

EX. UTILITY POLE TO REMAIN. PROPOSE SIDEWALK AT THE BACK OF THE POLE. ADJUST SIDEWALK WIDTH AS NEEDED.

2" EASTERN REDBUD IN GOOD CONDITION. NEW YOUNG TREE. SIDEWALK MAY HAVE LITTLE IMPACT TO TREE.

4" WEEPING ATLAS CEDAR AT FAIR CONDITION. TREE IS FAR ENOUGH BACK AND WILL NOT BE AFFECTED BY CONSTRUCTION.

EX. UTILITY POLE TO REMAIN. SIDEWALK TO BE PROPOSED AT THE BACK OF THE POLE. ADJUST SIDEWALK TO PROVIDE ENOUGH CLEARANCE WITH GUY WIRE AS NEEDED.

12" SWEETBAY MAGNOLIA IN FAIR CONDITION. MULTI STEM, ONE TRUNK DAMAGED. FOLIAGE THIN.

12" LEYLAND CYPRESS IN GOOD CONDITION AND SEVERELY TOPPED. TREE WOULD NEED TO BE KEPT PRUNED TO MAINTAIN CLEARANCE FOR POTENTIAL WALK.

12" LEYLAND CYPRESS IN GOOD CONDITION AND SEVERELY TOPPED IN THE PATH OF THE SIDEWALK. TO BE REMOVED.

15" MULTI-TRUNK EASTERN REDBUD IN GOOD CONDITION. PRUNING DUE TO OVERHEAD UTILITY LINES. GRADING MAY IMPACT CRITICAL ROOT ZONE. PROPOSE SIDEWALK AT THE BACK OF THE CURB TO MINIMIZE IMPACT.

20" MULTI-TRUNK EASTERN REDBUD IN GOOD CONDITION. PRUNING DUE TO OVERHEAD UTILITY LINES. GRADING MAY IMPACT CRITICAL ROOT ZONE. PROPOSE SIDE WALK AT THE BACK OF CURB TO MINIMIZE IMPACT.

15" MULTI-TRUNK EASTERN REDBUD IN FAIR CONDITION. TREE LIKELY TO REMAIN.

MULTIPLE ARBORVITAE IN GOOD CONDITION. TREE NEEDS TO BE PRUNED. FH AND POLE ARE ALONG THE SIDEWALK PATHWAY. PROPOSE SIDEWALK AT THE BACK OF UTILITY POLE AND FIRE HYDRANT.

EX. UTILITY POLE TO REMAIN. PROPOSE SIDEWALK AT THE BACK OF THE POLE. ADJUST SIDEWALK WIDTH AS NEEDED.

4" RED MAPLE IN FAIR CONDITION. NEW YOUNG TREE AWAY FROM SIDEWALK.

EX. UTILITY POLE TO REMAIN. PROPOSE SIDEWALK AT THE BACK OF THE POLE. ADJUST SIDEWALK WIDTH AS NEEDED.

4" RED MAPLE IN GOOD CONDITION. TRUNK CRACKING.

16" RED MAPLE IN GOOD CONDITION. PROPOSED SIDEWAY MAY IMPACT CRITICAL ROOT ZONE.

10" BRADFORD PEAR IN GOOD CONDITION. GRADING MAY IMPACT CRITICAL ROOT ZONE. SIDEWALK TO BE PROPOSED AT THE BACK OF CURB TO MINIMIZE IMPACT.

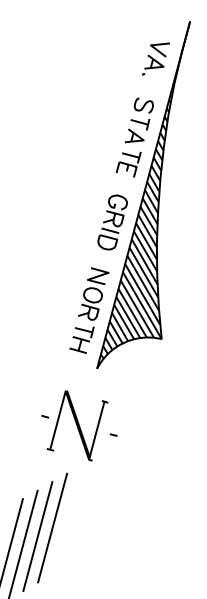
20" MULTI-TRUNK CRAPE MYRTLE IN GOOD CONDITION. NO IMPACT TO TREE.

12" TULIP POPLAR IN GOOD CONDITION. TREE IS IN THE PATH OF SIDEWALK. TREE TO BE REMOVED.

SEVERAL 12" LEYLAND CYPRESS ARE IN GOOD CONDITION. HOWEVER SOME ARE IN CONFLICT WITH THE PROPOSED SIDEWALK AND TREES ARE SEVERELY TOPPED DUE TO OVERHEAD UTILITY LINES. THESE TREES TO BE REMOVED

16" MULTI-STEM RIVER BIRCH IN GOOD CONDITION IS TO REMAIN IF FUTURE DELANO SIDEWALK IS ON OPPOSITE SIDE.

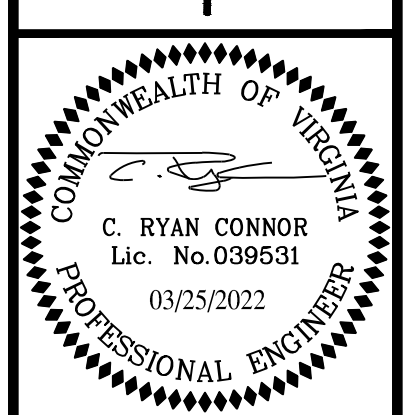
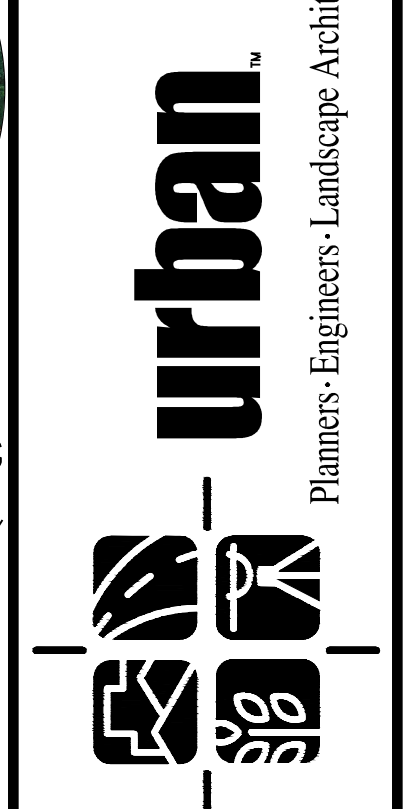
SIDEWALK TO BE CONNECTED WITH THE FUTURE DELANO DR SE SIDEWALK



NO.	DATE	DESCRIPTION	REVIEW APPROVED	DATE

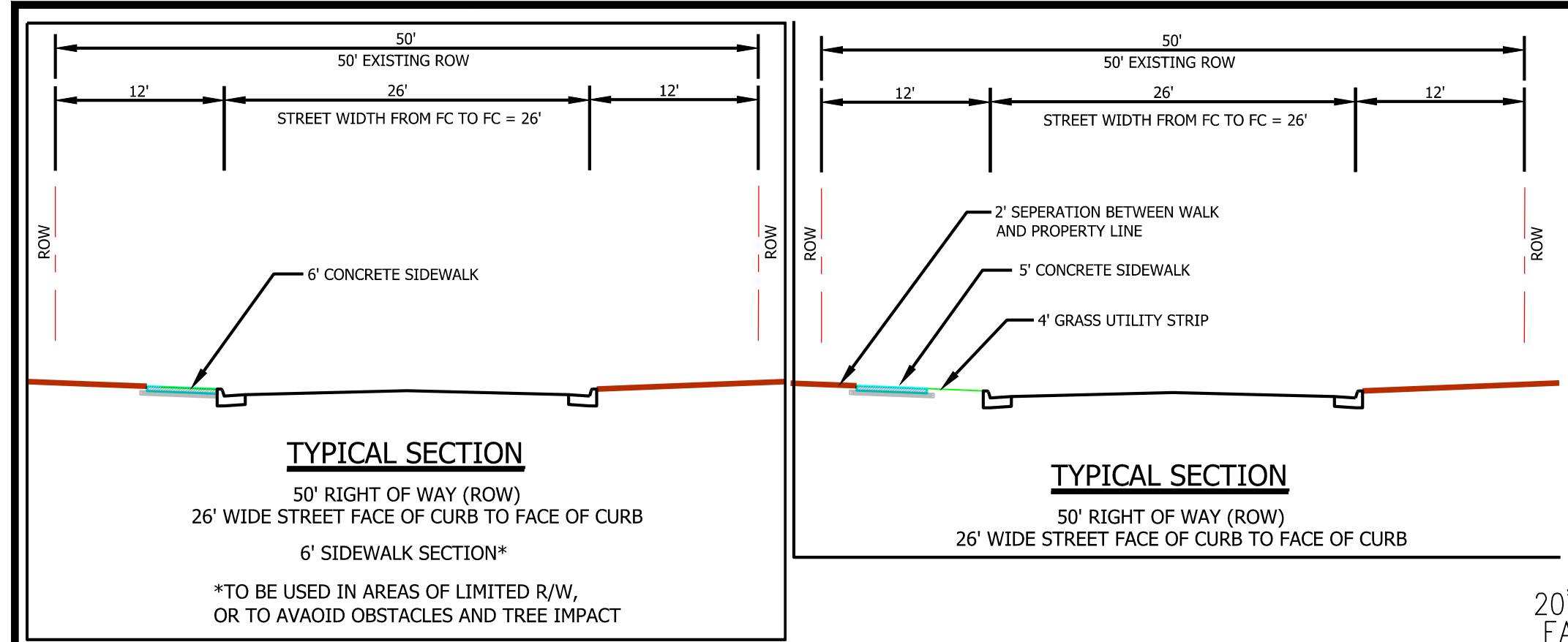
PLAN DATE: 02/25/2022

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CONCEPT 1  
ORRIN STREET SE  
SIDEWALK STUDY  
TOWN OF VIENNA  
FAIRFAX COUNTY, VIRGINIA  
C.I. N/A  
DATE: MARCH 2022  
SCALE: 1"=40'  
SHEET 1 OF 4  
FILE No. RP-2531

**CONCEPT 1**  
SIDEWALK ALONG ODD SIDE ADDRESS OF ORRIN ST SE. THE SIDEWALK WILL EXTEND FROM THE DELANO DR SE INTERSECTION TO FOLLIN LN SE INTERSECTION. PROPOSED SIDEWALK WILL CONNECT WITH THE EXISTING SIDEWALK ALONG FOLLIN LN SE AND FUTURE SIDEWALK AT DELANO DR SE. THE CONCEPT INCLUDES THE SIDEWALK AND ADA RAMPS AT INTERSECTION WITH DELANO DR SE. THIS WILL ALLOW PEDESTRIAN ACCESS TO THE DELANO DR SE, FOLLIN LN SE, WILDWOOD PARK, ECHOLE'S ST SE, AND TO ALMA ST SE.



6" CRAPE MYRTLE IN GOOD CONDITION  
3" CRAPE MYRTLE IN FAIR CONDITION  
5" LEYLAND CYPRESS IN GOOD CONDITION  
4" LEYLAND CYPRESS IN GOOD CONDITION  
8" LEYLAND CYPRESS IN GOOD CONDITION  
ALL TREES ARE IN THE PATH OF POTENTIAL SIDEWALK. TREE NEEDS TO BE REMOVED OR TRANSPLANTED.

3" SAUCER MAGNOLIA IN GOOD CONDITION. NEW YOUNG TREE. SUFFICIENTLY BACK FROM POTENTIAL WALK.

3" RED OAK IN GOOD CONDITION. NEW YOUNG TREE.

12" WILLOW OAK IN GOOD CONDITION. OVERHEAD WIRES RUN THROUGH CANOPY

20" SOUTHERN CATALPA IN FAIR CONDITION. SURFACE ROOTS EXPOSED. CO-DOMINANT & TRUNK DECAY. CRITICAL ROOT ZONE MAY BE AFFECTED BY POTENTIAL WALK.

8" CRAPE MYRTLE IN GOOD CONDITION. MULTI-STEM. CLOSE TO THE PATH OF POTENTIAL SIDEWALK.

22" WHITE OAK IN EXCELLENT CONDITION. PRUNED FROM OVERHEAD WIRES ON STREET SIDE.

18" WHITE OAK IN GOOD CONDITION. TREE IS IN PATH OF POTENTIAL SIDEWALK AND GRADING MAY IMPACT CRITICAL ROOT ZONE OF TREE.

20" WHITE OAK IN FAIR CONDITION. GRADING MAY IMPACT EDGE OF CRITICAL ROOT ZONE.

6" WHITE OAK IN GOOD CONDITION. TREE IS IN THE PATH OF POTENTIAL SIDEWALK. TREE TO BE REMOVED.

2" RED MAPLE  
2" WILLOW OAK  
1" WILLOW OAK  
1" FLOWERING DOG WOOD  
UNKNOWN SMALL TREE. DEAD, BROKEN OFF. TO BE REMOVED.

GRADING MAY IMPACT ALL MENTIONED TREES. RECOMMEND REPLACEMENT.

51" WHITE OAK IN POOR CONDITION. TRIPLE TRUNK. DECAY AT BASE. GRADING MAY IMPACT CRITICAL ROOT ZONE.  
SIDEWALK TO BE PROPOSED IN BETWEEN UTILITY POLE AND TREE.

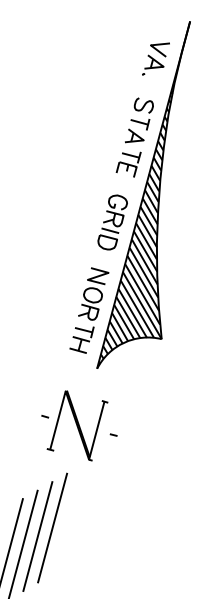
28" RED MAPLE IN FAIR CONDITION. CO-DOMINANT. HEAVILY PRUNED FROM OVERHEAD WIRES ON STREET SIDE. POTENTIAL WALL WILL AFFECT THE CRITICAL ROOT ZONE OF THE TREE. SIDEWALK TO BE PROPOSED AT THE BACK OF THE CURB.

20" RED MAPLE IN POOR CONDITION. HOLLOW, TRUNK DECAY, HARSH PRUNING DUE TO OVERHEAD UTILITY WIRES. FILL ON TRUNK FLARE PROBABLY CAUSING BASAL DECAY. TREE TO BE REMOVED.

15" WILLOW OAK IN EXCELLENT CONDITION. GUY WIRE GOES INTO TRUNK BASE. POTENTIAL WALK WILL AFFECT SOME OF CRITICAL ROOT ZONE. SIDEWALK TO BE PROPOSED IN BETWEEN TREE AND UTILITY POLE.

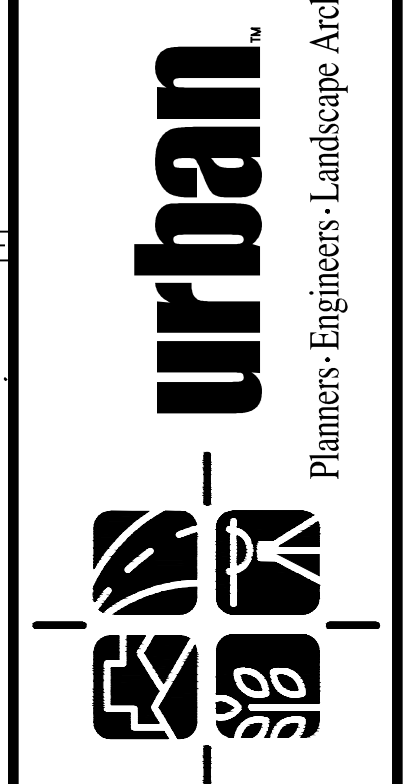
2" EASTERN RED CEDAR IN FAIR CONDITION. IN PATH OF POTENTIAL WALK. TREE HAS TO BE REMOVED.

12" AMERICAN HOLLY IN FAIR CONDITION. ENTWINED WITH 13" MULBERRY IN FAIR CONDITION. SIGNIFICANT IMPACT TO CRITICAL ROOT ZONE. SIDEWALK TO BE PROPOSED BEHIND THE UTILITY POLE. PROVIDE ENOUGH CLEARANCE WITH GUY WIRE.



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COMMONWEALTH OF VIRGINIA  
C. RYAN CONNOR  
Lic. No. 039531  
03/25/2022  
PROFESSIONAL ENGINEER

CONCEPT 2  
ORRIN STREET SE  
SIDEWALK STUDY  
TOWN OF VIENNA  
FAIRFAX COUNTY, VIRGINIA  
C.I. N/A  
DATE: MARCH 2022  
SCALE: 1"=40'

SHEET 2 OF 4  
FILE No. RP-2531

CONCEPT 2  
SIDEWALK ALONG EVEN SIDE ADDRESS OF ORRIN ST SE. THE SIDEWALK WILL EXTEND FROM THE DELANO DR SE INTERSECTION TO FOLLIN LN SE INTERSECTION. PROPOSED SIDEWALK WILL CONNECT WITH THE EXISTING SIDEWALK ALONG FOLLIN LN SE AND FUTURE SIDEWALK AT DELANO DR SE. THE CONCEPT INCLUDES THE SIDEWALK AND ADA RAMPS AT INTERSECTION WITH DELANO DR SE. THIS WILL ALLOW PEDESTRIAN ACCESS TO THE DELANO DR SE, FOLLIN LN SE, WILDWOOD PARK, ECHOLE'S ST SE, AND TO ALMA ST SE.

**ANALYSIS OF CONCEPT 1- ORRIN ST SE**

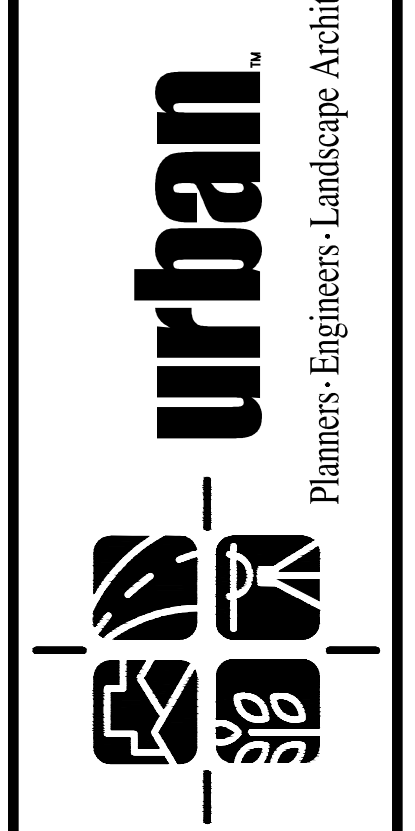
**ANALYSIS OF CONCEPT 2- ORRIN ST SE**

<b>DESCRIPTION</b>	SIDEWALK ALONG ODD SIDE ADDRESS OF ORRIN ST SE. THE SIDEWALK WILL EXTEND FROM THE DELANO DR SE INTERSECTION TO FOLLIN LN SE INTERSECTION. PROPOSED SIDEWALK WILL CONNECT WITH THE EXISTING SIDEWALK ALONG FOLLIN LN SE AND FUTURE SIDEWALK AT DELANO DR SE. THE CONCEPT INCLUDES THE SIDEWALK AND ADA RAMPS AT INTERSECTION WITH DELANO DR SE. THIS WILL ALLOW PEDESTRIAN ACCESS TO THE DELANO DR SE, FOLLIN LN SE, WILDWOOD PARK, ECHOLE'S ST SE, AND TO ALMA ST SE.	SIDEWALK ALONG EVEN SIDE ADDRESS OF ORRIN ST SE. THE SIDEWALK WILL EXTEND FROM THE DELANO DR SE INTERSECTION TO FOLLIN LN SE INTERSECTION. PROPOSED SIDEWALK WILL CONNECT WITH THE EXISTING SIDEWALK ALONG FOLLIN LN SE AND FUTURE SIDEWALK AT DELANO DR SE. THE CONCEPT INCLUDES THE SIDEWALK AND ADA RAMPS AT INTERSECTION WITH DELANO DR SE. THIS WILL ALLOW PEDESTRIAN ACCESS TO THE DELANO DR SE, FOLLIN LN SE, WILDWOOD PARK, ECHOLE'S ST SE, AND TO ALMA ST SE.
<b>TREE IMPACT</b>	RELATIVELY FEW TREES ARE AFFECTED WITH THE ROUTING OF THE SIDEWALK IN CONCEPT 1 ALONG THE SOUTH SIDE OF THE STREET. APPROXIMATELY FIVE TREES WILL NEED TO BE REMOVED, AND AN ADDITIONAL THREE TREES MAY HAVE IMPACTS TO THEIR CRITICAL ROOT ZONES DEPENDING ON THE EXTENT OF GRADING FOR THE WALK ADJACENT TO THEM OF THE TREES TO BE REMOVED, APPROXIMATELY THREE ARE LOCATED AT 501 ORRIN STREET. THESE TREES ARE LOCATED CLOSE TO THE STREET AND UNDERNEATH/ADJACENT TO OVERHEAD POWER LINES. AS A RESULT THEY HAVE BEEN SEVERELY PRUNED BY THE UTILITY COMPANY WHICH NEGATIVELY AFFECTS THEIR OVERALL CONDITION, AND WHILE SMALL, MAKES THEM NOT SUITABLE CANDIDATES FOR TRANSPLANTING.	FOR THE ROUTING OF THE WALK ON THE NORTH SIDE OF ORRIN ST., NINE TREES WOULD NEED TO BE REMOVED, AND AN ADDITIONAL FOUR EITHER REMOVED OR POSSIBLY TRANSPLANTED. AN ADDITIONAL FOUR LARGER TREES MAY SUFFER IMPACTS TO THEIR CRITICAL ROOT ZONES DEPENDING ON THE EXTENT OF GRADING FOR THE CONSTRUCTION OF THE SIDEWALK.
<b>IMPACTS ON VEGETATION (OTHER THAN TREES)</b>	THERE ARE MINIMAL IMPACTS TO OTHER VEGETATION BY THIS CONSTRUCTION. THIS ANALYSIS IS FOCUSED MORE ON THE POTENTIAL CONSTRUCTION IMPACTS TO LARGER TREES. IF THIS CONCEPT IS PURSUED REPLACEMENT VEGETATION AND POSSIBLY TRANSPLANTATION OF PLANTS/ SHRUBS WILL BE CONSIDERED.	THERE ARE MINIMAL IMPACTS TO OTHER VEGETATION BY THIS CONSTRUCTION. THIS ANALYSIS IS FOCUSED MORE ON THE POTENTIAL CONSTRUCTION IMPACTS TO LARGER TREES. IF THIS CONCEPT IS PURSUED REPLACEMENT VEGETATION AND POSSIBLY TRANSPLANTATION OF PLANTS/ SHRUBS WILL BE CONSIDERED.
<b>GRADING IMPACTS</b>	THE AREA WHERE SIDEWALK WOULD BE BUILT IS FLATTER COMPARED TO CONCEPT 2. THE GRADING APPEARS TO BE MINIMAL. THE CONSTRUCTION LIMITS WILL BE DETERMINED DURING LATER STAGES OF DESIGN IF THIS CONCEPT IS PURSUED.	THE GRADING IMPACTS ON THIS CONCEPT IS MINIMAL. THE CONSTRUCTION LIMITS WILL BE DETERMINED DURING LATER STAGES OF DESIGN IF THIS CONCEPT IS PURSUED.
<b>CONSTRUCTABILITY ISSUE</b>	THERE DO NOT APPEAR TO BE SIGNIFICANT CONSTRUCTABILITY ISSUES WITH THIS CONCEPT. THERE ARE MORE UTILITY POLES ALONG THIS CONCEPT. HOWEVER IN THE AREA OF THE UTILITY POLES THERE IS SUFFICIENT CLEARANCE FOR THE SIDEWALK BETWEEN THE BACK OF POLE AND GUY WIRES.	THERE DO NOT APPEAR TO BE SIGNIFICANT CONSTRUCTABILITY ISSUES WITH THIS CONCEPT. IN THE AREA OF THE UTILITY POLES THERE IS SUFFICIENT CLEARANCE FOR THE SIDEWALK BETWEEN THE POLE AND GUY WIRES.
<b>COST</b>	THE COST OF THIS CONCEPT IS COMPARABLE TO OTHER ROBINSON SIDEWALK PROJECTS. BOTH THE CONCEPTS WILL HAVE SIMILAR COSTS COMPARED TO EACH OTHER.	THE COST OF THIS CONCEPT IS COMPARABLE TO OTHER ROBINSON SIDEWALK PROJECTS. BOTH THE CONCEPTS WILL HAVE SIMILAR COSTS COMPARED TO EACH OTHER.
<b>CONNECTIVITY</b>	BOTH THE CONCEPTS HAVE SIMILAR CONNECTIVITY TO NEIGHBORING STREET AND WILDWOOD PARK VIA DELANO DR SE. THIS CONCEPT PROVIDES ACCESS TO MORE HOMEOWNERS COMPARED TO CONCEPT 2.	BOTH THE CONCEPTS HAVE SIMILAR CONNECTIVITY TO NEIGHBORING STREET AND WILDWOOD PARK VIA DELANO DR SE.
<b>RECOMMENDATION</b>	CONCEPT 1 HAS MINIMUM GRADING IMPACTS AND LESSER NUMBER OF TREES IMPACTS. CONCEPT 1 PROVIDES DIRECT PEDESTRIAN ACCESS TO MORE HOMEOWNERS. HENCE, CONCEPT 1 IS RECOMMENDED.	

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ANALYSIS OF CONCEPT 1 AND CONCEPT 2  
ORRIN STREET SE  
SIDEWALK STUDY  
TOWN OF VIENNA  
FAIRFAX COUNTY, VIRGINIA  
SCALE: N/A  
DATE: MARCH 2022  
C.I. N/A

