



STAFF REPORT

DATE: July 6, 2021

CONSENT

AGENDA ITEM: Accept Quotes and Award Contracts for the 2021 Seal Coat Project and 2021 Striping Project

SUBMITTED BY: Jack Griffin, City Engineer

REVIEWED BY: Kristina Handt, City Administrator
Marty Powers, Public Works Director
Mike Rusenovich, Project Engineer

ISSUE BEFORE COUNCIL: Should the City Council accept quotes and award a construction contract for the 2021 Seal Coat Project and the 2021 Striping Project?

BACKGROUND: In accordance with the city's annual street maintenance program, certain streets have been scheduled to be seal coated in 2021. See attached Location Map. Streets that have existing pavement markings must be restriped after the seal coat work is complete. The street maintenance work programmed in 2021 was reviewed jointly by Public Works and Engineering to confirm the work to be completed.

PROPOSAL DETAILS/ANALYSIS: Quotes for seal coating were solicited from 4 qualified contractors and 3 quotes were received on June 23, 2021. Asphalt Surface Technologies Corporation submitted the lowest quote of \$78,438.00. Quotes for striping were solicited from two qualified contractors. Two quotes were received on June 24, 2021. Sir Lines-A-Lot LLC submitted the lowest quote of \$5,379.00. See attached tabulations for a breakdown of the quotes received. The seal coat work is required to be completed by October 5, 2021 and the striping work by October 15, 2021.

FISCAL IMPACT: Total contract to be authorized for the seal coat work is \$78,438.00, and the total contract to be authorized for the striping contract is \$5,379.00. The project costs are funded through the City's annual street maintenance budget.

RECOMMENDATION: Staff is recommending that the City Council consider, *as part of the Consent Agenda*, accepting the quotes and awarding a construction contract to Asphalt Surface Technologies Corporation in the amount of \$78,438.00 for the 2021 Seal Coat Project and a construction contract to Sir Lines-A-Lot, LLC in the amount of \$5,379.00 for the 2021 Striping Project. If removed from the consent agenda, the recommended motion for this action is as follows:

“Move to accept the quotes and award a Construction Contract to Asphalt Surface Technologies Corporation in the amount of \$78,438.00 for the 2021 Seal Coat Project and a Construction Contract to Sir Lines-A-Lot, LLC in the amount of \$5,379.00 for the 2021 Striping Project.”

ATTACHMENTS:

1. Tabulation of Seal Coat Quotes.
2. Tabulation of Striping Quotes.
3. 2021 Seal Coat Project Construction Contract.
4. 2021 Striping Project Construction Contract.

TABULATION OF QUOTES

2021 SEAL COAT PROJECT
CITY OF LAKE ELMO, MINNESOTA
PROJECT NO. 2021.108

QUOTES RECEIVED BY: JUNE 23, AT END OF DAY

FOCUS ENGINEERING, inc.

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	Asphalt Surface Technologies		Allied Blacktop Company		Pearson Bros.		Fahrner Asphalt Sealers	
				UNIT PRICE	TOTAL AMOUNT	UNIT PRICE	TOTAL AMOUNT	UNIT PRICE	TOTAL AMOUNT	UNIT PRICE	TOTAL AMOUNT
1	BITUMINOUS SEAL COAT WITH 1/8" DRESSER TRAP ROCK AND CRS-2P EMULSIFIED ASPHALT	65,300	SY	\$1.18	\$77,054.00	\$1.149	\$75,029.70	\$1.30	\$84,890.00	DID NOT SUBMIT	
2	PROTECT EXISTING PREFORMED THERMOPLASTIC PAVEMENT MARKING (TURN ARROW)	22	EA	\$30.00	\$660.00	\$125.00	\$2,750.00	\$120.00	\$2,640.00		
3	PROTECT EXISTING PREFORMED THERMOPLASTIC PAVEMENT MARKING (12" WIDE CROSSWALK STRIPING)	724	LF	\$1.00	\$724.00	\$5.00	\$3,620.00	\$5.00	\$3,620.00		
TOTAL					\$78,438.00		\$81,399.70		\$91,150.00		\$0.00

TABULATION OF QUOTES

2021 STRIPING PROJECT
CITY OF LAKE ELMO, MINNESOTA
PROJECT NO. 2021.108

FOCUS ENGINEERING, inc.

QUOTES RECEIVED BY: JUNE 25, AT 10:00 AM

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	Sir Lines-A-Lot LLC		AAA Striping Service Co.	
				UNIT PRICE	TOTAL AMOUNT	UNIT PRICE	TOTAL AMOUNT
1	4" SOLID LINE - WHITE EPOXY	7,731	LF	\$0.28	\$2,164.68	\$0.45	\$3,478.95
2	4" SOLID LINE - YELLOW EPOXY	5,315	LF	\$0.28	\$1,488.20	\$0.45	\$2,391.75
3	4" DOUBLE SOLID LINE - YELLOW EPOXY	2,252	LF	\$0.56	\$1,261.12	\$0.90	\$2,026.80
4	24" SOLID LINE - WHITE EPOXY STOP BARS	30	LF	\$12.00	\$360.00	\$9.00	\$270.00
5	PAVEMENT MESSAGE TURN ARROWS - WHITE EPOXY	1	EA	\$105.00	\$105.00	\$120.00	\$120.00
TOTAL					\$5,379.00		\$8,287.50

**CITY OF LAKE ELMO, MINNESOTA
2021 SEAL COAT PROJECT
PROJECT NO. 2021.108**

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**CONSTRUCTION CONTRACT FOR THE
2021 SEAL COAT PROJECT
LAKE ELMO, MINNESOTA**

This Contract, made this _____ day of _____, **2021**, by the City of Lake Elmo, Minnesota (hereinafter called the "Owner") and **Asphalt Surface Technologies Corporation** (hereinafter called the "Contractor").

WITNESSETH that the parties hereto agree as follows:

The Contractor shall provide all labor, services, materials, equipment and machinery, transportation, tools, fuel, power, light, heat, telephone, water, sanitary facilities, temporary facilities, and all other facilities and incidentals, including profit and overhead, necessary for the performance, testing, start-up, and completion of the work as described herein:

DESCRIPTION OF WORK: The Contractor shall place signage, sweep clean, and seal coat the streets shown on the attached Location Map dated November, 2020 for Lake Elmo. The work shall be completed per the applicable MnDOT Standard Specifications for Construction (2018 Edition) and in accordance with the specifications and special provisions outlined within this Construction Contract. The Contractor shall provide all necessary traffic control in accordance with the MMUTCD.

Bituminous material shall be MnDOT 2356, CRS-2P Emulsified Asphalt. Cover aggregate material shall be 1/8 inch Dresser Trap Rock, or approved equal.

All work shall be in accordance with MnDOT "Standard Specifications for Construction", Section 2356. In addition, the following requirements shall apply: Cleaning and sweeping of the streets prior to the seal coating shall be done by the Contractor. Pavement markings shall be tabbed prior to seal coating. Existing preformed thermoplastic pavement markings shall be protected before seal coating. Following the seal coating process, the Contractor shall remove the preformed pavement marking protection. Sweeping the excess seal coat aggregate from the streets and picking it up after seal coating will be done by the Contractor. Excess aggregate shall be swept up no sooner than five (5) days after the seal coat application, depending on the breaking and curing of the asphalt, as determined by the Engineer. 5 days following the seal coat, the contractor shall perform an initial sweep of the project area to remove surplus aggregate unless otherwise directed by the Engineer. 30 days following the initial sweeping, the Contractor shall sweep off the remaining surplus aggregate over the project area. All surplus aggregate shall be swept up by the Contractor as determined by the Engineer. Multiple pick-up sweeps may be required if excess seal coat aggregate remains on the street, as determined by the Engineer. Excess seal coat aggregate resulting from street sweeping shall be disposed of by the Contractor. Cleaning and sweeping shall be considered incidental to the unit prices shown on the Quote Form. The Contractor shall be responsible for signing or otherwise preventing the parking of vehicles on the street the day of seal coating. Any areas which cannot be sealed due to parked vehicles shall be touched up by the Contractor after the vehicle can be moved. No additional compensation will be given.

The bituminous seal coating material application rates shall be:

- A. Emulsified Asphalt to be applied at 0.24-0.26 gallons per square yard.
- B. 1/8 inch Dresser Trap Rock, or approved equal to be applied at 20-23 pounds per square yard.
- C. Application rates may be varied by the Engineer in the field as different surface conditions are encountered.
- D. Load tickets from the refinery and weight tickets shall be furnished to the Engineer

All seal coat work shall carry a one-year warranty period against any loss of adhesion.

The Contractor will be paid per Square Yard for work completed in accordance with the Construction Contract.

All work shall be completed within the specified time frame and under the terms and conditions provided within this Construction Contract, and in accordance with the "General Conditions" shown in this contract. The contractor shall complete the proposed work by **OCTOBER 5, 2021**.

The Owner will make payment for the whole contract upon acceptance by the Owner of all work required hereunder and in compliance with all the terms and conditions of this contract.

TOTAL AMOUNT (INSERT FROM QUOTE FORM): **\$78,438.00**

IN WITNESS WHEREOF, the parties hereto have executed this contract as of the date first above written.

(Contractor)

(City of Lake Elmo)

GENERAL CONDITIONS

- I. CHANGES IN WORK. - The Owner may at any time, make changes in the drawings and specifications, within the general scope thereof. If such changes cause an increase or decrease in the amount due under this contract or in the time required for its performance, an equitable adjustment will be made, and this contract will be modified accordingly by a "Contract Change Order". No charge for any extra work or material will be allowed unless the same has been ordered on such contract change order by the Owner and the price therefore stated in the order.
- II. INSPECTION OF WORK. - All materials and workmanship will be subject to inspection, examination, and test, by the Owner, who will have the right to reject defective material and workmanship or require its correction.
- III. COMPLETION OF WORK. - If the Contractor refuses or fails to complete the work within the time specified in this contract, or any extension thereof, the Owner may terminate the Contractor's rights to proceed. In such event the Owner may take over the work and prosecute the same to completion by contract or otherwise, and the Contractor will be liable for any excess cost occasioned the Owner thereby; and the Owner may take possession of and utilize in completing the work such materials and equipment as may be on the site of the work and necessary therefore. If the Owner does not terminate the right of the Contract to proceed, the Contractor will continue the work, in which event, actual damages for delay will be impossible to determine, and in lieu thereof, the Contractor may be required to pay to the Owner the sum of **\$100** as liquidated damages for each calendar day of delay, and the Contractor will be liable for the amount thereof: Provided, however, that the right of the Contractor to proceed will not be terminated because of delays in the completion of the completion of the work due to unforeseeable causes beyond the Contractor's control and without Contractor's fault or negligence.
- IV. RELEASES. - Prior to final payment, the Contractor will submit evidence that all payrolls, material bills, and other indebtedness connected with the work have been paid as required by the Owner.
- V. OBLIGATION TO DISCHARGE LIENS. - Acceptance by the Owner of the completed work performed by the Contractor and payment therefore by the Owner will not relieve the Contractor of obligation to the Owner (which obligation is hereby acknowledged) to discharge any and all liens for the benefit of subcontractors, laborers, material-person, or any other persons performing labor upon the work or furnishing material or machinery for the work covered by this contract, which have attached to or may subsequently attach to the property, or interest of the Owner.
- VI. NOTICES AND APPROVAL IN WRITING. - Any notice, consent, or other act to be given or done hereunder will be valid only if in writing.
- VII. CLEANING UP. - The Contractor shall keep the premises free from accumulation of waste material and rubbish and at the completion of the work shall remove from the premises all rubbish, implements and surplus materials.
- VIII. WARRANTY. - Contractor warrants and guarantees that title to all work, materials, and equipment covered by any Application for Payment, whether incorporated in the Project or not, will pass to Owner no later than the time of payment free and clear of all Liens. If within one year after completion of the work, any work is found to be defective, Contractor shall promptly, without cost to the Owner, correct such defective work as approved by the Owner.
- IX. INDEMNIFICATION. - Contractor shall defend and indemnify the city against claims brought or actions filed against the city or any of its officers, employees or agents for property damage, bodily injury or death to third persons, arising out of or relating to contractors work under the contract.
- X. WORKERS' COMPENSATION INSURANCE. - Contractor shall provide a certificate of insurance showing evidence of workers' compensation coverage or provide evidence of qualification as a self-insurer of workers' compensation.
- XI. LIABILITY INSURANCE REQUIREMENTS. - A certificate of insurance acceptable to the City shall be filed with the City prior to the commencement of the work. The certificate and the required insurance policies shall contain a provision that the coverage afforded under the contract will not be canceled or allowed to expire until at least 30 days prior written notice has been given to the city. Contractor shall maintain commercial general liability (CGL) insurance with a limit of not less than \$1,000,000 each occurrence and an aggregate limit of not less than \$2,000,000. The CGL insurance shall cover liability arising from premises, operations, independent contractors, subcontractors, products-completed operations, personal injury and advertising injury, and contractually-assumed liability. The City and FOCUS Engineering, Inc. shall be named as an additional insured under the CGL. Contractor shall maintain automobile liability insurance, and if necessary, umbrella liability insurance with a limit of not less than \$1,000,000 each accident and an aggregate limit of not less than \$2,000,000. The insurance shall cover liability arising out of any auto, including owned, hired, and non-owned autos.

**QUOTE PROPOSAL FOR THE
2021 SEAL COAT PROJECT
LAKE ELMO, MINNESOTA**

ITEM NO.	ITEM	UNIT	QUANTITY	UNIT PRICE	TOTAL AMOUNT
1	BITUMINOUS SEAL COAT WITH 1/8" DRESSER TRAP ROCK AND CRS-2P EMULSIFIED ASPHALT	SY	65,300	1.18	77,054.00
2	PROTECT EXISTING PREFORMED THERMOPLASTIC PAVEMENT MARKING (TURN ARROW)	EA	22	30.00	\$660.00
3	PROTECT EXISTING PREFORMED THERMOPLASTIC PAVEMENT MARKING (12" WIDE CROSSWALK STRIPING)	LF	724	1.00	\$724.00
TOTAL LAKE ELMO SEAL COAT PROJECT				\$ 78,438.00	

Payment for seal coating of project streets in accordance with the Contract Documents will be per Square Yard. Payment for protection of turn arrows during seal coating shall be per Each. Payment for protection of crosswalk striping shall be per Linear Foot. We have examined the site of the work and are acquainted with all conditions affecting the construction of the work.

We understand and agree that the City may chose to award the project to the lowest responsible quote or in the best interest of the City. The City reserves the right to reject any or all quotes, to waive any informalities in any Quote, and to omit any part of the above work.

We agree that if this Proposal is accepted, we will execute a Contract in the form attached to this bid package. If we are awarded the Contract, we will complete the work by **OCTOBER 5, 2021**.

Respectfully submitted,
Asphalt Surface Technologies Corporation

Firm Name a/k/a ASTECH Corp.

Signature Mary L. Aschenbrenner

Signed by Mary L. Aschenbrenner

Title Vice-President

Contact Phone Number (320) 363-8500

Address PO Box 1025
ST Cloud MN 56302

SECTION 0410 – RESPONSIBLE CONTRACTOR VERIFICATION

Applies to all Bids in excess of \$50,000

A "Responsible Contractor" is defined in Minnesota Statutes, Section 16C.285, subdivision 3. Any prime contractor or subcontractor who does not meet minimum criteria under Minnesota Statutes Section 16C.285, subdivision 3, or who fails to verify that it meets those criteria, is not a responsible contractor and is not eligible to be awarded a construction contract for the project or to perform work on the project.

A false statement under oath verifying compliance with any of the minimum criteria shall render the contractor or subcontractor that makes the false statement ineligible to be awarded a construction contract for the project and may result in termination of a contract awarded to a contractor or subcontractor that makes a false statement.

A contractor shall submit to the Owner upon request, copies of the signed verifications of compliance from all subcontractors of any tier pursuant to Minnesota Statutes, Section 16c.285, subdivision 3, clause 7.

By signing this statement, I Mary L. Aschenbrenner (typed or printed name),
Vice-President (title) certify that I am an owner or officer of this company and do verify
under oath that my company is in compliance with each of the minimum criteria listed under Minnesota
Statutes, section 16c.285, subdivision 3.

Company Name (typed or printed): Asphalt Surface Technologies Corporation
a/k/a ASTECH Corp.

By: Mary L. Aschenbrenner
(Signature)

Name (typed or printed): Mary L. Aschenbrenner

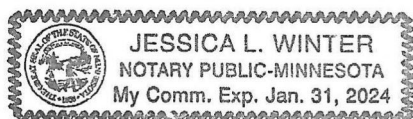
Title: Vice-President

Bidder's Business Address PO Box 1025, St. Cloud, MN 56302

DATE June 23rd, 2021.

STATE OF MINNESOTA }
COUNTY OF STEARNS } ss.

The foregoing instrument was acknowledged before me this 23rd day of
June, 2021, by Mary L. Aschenbrenner



Jessica L. Winter
Notary Public

2021 SEAL COAT PROJECT - LAKE ELMO								
Street Segment	From	To	Development	Length	Width	CDS	Area (SF)	Area (SY)
39TH ST N *	MN TH 5 (STILLWATER BLVD)	LAVERNE AVE N	MSAS	1,589.00	28	0	44,492.00	4,943.56
39TH ST N *	CSAH 17 (LAKE ELMO AVE)	LAVERNE AVE N	MSAS	845.00	28	0	23,660.00	2,628.89
JAMLEY AVE N	28TH ST N	31ST ST N	2016 Street Imp Addendum 1	1,820.00	20	0	36,400.00	4,044.44
HIGHLANDS TRL N	HILLTOP AVE N	DEMONTREVILLE TRL N	2016 Street Imp Addendum 1	1,350.00	32	0	43,200.00	4,800.00
7TH ST N	5TH ST N	JAY AVE N	Savona 1st - 3rd	913.00	23	0	20,999.00	2,333.22
7TH ST N	JAY AVE N	JUNIPER CT N	Savona 1st - 3rd	266.00	23	0	6,118.00	679.78
7TH ST N	JUNIPER CT N	JAMES AVE N	Savona 1st - 3rd	991.00	23	0	22,793.00	2,532.56
JAY AVE N (EAST)	7TH ST N	5TH ST N	Savona 1st - 3rd	318.00	16	0	5,088.00	565.33
JAY AVE N (WEST)	7TH ST N	5TH ST N	Savona 1st - 3rd	341.00	16	0	5,456.00	606.22
JUNIPER AVE N	NORTH LIMITS	7TH ST N	Savona 1st - 3rd	388.00	23	0	8,924.00	991.56
JUNIPER CT N	7TH ST N	CUL-DE-SAC	Savona 1st - 3rd	433.00	23	0	9,959.00	1,106.56
JUNIPER CT N	CUL-DE-SAC	CUL-DE-SAC	Savona 1st - 3rd	222.00	19	0	4,218.00	468.67
5TH ST N (WHEN SOUTH SIDE WIDER) (North) *	KEATS AVE (CSAH 19)	NORTH SIDE WIDER	Savona 1st - 3rd	326.00	15	0	4,890.00	543.33
5TH ST N (WHEN SOUTH SIDE WIDER) (South) *	KEATS AVE (CSAH 19)	NORTH SIDE WIDER	Savona 1st - 3rd	326.00	24	0	7,824.00	869.33
5TH ST N (WHEN NORTH SIDE WIDER) (North) *	SOUTH SIDE WIDER	7TH ST	Savona 1st - 3rd	220.00	24	0	5,280.00	586.67
5TH ST N (WHEN NORTH SIDE WIDER) (South) *	SOUTH SIDE WIDER	7TH ST	Savona 1st - 3rd	220.00	15	0	3,300.00	366.67
5TH ST N (WHEN SOUTH SIDE WIDER) (North) *	7TH ST N	NORTH SIDE WIDER	Savona 1st - 3rd	401.00	15	0	6,015.00	668.33
5TH ST N (WHEN SOUTH SIDE WIDER) (South) *	7TH ST N	NORTH SIDE WIDER	Savona 1st - 3rd	401.00	24	0	9,624.00	1,069.33
5TH ST N (WHEN NORTH SIDE WIDER) (North) *	SOUTH SIDE WIDER	JAY AVE N	Savona 1st - 3rd	403.00	36	0	14,508.00	1,612.00
5TH ST N (WHEN NORTH SIDE WIDER) (South) *	SOUTH SIDE WIDER	JAY AVE N	Savona 1st - 3rd	403.00	15	0	6,045.00	671.67
5TH ST N (WHEN SOUTH SIDE WIDER) (North) *	JAY AVE N	NORTH SIDE WIDER	Savona 1st - 3rd	420.00	15	0	6,300.00	700.00
5TH ST N (WHEN SOUTH SIDE WIDER) (South) *	JAY AVE N	NORTH SIDE WIDER	Savona 1st - 3rd	420.00	36	0	15,120.00	1,680.00
5TH ST N (WHEN NORTH SIDE WIDER) (North) *	SOUTH SIDE WIDER	JUNCO RD N	Savona 1st - 3rd	248.00	24	0	5,952.00	661.33
5TH ST N (WHEN NORTH SIDE WIDER) (South) *	SOUTH SIDE WIDER	JUNCO RD N	Savona 1st - 3rd	248.00	15	0	3,720.00	413.33
5TH ST N *	JUNCO RD N	WEST END 3RD ADD	Savona 1st - 3rd	941.00	51	0	47,991.00	5,332.33
JAMES AVE N	NORTH LIMITS	7TH ST N	Savona 1st - 3rd	189.00	23	0	4,347.00	483.00
JAMES AVE N	7TH ST N	JUNCO RD N	Savona 1st - 3rd	308.00	23	0	7,084.00	787.11
JAMES AVE N	JUNCO RD N	WEST LIMITS	Savona 1st - 3rd	341.00	23	0	7,843.00	871.44
JUNCO RD N	JAMES AVE N	5TH ST N	Savona 1st - 3rd	922.00	23	0	21,206.00	2,356.22
JUNCO RD N	JUNCO RD N	JUNCO RD N	Savona 1st - 3rd	260.00	23	0	5,980.00	664.44
6TH ST LN N	JAMES AVE N	WEST END 3RD ADD	Savona 1st - 3rd	814.00	23	0	18,722.00	2,080.22
5TH ST LN N	5TH ST N	SPLIT	Savona 1st - 3rd	1,347.00	23	0	30,981.00	3,442.33
5TH ST LN N	SPLIT	5TH ST N	Savona 1st - 3rd	170.00	32	0	5,440.00	604.44
40TH ST N	LADY SLIPPER RD N	WILDFLOWER DR N	Village Preserve 1st - 2nd	406.00	24	0	9,744.00	1,082.67
41ST ST N (North)	LAKE ELMO AVE (CSAH 17)	LADY SLIPPER RD N	Village Preserve 1st - 2nd	219.00	14	0	3,066.00	340.67
41ST ST N (South)	LAKE ELMO AVE (CSAH 17)	LADY SLIPPER RD N	Village Preserve 1st - 2nd	219.00	14	0	3,066.00	340.67
41ST ST CIR N	LADY SLIPPER RD N	CUL-DE-SAC	Village Preserve 1st - 2nd	406.00	23	45	15,699.73	1,744.41
LADY SLIPPER CT N	LADY SLIPPER RD N	CUL-DE-SAC	Village Preserve 1st - 2nd	124.00	23	45	9,213.73	1,023.75
LADY SLIPPER RD N	41ST ST N	LADY SLIPPER CT N	Village Preserve 1st - 2nd	366.00	24	0	8,784.00	976.00
LADY SLIPPER RD N	41ST ST N	40TH ST N	Village Preserve 1st - 2nd	1,002.00	24	0	24,048.00	2,672.00
UPPER 42ND ST N	LADY SLIPPER CT N	LAVERNE CIR N	Village Preserve 1st - 2nd	720.00	23	0	16,560.00	1,840.00
LAVERNE CIR N	UPPER 42ND ST N	CUL-DE-SAC	Village Preserve 1st - 2nd	77.00	23	45	8,132.73	903.64
LAVERNE AVE N	LAVERNE CIR N	40TH ST N	Village Preserve 1st - 2nd	865.00	23	0	19,895.00	2,210.56
TOTALS							587,690.00	65,300.00

* Tab pavement markings on indicated streets prior to seal coating. (Incidental)

SECTION 1100 – SUMMARY OF WORK

GENERAL REQUIREMENTS

1. **WORK COVERED BY CONTRACT DOCUMENTS:** Under this Section of the Specifications the work contemplated consists of furnishing all labor, materials, skills, equipment, and facilities required for a complete seal coat treatment for the designated streets provided for within these Plans and Specifications. The work shall include:
 - A. Place signs indicating “No Parking–Seal Coating Tomorrow” or similar language. Notification must be provided at least 24-hours but not more than 36-hours in advance of work.
 - B. Place signs indicating “Loose Gravel” on each street to be seal coated (locations to be approved by the Engineer). All signs shall be installed prior to the commencement of seal coating operations. The Contractor shall remove said signs within 48 hours of completing all sweeping of excess aggregate.
 - C. Sweep the streets clean and free of debris before the bituminous application. Streets must be free from any standing water before the bituminous application.
 - D. Place sand or felt over gate valves and manholes before placing bituminous material on streets. The sand or felt will be supplied by the Contractor.
 - E. Delineate existing pavement markings along all streets (pavement markers to be approved by the Engineer). Place protection for existing preformed thermoplastic pavement markings as directed by engineer.
 - F. Place the bituminous material.
 - G. Place the cover aggregate.
 - H. Roll the surface with pneumatic tired rollers.
 - I. Remove protection of preformed thermoplastic pavement markings.
 - J. Pick up sweep and properly dispose of the excess cover aggregate and general cleanup. Excess aggregate shall be swept up no sooner than five (5) days after the seal coat application, depending on the breaking and curing of the asphalt, as determined by the Engineer. 5 days following the seal coat, the contractor shall perform an initial sweep of the project area to remove surplus aggregate unless otherwise directed by the Engineer. 30 days following the initial sweeping, the Contractor shall sweep off the remaining surplus aggregate over the project area. All surplus aggregate shall be swept up by the Contractor as determined by the Engineer. All required sweeping events shall be considered incidental to the Contract with no additional compensation. The surplus aggregate swept from the streets shall be the responsibility of the Contractor.
2. **TRAFFIC CONTROL:** The Contractor shall be responsible for signing or otherwise preventing the parking of vehicles on the street the day of seal coating. Any areas which cannot be sealed due to parked vehicles shall be touched up by the Contractor after the vehicle can be moved. No additional compensation will be given. The Contractor shall provide all necessary traffic control in accordance with the Minnesota Manual on Uniform Traffic Control Devices (MMUTCD). All signage must be removed within 48-hours of completing the work. All traffic control and mobilization is incidental to the Contract.
3. **SEQUENCE OF WORK:** All work must be completed in accordance with Section 3.02 and 3.03 of the Agreement and according to each milestone listed herein. Once the Contractor initiates the placement of

bituminous material on any street for the project the work must proceed diligently without interruption until all aggregate has been placed and rolled for all streets scheduled for seal coating, except for interruptions to work operations due to contract working hours and/or weather conditions. The Contractor must begin sweeping of excess aggregate on the fifth day following the final placement of the aggregate, unless otherwise approved by the Engineer. Once sweeping operations begin, the sweeping work must proceed diligently without interruption until all excess aggregate has been removed for all streets on the project, except for interruptions to work operations due to contract working hours and/or weather conditions.

4. WORK UNDER OTHER CONTRACTS: The City may choose to perform minor repairs or seal individual cracks prior to seal coating. The Contractor must obtain approval from the City prior to seal coating any street segment.
5. WORK LOCATION: The streets to be seal coated are listed in the Appendix.
6. CONTRACTOR USE OF PREMISES: The Contractor's operations shall be confined to the areas covered in the right-of-way and easements granted to the Owner. Any procedures by the Contractor of any sort beyond the limits indicated shall be the sole responsibility of the Contractor who shall save the Owner harmless from any claim for damages due to trespassing.
7. MEASUREMENT AND PAYMENT: Seal coating shall be measured and paid by the Square Yard of the actual area covered with bituminous material and cover aggregate and shall cover all costs associated with a complete project as specified herein (including delineation of any existing striping and additional pick-up sweep events necessary as determined by the Engineer).
8. WARRANTY: In accordance with the Section 13.07 of the Supplementary Conditions, all seal coat work shall carry a one-year warranty period against any loss of adhesion.

SECTION 3212 – SEAL COATING

SCOPE

Under this Section shall be included the furnishing of all material, equipment, labor and skills necessary to construct a bituminous seal coat.

GENERAL REQUIREMENTS

1. **BASIS OF PAYMENT:** Measurement and Payment shall be by the square yard, complete in place and paid for the price in the BID PROPOSAL.

PRODUCTS

1. **BITUMINOUS MATERIAL:** The material shall be Mn/DOT 2356, CRS-2P Emulsified Asphalt. Bituminous material shall be measured by gallon volume of material at 60 degrees F from manifest collected with each load received at the site on the day the material is actually placed.
2. **COVER AGGREGATE:** The material shall be 1/8 inch Dresser Trap Rock, or approved equal. Aggregate shall be delivered by Ton on the basis of weight tickets received at the site on the day the material is actually placed to check application rate.

EXECUTION

1. **GENERAL:** All work shall be in accordance with Mn/DOT "Standard Specifications for Construction", Section 2356. In addition, the following requirements shall apply.
2. **STREET SWEEPING:** Cleaning and sweeping of the streets prior to the seal coating shall be done by the Contractor. Sweeping the excess seal coat aggregate from the streets and picking it up after seal coating will be done by the Contractor. Multiple pick-up sweeps may be required if excess seal coat aggregate remains on the street, as determined by the Engineer. Excess seal coat aggregate resulting from street sweeping shall be disposed of by the Contractor. Cleaning and sweeping shall be considered incidental to the unit prices shown in the Bid Proposal.
3. **TRAFFIC CONTROL:** The Contractor shall be responsible for signing or otherwise preventing the parking of vehicles on the street the day of seal coating. Any areas which cannot be sealed due to parked vehicles shall be touched up by the Contractor after the vehicle can be moved. No additional compensation will be given.
4. **APPLICATION RATES:** The bituminous seal coating material application rates shall be:
 - A. Emulsified Asphalt to be applied at 0.24-0.26 gallons per square yard.
 - B. 1/8 inch Dresser Trap Rock, or approved equal to be applied at 20-23 pounds per square yard.
 - C. Application rates may be varied by the Engineer in the field as different surface conditions are encountered.
 - D. Load tickets from the refinery and weight tickets shall be furnished to the Engineer.

**CITY OF LAKE ELMO, MINNESOTA
2021 STRIPING PROJECT
PROJECT NO. 2021.108**

TABLE OF CONTENTS

<u>TITLE</u>	<u>PAGES</u>
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39th Street N	1
5th Street N	3
Specifications: 3217 Pavement Markings	3

**CONSTRUCTION CONTRACT FOR THE
2021 STRIPING PROJECT
LAKE ELMO, MINNESOTA**

This Contract, made this _____ day of _____, **2021**, by the City of Lake Elmo, Minnesota (hereinafter called the "Owner") and **Sir Lines-A-Lot LLC** (hereinafter called the "Contractor").

WITNESSETH that the parties hereto agree as follows:

The Contractor shall provide all labor, services, materials, equipment and machinery, transportation, tools, fuel, power, light, heat, telephone, water, sanitary facilities, temporary facilities, and all other facilities and incidentals, including profit and overhead, necessary for the performance, testing, start-up, and completion of the work as described herein:

DESCRIPTION OF WORK: The Contractor shall place epoxy pavement markings for the City of Lake Elmo on the streets shown on the attached Location Map, dated November, 2020, and in accordance with the attached Street List and Striping Tabulation form dated June, 2021. All pavement markings shall be Epoxy Resin with Drop-on Glass Beads. The Contractor shall provide all necessary traffic control in accordance with the MMUTCD.

All work shall be in accordance with City of Lake Elmo Specifications, Section 3217 Pavement Markings and applicable MnDOT "Standard Specifications for Construction (2018 Edition)".

Placement of epoxy materials shall be permitted only on a clean, dry pavement surface and air and pavement temperatures must be at least 50 degrees F. Markings shall not be applied when the wind or other conditions cause a film of dust to be deposited on the pavement surface before the material can be applied. Permanent pavement markings shall not be placed over temporary tape markings.

All pavement markings not conforming to the requirements of the Contract shall be removed and replaced or otherwise repaired to the satisfaction of the Engineer. Removal of unacceptable work shall be accomplished with suitable blasting or grinding equipment unless other means are authorized by the Engineer.

The Contractor will be paid per Linear Foot for line markings and Per Each for symbols and turn arrows completed in accordance with the Construction Contract.

All work shall be completed within the specified time frame and under the terms and conditions provided within this Construction Contract, and in accordance with the "General Conditions" shown in this contract. The contractor shall complete the proposed work by **OCTOBER 15, 2020**.

The Owner will make payment for the whole contract upon acceptance by the Owner of all work required hereunder and in compliance with all the terms and conditions of this contract.

TOTAL AMOUNT (INSERT FROM QUOTE FORM): **\$5,379.00**

IN WITNESS WHEREOF, the parties hereto have executed this contract as of the date first above written.

(Contractor)

(City of Lake Elmo)

GENERAL CONDITIONS

- I. CHANGES IN WORK. - The Owner may at any time, make changes in the drawings and specifications, within the general scope thereof. If such changes cause an increase or decrease in the amount due under this contract or in the time required for its performance, an equitable adjustment will be made, and this contract will be modified accordingly by a "Contract Change Order". No charge for any extra work or material will be allowed unless the same has been ordered on such contract change order by the Owner and the price therefore stated in the order.
- II. INSPECTION OF WORK. - All materials and workmanship will be subject to inspection, examination, and test, by the Owner, who will have the right to reject defective material and workmanship or require its correction.
- III. COMPLETION OF WORK. - If the Contractor refuses or fails to complete the work within the time specified in this contract, or any extension thereof, the Owner may terminate the Contractor's rights to proceed. In such event the Owner may take over the work and prosecute the same to completion by contract or otherwise, and the Contractor will be liable for any excess cost occasioned the Owner thereby; and the Owner may take possession of and utilize in completing the work such materials and equipment as may be on the site of the work and necessary therefore. If the Owner does not terminate the right of the Contract to proceed, the Contractor will continue the work, in which event, actual damages for delay will be impossible to determine, and in lieu thereof, the Contractor may be required to pay to the Owner the sum of **\$100** as liquidated damages for each calendar day of delay, and the Contractor will be liable for the amount thereof: Provided, however, that the right of the Contractor to proceed will not be terminated because of delays in the completion of the completion of the work due to unforeseeable causes beyond the Contractor's control and without Contractor's fault or negligence.
- IV. RELEASES. - Prior to final payment, the Contractor will submit evidence that all payrolls, material bills, and other indebtedness connected with the work have been paid as required by the Owner.
- V. OBLIGATION TO DISCHARGE LIENS. - Acceptance by the Owner of the completed work performed by the Contractor and payment therefore by the Owner will not relieve the Contractor of obligation to the Owner (which obligation is hereby acknowledged) to discharge any and all liens for the benefit of subcontractors, laborers, material-person, or any other persons performing labor upon the work or furnishing material or machinery for the work covered by this contract, which have attached to or may subsequently attach to the property, or interest of the Owner.
- VI. NOTICES AND APPROVAL IN WRITING. - Any notice, consent, or other act to be given or done hereunder will be valid only if in writing.
- VII. CLEANING UP. - The Contractor shall keep the premises free from accumulation of waste material and rubbish and at the completion of the work shall remove from the premises all rubbish, implements and surplus materials.
- VIII. WARRANTY. - Contractor warrants and guarantees that title to all work, materials, and equipment covered by any Application for Payment, whether incorporated in the Project or not, will pass to Owner no later than the time of payment free and clear of all Liens. If within one year after completion of the work, any work is found to be defective, Contractor shall promptly, without cost to the Owner, correct such defective work as approved by the Owner.
- IX. INDEMNIFICATION. - Contractor shall defend and indemnify the city against claims brought or actions filed against the city or any of its officers, employees or agents for property damage, bodily injury or death to third persons, arising out of or relating to contractors work under the contract.
- X. WORKERS' COMPENSATION INSURANCE. - Contractor shall provide a certificate of insurance showing evidence of workers' compensation coverage or provide evidence of qualification as a self-insurer of workers' compensation.
- XI. LIABILITY INSURANCE REQUIREMENTS. - A certificate of insurance acceptable to the City shall be filed with the City prior to the commencement of the work. The certificate and the required insurance policies shall contain a provision that the coverage afforded under the contract will not be canceled or allowed to expire until at least 30 days prior written notice has been given to the city. Contractor shall maintain commercial general liability (CGL) insurance with a limit of not less than \$1,000,000 each occurrence and an aggregate limit of not less than \$2,000,000. The CGL insurance shall cover liability arising from premises, operations, independent contractors, subcontractors, products-completed operations, personal injury and advertising injury, and contractually-assumed liability. The City and FOCUS Engineering, Inc. shall be named as an additional insured under the CGL. Contractor shall maintain automobile liability insurance, and if necessary, umbrella liability insurance with a limit of not less than \$1,000,000 each accident and an aggregate limit of not less than \$2,000,000. The insurance shall cover liability arising out of any auto, including owned, hired, and non-owned autos.

**QUOTE PROPOSAL FOR THE
2021 STRIPING PROJECT
LAKE ELMO, MINNESOTA**

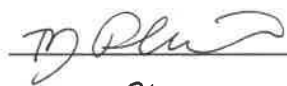
ITEM NO.	ITEM	UNIT	QUANTITY	UNIT PRICE	TOTAL AMOUNT
1	4" Solid Line – White Epoxy	LF	7,731	.28	2,164.68
2	4" Solid Line – Yellow Epoxy	LF	5,315	.28	1,488.20
3	4" Double Solid Line – Yellow Epoxy	LF	2,252	.56	1,261.12
4	24" Solid Line – White Epoxy Stop Bars	LF	30	12.00	360.00
5	Pavement Message Turn Arrows – White Epoxy	EA	1	105.00	105.00
TOTAL LAKE ELMO STRIPING PROJECT					\$5,379.00

Payment for striping project streets in accordance with the Contract Documents will be per Linear Foot for line markings and Per Each for symbols and turn arrows. We have examined the site of the work and are acquainted with all conditions affecting the construction of the work.

We understand and agree that the City may chose to award the project to the lowest responsible quote or in the best interest of the City. The City reserves the right to reject any or all quotes, to waive any informalities in any Quote, and to omit any part of the above work.

We agree that if this Proposal is accepted, we will execute a Contract in the form attached to this bid package. If we are awarded the Contract, we will complete the work by **OCTOBER 15, 2021**.

Respectfully submitted,

Firm Name Sir Lines-A-Lot LLC
 Signature 
 Signed by T.J. Phillips
 Title Estimator
 Contact Phone Number 952-913-8382
 Address 7175 Cahill Road
Edina, MN 55439



7175 Cahill Rd.
Edina, MN 55439
Phone (952) 913-8382 Fax (612) 926-8201

Quotation For:
Project No. 2021.108
Lake Elmo Striping, 2021
City of Lake Elmo, MN

Quotation
DATE 6/24/2021
Quotation # H21-0690
Prepared by: T.J. Phillips

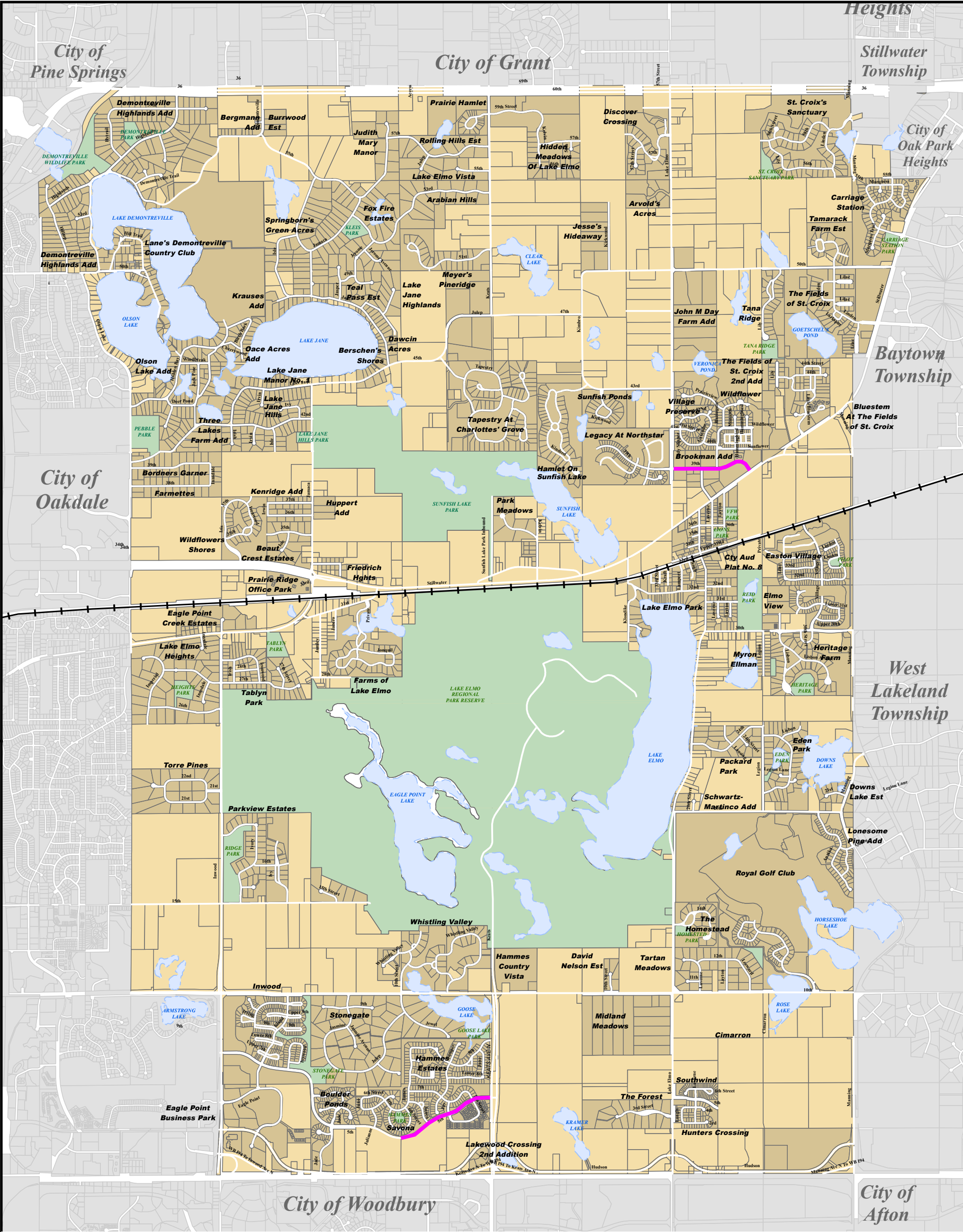
ITEM NO.	DESCRIPTION	UNIT	QUANTITY	PRICE	AMOUNT
1	4" SOLID LINE - WHITE EPOXY	LF	7,731.00	\$ 0.28	\$ 2,164.68
2	4" SOLID LINE - YELLOW EPOXY	LF	5,315.00	\$ 0.28	\$ 1,488.20
3	4" DOUBLE SOLID LINE - YELLOW EPOXY	LF	2,252.00	\$ 0.56	\$ 1,261.12
4	24" SOLID LINE - WHITE EPOXY STOP BARS	LF	30.00	\$ 12.00	\$ 360.00
5	PAVEMENT MESSAGE TURN ARROWS - WHITE EPOXY	EA	1.00	\$ 105.00	\$ 105.00
				TOTAL	\$ 5,379.00

- Notes:**
- 1.) Does not include any brooming, late season markings, parking stall/trail striping, or pavement marking removals.
 - 2.) Bond fee not included. If required, add 1.5% to total quote price. No retainage.
 - 3.) This quote includes **ONE** mobilization to complete this project. Additional, if requested, are \$750.00 each.
 - 4.) Does not include any interim or temporary pavement markings. Interim markings are NOT incidental to this quote.
 - * No Installation or removal of temporary tape or TRPM's.
 - 5.) Assumes all pavement markings are surface applied Epoxy only. Not ground in or wet reflective.
 - 6.) Does not include any traffic control. Any lane closures, flaggers, TMA trucks, etc. will be provided by the prime/traffic control contractor.
 - 7.) Owner/engineer must be on site to assist and approve layout of all new pavement markings.
 - 8.) Final quantities will be invoiced.

If you have any questions concerning this quotation, contact T.J. Phillips: 952-913-8382; sales@linesalot.com.

WE LOOK FORWARD TO THE OPPORTUNITY TO WORK WITH YOU!

Accepted by: _____ Date: _____



2021 Striping

0 0.5 1 Miles

Map Date: November 2020

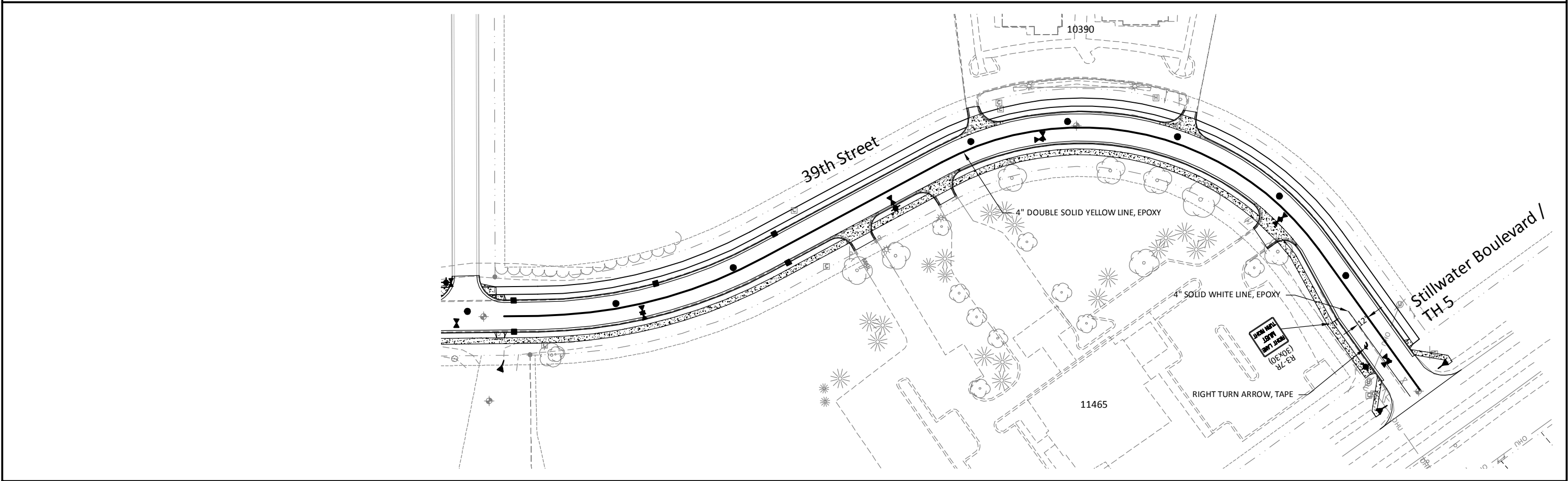
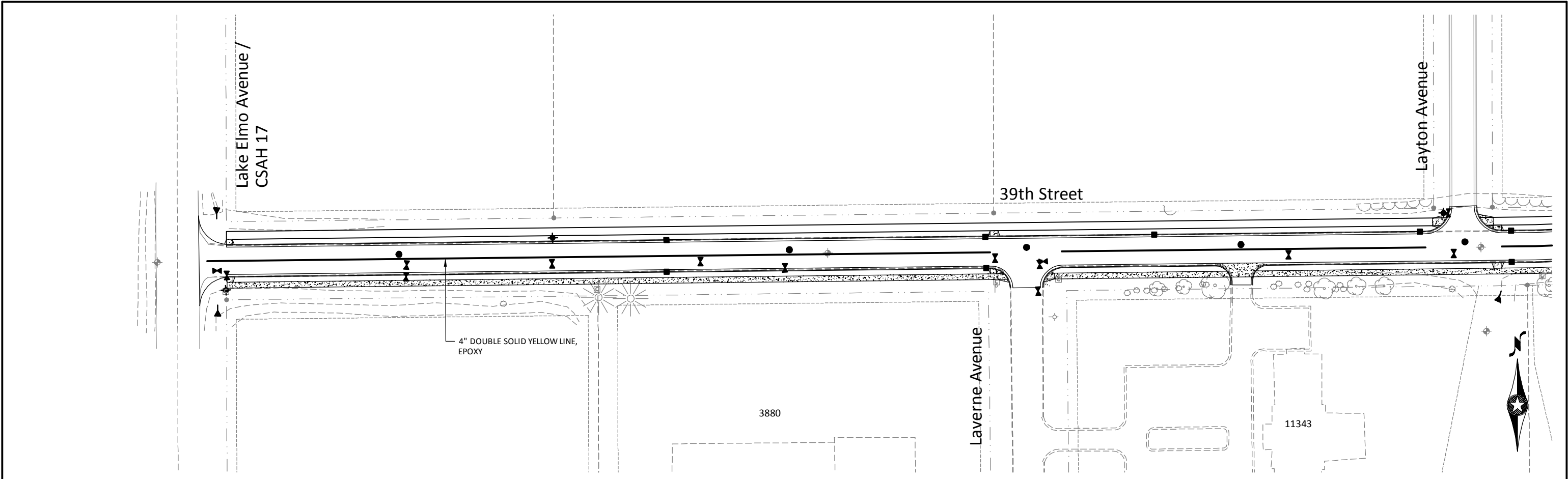
Created By: Planning Department

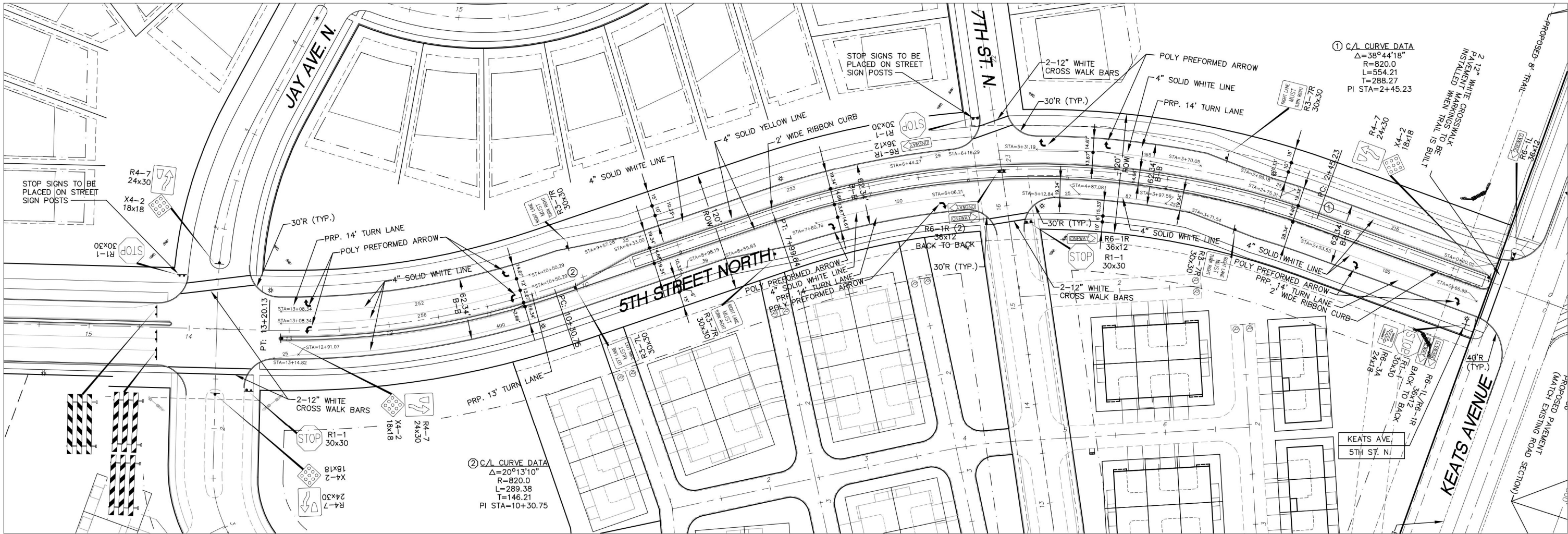
CITY OF LAKE ELMO, MINNESOTA
2020 STRIPING PROJECT
PROJECT NO. 2020.108

STREET LIST AND STRIPING TABULATION

Street	FROM:	TO:	Length (LF)	Single White (LF)	Single Yellow (LF)	Double Yellow (LF)	Stop Bar (LF)	Turn Arrows (EA)	Notes
5th St N	Keats (CSAH 19)	Julia Ave N	2959	7646	5315		30		Provide 24" White Stop Bar at CSAH 19 Intersection
39th St N	Lake Elmo Ave (CSAH 17)	Stillwater Blvd (CSAH 15)	2434	85		2252		1	

Sum (LF): 5,393 7,731 5,315 2,252 30 1





SIGNING/PAVEMENT & MARKING/LIGHTING NOTES:

- STREET LIGHTING SHALL BE INSTALLED PER CITY STANDARDS 5 FEET BACK OF CURB IN LOCATIONS SHOWN ON PLAN.
- ALL SIGNS MUST MEET MMUTCD.
- ALL SIGN SHEATHING TO BE HIGH INTENSITY DIAMOND GRADE DG3.
- SIGN POSTS TO BE GREEN POWDERED PAINTED FINISH, 3.0 lbs/FT.
- CONTRACTOR IS RESPONSIBLE FOR FURNISHING & INSTALLING STREET SIGNS.
- SIGN PANELS: SIGN PANELS SHALL BE IN ACCORDANCE WITH THE LATEST VERSION OF THE MNDOT STANDARD SIGNS MANUAL, THE MINNESOTA TRAFFIC ENGINEERING MANUAL, THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MMUTCD), AND MNDOT SPECIFICATIONS 2564 AND 3352. ALL SIGN PANELS SHALL BE NEW. SIGN FACE MATERIAL SHALL BE REFLECTIVE SIGN SHEETING MEETING 3M DIAMOND GRADE DG3, OR APPROVED EQUAL. SIGN PANELS SHALL BE OF THE TYPE AND QUANTITIES AS SHOWN IN THE PLANS.
- STREET NAME SIGNS: ALL STREET SIGN PANELS TO BE MANUFACTURED SHALL BE APPROVED BY THE LAKE ELMO DEPARTMENT OF PUBLIC WORKS PRIOR TO FABRICATION.
- POLY PREFORMED PAVEMENT MATERIAL SHALL BE USED FOR ALL PAVEMENT SYMBOLS.
- PAVEMENT MARKINGS MUST BE EPOXY RESIN WITH DROP-ON GLASS BEADS PER CITY OF LAKE ELMO STANDARD SPECIFICATIONS.

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 - ALL OTHER PAVEMENT MARKING SYMBOLS SHALL BE 3M STAMARK HIGH PERFORMANCE PAVEMENT MARKING TAPE, SERIES 380, OR APPROVED EQUAL.
- ALL STREET SIGNS & POSTS ARE TO BE PROVIDED BY DEVELOPER PER CITY OF LAKE ELMO DETAIL PLATE 706.
 - LONGER STREET SIGN TO BE PLACED ON THE BOTTOM.
 - IF STREET SIGN PLATES ARE THE SAME LENGTH, THEN HIGHER VOLUME STREET SIGN TO BE PLACED ON BOTTOM.

CONTRACTOR NODLAND CONSTRUCTION CO.
RECORD DRAWING
CONFORMING TO CONSTRUCTION RECORDS.
BY Joe Schramm DATE 03/12/16
WESTWOOD PROFESSIONAL SERVICES

Site Legend

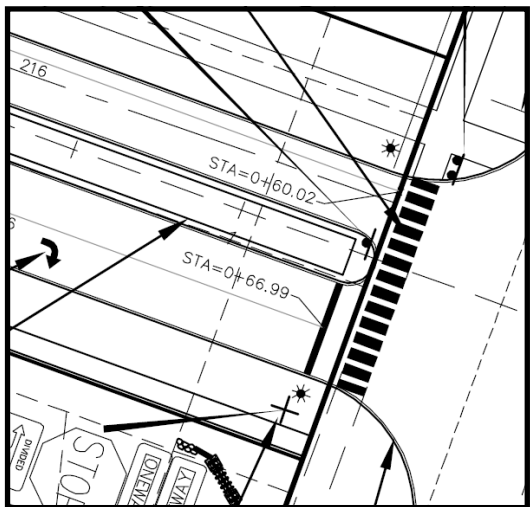
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---	---	LOT LINE
---	---	SETBACK LINE
---	---	EASEMENT LINE
---	---	CURB AND GUTTER
---	---	POND NORMAL WATER LEVEL
---	---	RETAINING WALL
---	---	FENCE
---	---	CONCRETE PAVEMENT
---	---	CONCRETE SIDEWALK
---	---	HEAVY DUTY BITUMINOUS PAVEMENT
---	---	NORMAL DUTY BITUMINOUS PAVEMENT
---	---	NUMBER OF PARKING STALLS
---	---	TRANSFORMER
---	---	SITE LIGHTING
---	---	TRAFFIC SIGN
---	---	POWER POLE
---	---	BOLLARD / POST

MARKINGS FOR PEDESTRIAN CROSSWALKS

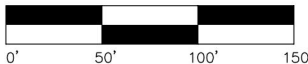
(L) WIDTH OF INSIDE LANE	(W) WIDTH OF PAINTED AREA	(S) WIDTH OF SPACE
9'	2.0'	2.5'
10'	2.5'	2.5'
11'	2.5'	3.0'
12'	3.0'	3.0'
13'	3.0'	3.5'

CROSSWALK NOTES:

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- A MINIMUM OF 1.5 FT. CLEAR DISTANCE SHALL BE LEFT ADJACENT TO THE CURB. IF LAST PAINTED AREA FALLS INTO THIS DISTANCE IT MUST BE OMITTED.
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- AT SKEWED CROSSWALKS, THE BLOCKS ARE TO REMAIN PARALLEL TO THE LANE LINES AS SHOWN.



PROPOSED STOP BAR LOCATION



Latest Revision Date: 02/23/17

City Project Number: 2012130
Construction Completion: October 2016

Date: 12/13/13 Sheet: 18 OF 19

Savona

Lake Elmo, Minnesota

5th Street Signing,
Striping & Geometric
Plan



Westwood

Westwood Professional Services, Inc.
7699 Anagram Drive
Eden Prairie, MN 55344
PHONE 952-937-5150
FAX 952-937-5822
TOLL FREE 1-888-937-5150
www.westwoodsps.com

I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly licensed PROFESSIONAL ENGINEER under the laws of the State of Minnesota.
Ryan M. Bluhm
Date: 02/23/17 License No. 41257

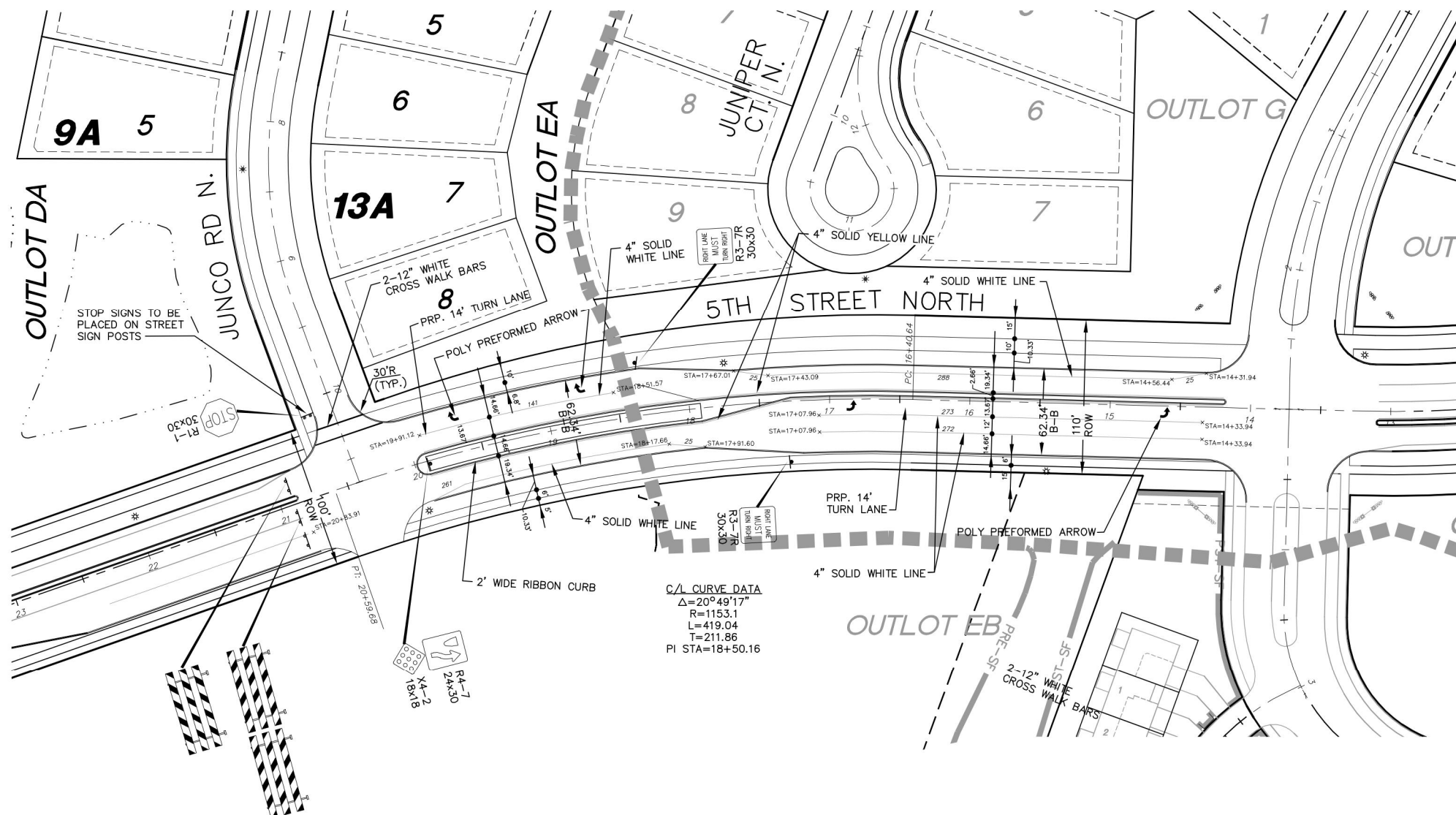
Revisions:
06/10/14 CITY COMMENTS
06/25/14 REVISED OUTLOTS
07/25/14 WATER SERVICE REVISION
08/04/14 WH1B & IRRIGATION SERVICE
08/28/14 WATER SERVICE REVISION
09/02/14 WATER SERVICE REVISION
09/29/14 REVISED DRAINILE
02/05/15 RECORD UTILITY PLAN
02/23/15 RECORD UTILITY PLAN - CITY COMMENTS
03/12/16 CITY COMMENTS
10/17/16 REVISED STRIPING PER CITY COMMENTS
02/23/17 CITY COMMENTS RECORD PLAN

Designed: CLJ
Checked: RMB
Drawn: HW
Record Drawing by/date: JAS

Prepared for:

Lennar Corporation

16305 36th Avenue North Suite 600
Plymouth, Minnesota 55446



CONTRACTOR NODLAND CONSTRUCTION CO.

RECORD DRAWING
 CONFORMING TO CONSTRUCTION RECORDS.
 BY Joe Schramm DATE 01/22/16
 WESTWOOD PROFESSIONAL SERVICES

SIGNING/PAVEMENT & MARKING/LIGHTING NOTES:

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Site Legend

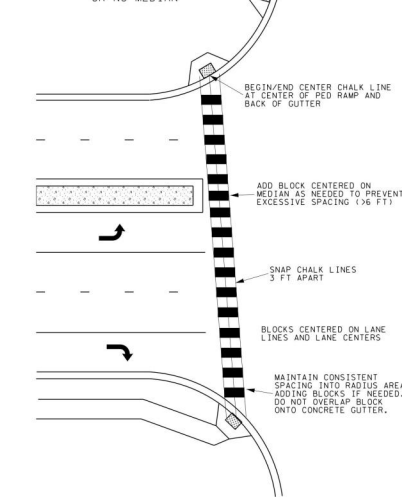
EXISTING	PROPOSED	
		PROPERTY LINE
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		SETBACK LINE
		EASEMENT LINE
		CURB AND GUTTER
		POND NORMAL WATER LEVEL
		RETAINING WALL
		FENCE
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		CONCRETE SIDEWALK
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		TRAFFIC SIGN
		POWER POLE
		BOLLARD / POST

MARKINGS FOR PEDESTRIAN CROSSWALKS

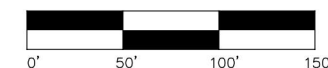
(L) WIDTH OF INSIDE LANE	(W) WIDTH OF PAINTED AREA	(S) WIDTH OF SPACE
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10'	2.5'	2.5'
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CROSSWALK NOTES:

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- AT SKEWED CROSSWALKS, THE BLOCKS ARE TO REMAIN PARALLEL TO THE LANE LINES AS SHOWN.

STANDARD CROSSWALK BLOCK LAYOUT
FOR NON-PROTRUDING MEDIAN
OR NO MEDIAN

PAVEMENT MARKINGS FOR PEDESTRIAN CROSSINGS



Latest Revision Date: 03/02/17

0000565.02SPF01.dwg

City Project Number: 2014138
 Construction Completion: October 2016

Date: 06/25/14 Sheet: 20 OF 21

**Savona 2nd
 Addition**
 Lake Elmo, Minnesota

**5th Street Signing,
 Striping & Geometric
 Plan**



Westwood Professional Services, Inc.
 7899 Ansagram Drive
 Eden Prairie, MN 55344
 PHONE 952-937-5150
 FAX 952-937-5822
 TOLL FREE 1-888-937-5150
 www.westwoodps.com

I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly licensed PROFESSIONAL ENGINEER under the laws of the State of Minnesota.

Ryan M. Bluhm
 Date: 03/02/17 License No. 41257

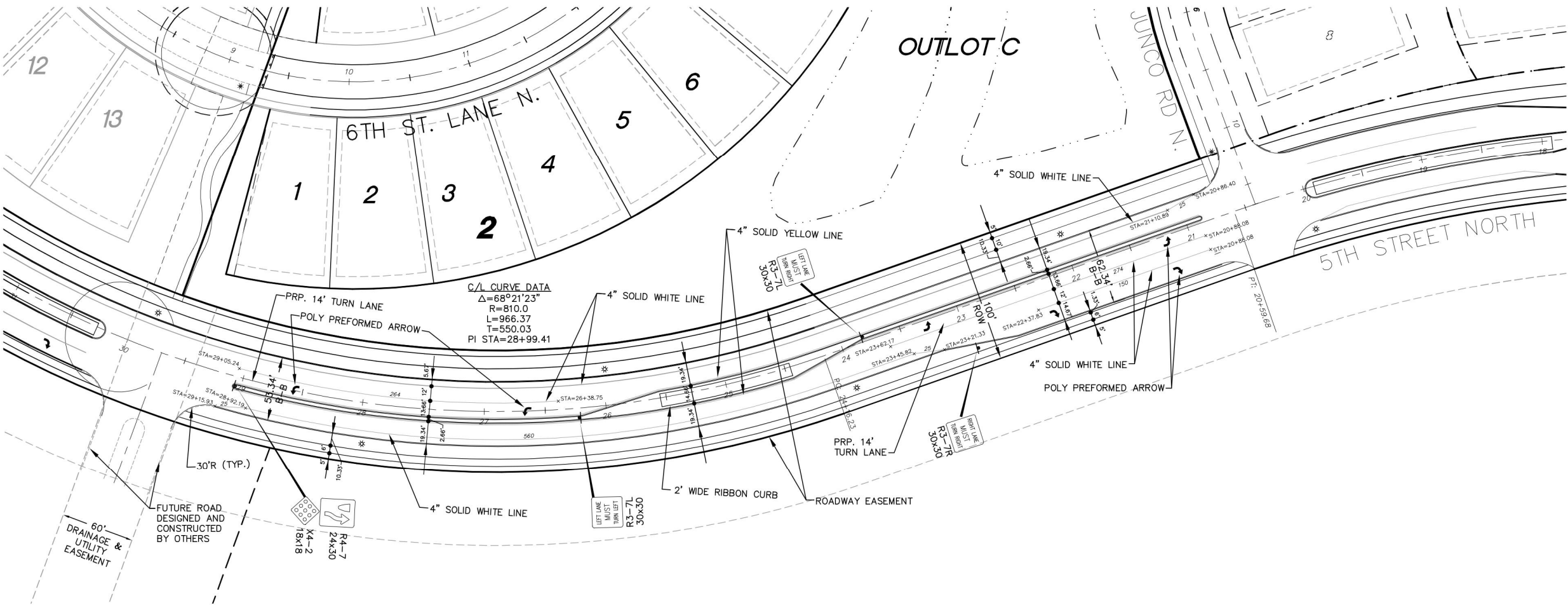
Revisions:

10/15/14 CITY COMMENTS	10/17/16 REVISED STRIPING PER CITY COMMENTS
10/22/14 CITY COMMENTS	03/02/17 CITY COMMENTS RECORD PLANS
10/28/14 CITY COMMENTS	
11/24/14 REVISED SERVICES TO BLOCKS 7 & 8	
09/18/15 CITY COMMENTS	
01/22/16 RECORD INFORMATION	

Designed:	CLJ
Checked:	RMB
Drawn:	HW
Record Drawing by/date:	JAS

Prepared for:

Lennar Corporation
 16305 36th Avenue North Suite 600
 Plymouth, Minnesota 55446



SIGNING/PAVEMENT & MARKING/LIGHTING NOTES:

1. STREET LIGHTING SHALL BE INSTALLED PER CITY STANDARDS 5 FEET BACK OF CURB IN LOCATIONS SHOWN ON PLAN.

2. ALL SIGNS MUST MEET MMUTCD.

3. ALL SIGN SHEATHING TO BE HIGH INTENSITY DIAMOND GRADE DG3.

4. SIGN POSTS TO BE GREEN POWDERED PAINTED FINISH, 3.0 lbs/FT.

5. CONTRACTOR IS RESPONSIBLE FOR FURNISHING & INSTALLING STREET SIGNS.

6. SIGN PANELS: SIGN PANELS SHALL BE IN ACCORDANCE WITH THE LATEST VERSION OF THE MnDOT STANDARD SIGNS MANUAL, THE MINNESOTA TRAFFIC ENGINEERING MANUAL, THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MMUTCD), AND MnDOT SPECIFICATIONS 2564 AND 3352. ALL SIGN PANELS SHALL BE NEW. SIGN FACE MATERIAL SHALL BE REFLECTIVE SIGN SHEETING MEETING 3M DIAMOND GRADE DG3, OR APPROVED EQUAL. SIGN PANELS SHALL BE OF THE TYPE AND QUANTITIES AS SHOWN IN THE PLANS.

7. STREET NAME SIGNS: ALL STREET SIGN PANELS TO BE MANUFACTURED SHALL BE APPROVED BY THE LAKE ELMO DEPARTMENT OF PUBLIC WORKS PRIOR TO FABRICATION. POLY PREFORMED PAVEMENT MATERIAL SHALL BE USED FOR ALL PAVEMENT SYMBOLS.

8. PAVEMENT MARKINGS MUST BE EPOXY RESIN WITH DROP-ON GLASS BEADS PER CITY OF LAKE ELMO STANDARD SPECIFICATIONS.
10. EPOXY RESIN. EPOXY RESIN FOR PAVEMENT MARKINGS SHALL MEET THE REQUIREMENTS OF MnDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION, 2005 EDITION.

11. DROP-ON GLASS BEADS: DROP-ON GLASS BEADS FOR PAVEMENT MARKINGS SHALL MEET THE REQUIREMENTS OF MnDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION, 2005 EDITION.

12. POLYMER PREFORMED MATERIAL:

A. CROSSWALK AND STOP BAR PAVEMENT MARKINGS SHALL BE 3M STAMARK INTERSECTION GRADE TAPE, SERIES A420, OR APPROVED EQUAL.

B. ALL OTHER PAVEMENT MARKING SYMBOLS SHALL BE 3M STAMARK HIGH PERFORMANCE PAVEMENT MARKING TAPE, SERIES 380, OR APPROVED EQUAL.

13. ALL STREET SIGNS & POSTS ARE TO BE PROVIDED BY DEVELOPER PER CITY OF LAKE ELMO DETAIL PLATE 706.

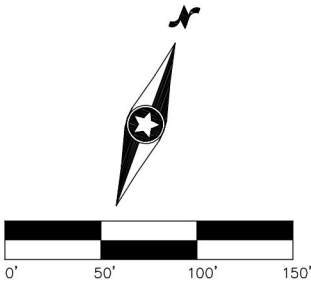
• LONGER STREET SIGN TO BE PLACED ON THE BOTTOM.

• IF STREET SIGN PLATES ARE THE SAME LENGTH, THEN HIGHER VOLUME STREET SIGN TO BE PLACED ON BOTTOM.

Site Legend

EXISTING	PROPOSED	
		PROPERTY LINE
		LOT LINE
		SETBACK LINE
		EASEMENT LINE
		CURB AND GUTTER
		POND NORMAL WATER LEVEL
		RETAINING WALL
		FENCE
		CONCRETE PAVEMENT
		CONCRETE SIDEWALK
		HEAVY DUTY BITUMINOUS PAVEMENT
		NORMAL DUTY BITUMINOUS PAVEMENT
		NUMBER OF PARKING STALLS
		TRANSFORMER
		SITE LIGHTING
		TRAFFIC SIGN
		POWER POLE
		BOLLARD / POST

CONTRACTOR NODLAND CONSTRUCTION CO.
RECORD DRAWING
CONFORMING TO CONSTRUCTION RECORDS.
BY Frankie Hagen DATE 12/27/16
WESTWOOD PROFESSIONAL SERVICES



0000565.03SSF01.dwg

Westwood

Phone (952) 937-5150 7699 Anagram Drive
Fax (952) 937-5822 Eden Prairie, MN 55344
Toll Free (888) 937-5150 westwoodps.com
Westwood Professional Services, Inc.

I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly licensed PROFESSIONAL ENGINEER under the laws of the State of Minnesota.

John Bender
Date 03/06/17 License No. 43358

Revisions:

07/17/15 City Comments	03/06/17 City Comments Record Plans
08/12/15 Revised Per Comments	
08/26/15 City Comments	
09/06/15 Revised per City Comments	
01/22/16 Record Information	
10/17/16 REVISED STRIPING PER CITY COMMENTS	

Designed:	CLJ
Checked:	JHB
Drawn:	DWR
Record Drawing by/date:	FDH/III

Prepared for:

Lennar Corporation
16305 36th Avenue North Suite 600
Plymouth, Minnesota 55446

City Project Number: 2015.124
Construction Completion: October 2016
Savona 3rd Addition
Lake Elmo, Minnesota

Date: 04/27/15 Sheet: 20 OF 21
(1213)
5th Street Signing, Striping & Geometric Plan

SECTION 3217 – PAVEMENT MARKINGS

SCOPE:

This Work shall consist of furnishing and applying pavement markings for control and guidance of traffic in accordance with these Specifications and at locations shown in the Plans, or as directed by the Engineer.

PRODUCTS:

1. EPOXY RESIN. Epoxy resin for pavement markings shall meet the requirements of MnDOT Standard Specifications for Construction, 2018 Edition.
2. DROP-ON GLASS BEADS: Drop-On Glass Beads for pavement markings shall meet the requirements of MnDOT Standard Specifications for Construction, 2018 Edition.
3. PREFORMED THERMOPLASTIC PAVEMENT MARKING SYMBOLS: Reflective thermoplastic markings shall meet the requirements of MnDOT Standard Specifications for Construction, 2018 Edition (Section 3356) and does not require the preheating of the pavement surface.

EXECUTION:

1. PAVEMENT MARKINGS:
 - A. All Pavement Marking, except pavement marking symbols, shall be Epoxy Resin with Drop-on Glass Beads.
 - B. All Pavement Marking Symbols shall be ground in and comply with MnDOT approved products.
2. TRAFFIC CONTROLS: The Contractor shall provide Traffic Control for the pavement marking operations in conformance with the Minnesota Manual of Uniform Traffic Control Devices. Suitable warning signs shall be placed near the beginning of the worksite and well ahead of the worksite for alerting approaching traffic from both directions. Small markers shall be placed along newly marked lines to control traffic and prevent damage to newly marked surfaces. Pavement marking equipment shall be identified with large warning signs indicating slow-moving equipment in operation.
3. SURFACE PREPARATION: All surfaces to be marked shall be thoroughly cleaned immediately prior to an application of pavement marking. Dust, dirt, and other granular surface deposits shall be removed by sweeping, blowing with compressed air, rinsing with water, or a combination of these methods as required. Rubber deposits, surface laitance, existing paint markings, and other coatings adhering to the pavement shall be completely removed with scrapers, wire brushes, sandblasting, approved chemicals, or mechanical abrasion as directed. Where oil or grease is present, affected areas shall be scrubbed with several applications of trisodium phosphate solution or other approved detergent or degreaser, and rinsed thoroughly after each application. After cleaning, oil-soaked areas shall be sealed with cut shellac to prevent bleeding. Pavement surfaces shall be allowed to dry when water is used for cleaning. Surfaces shall be recleaned when work has been stopped due to rain.
 - A. Cleaning Existing Pavement Markings. In general, markings shall not be placed over existing pavement marking patterns. Existing pavement markings shall be removed that are in good condition but interfere or conflict with the newly applied markings. Deteriorated or obscured markings that are not misleading or confusing or interfere with the adhesion of the new marking material do not require removal. New preformed and thermoplastic pavement markings shall not be applied over existing preformed or thermoplastic markings. Whenever grinding, scraping, sandblasting, or other operations are performed, the Work must be conducted in such a manner

that the finished pavement surface is not damaged or left in a pattern that is misleading or confusing.

- B. When surface preparation operations are completed, the pavement surface shall be blown-off with compressed air to remove residue resulting from the cleaning work.
4. APPLICATION: Pavement markings shall be placed in accordance with the details shown in the Plans and as directed by the Engineer. The Contractor shall place spotting at appropriate points to provide horizontal control for striping, and determine necessary starting and cutoff points. The Contractor must request Engineer review and approval prior to proceeding with striping operations. Material shall not be applied over a longitudinal joint.
- A. Epoxy. The epoxy material application shall immediately follow the pavement cleaning and shall be applied in accordance with MnDOT specifications. When epoxy pavement is applied to a MnDOT 2360 SUPERPAVE wearing course surface, the epoxy pavement marking wet film thicknesses shall be increased from a 15 mil to a 20 mil minimum wet film thickness.
- Placement of epoxy materials shall be permitted only on a clean, dry pavement surface and air and pavement temperatures must be at least 50 degrees F. Markings shall not be applied when the wind or other conditions cause a film of dust to be deposited on the pavement surface before the material can be applied. Permanent pavement markings shall not be placed over temporary tape markings.
- B. Glass Beads. Glass beads shall be applied immediately after application of the epoxy resin line to provide an immediate no-track system. For 20 mil applications, glass beads shall be applied at a rate of at least 25 LB/GAL.
 - C. Preformed Thermoplastic Pavement Marking Symbols. Material shall be installed following the ground in method. Installation shall be in accordance with manufacturer recommendations.
 - D. Tolerances. A tolerance of ¼-inch under or ¼-inch over the specified width will be allowed for striping provided the variation is gradual and does not detract from the general appearance. Broken line segments may vary up to ½-foot from the specified lengths provided the over and under variations are reasonably compensatory. Alignment deviations from the specified lane widths shall not exceed 1-inch. Establishment of application tolerances shall not relieve the Contractor of their responsibility to comply closely with the planned dimensions.
5. PROTECTION OF PAVEMENT MARKINGS: The Contractor shall furnish and install all necessary warning and directional signs and devices in order to maintain traffic while pavement markings are being applied in the presence of traffic, and to protect uncured markings as needed until traffic can cross markings without damaging markings. When necessary, a pilot car and flaggers shall be used to provide adequate control and direction of traffic. Warning signs and barricades shall be placed only where marking operations are in progress, shall be relocated as often as necessary, and shall not be left in place over night. Unless approved by the Engineer, traffic shall be allowed to keep moving at all times and the striping equipment shall be operated in a manner that will not make it necessary for traffic to cross uncured markings.
6. CLEANING: Waste materials shall be removed or destroyed at the end of each work day. Upon completion of the Work, all containers and debris shall be removed from the site. Epoxy spots upon adjacent surfaces shall be carefully removed by approved procedures which will not damage the surfaces and the entire job shall be left clean and acceptable to the City.
7. CERTIFICATION: The Contractor shall furnish a certified report on the quality of materials shipped to the Project. This report shall not be interpreted as a basis for final acceptance. When required, all emptied containers shall be returned to the epoxy material storage area or made available for checking by the

Engineer. The Contractor shall make accurate accounting of the epoxy materials used in the Work.

8. CORRECTION OF DEFECTS: All pavement markings not conforming to the requirements of the Contract shall be removed and replaced or otherwise repaired to the satisfaction of the Engineer. Removal of unacceptable work shall be accomplished with suitable blasting or grinding equipment unless other means are authorized by the Engineer.

If the Engineer requires removal and replacement, the Contractor shall remove, by an approved process, at least 90% of the deficient line, with no excessive scarring of the existing pavement. The removal width shall be one inch wider all around the nominal width of the pavement marking to be removed.

END OF SECTION