



STAFF REPORT

DATE: August 10th, 2021

DISCUSSION

AGENDA ITEM: 2022 5th Street Median Improvements

SUBMITTED BY: Marty Powers, Public Works Director

REVIEWED BY: Kristina Handt, City Administrator

BACKGROUND: In 2020, Council reviewed options to change the 5th Street medians in order to reduce complaints about the appearance of the medians. Three options were presented to council at that workshop, the first included concreting all 5th St medians, the second was to change the existing medians to turf and the third to replant all medians with a more resistant group of plants and trees, which was completed in South wind development as a trial run. The South Wind median is still requiring more maintenance than Public Works can provide, is not meeting expectations from staff or residents and remains needing attention.

ISSUE BEFORE COUNCIL: Should Council direct Public Works to budget for 5th Street Median changes in 2022?

PROPOSAL DETAILS/ANALYSIS: Complaints continue as the existing 5th St median plantings continue to fail and are being overtaken with weeds. City owned irrigation systems in medians that have been accepted have been disconnected to save cost and reduce water demand. Staff is bringing options to council again, which would include concrete, turf and a combination of turf and less plantings. Included in your packet are the locations of the medians and the cost of each install and its maintenance.

FISCAL IMPACT: Estimated Installation and maintenance costs, which is presented attachments in your packet. The cost do not include any irrigation improvements, maintenance, electricity or water costs.

ATTACHMENTS:

1. Median location maps
2. Median improvement options

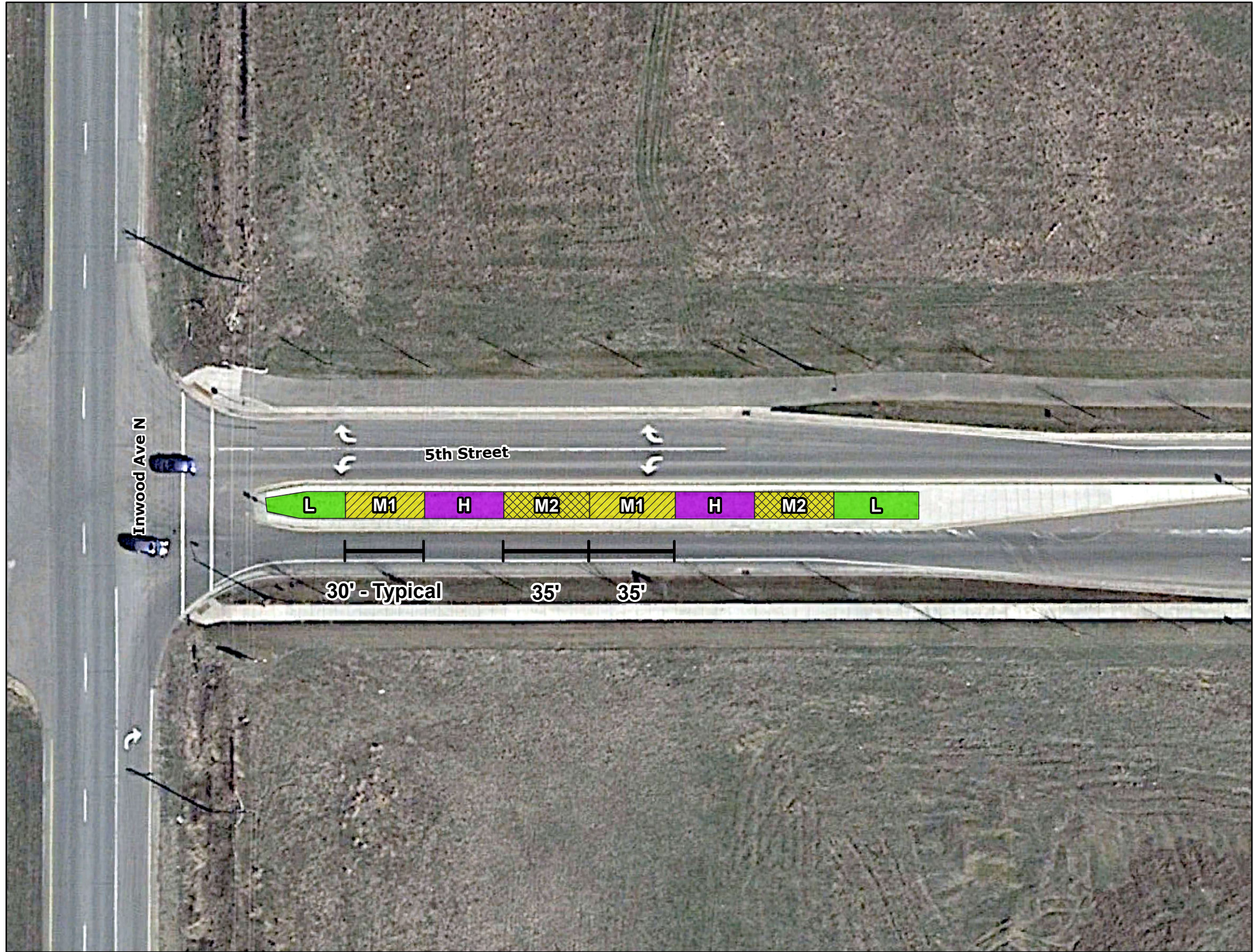
City of Lake Elmo
5th Street Median Redesign
Annual Installation Maintenance Estimates

Median	Concrete Option		Turf Option		Turf & Planting Bed Option (at Inwood Ave & Keats Ave)	
	Installation Cost	Annual Maintenance Cost*	Installation Cost	Annual Maintenance Cost**	Installation Cost	Annual Maintenance Cost***
Figure 1 (East of Inwood Avenue)	37,185.00	\$ 250.00	\$ 12,975.00	\$ 850.00	\$ 14,848.00	\$ 955.00
Figure 2 (East of Island Trail)	20,644.00	\$ 200.00	\$ 8,745.00	\$ 720.00	\$ 8,745.00	\$ 720.00
Figure 3 (East of Island Trail)	76,628.00	\$ 300.00	\$ 19,580.00	\$ 980.00	\$ 19,580.00	\$ 980.00
Figure 4 (West of Jade Trail)	104,726.00	\$ 400.00	\$ 31,110.00	\$ 1,240.00	\$ 31,110.00	\$ 1,240.00
Figure 5 (East of Jade Trail)	67,584.00	\$ 300.00	\$ 17,960.00	\$ 980.00	\$ 17,960.00	\$ 980.00
Figure 6 (East of Julianne)	102,428.00	\$ 400.00	\$ 25,820.00	\$ 1,240.00	\$ 25,820.00	\$ 1,240.00
Figure 7 (West of Junco)	17,826.00	\$ 200.00	\$ 7,290.00	\$ 720.00	\$ 7,290.00	\$ 720.00
Figure 8 (East of Junco)	31,249.00	\$ 250.00	\$ 11,350.00	\$ 850.00	\$ 11,350.00	\$ 850.00
Figure 9 (West of Keats)	125,072.00	\$ 400.00	\$ 35,320.00	\$ 1,110.00	\$ 38,967.00	\$ 1,790.00
Figure 10 (Southwind)	52,612.00	\$ 250.00	\$ 16,200.00	\$ 850.00	\$ 16,200.00	\$ 850.00
	\$ 635,954.00	\$ 2,950.00	\$ 186,350.00	\$ 9,540.00	\$ 191,870.00	\$ 10,325.00

*Concrete Option includes: annual debris clean-up 2 times a year.

** Turf Option includes: weekly mowing with fertilizing and weed control 2 times a year.

***Turf & Planting Bed Option includes: weekly mowing of turf areas with fertilizing and weed control 2 times a year.

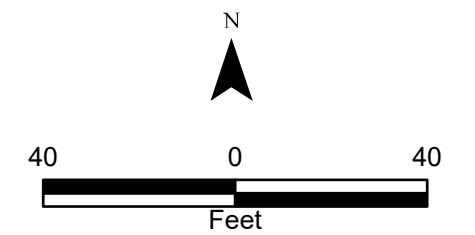
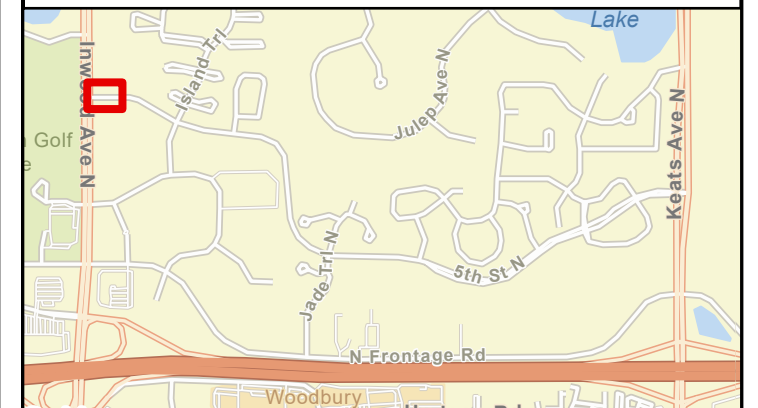


Legend

Landscape Vegetation

- Low
- Medium₁
- Medium₂
- High

Median Length = 245 LF



Path: C:\Users\KacHD0606\Documents\6443\0024\Pro\MyProject8\MyProject8.aprx
1/15/2020 3:27 PM KacHD0606 Layout: Site Detail Map

CITY OF LAKE ELMO

5th Street Center Median Landscape Plan



Responsive partner. Exceptional outcomes.

JAN 2020

Figure 1



Legend

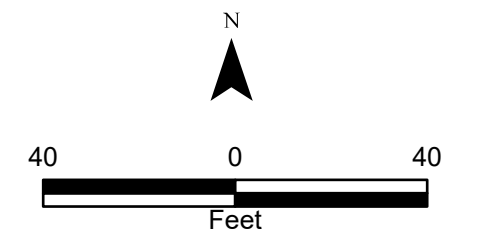
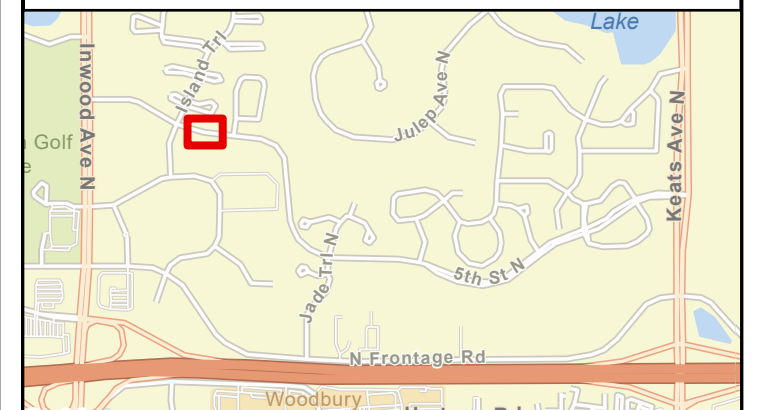
Landscape Vegetation

Low

Medium

High

Median Length = 115 LF



Path: C:\Users\KacHD0606\Documents\6443\0024\Pro\MyProject8\MyProject8.aprx
1/15/2020 3:27 PM KacHD0606 Layout: Site Detail Map

CITY OF LAKE ELMO

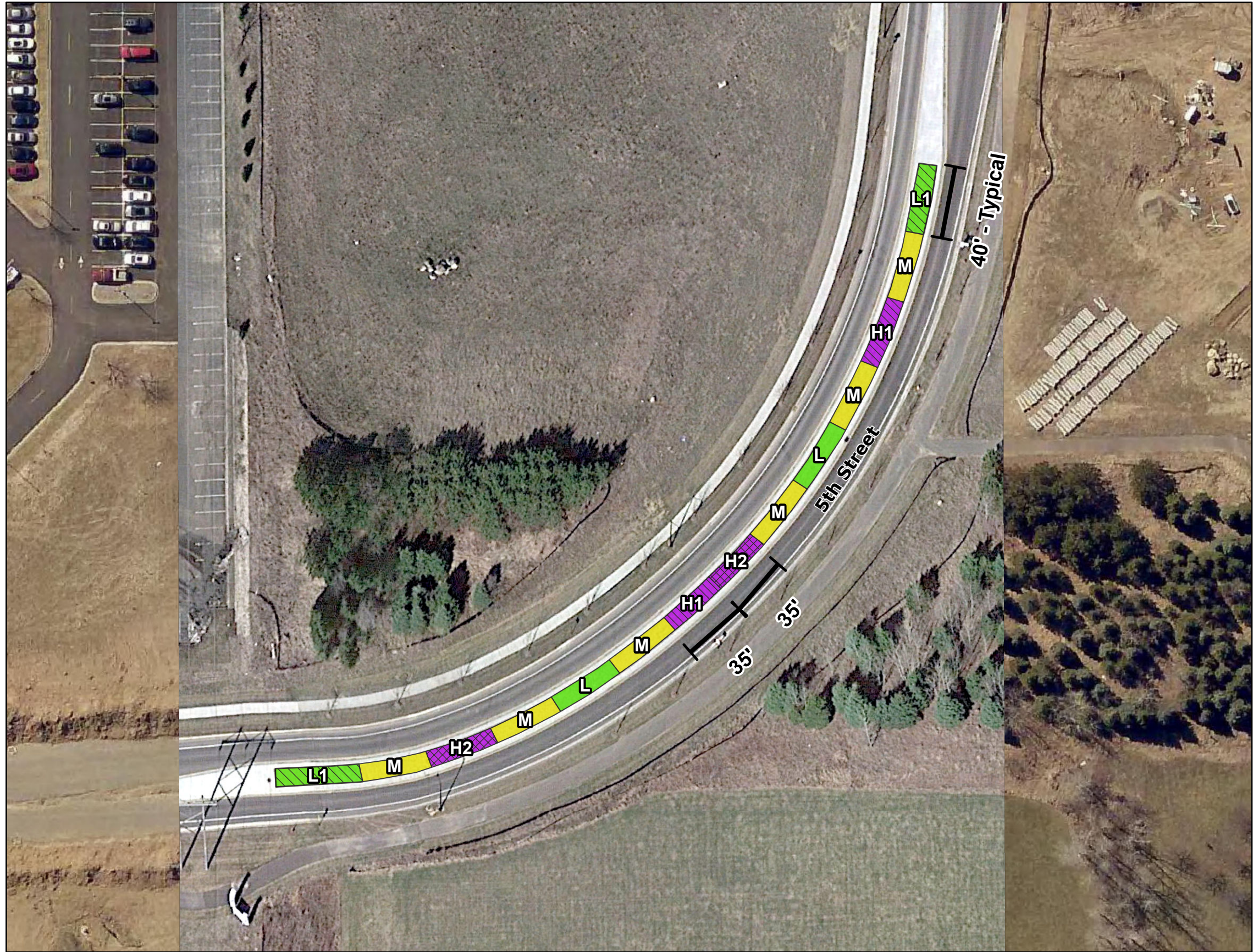
5th Street Center Median Landscape Plan



Responsive partner. Exceptional outcomes.

JAN 2020

Figure 2

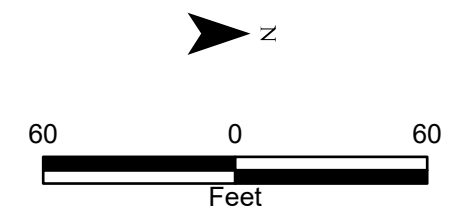
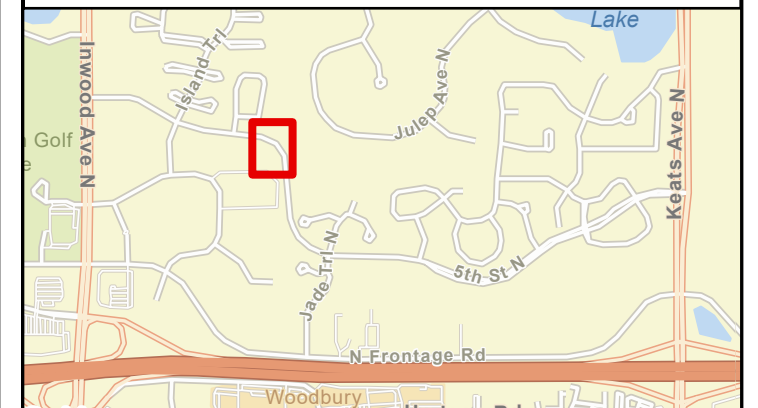


Legend

Landscape Vegetation

- Low
- Low₁
- Medium
- High₁
- High₂

Median Length = 550 LF



Path: C:\Users\KacHD0606\Documents\6443\0024\Pro\MyProject8\MyProject8.aprx
1/15/2020 3:27 PM KacHD0606 Layout: Site Detail Map

CITY OF LAKE ELMO

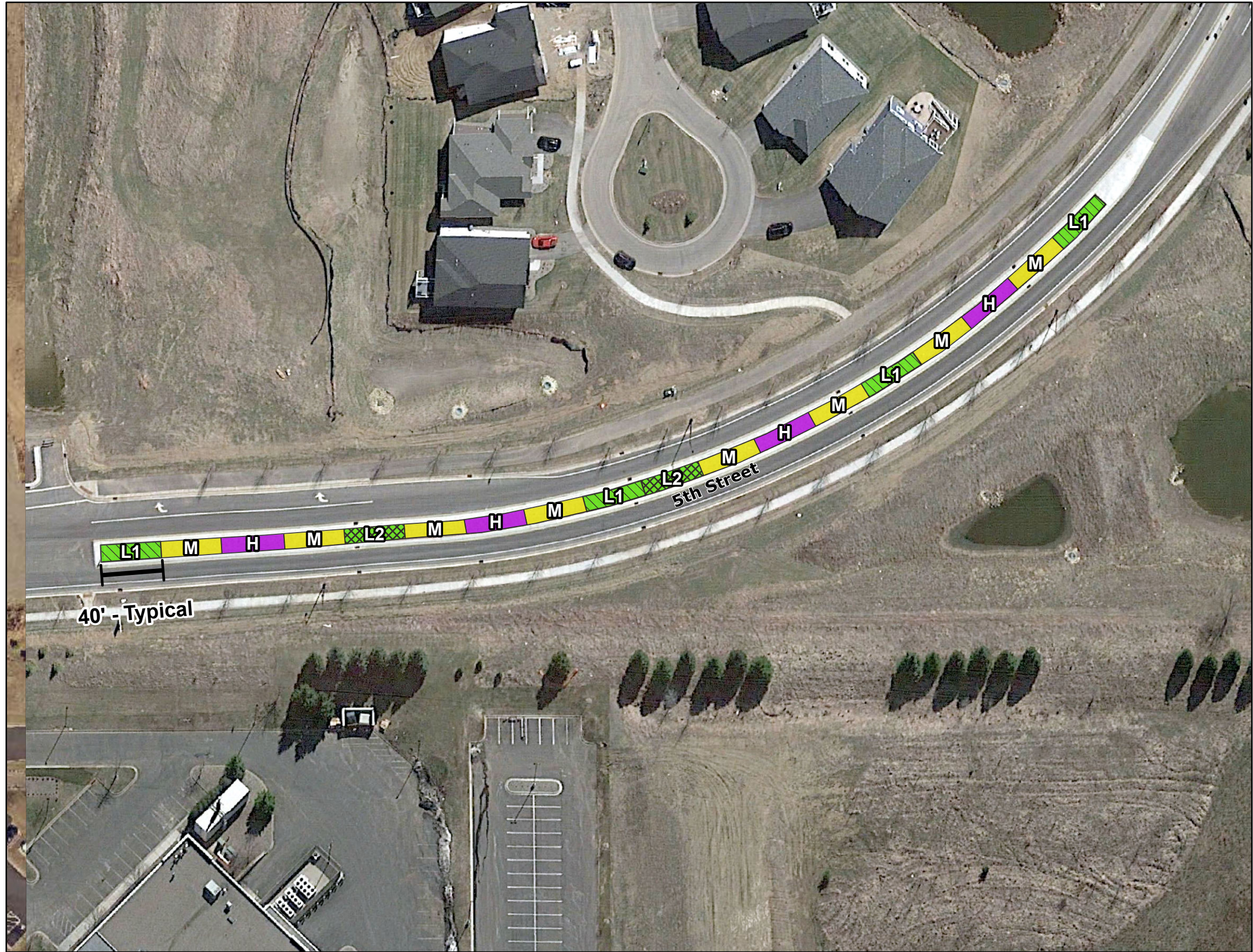
5th Street Center Median Landscape Plan



Responsive partner. Exceptional outcomes.





JAN 2020

Figure 3

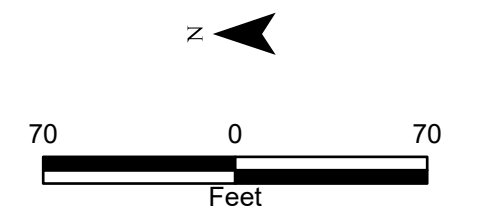
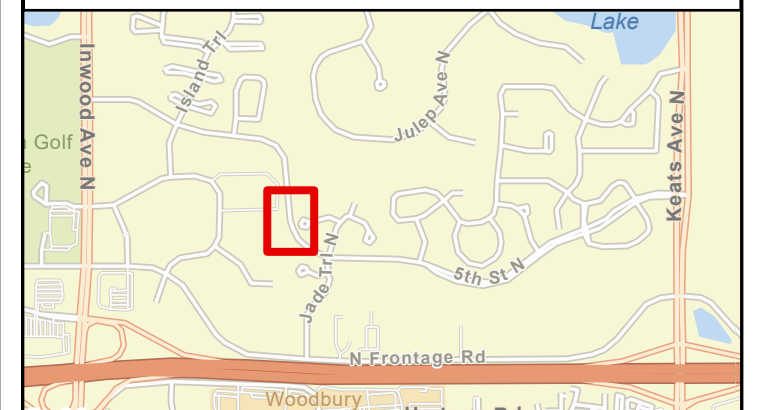


Legend

Landscape Vegetation

-  Low₁
-  Low₂
-  Medium
-  High

Median Length = 720 LF



Path: C:\Users\KacHD0606\Documents\6443\0024\Pro\MyProject8\MyProject8.aprx
1/15/2020 3:27 PM KacHD0606 Layout: Site Detail Map

CITY OF LAKE ELMO

5th Street Center Median Landscape Plan



Responsive partner. Exceptional outcomes.

JAN 2020

Figure 4

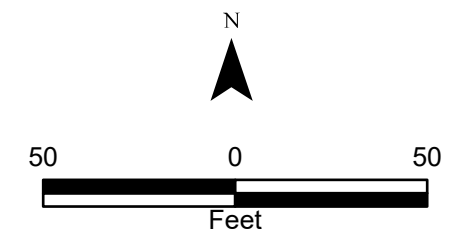
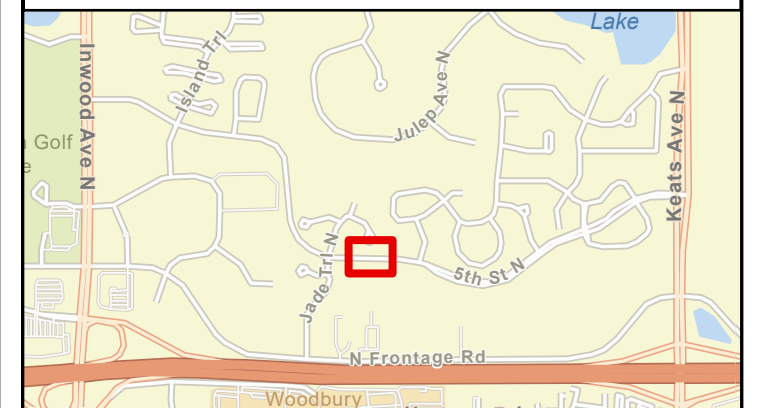


Legend

Landscape Vegetation

- Low
- Low₁
- Medium
- Medium₁
- Medium₂
- High

Median Length = 480 LF



Path: C:\Users\KacHD0606\Documents\6443\0024\Pro\MyProject8\MyProject8.aprx
1/13/2020 3:27 PM KacHD0606 Layout: Site Detail Map

CITY OF LAKE ELMO

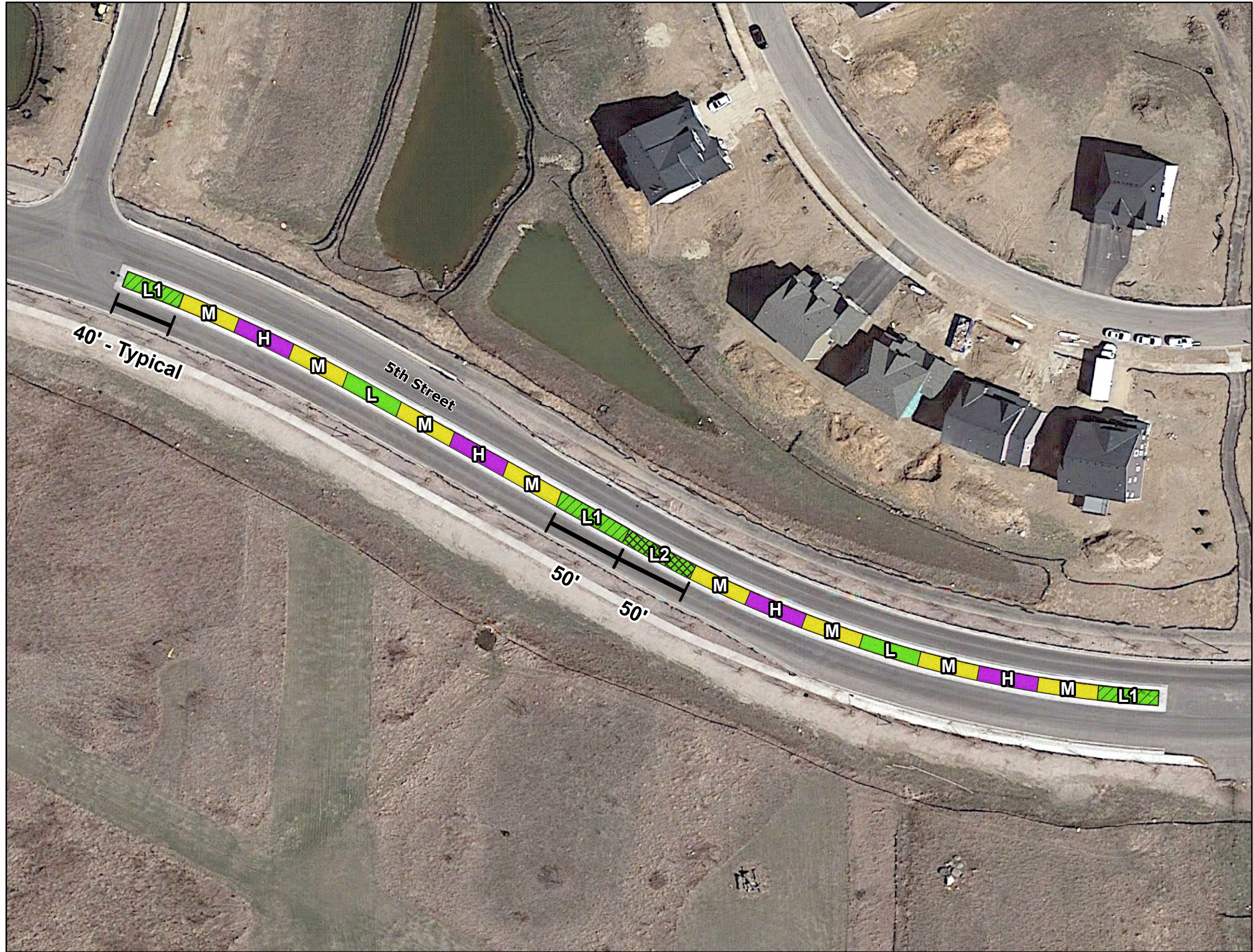
5th Street Center Median Landscape Plan



Responsive partner. Exceptional outcomes.






JAN 2020

Figure 5

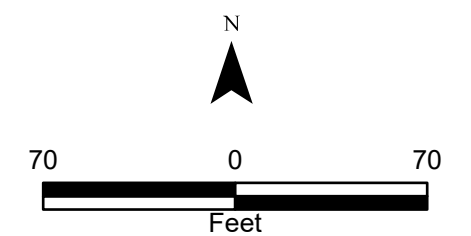
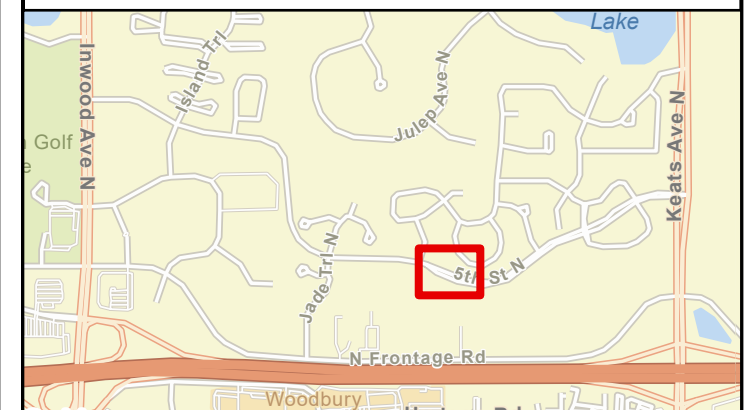


Legend

Landscape Vegetation

-  Low
-  Low₁
-  Low₂
-  Medium
-  High

Median Length = 740 LF



Path: C:\Users\KacHD0606\Documents\6443\0024\Pro\MyProject8\MyProject8.aprx
1/15/2020 3:27 PM KacHD0606 Layout: Site Detail Map

CITY OF LAKE ELMO

5th Street Center Median Landscape Plan



Responsive partner. Exceptional outcomes.

JAN 2020

Figure 6

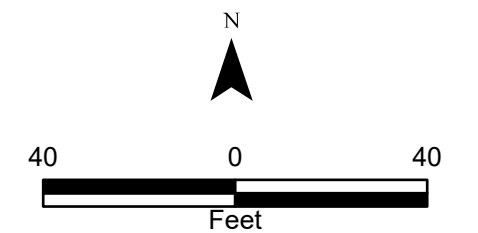
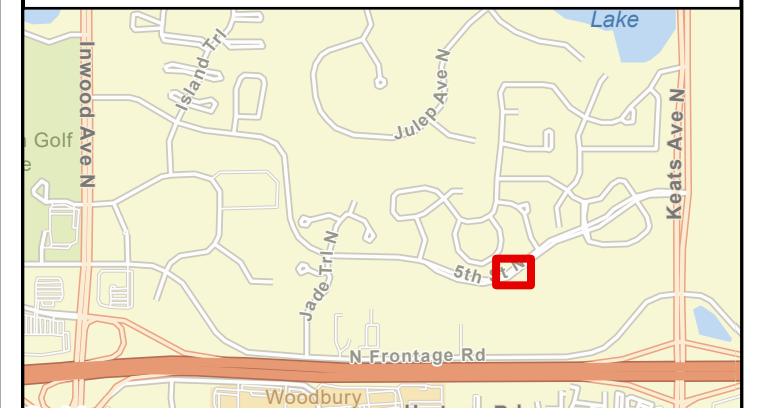


Legend

Landscape Vegetation

- Low
- Medium
- High

Median Length = 100 LF



Path: C:\Users\KacHD0606\Documents\6443\0024\Pro\MyProject8\MyProject8.aprx
1/15/2020 3:27 PM KacHD0606 Layout: Site Detail Map

CITY OF LAKE ELMO

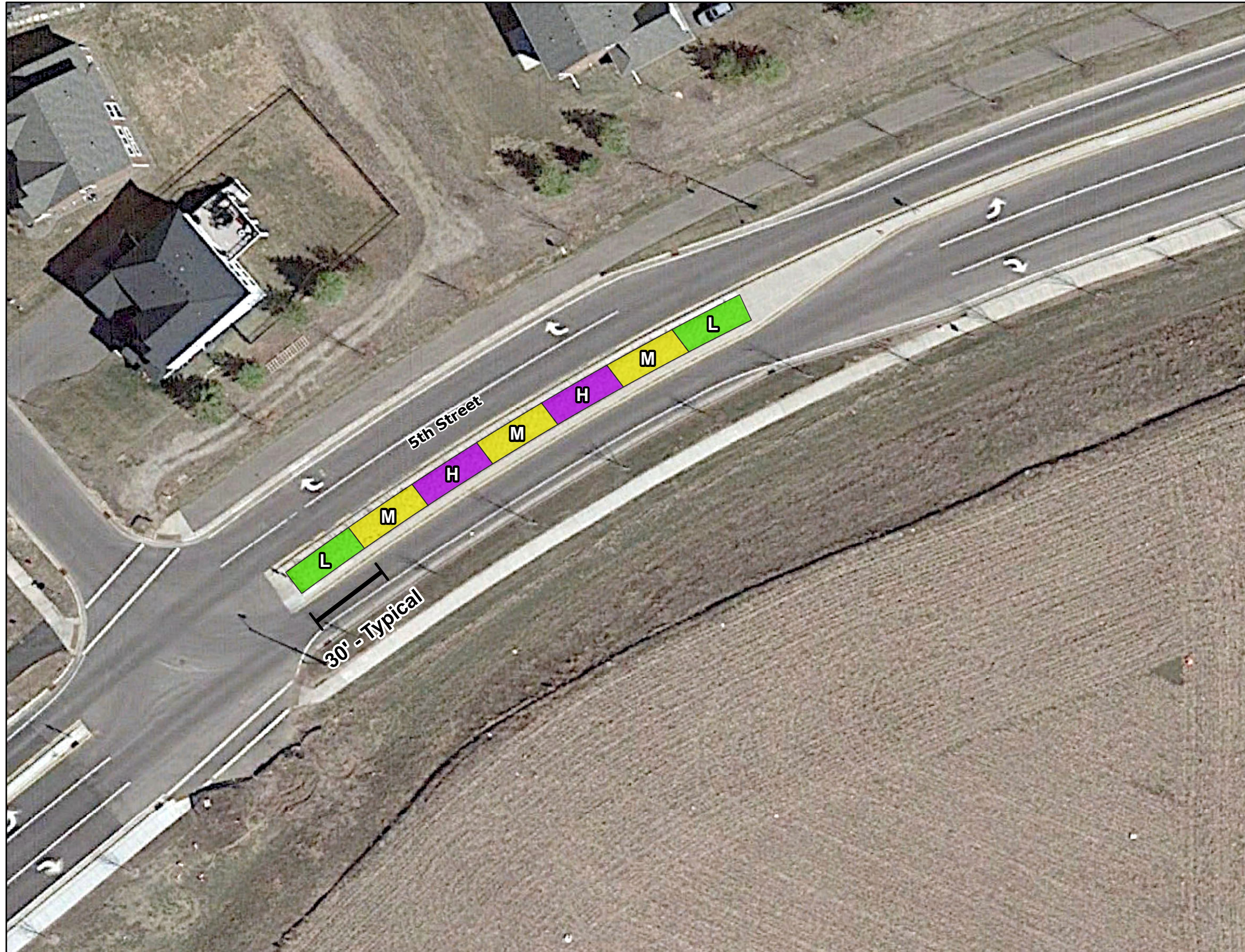
5th Street Center Median Landscape Plan



Responsive partner. Exceptional outcomes.

JAN 2020

Figure 7



Legend

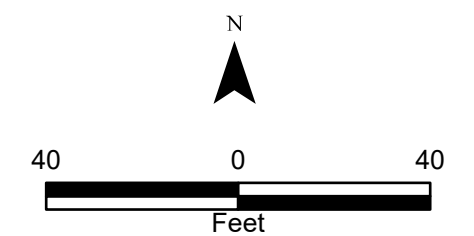
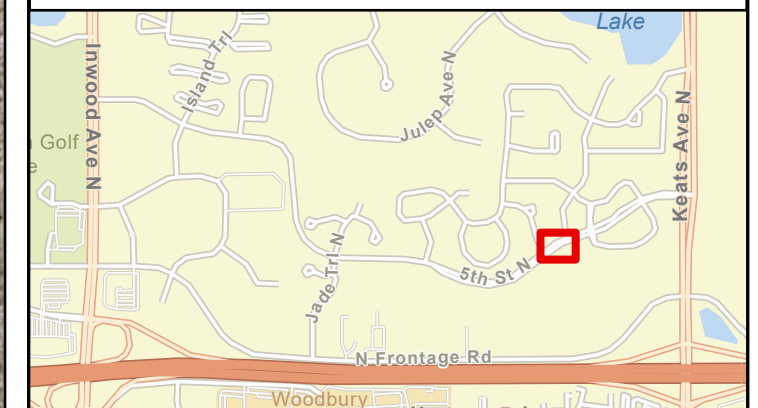
Landscape Vegetation

Low

Medium

High

Median Length = 200 LF



Path: C:\Users\KacHD0606\Documents\6443\0024\Pro\MyProject8\MyProject8.aprx
1/15/2020 3:27 PM KacHD0606 Layout: Site Detail Map

CITY OF LAKE ELMO

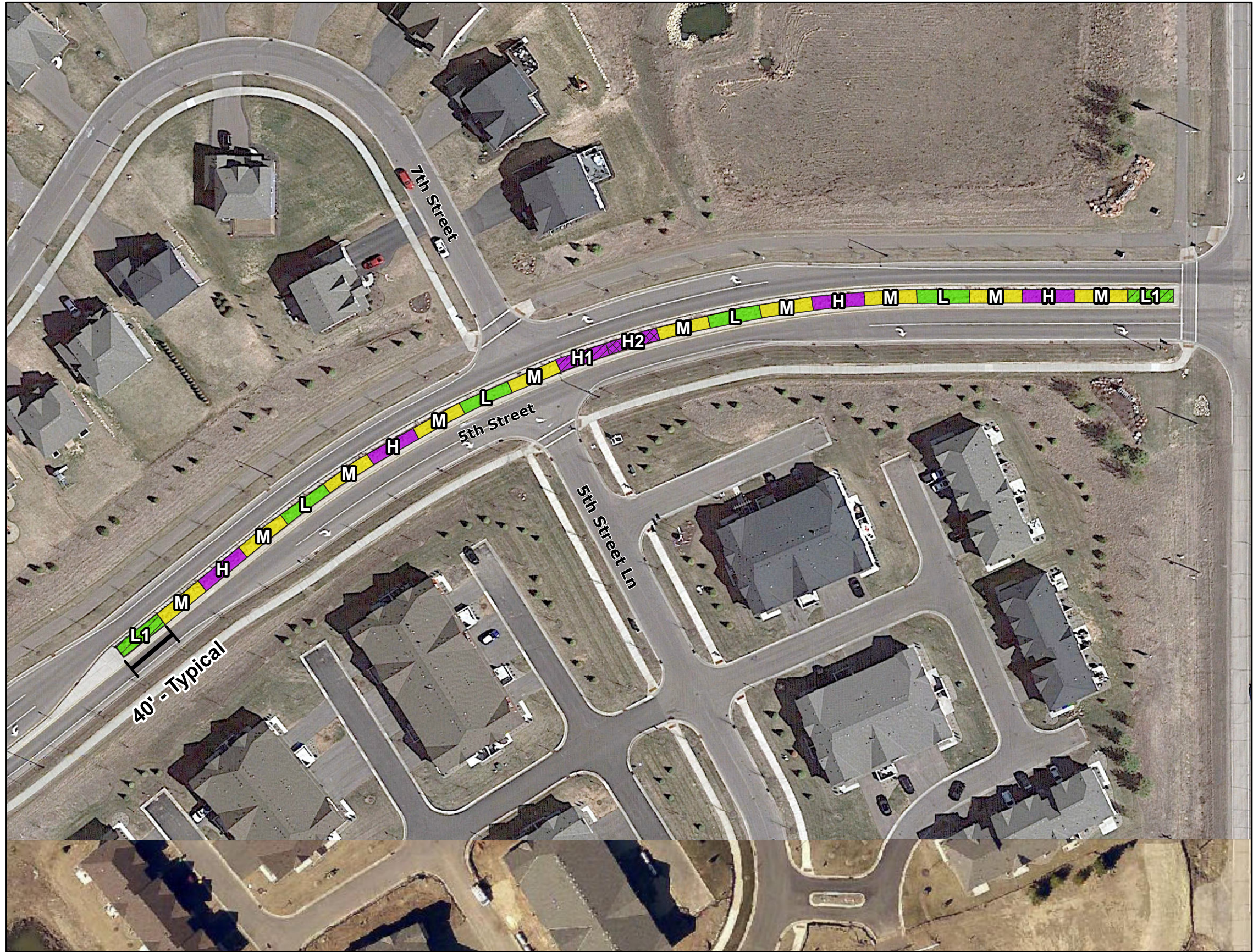
5th Street Center Median Landscape Plan



Responsive partner. Exceptional outcomes.

JAN 2020

Figure 8

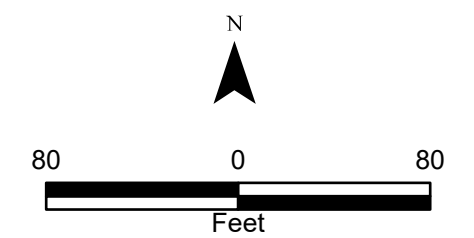
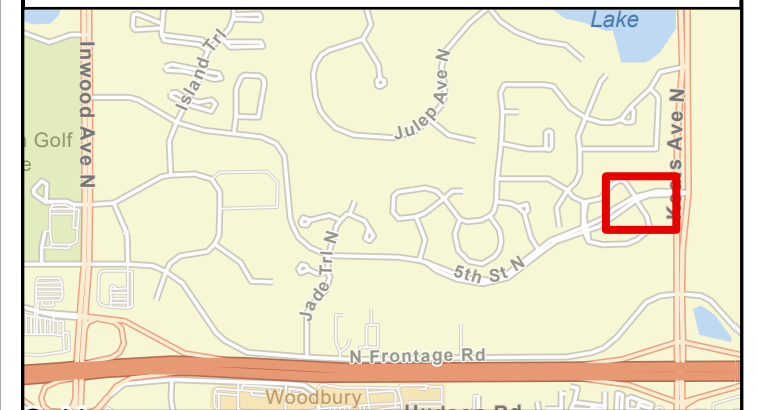


Legend

Landscape Vegetation

- Low
- Low₁
- Medium
- High
- High₁
- High₂

Median Length = 880 LF



Path: C:\Users\KachD0606\Documents\6443\0024\Pro\MyProject8\MyProject8.aprx
1/15/2020 3:27 PM KachD0606 Layout: Site Detail Map

CITY OF LAKE ELMO

5th Street Center Median Landscape Plan

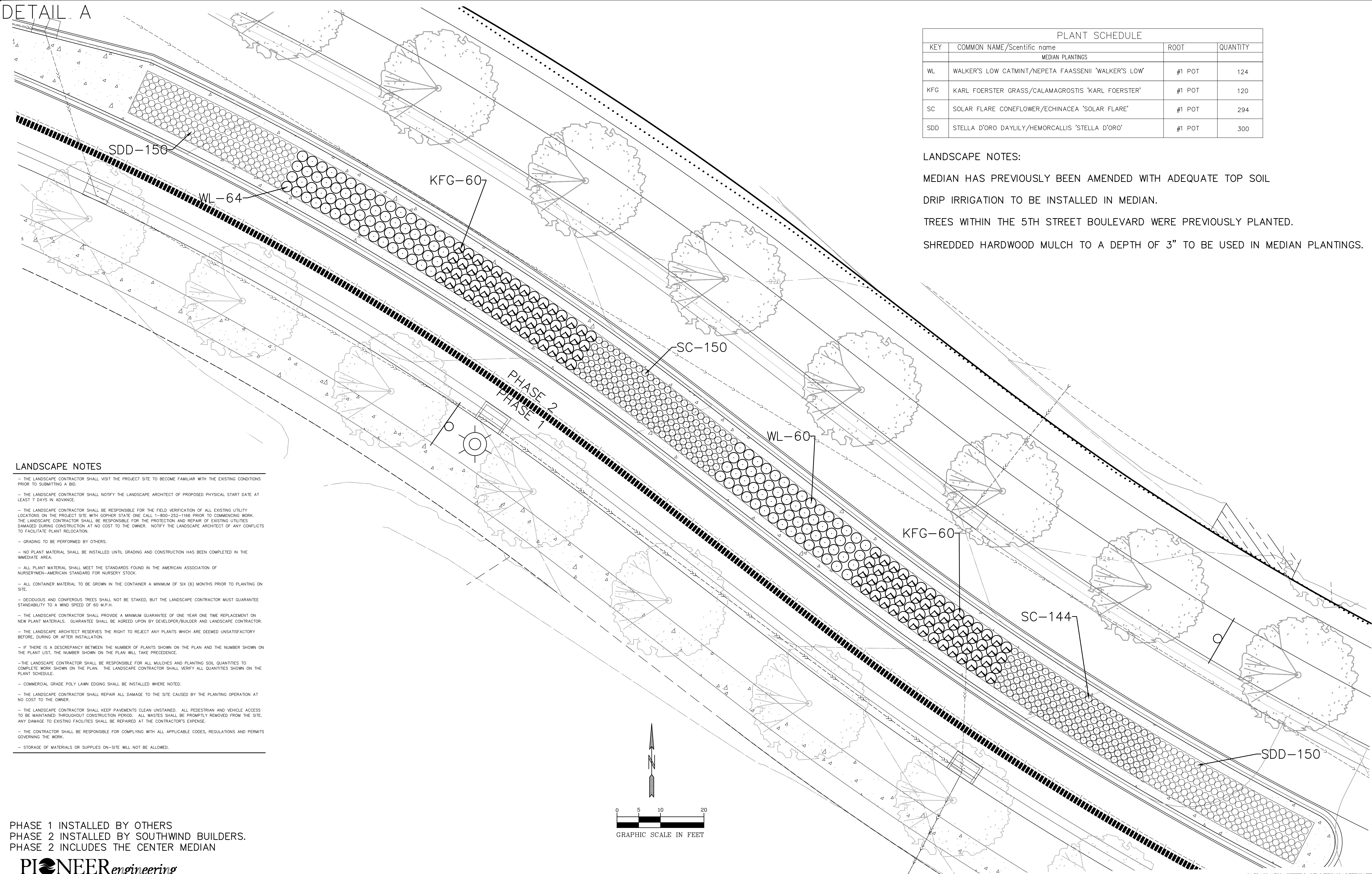


Responsive partner. Exceptional outcomes.

JAN 2020

Figure 9

DETAIL A



PLANT SCHEDULE			
KEY	COMMON NAME /Scientific name	ROOT	QUANTITY
MEDIAN PLANTINGS			
WL	WALKER'S LOW CATMINT/NEPETA FAASSENII 'WALKER'S LOW'	#1 POT	124
KFG	KARL FOERSTER GRASS/CALAMAGROSTIS 'KARL FOERSTER'	#1 POT	120
SC	SOLAR FLARE CONEFLOWER/ECHINACEA 'SOLAR FLARE'	#1 POT	294
SDD	STELLA D'ORO DAYLILY/HEMORCALLIS 'STELLA D'ORO'	#1 POT	300

LANDSCAPE NOTES:

MEDIAN HAS PREVIOUSLY BEEN AMENDED WITH ADEQUATE TOP SOIL

DRIP IRRIGATION TO BE INSTALLED IN MEDIAN.

TREES WITHIN THE 5TH STREET BOULEVARD WERE PREVIOUSLY PLANTED.

SHREDDED HARDWOOD MULCH TO A DEPTH OF 3" TO BE USED IN MEDIAN PLANTINGS.

LANDSCAPE NOTES

- THE LANDSCAPE CONTRACTOR SHALL VISIT THE PROJECT SITE TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS PRIOR TO SUBMITTING A BID.
- THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT OF PROPOSED PHYSICAL START DATE AT LEAST 7 DAYS IN ADVANCE.
- THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FIELD VERIFICATION OF ALL EXISTING UTILITY LOCATIONS ON THE PROJECT SITE WITH GOPHER STATE ONE CALL 1-800-252-1166 PRIOR TO COMMENCING WORK. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND REPAIR OF EXISTING UTILITIES DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER. NOTIFY THE LANDSCAPE ARCHITECT OF ANY CONFLICTS TO FACILITATE PLANT RELOCATION.
- GRADING TO BE PERFORMED BY OTHERS.
- NO PLANT MATERIAL SHALL BE INSTALLED UNTIL GRADING AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA.
- ALL PLANT MATERIAL SHALL MEET THE STANDARDS FOUND IN THE AMERICAN ASSOCIATION OF NURSERYMEN-AMERICAN STANDARD FOR NURSERY STOCK.
- ALL CONTAINER MATERIAL TO BE GROWN IN THE CONTAINER A MINIMUM OF SIX (6) MONTHS PRIOR TO PLANTING ON SITE.
- DECIDUOUS AND CONIFEROUS TREES SHALL NOT BE STAKED, BUT THE LANDSCAPE CONTRACTOR MUST GUARANTEE STANDABILITY TO A WIND SPEED OF 60 M.P.H.
- THE LANDSCAPE CONTRACTOR SHALL PROVIDE A MINIMUM GUARANTEE OF ONE YEAR ONE TIME REPLACEMENT ON NEW PLANT MATERIALS. GUARANTEE SHALL BE AGREED UPON BY DEVELOPER/BUILDER AND LANDSCAPE CONTRACTOR.
- THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO REJECT ANY PLANTS WHICH ARE DEEMED UNSATISFACTORY BEFORE, DURING OR AFTER INSTALLATION.
- IF THERE IS A DISCREPANCY BETWEEN THE NUMBER OF PLANTS SHOWN ON THE PLAN AND THE NUMBER SHOWN ON THE PLANT LIST, THE NUMBER SHOWN ON THE PLAN WILL TAKE PRECEDENCE.
- THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MULCHES AND PLANTING SOIL QUANTITIES TO COMPLETE WORK SHOWN ON THE PLAN. THE LANDSCAPE CONTRACTOR SHALL VERIFY ALL QUANTITIES SHOWN ON THE PLANT SCHEDULE.
- COMMERCIAL GRADE POLY LAWN EDGING SHALL BE INSTALLED WHERE NOTED.
- THE LANDSCAPE CONTRACTOR SHALL REPAIR ALL DAMAGE TO THE SITE CAUSED BY THE PLANTING OPERATION AT NO COST TO THE OWNER.
- THE LANDSCAPE CONTRACTOR SHALL KEEP PAVEMENTS CLEAN UNSTAINED. ALL PEDESTRIAN AND VEHICLE ACCESS TO BE MAINTAINED THROUGHOUT CONSTRUCTION PERIOD. ALL WASTES SHALL BE PROMPTLY REMOVED FROM THE SITE. ANY DAMAGE TO EXISTING FACILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE CODES, REGULATIONS AND PERMITS GOVERNING THE WORK.
- STORAGE OF MATERIALS OR SUPPLIES ON-SITE WILL NOT BE ALLOWED.

PHASE 1 INSTALLED BY OTHERS
PHASE 2 INSTALLED BY SOUTHWIND BUILDERS.
PHASE 2 INCLUDES THE CENTER MEDIAN

PIONEERengineering
CIVIL ENGINEERS LAND PLANNERS LAND SURVEYORS LANDSCAPE ARCHITECTS

2422 Enterprise Drive
Mendota Heights, MN 55120
(651) 681-1914
Fax: 681-9488
www.pioneereng.com

I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly Licensed Landscape Architect under the laws of the State of Minnesota

Name Jennifer L. Thompson
Reg. No. 44763 Date 4-22-2020

Revisions
4-22-2020 CITY COMMENTS

Date 7-1-19
Designed jlt
Drawn jlt

5TH STREET MEDIAN REVISION

SOUTHWIND BUILDERS INC.
2372 LEIBEL STREET
WHITE BEAR LAKE, MINNESOTA 55110

SOUTHWIND OF LAKE ELMO
LAKE ELMO, MINNESOTA

M1 OF 1

01-PLAN-117021-SHEET-LAND-MEDIAN ALTERNATIVE