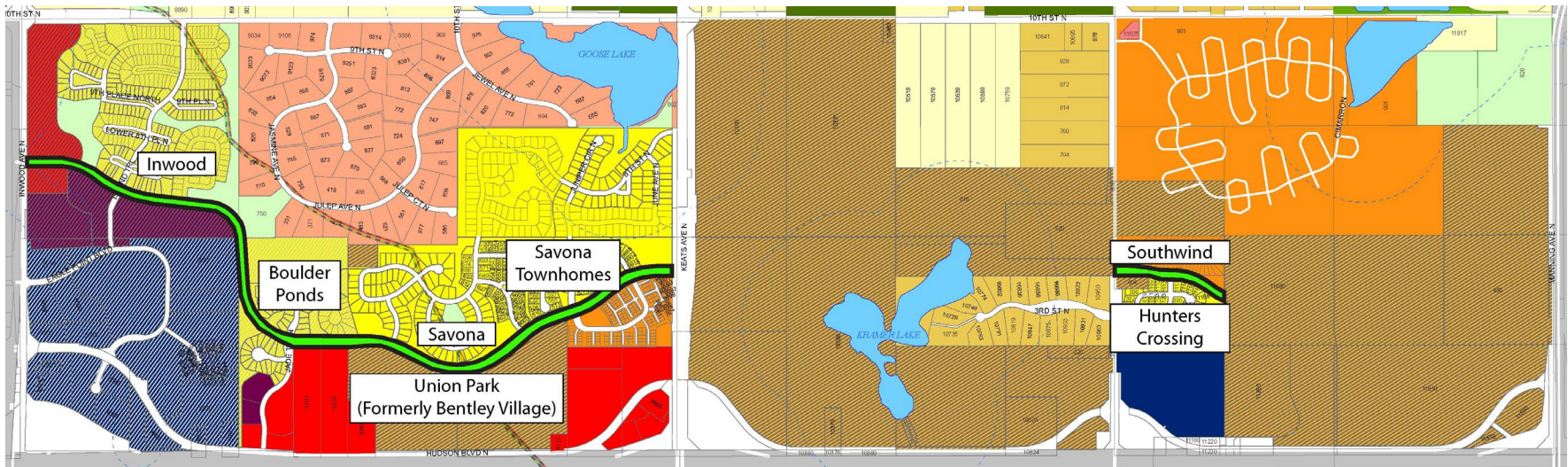
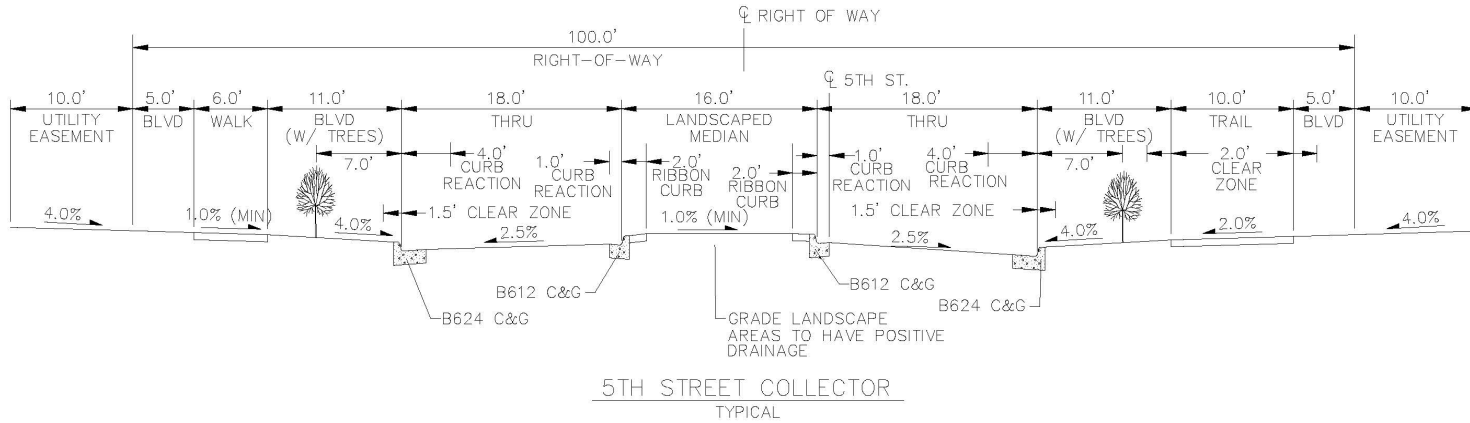


5TH STREET DESIGN STANDARD

Presented by
Lucius Jonett, PLA

WORKSHOP #1 – EXISTING 5TH STREET DESIGN STANDARD



Cumulatively, the City has gained an acre of parkway with the installation of these medians.

WORKSHOP #1 – EXISTING 5TH STREET DESIGN STANDARD

Median Planting Design intent – a grid planting of early, mid and late blooming plants to generate year-round interest.

Implementation – has followed the current design standard, but establishment and maintenance has varied by development and homeowner's association.

Maintenance – can be challenging to weed if the person doesn't know what each plant looks like.

WORKSHOP #1 – EXISTING 5TH STREET PLANT PALETTE



Little Bluestem



Liatris



Daffodil

WORKSHOP #1 – EXISTING 5TH STREET PHOTOS (AUG 3, 2019)

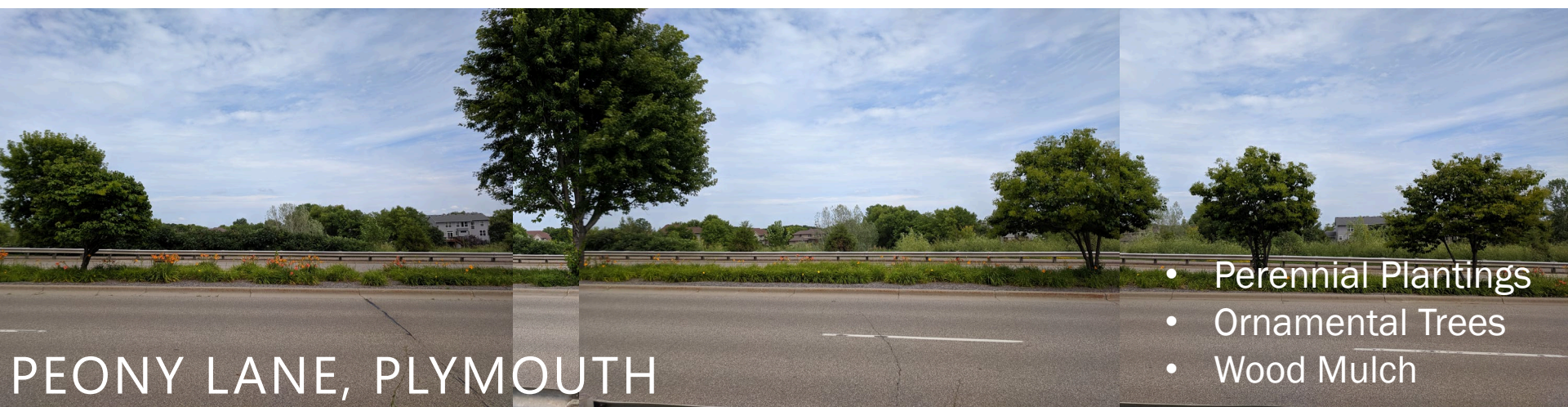


WORKSHOP #1 – DESIGN PRECEDENCE



- Turf
- Perennial Plantings
- Ornamental Trees
- Wood Mulch

VALLEY CREEK RD, WOODBURY



- Perennial Plantings
- Ornamental Trees
- Wood Mulch

PEONY LANE, PLYMOUTH

WORKSHOP #1 – DESIGN PRECEDENCE



- Perennial Plantings
- Ornamental Trees
- Concrete Panels
- Wood Mulch

ENGLER BLVD, CHASKA

45TH AVE N., PLYMOUTH



- Perennial Plantings
- Wood Mulch



- Perennial Plantings
- Ornamental Trees
- Wood Mulch

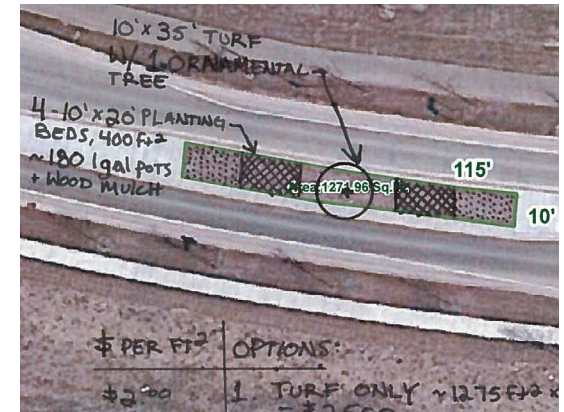
WORKSHOP #1 – PRECEDENCE AMENITY & MAINTENANCE

Landscape Feature	Maintenance	
	Activity	Frequency
Concrete the Entire Median	Sweeping	1 or 2 Times Annually
Turf Grass the Entire Median	Mowing	Weekly during the growing season
	Fertilizing	1 or 2 Times Annually
	Herbiciding	1 or 2 Times Annually
	Repair any snow/plow damage	Spring
Concrete Strip Around the Median Perimeter	Sweeping	1 or 2 Times Annually
Mow Strip Around the Median Perimeter	Mowing	Weekly during the growing season
	Fertilizing	1 or 2 Times Annually
	Herbiciding	1 or 2 Times Annually
	Repair any snow/plow damage	Spring
Wood Mulch	Replacement	Every 3 years
	Weeding	1 or 2 Times Annually
Rock Mulch	Replacement	As needed if missing
	Weeding	1 or 2 Times Annually
Grid-Planting of Grasses and Plants (Consistent Multi-Season Interest)	Weeding (Difficult without Plant ID)	3 to 4 Times Annually
	Irrigation	1st year and during drought
	Cut and Dispose to Invigorate New Growth	Fall or Spring (Keep for Winter interest)
Block-Planting of Grasses and Plants (Easier Maintenance)	Weeding (Easy for volunteers)	1 or 2 Times Annually
	Irrigation	1st year and during drought
	Cut and Dispose to Invigorate New Growth	Fall or Spring (Keep for Winter interest)
Planting of Trees (Changes Character & Site Lines of street)	Replace	As needed if damaged or dying.
	Irrigation	1st year and during drought

WORKSHOP #1 – MAINTENANCE – PUBLIC WORKS FEEDBACK

Landscape Feature	Maintenance	
	Activity	Frequency
Concrete the Entire Median This is acceptable to me	Sweeping	1 or 2 Times Annually
Turf Grass the Entire Median This would be acceptable but if not irrigated it will likely brown up leading to complaints	Mowing	Weekly during the growing season
	Fertilizing	1 or 2 Times Annually
	Herbiciding	1 or 2 Times Annually
	Repair any snow/plow damage	Spring
Concrete Strip Around the Median Perimeter	Sweeping	1 or 2 Times Annually
Mow Strip Around the Median Perimeter	Mowing	Weekly during the growing season
	Fertilizing	1 or 2 Times Annually
	Herbiciding	1 or 2 Times Annually
	Repair any snow/plow damage	Spring
Wood Mulch Not interested, rain can wash it out, weeds develop, it would need replacement	Replacement	Every 3 years
Rock Mulch This would be an acceptable option. However dirt and leaves can fill the rock requiring weeding, cleaning or replacement in future	Weeding	1 or 2 Times Annually
	Replacement	As needed if missing
Grid-Planting of Grasses and Plants (Consistent Multi-Season Interest) This would require contracting a gardener. Too time consuming, labor intensive and costly	Weeding (Difficult without Plant ID)	3 to 4 Times Annually
	Irrigation	1st year and during drought
	Cut and Dispose to Invigorate New Growth	Fall or Spring (Keep for Winter interest)
Block-Planting of Grasses and Plants (Easier Maintenance) In looking for cost and time saving for our department I see too much time in weeding, cutting and disposing of the grass	Weeding (Easy for volunteers)	1 or 2 Times Annually
	Irrigation	1st year and during drought
	Cut and Dispose to Invigorate New Growth	Fall or Spring (Keep for Winter interest)
Planting of Trees (Changes Character & Site Lines of street) This is a more acceptable option, however the cost of replacing trees if they are not watered/irrigated is costly and labor intensive	Replace	As needed if damaged or dying.
	Irrigation	1st year and during drought

WORKSHOP #1 – FOUR DESIGN OPTIONS

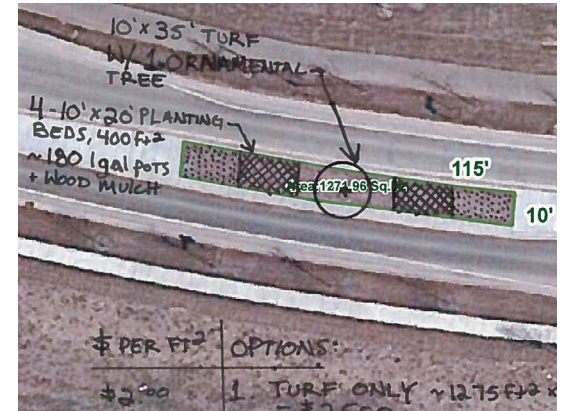


1. Turf only
2. Turf with ornamental trees
3. Turf plus some ornamental trees plus perennial block plantings (illustrated in sketch plans)
4. All perennial block plantings.

WORKSHOP #1 – DIRECTION

- Bring back the estimated maintenance costs associated with each of the four options.
- No design direction given without understanding of maintenance costs.

WORKSHOP #2 – FOUR DESIGN OPTIONS



1. Turf only
2. Turf with ornamental trees
3. Turf plus some ornamental trees plus perennial block plantings (illustrated in sketch plans)
4. All perennial block plantings.

WORKSHOP #2 – INSTALLATION & MAINTENANCE COST

Median # (From West to East)	Neighboring Development	Existing	Planting Area (FT ²)	Option 1: Turf Only		Option 2: Turf + Ornamental Trees		Option 3: Turf + Some Ornamental Trees + Perennial Plantings		Option 4: All Perennial Plantings		
				Installation Cost	Annual Maintenance Cost	Installation Cost	Annual Maintenance Cost	Installation Cost	Annual Maintenance Cost	Installation Cost	Annual Maintenance Cost	Annual Irrigation Cost
1	Inwood (West)	X	2,500	\$ 5,000.00	\$ 850.00	\$ 8,500.00	\$ 1,218.00	\$ 13,800.00	\$ 1,169.55	\$ 22,525.00	\$ 435.11	
2	Inwood (East)	X	1,275	\$ 2,550.00	\$ 720.00	\$ 4,550.00	\$ 986.00	\$ 4,700.00	\$ 864.95	\$ 9,600.00	\$ 221.90	
3	Stonegate Park	X	5,475	\$ 10,950.00	\$ 980.00	\$ 14,850.00	\$ 1,382.00	\$ 30,750.00	\$ 1,728.44	\$ 41,750.00	\$ 952.88	
4	Boulder Ponds (West)	X	7,450	\$ 14,900.00	\$ 1,240.00	\$ 22,900.00	\$ 2,044.00	\$ 36,450.00	\$ 2,432.31	\$ 49,950.00	\$ 1,296.61	
5	Boulder Ponds (East)	X	5,000	\$ 10,000.00	\$ 980.00	\$ 13,000.00	\$ 1,314.00	\$ 25,750.00	\$ 1,619.11	\$ 33,300.00	\$ 870.21	
6	Savona (West)	X	7,200	\$ 14,400.00	\$ 1,240.00	\$ 21,400.00	\$ 1,976.00	\$ 35,950.00	\$ 2,342.55	\$ 49,950.00	\$ 1,253.10	
7	Savona	X	1,000	\$ 2,000.00	\$ 720.00	\$ 3,000.00	\$ 918.00	Median Too Small For This Option		\$ 6,750.00	\$ 174.04	
8	Savona (East)	X	2,000	\$ 4,000.00	\$ 850.00	\$ 5,500.00	\$ 1,082.00	\$ 14,425.00	\$ 1,126.04	\$ 13,320.00	\$ 348.08	
9	Savona Townhomes	X	8,550	\$ 17,100.00	\$ 1,110.00	\$ 24,600.00	\$ 2,140.00	\$ 36,625.00	\$ 2,624.03	\$ 57,000.00	\$ 1,488.06	
10	Southwind/Hunter's Crossing		3,200	\$ -		\$ -				\$ -	\$ 556.93	
				\$ 80,900.00	\$ 8,690.00	\$ 118,300.00	\$ 13,060.00	\$ 201,450.00	\$ 14,824.98	\$ 284,145.00	\$ 7,596.93	\$ -
					Maintenance # of Trips		Maintenance # of Trips		Maintenance # of Trips		Maintenance # of Trips	Activity
					26		26		26		0	Mow Weekly
					2		2		2		0	Fertilize 2 Times a Season
					2		2		2		0	Weed Control 2 Times a Season
					0		1		1		0	Replenish mulch around trees once a year
					0		0		1		1	Weed whip, rake, and haul off plant growth in the fall.

Cost estimates do not include structural soil for ornamental trees & irrigation modification costs.

WORKSHOP #2 – DIRECTION

- Council preferences are on opposite ends of the spectrum.
 - Basic, lowest cost – All Turf (or Concrete)
 - Enhanced, moderate cost – Native Plant Group Planting with concrete bands (Engler Blvd., Chaska Precedent)
- Bring back the two concepts listed above with associated installation and maintenance costs.

WORKSHOP #3 – 2 CONCEPT PRECEDENCE

BASIC CONCEPT PRECEDENCE – KENWOOD TRAIL, LAKEVILLE



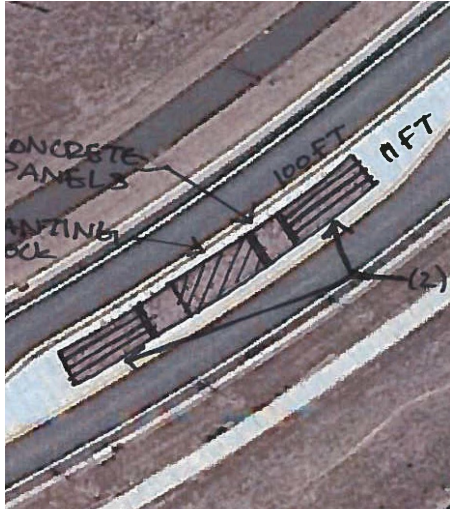
- Turf

ENHANCED CONCEPT PRECEDENCE – ENGLER BLVD, CHASKA (STAFF PREFERENCE)



- Perennial Plantings
- Ornamental Trees
- Concrete Panels
- Wood Mulch

WORKSHOP #3 – ENHANCED CONCEPT SKETCH PLANS



WORKSHOP #3 – ENHANCED CONCEPT PLANT PALETTE

Landscape Architect's
Suggestion

LOW
12"-24"



Daylily



Shrub Rose



Spirea

MEDIUM
24"-36"



Catmint



Sedum



Purple Coneflower

HIGH
36"-48"



Karl Foerster



Big Bluestem



Bush Honeysuckle

WORKSHOP #3 – 2 CONCEPT PRECEDENCE INSTALLATION & MAINTENANCE COST

Median # (From West to East)	Neighboring Development	Existing	Median Area (FT ²)	Basic Option: Turf Only		Enhanced Option: Some Turf + Few Ornamental Trees + Native Perennial Group Planting	
				Installation Cost	Annual Maintenance Cost	Installation Cost	Annual Maintenance Cost
1	Inwood (West)	X	2,750	\$ 13,762.22	\$ 850.00	\$ 31,698.65	\$ 1,080.97
2	Inwood (East)	X	1,265	\$ 5,998.22	\$ 720.00	\$ 19,285.54	\$ 867.82
3	Stonegate Park	X	6,050	\$ 26,748.89	\$ 980.00	\$ 76,541.02	\$ 1,624.14
4	Boulder Ponds (West)	X	5,665	\$ 37,743.78	\$ 1,240.00	\$ 68,489.14	\$ 1,791.75
5	Boulder Ponds (East)	X	5,280	\$ 23,058.67	\$ 980.00	\$ 66,426.20	\$ 1,531.75
6	Savona (West)	X	8,250	\$ 34,926.67	\$ 1,240.00	\$ 91,857.73	\$ 1,976.52
7	Savona	X	1,100	\$ 5,498.89	\$ 720.00	\$ 19,968.64	\$ 1,387.82
8	Savona (East)	X	2,200	\$ 10,727.78	\$ 850.00	\$ 24,280.66	\$ 1,034.78
9	Savona Townhomes	X	9,350	\$ 38,205.56	\$ 1,110.00	\$ 100,943.42	\$ 2,174.52
10	Southwind/Hunter's Crossing		3,520	\$ -			
				\$ 196,670.67	\$ 8,690.00	\$ 499,491.02	\$ 13,470.07
					Maintenance # of Trips	Maintenance # of Trips	Activity
					26	26	Mow Weekly
					2	2	Fertilize 2 Times a Season
					2	2	Weed Control 2 Times a Season
					0	1	Replenish mulch around trees once a year
					0	1	Weed whip, rake, and haul off plant growth in the fall.

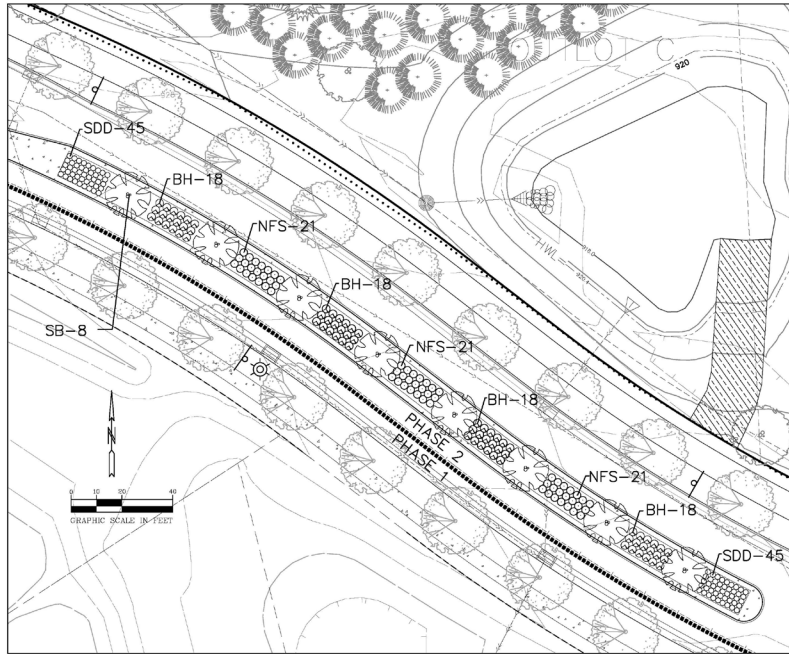
Cost estimates do include structural soil for ornamental trees & irrigation modification cost assumptions.

WORKSHOP #3 – DIRECTION

- Which concept matches original design intent?
- Council direction on which design option to implement for the 5th street median planting plan.
 - Basic, lowest cost – All Turf (or Concrete)
 - Enhanced, moderate cost – Native Plant Group Planting with concrete bands (Engler Blvd., Chaska Precedent)
- Results will be communicated with Southwind development who has submitted an alternative planting plan (July 26, 2019) for their section of 5th Street and is waiting for direction.

SOUTHWIND – PROPOSED 5TH STREET REVISION

DETAIL A



PLANT SCHEDULE			
KEY	COMMON NAME/Scientific name	ROOT	QUANTITY
MEDIAN PLANTINGS			
BH	BUSH HONEYSUCKLE/DIERVILLA LONICERA	#3 POT	72
NFS	NEON FLASH SPIREA/SPIRAEA X BUMALDA 'NEON FLASH'	#3 POT	63
SB	SERVICEBERRY/AMELANGCHER (CLUMP)	10-12" B&B	8
SDD	STELLA D'ORO DAYLILY/HEMORCALLIS 'STELLA D'ORO'	#1 POT	90

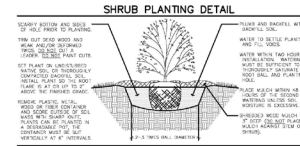
LANDSCAPE NOTES:

MEDIAN HAS PREVIOUSLY BEEN AMENDED WITH ADEQUATE TOP SOIL

IRRIGATION MAY BE A TEMPORARY SYSTEM CONSISTING OF EITHER A SURFACE PERFORATED HOSE THAT CAN BE SHUT DOWN OR PULLED OUT AFTER A YEAR OR TWO OR THE USE OF A WATERING TRUCK ON AN AS NEEDED BASIS FOR THE FIRST GROWING SEASON. PERMANENT MECHANICAL IRRIGATION IS NOT NECESSARY.

TREES WITHIN THE 5TH STREET BOULEVARD WERE PREVIOUSLY PLANTED.

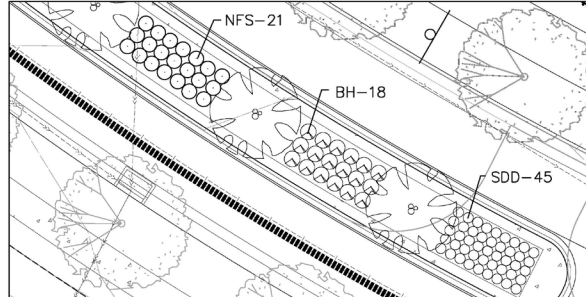
SHREDDED HARDWOOD MULCH TO A DEPTH OF 3" TO BE USED IN MEDIAN PLANTINGS.



LANDSCAPE NOTES

- THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE PROJECT SITE TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS PRIOR TO STARTING WORK.
- THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT OF PROPOSED PHYSICAL START DATE AT LEAST 10 DAYS IN ADVANCE.
- THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FIELD VERIFICATION OF ALL EXISTING UTILITY CONDITIONS ON THE PROJECT SITE WITH SERVICE PROVIDER(S) IN PLACE. SEE SEE THE DRAWING FOR CONDITIONS WHEN THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND REPAIR OF EXISTING UTILITIES CHANGING EXISTING CONDITIONS AT THE END OF THE WORK. NOTIFY THE LANDSCAPE ARCHITECT OF ANY CONDITIONS TO FACILITATE PLANT RELOCATION.
- GRASSING IS TO BE COMPLETED BY OTHERS.
- NO PLANT MATERIAL SHALL BE INSTALLED UNTIL GRASSING AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA.
- ALL PLANT MATERIAL SHALL MEET THE STANDARDS LISTS IN THE AMERICAN SOCIETY OF HORTICULTURISTS-AMERICAN STANDARDS FOR NURSERY STOCK.
- ALL CONTRACTOR WORKING TO BE SHOWN TO THE CONTRACTOR A MINIMUM OF 14 (14) DAYS PRIOR TO PLANTING ON SITE.
- OBSCURE AND CONTROVERSIAL NAMES SHALL NOT BE STOKED, BUT THE LANDSCAPE CONTRACTOR MUST GUARANTEE RESPONSIBILITY TO A TRUE SOURCE OF STOCK.
- THE LANDSCAPE CONTRACTOR SHALL PROVIDE A MINIMUM GUARANTEE OF ONE YEAR ON THE REPLACEMENT ON NEW PLANT MATERIAL. GUARANTEE SHALL BE SUBMITTED BY THE CONTRACTOR AND ACCEPTED BY THE CONTRACTOR.
- THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO REJECT ANY PLANTS WHICH ARE DEEMED UNSATISFACTORY BEING CONSIDERED AFTER INSPECTION.
- IF THERE IS A DISCREPANCY BETWEEN THE NUMBER OF PLANTS SHOWN ON THE PLAN AND THE NUMBER SHOWN ON THE INVENTORY LIST, THE NUMBER SHOWN ON THE PLAN WILL BE USED.
- THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIALS AND PLANTING SOIL QUANTITIES TO QUANTITIES SHOWN ON THE PLAN. THE LANDSCAPE CONTRACTOR SHALL VERIFY ALL QUANTITIES SHOWN ON THE PLAN BEFORE STARTING WORK.
- 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 HIS COST TO THE OWNER.
- THE LANDSCAPE CONTRACTOR SHALL KEEP PAYMENTS CLEAN UNLESS ALL RESTRICTIONS AND VERIFICATION ACCESS ARE BE MAINTAINED THROUGHOUT CONSTRUCTION PERIOD. ALL MATERIALS SHALL BE PROPERLY STORED FROM THE SITE AND SHOWN TO THE ARCHITECT PRIOR TO BE SHOWN BY THE CONTRACTOR'S OFFICE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE CODES, REGULATIONS AND PERMITS GOVERNING THE WORK.
- REMOVAL OF MATERIALS OR SUPPLIES ON-SITE WILL NOT BE ALLOWED.

MEDIAN PERENNIAL SPACING DETAIL



PHASE 1 INSTALLED BY RYLAND/CALATLANTIC HOMES.
PHASE 2 INSTALLED BY SOUTHWIND BUILDERS.
PHASE 2 INCLUDES THE CENTER MEDIAN

01 PLAN 11001 SHEET LAND MEDIAN ALTERNATIVE

PIONEER engineering

3422 Intersect Drive
Minnetonka, MN 55312
(612) 881-1914
Fax: 881-1488
www.pioneereng.com

Project: 5TH STREET MEDIAN REVISION
Client: SOUTHWIND BUILDERS
Date: 11.19

Sheet: 5TH STREET MEDIAN REVISION
Phase: 2

5TH STREET MEDIAN REVISION

SOUTHWIND BUILDERS INC.
5752 LEDGER STREET
WHITE BEAR LAKE, MINNESOTA 55110

SOUTHWIND OF LAKE ELMO
LAKE ELMO, MINNESOTA

M1 OF 1

QUESTIONS



