

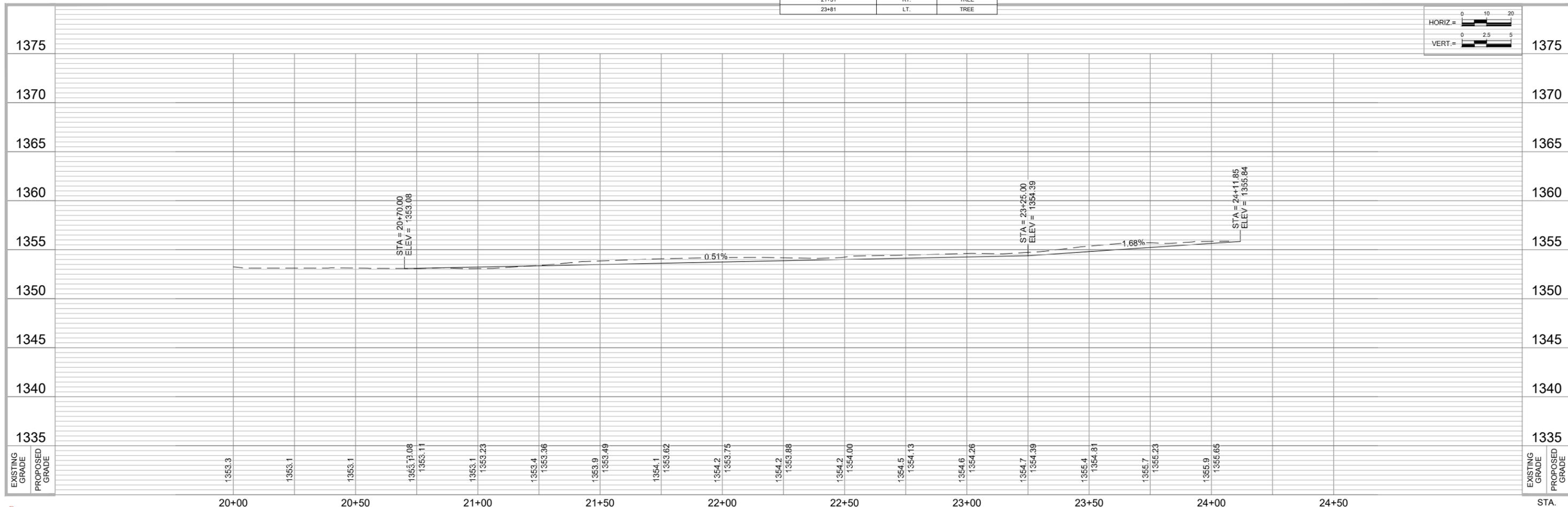


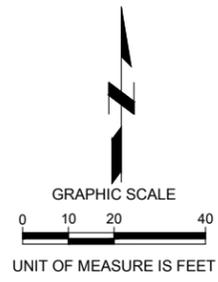
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CONCRETE HEADER		
STATION TO STATION	SIDE	EA
24+10	LT./RT.	1

REMOVE TREE		
STATION	SIDE	ITEM
20+90	RT.	TREE
21+21	RT.	TREE
21+31	RT.	TREE
23+81	LT.	TREE





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7" CONCRETE PAVEMENT		
STATION	SIDE	SQ. YDS.
70+32 TO 72+96	LT. & RT.	937
71+54 TO 71+80	RT.	34

6" CONCRETE DRIVEWAY		
STATION: WIDTH (FT.)	SIDE	SQ. YDS.
70+61: 13'	RT.	29
71+91: 21'	LT.	44

REMOVE STORM SEWER STRUCTURE			
STATION	SIDE	TYPE	EACH
72+95	LT.	12" F.E.S.	1

CONCRETE HEADER		
STATION TO STATION	SIDE	EA.
71+58 TO 71+74	RT.	1

REMOVE STORM SEWER PIPE			
STATION TO STATION	SIDE	TYPE	LF.
72+95 TO 73+10	LT.	12" RCP	15

4" CONCRETE SIDEWALK		
STATION	SIDE	SQ. FEET
70+32 TO 71+79	LT.	590
70+32 TO 70+54	RT.	108
70+76 TO 71+58	RT.	458
71+75 TO 73+16	RT.	671
72+00 TO 73+04	LT.	468

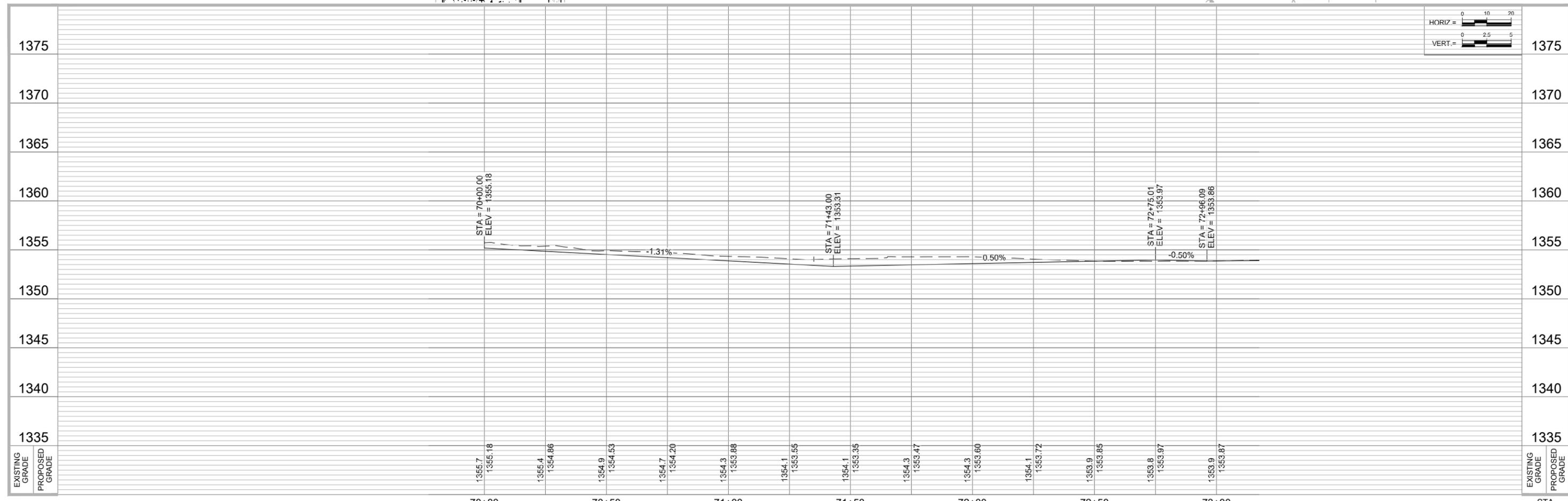
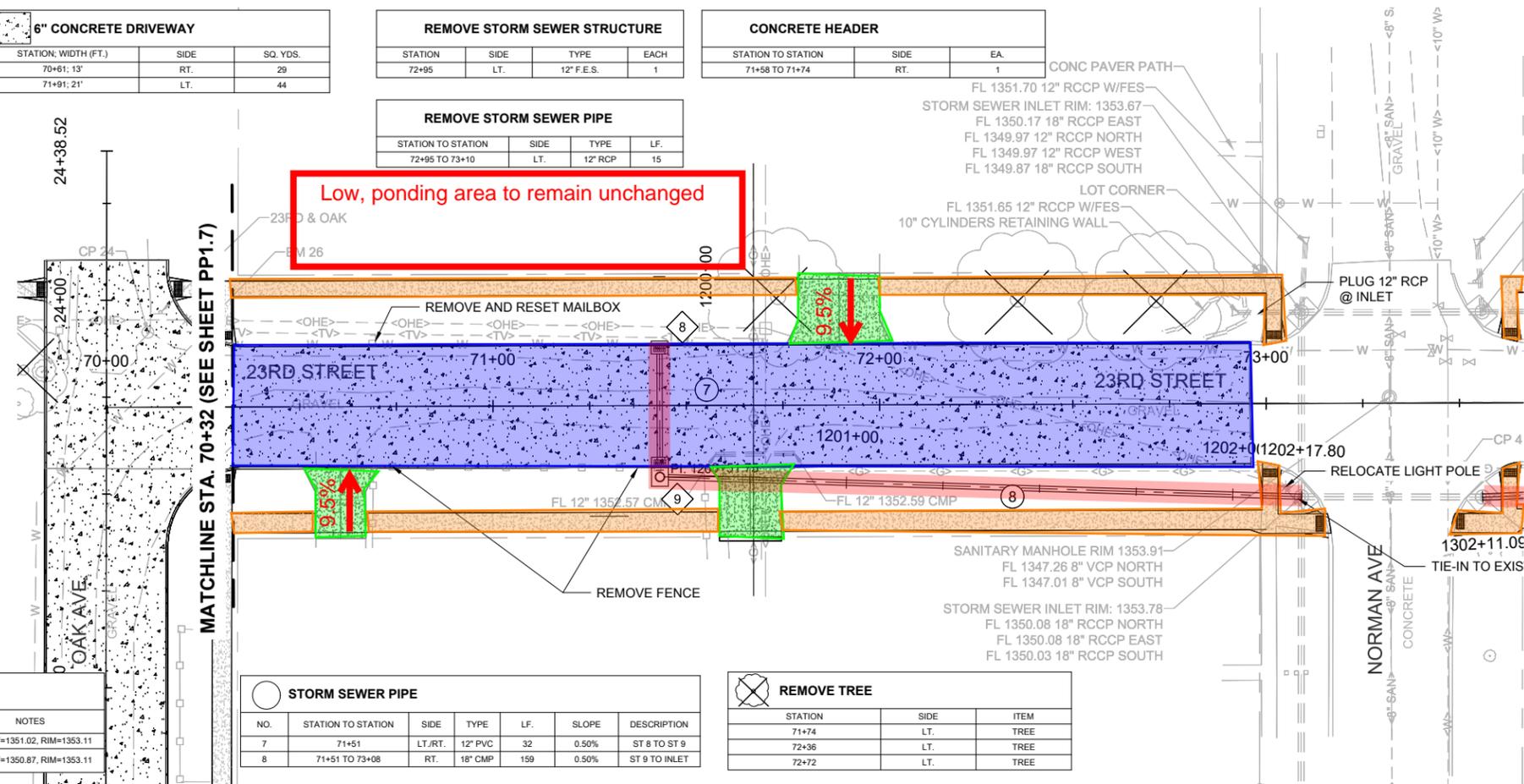
Proposed Improvements

- Pavement
- Sidewalk
- Driveway/Alley
- Storm Sewer

STORM SEWER STRUCTURE						
NO.	STATION	SIDE	TYPE	UNIT	QTY.	NOTES
8	71+51	16.0' (LT.)	CURB INLET	EA.	1	INVERT=1351.02, RIM=1353.11
9	71+51	16.0' (RT.)	CURB INLET W/ MANHOLE	EA.	1	INVERT=1350.87, RIM=1353.11

STORM SEWER PIPE						
NO.	STATION TO STATION	SIDE	TYPE	LF.	SLOPE	DESCRIPTION
7	71+51	LT./RT.	12" PVC	32	0.50%	ST 8 TO ST 9
8	71+51 TO 73+08	RT.	18" CMP	159	0.50%	ST 9 TO INLET

REMOVE TREE		
STATION	SIDE	ITEM
71+74	LT.	TREE
72+36	LT.	TREE
72+72	LT.	TREE



7" CONCRETE PAVEMENT		
STATION	SIDE	SQ. YDS.
73+68 TO 76+52	LT. & RT.	1035
74+82 TO 74+08	LT.	34
74+82 TO 74+08	RT.	34

6" CONCRETE DRIVEWAY		
STATION, WIDTH (FT.)	SIDE	SQ. YDS.
74+61; 12'	LT.	26
74+65; 12'	RT.	26
75+42; 17'	RT.	36

REMOVE CONCRETE SIDEWALK		
STATION TO STATION	SIDE	SQ. FT.
76+26 TO 76+30	LT.	117
76+26 TO 76+30	RT.	117

REMOVE CONCRETE PAVEMENT		
STATION TO STATION	SIDE	SQ. YD.
7+23 TO 76+52	LT. & RT.	104

REMOVE STORM SEWER STRUCTURE			
STATION	SIDE	TYPE	EACH
73+76	LT.	12" F.E.S.	1

REMOVE STORM SEWER PIPE			
STATION TO STATION	SIDE	TYPE	LF.
73+60 TO 76+76	LT.	12" RCP	16

4" CONCRETE SIDEWALK		
STATION	SIDE	SQ. FT.
73+48 TO 74+62	RT.	598
73+61 TO 74+50	LT.	421
74+66 TO 74+87	LT.	82
74+74 TO 74+87	RT.	64
75+02 TO 76+50	LT.	699
75+02 TO 75+32	RT.	148
75+49 TO 76+50	RT.	604
76+78 TO 77+03	LT.	153
76+78 TO 77+03	RT.	215

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Proposed Improvements

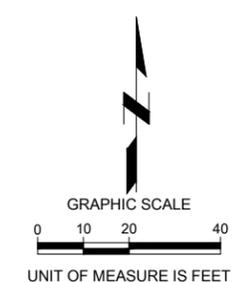
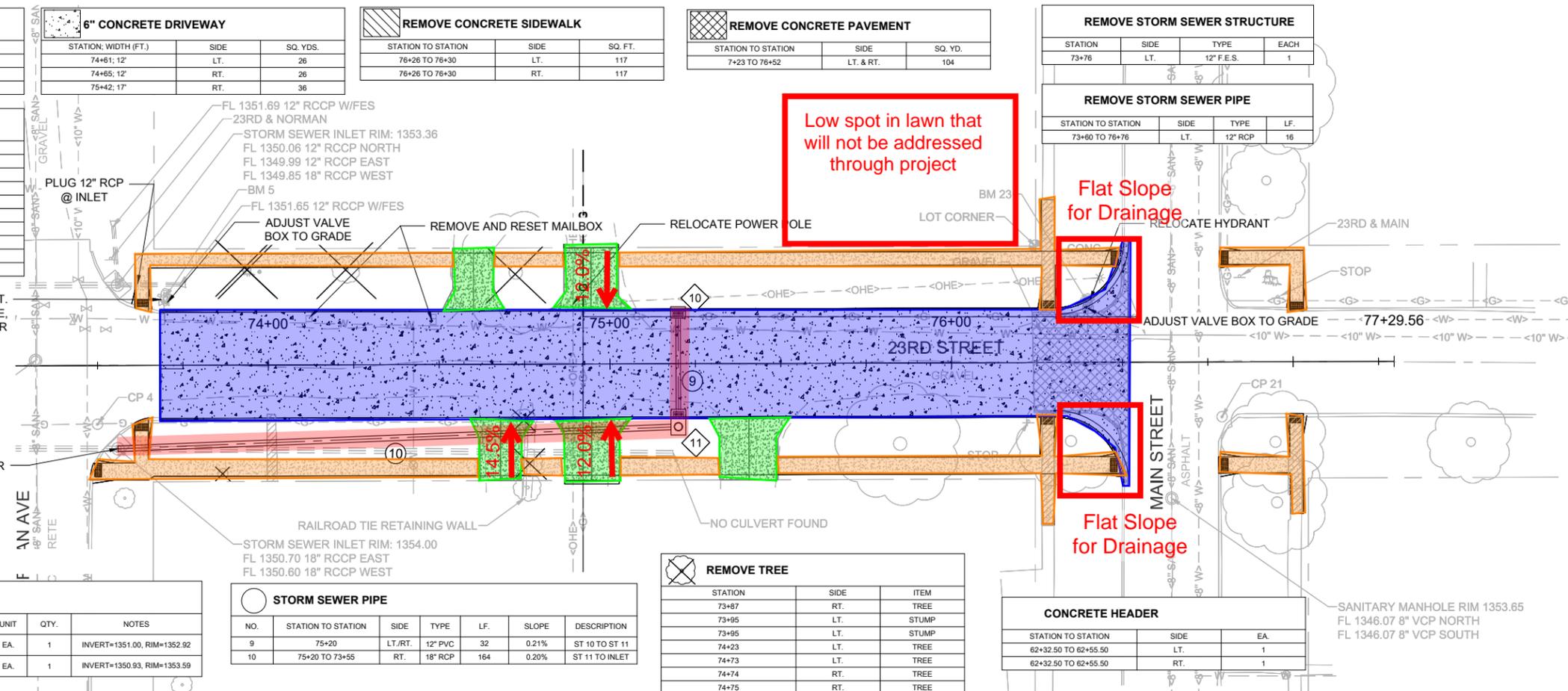
- Pavement
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NO.	STATION	SIDE	TYPE	UNIT	QTY.	NOTES
10	75+20	16.0' (LT.)	CURB INLET	EA.	1	INVERT=1351.00, RIM=1352.92
11	75+20	16.0' (RT.)	CURB INLET W/ MANHOLE	EA.	1	INVERT=1350.93, RIM=1353.59

STORM SEWER PIPE						
NO.	STATION TO STATION	SIDE	TYPE	LF.	SLOPE	DESCRIPTION
9	75+20	LT./RT.	12" PVC	32	0.21%	ST 10 TO ST 11
10	75+20 TO 73+55	RT.	18" RCP	164	0.20%	ST 11 TO INLET

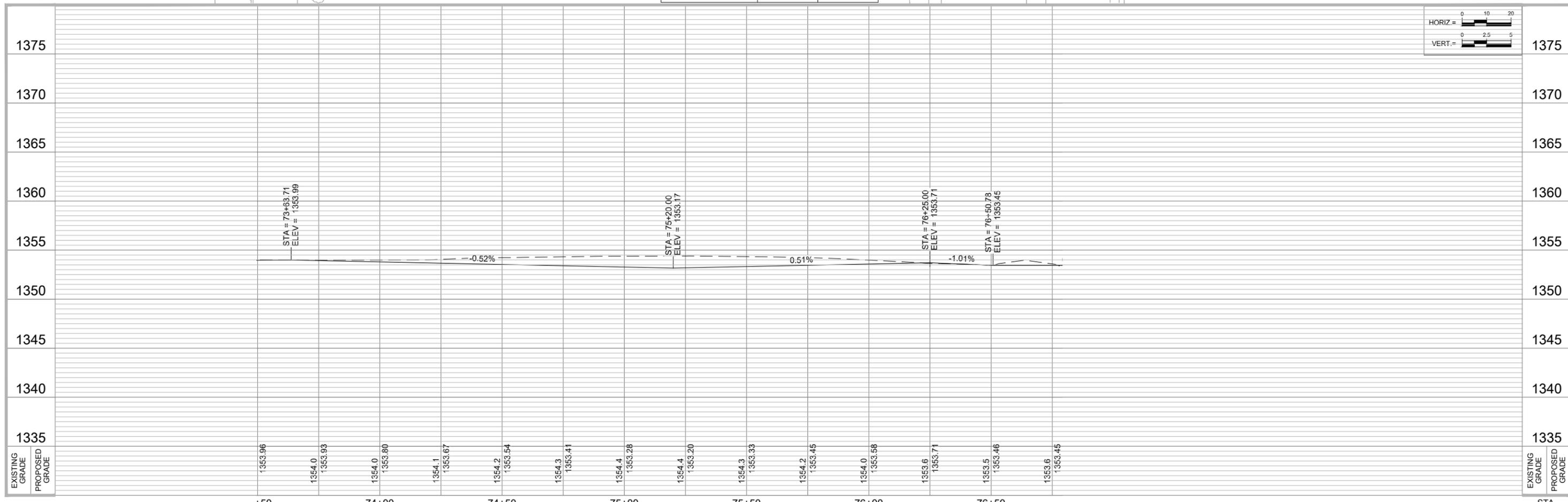
REMOVE TREE		
STATION	SIDE	ITEM
73+87	RT.	TREE
73+95	LT.	STUMP
73+95	LT.	STUMP
74+23	LT.	TREE
74+73	LT.	TREE
74+74	RT.	TREE
74+75	RT.	TREE

CONCRETE HEADER		
STATION TO STATION	SIDE	EA.
62+32.50 TO 62+55.50	LT.	1
62+32.50 TO 62+55.50	RT.	1

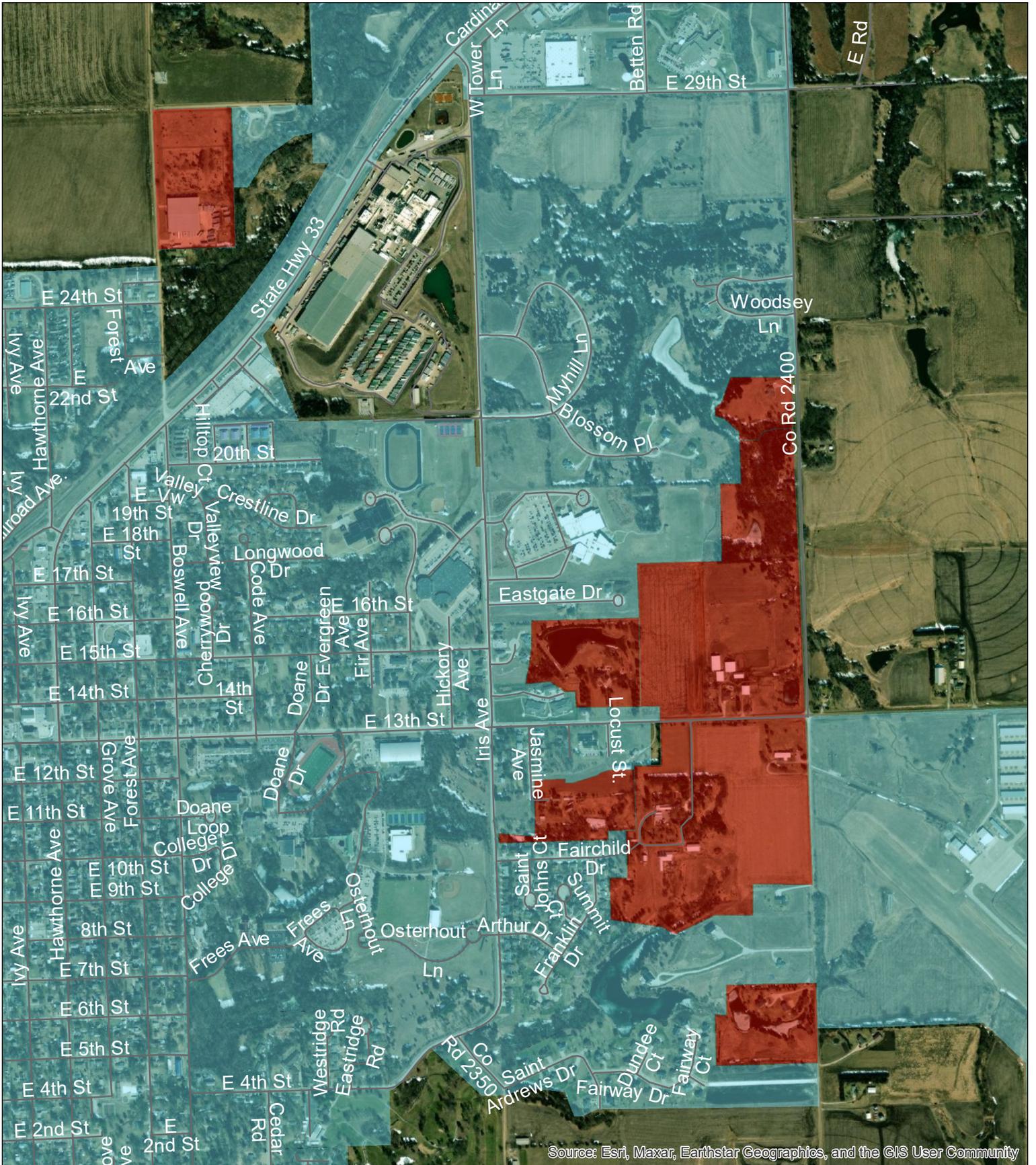


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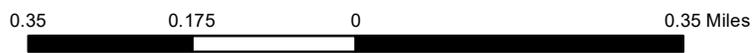


Proposed Annexations



Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

City Limits
Proposed Areas



Author: Emerson Aschoff
Data: The City of Crete