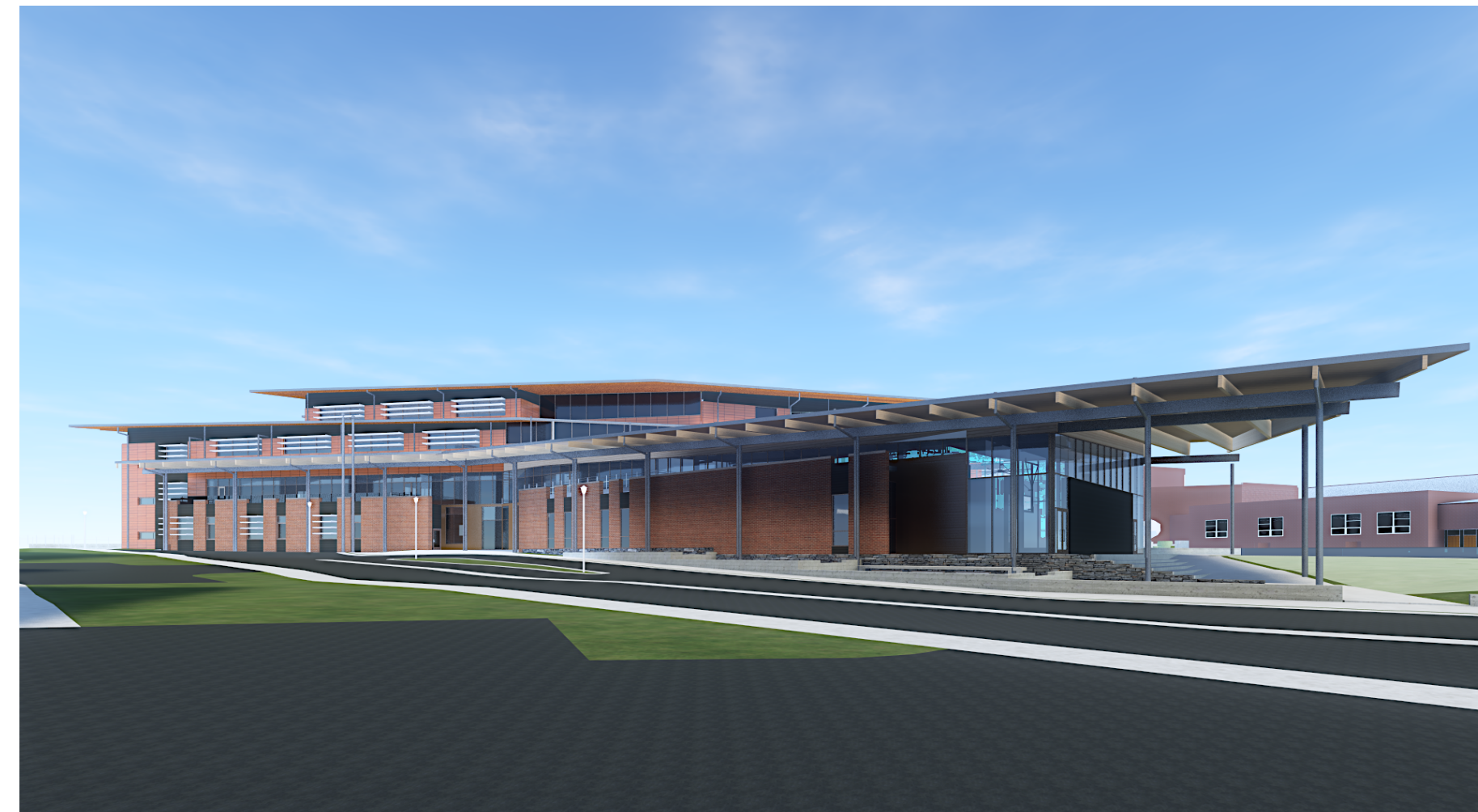


NEW ELEMENTARY SCHOOL AT THOMAS JEFFERSON MIDDLE SCHOOL

USE PERMIT RESUBMISSION

03/06/2017

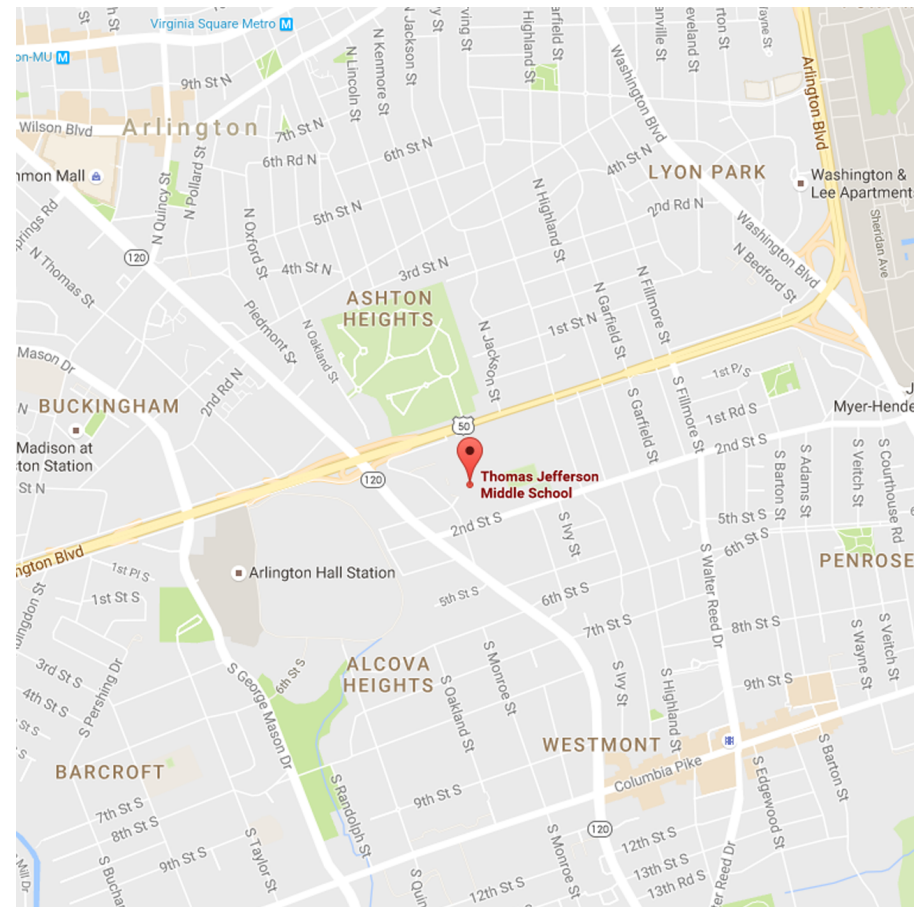
PICTORIAL VIEW



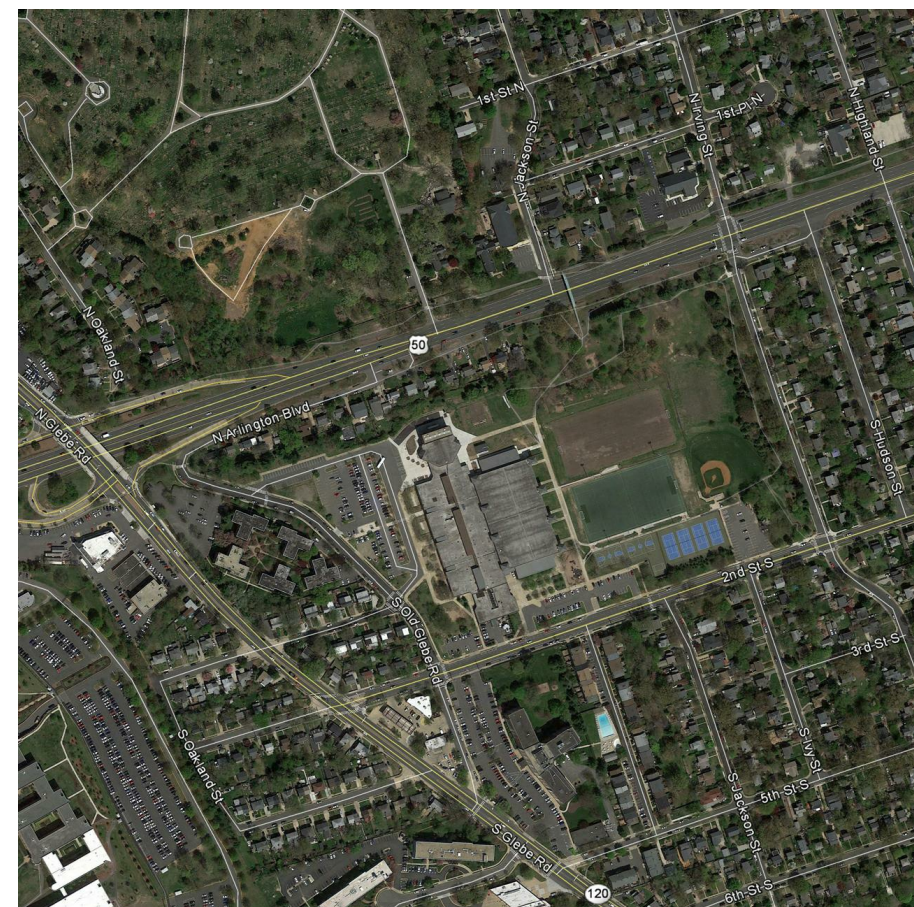
PROJECT TEAM

<p>OWNER</p> <p>Arlington Public Schools 2770 South Taylor Street Arlington, VA 22206 (703) 226-7749 www.apssva.us contact: Steve Stricker sstricker@apssva.us</p>	<p>LANDSCAPE ARCHITECT</p> <p>Waterstreet Studio 418 East Main Street Charlottesville, VA 22902 (434) 296-8177 www.waterstreetstudio.net contact: Eugene Ryang eryang@waterstreetstudio.net</p>	<p>ARCHITECT</p> <p>VMDO Architects 200 East Market Street Charlottesville, VA 22902 (434) 296-5684 www.vmdo.com contact: Wyck Knox knox@vmdo.com</p>	<p>FOOD SERVICE CONSULTANT</p> <p>EIS, Incorporated 11610 Bury Street Charlottesville, VA 22926 (804) 376-5684 www.eisincva.com contact: Filip Harrison harrison@eisincva.com</p>	<p>CONSTRUCTION MANAGER AT RISK</p> <p>The Whiting-Turner Contracting Company 1400 Conference Center Drive, Suite 500 Charlottesville, VA 22911 (703) 625-2265 www.whitingturner.com contact: Randall Resner randall.resner@whiting-turner.com</p>
<p>CIVIL ENGINEER</p> <p>Bowman Consulting 2121 Eisenhower Ave, Suite 202 Alexandria, VA 22314 (703) 464-1000 www.bowmanconsulting.com contact: Scott Delgado sdelgado@bowmanconsulting.com</p>	<p>COST ESTIMATOR</p> <p>Downey & Scott LLC 6799 Kennedy Road, Unit F Warrenton, VA 20167 (540) 347-5001 www.dscost.com contact: Don T. Dagle ddagle@dscost.com</p>	<p>STRUCTURAL ENGINEER</p> <p>Fox & Associates 12085 Gayton Road Richmond, VA 23238 (804) 750-2095 www.foxengineers.com contact: John Ireland jireland@foxengineers.com</p>	<p>FOOD SERVICE DESIGN CONSULTANT</p> <p>Retano Design Group 748 East Bates Street, Suite 200 Indianapolis, IN 46202 www.retanodesigngroup.com (317) 637-3204 contact: Scott Retano scott@retanodesigngroup.com</p>	<p>MEPPP • IT ENGINEER</p> <p>CMTA 10411 Meeting Street Prospect, KY 40009 (502) 326-3085 www.cmtaegs.com contact: Tony Hans thans@cmtaegs.com</p>

VICINITY MAP



CAMPUS MAP



DRAWING LIST

TITLE	TITLE SHEET
T001	TITLE SHEET
CIVL	COVER SHEET
C1.00	SITE TABULATIONS
C1.10	SITE AERIAL
C2.00	OVERALL CERTIFIED SURVEY
C2.20	CERTIFIED SURVEY PLAT
C2.30	CERTIFIED SURVEY PLAT
C3.00	CONTEXTUAL PLAN
C4.00	OVERALL PLOT AND LOCATION PLAN
C4.10	PLOT AND LOCATION PLAN
C4.20	PLOT AND LOCATION PLAN
C4.30	OVERALL PRESENTATION PLAN
C4.40	PRESENTATION PLAN
C4.50	PRESENTATION PLAN
C5.00	OVERALL STRIPING AND MARKING
C5.10	STRIPING AND MARKING PLAN
C5.20	STRIPING AND MARKING PLAN
C6.00	EXISTING STREET SECTIONS
C7.00	PROPOSED STREET SECTIONS
C8.00	STORMWATER MANAGEMENT PLAN
C8.10	WATER QUALITY COMPUTATIONS
T1.00	TREE INVENTORY PLAN
T2.00	TREE INVENTORY
LANDSCAPE	
L1.00	OVERALL SITE PLAN
L1.01	UPPER PLAYGROUND LAYOUT & MATERIALS PLAN
L1.02	THEATER PARKING AND LOWER PLAYGROUND LAYOUT & MATERIALS PLAN
L2.00	SITE DETAILS
L2.01	SITE DETAILS
L3.00	OVERALL PLANTING PLAN
L3.01	UPPER PLAYGROUND PLANTING PLAN
L3.02	THEATER PARKING AND LOWER PLAYGROUND PLANTING PLAN
L3.03	DETAILED PLANTING PLAN #1
L3.04	DETAILED PLANTING PLAN #2
L3.05	DETAILED PLANTING PLAN #3
L3.06	DETAILED PLANTING PLAN #4
L3.07	DETAILED PLANTING PLAN #5
L4.01	PLANT SCHEDULE, NOTES, DETAILS, AND CALCULATIONS
L4.02	ARLINGTON COUNTY PLANTING DETAILS & NOTES
ARCHITECTURAL	
A011	ARCHITECTURAL SITE PLAN
A030	USE PERMIT - VERTICAL CROSS SECTIONS
A031	USE PERMIT - VERTICAL CROSS SECTIONS
A100A	KEY PLAN - LEVEL 02 (TWO LEVEL GARAGE)
A100B	KEY PLAN - LEVEL 01 (TWO LEVEL GARAGE)
A110	KEY PLAN - LEVEL 1
A111	FLOOR PLAN - LEVEL 1, AREA A
A112	FLOOR PLAN - LEVEL 1, AREA B
A113	FLOOR PLAN - LEVEL 1, AREA C
A120	KEY PLAN - LEVEL 2
A121	FLOOR PLAN - LEVEL 2, AREA A
A122	FLOOR PLAN - LEVEL 2, AREA B
A130	KEY PLAN - LEVEL 3
A131	FLOOR PLAN - LEVEL 3, AREA A
A132	FLOOR PLAN - LEVEL 3, AREA B
A140	KEY PLAN - LEVEL 4
A141	FLOOR PLAN - LEVEL 4, AREA A
A142	FLOOR PLAN - LEVEL 4, AREA B
A150	KEY PLAN - ROOF
A300	EXTERIOR AXONOMETRIC VIEWS
A301	OVERALL EXTERIOR ELEVATIONS
A302	ENLARGED BUILDING ELEVATIONS - AREA A
A303	ENLARGED BUILDING ELEVATIONS - AREA A
A304	ENLARGED BUILDING ELEVATIONS - AREA A
A305	ENLARGED BUILDING ELEVATIONS - AREA A
A306	ENLARGED BUILDING ELEVATIONS - AREA B
A307	ENLARGED BUILDING ELEVATIONS - AREA B
A308	ENLARGED BUILDING ELEVATIONS - AREA B
A309	ENLARGED BUILDING ELEVATIONS - AREA B
A310	ENLARGED BUILDING ELEVATIONS - AREA B
A311	ENLARGED BUILDING ELEVATIONS - AREA C
A312	ENLARGED BUILDING ELEVATIONS - AREA C

VMDO

VMDO Architects
200 E Market Street
Charlottesville, VA 22902
434.296.5684
vmdo.com



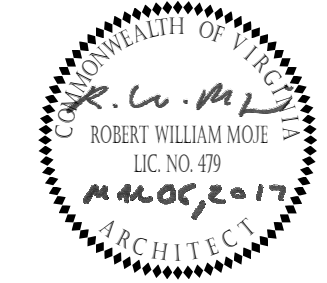
ARLINGTON PUBLIC SCHOOLS

NEW ELEMENTARY SCHOOL #2

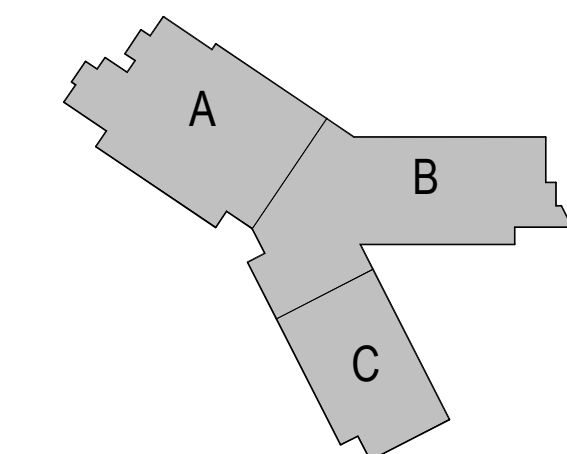
AT THE SITE OF THOMAS JEFFERSON MIDDLE SCHOOL

125 South Old Glebe Rd
Arlington, VA 22204

Client Project Number 60FY16
VMDO Project Number 1152



Checked By _____ Checker
Author



PROJECT NORTH (18.53 DEGREES OFF TRUE)
TRUE NORTH

DRAWING NOT FOR CONSTRUCTION

ISSUES AND REVISIONS	
NO.	DATE
1	11.30.2016
2	03.06.2017

TITLE SHEET

T001

ARLINGTON PUBLIC SCHOOLS NEW ELEMENTARY SCHOOL AT THE SITE OF THOMAS JEFFERSON MIDDLE SCHOOL

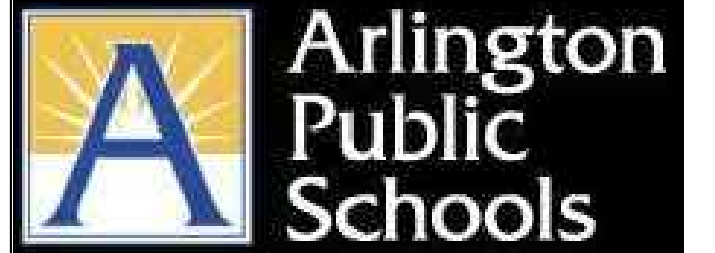
USE PERMIT PLANS ARLINGTON COUNTY, VIRGINIA

VMDO

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200 E. Market Street
Charlottesville, VA 22902
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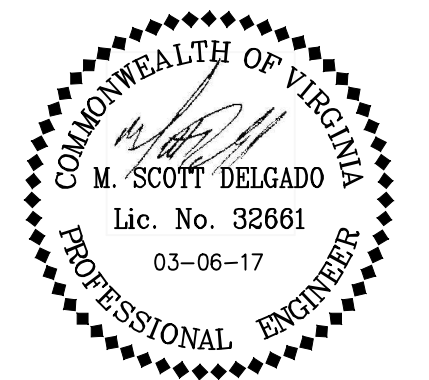
**Bowman
CONSULTING**

BOWMAN CONSULTING GROUP
14020 THUNDERBOLT PL.,
SUITE 300
CHANTILLY, VA 20151
P 703.464.1000 F 703.481.9720
www.bowmanconsulting.com



ARLINGTON PUBLIC SCHOOLS
NEW ELEMENTARY SCHOOL
AT THE SITE OF THOMAS JEFFERSON MIDDLE SCHOOL

125 SOUTH OLD GLEBE ROAD
ARLINGTON, VA 22204



Checked By **MSD**
Drawn By **MSQ**

NOT FOR CONSTRUCTION

ISSUES AND REVISIONS	
NO.	DATE
NO. SUBMITTAL	11.30.2016
USE PERMIT SUBMISSION	03.06.2017
USE PERMIT RESUBMISSION	03.06.2017

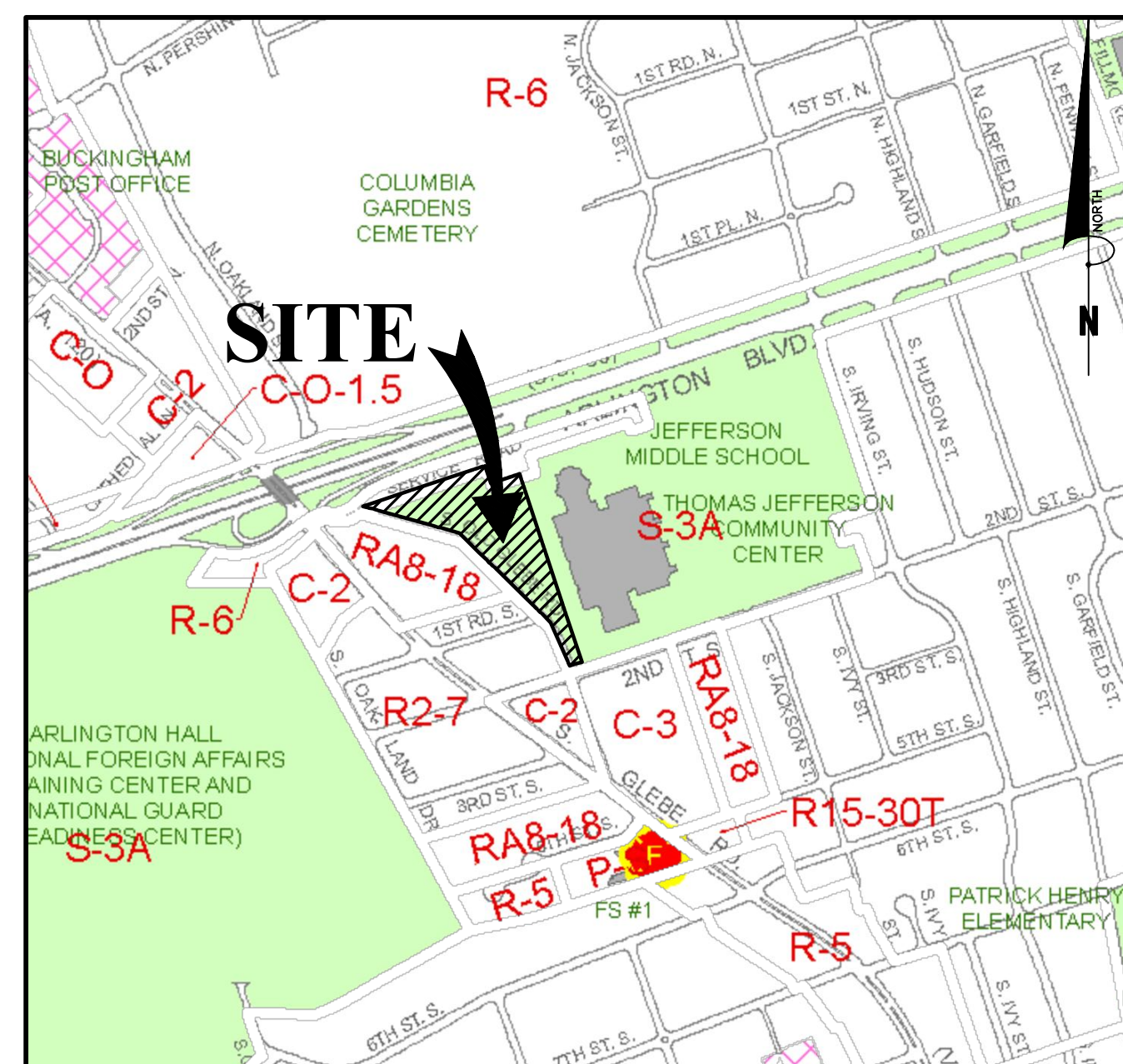
USE PERMIT

Date
03-06-2017

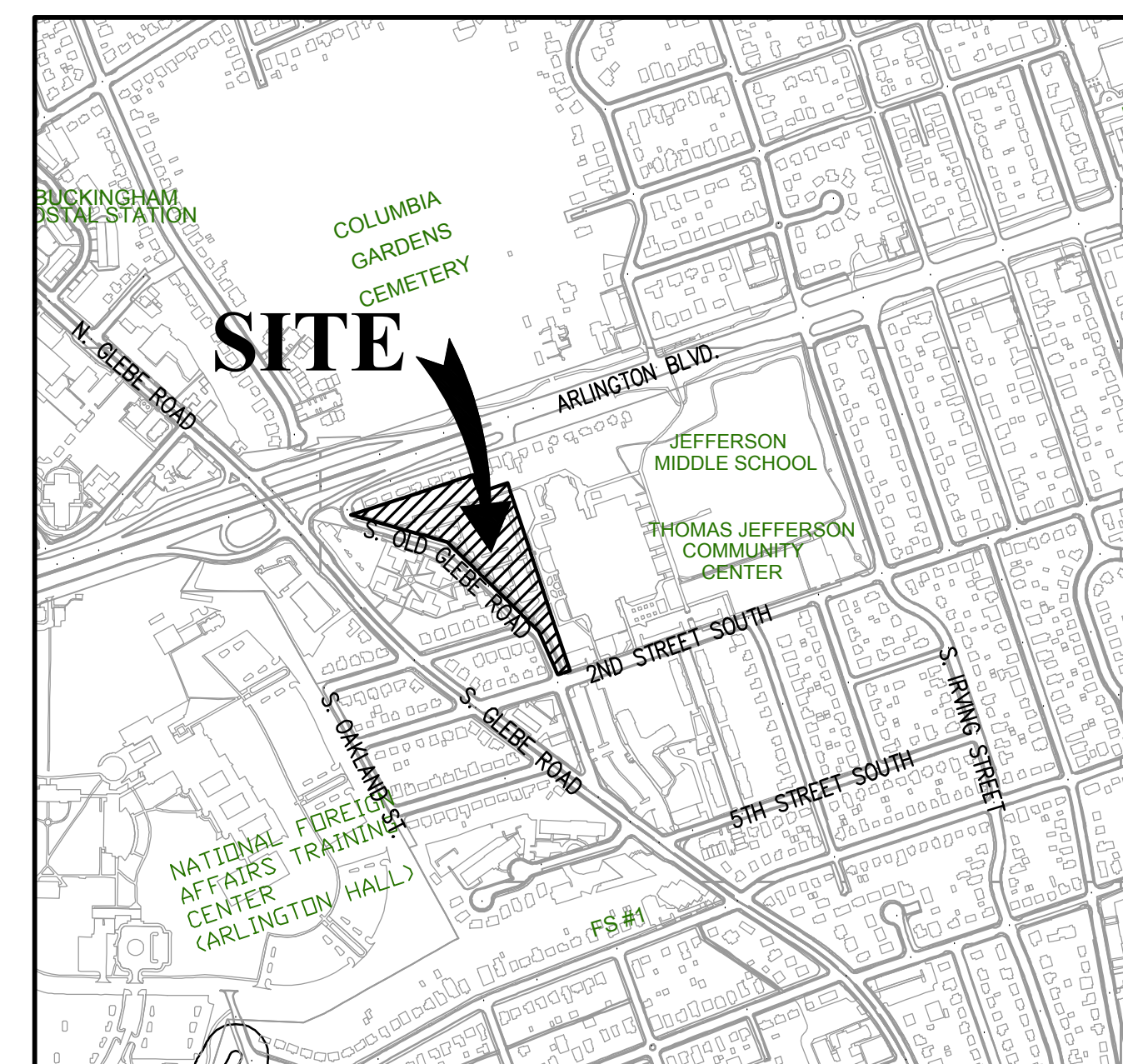
Scale
AS SHOWN

COVER SHEET

C0.0



ZONING MAP
SCALE: 1" = 600'



VICINITY MAP
SCALE: 1" = 600'

CIVIL SHEET INDEX

- C0.0 COVER SHEET
- C1.0 SITE TABULATIONS
- C1.1 SITE AERIAL PHOTOGRAPH
- C2.0 OVERALL CERTIFIED SURVEY PLAT
- C2.2 CERTIFIED SURVEY PLAT
- C2.3 CERTIFIED SURVEY PLAT
- C3.0 CONTEXTUAL PLAN
- C4.0 OVERALL PLOT AND LOCATION PLAN
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- C4.4 PRESENTATION PLAN
- C4.5 PRESENTATION PLAN
- C5.0 OVERALL STRIPING AND MARKING PLAN
- C5.1 STRIPING AND MARKING PLAN
- C5.2 STRIPING AND MARKING PLAN
- C6.0 EXISTING STREET SECTIONS
- C7.0 PROPOSED STREET SECTIONS
- C8.0 STORMWATER MANAGEMENT PLAN
- C8.1 WATER QUALITY COMPUTATIONS
- T1.00 TREE INVENTORY PLAN
- T2.00 TREE INVENTORY

SITE TABULATIONS

- 1) SITE AREA : 167,820 S.F. ± (3.852 AC. ±)
- 2) AVERAGE ELEVATION AT PERIMETERS OF SITE IS: 209.39
- 3) PROPOSED PARKING

LEVEL G1	
STANDARD SPACES:	84 SPACES
COMPACT SPACES:	10 SPACES
HANDICAPPED SPACES:	7 SPACES
TOTAL SPACES LEVEL G1:	101 SPACES
LEVEL G2	
STANDARD SPACES:	106 SPACES
COMPACT SPACES:	7 SPACES
HANDICAPPED SPACES:	0 SPACES
TOTAL SPACES LEVEL G2:	113 SPACES
- 4) BUILDING HEIGHT

4-STORY SCHOOL BUILDING:	268'-0" ± B.O.D.
--------------------------	------------------
- 5) SIDEWALK WIDTHS:

SOUTH OLD GLEBE ROAD:	8' MIN. CLEAR SIDEWALK
-----------------------	------------------------
- 6) ZONING:

CURRENT ZONING:	S-3A
PROPOSED ZONING:	S-3A
- 7) COVERAGE:

PROPOSED BUILDING:	38,466 SF
PROPOSED PARKING/TRAVEL AREA:	33,369 SF
TOTAL AREA:	71,835 SF
PERCENT OF COVERAGE	$\frac{71,835}{167,820} = 42.8\%$
- 8) IMPERVIOUS AREA CALCULATIONS:

EXISTING DISTURBED AREA:	210,766 SF *
EXISTING IMPERVIOUS AREA:	167,730 SF
80% IMPERVIOUS EXISTING	
PROPOSED DISTURBED AREA:	210,766 SF *
PROPOSED IMPERVIOUS AREA:	146,710 SF
69% IMPERVIOUS PROPOSED	

LINE	BEARING	DISTANCE
L1	S 18°23'32" E	30.00'
L2	N 18°14'52" W	30.00'
L3	S 71°21'51" W	9.33'
L4	S 18°35'22" E	10.66'
L5	S 18°35'22" E	10.50'
L6	N 18°19'10" W	20.90'
L7	S 18°21'31" E	17.70'
L8	S 71°32'33" W	48.10'
L9	N 75°38'32" W	41.52'

CURVE	RADIUS	LENGTH	CHORD BEARING	CHORD	DELTA	TANGENT
C1	29.00'	23.38'	S 04°27'21" W	22.75'	46°10'59"	12.36'
C2	11459.71'	158.84'	S 70°57'43" W	158.84'	0°47'39"	79.42'
C3	11394.71'	199.431'	S 71°03'58" W	199.431'	1°00'10"	99.72'

SANITARY TABLE

[EX] SAN TOP=222.51 [23]27 OUT=212.11 (8" PVC To 2376)	[EX] SAN TOP=222.64 [8]36 IN=214.29 (8" PVC Fr.) OUT=214.04 (8" PVC To 492)	[EX] SAN TOP=211.47 [1]70 IN=196.52 (15" CMP Fr. 11702) OUT=196.21 (15" CMP To 11966)
[EX] SAN TOP=223.58 [23]28 IN=210.14 (8" PVC Fr. 2377) OUT=210.11 (8" PVC To 2375)	[EX] SAN TOP=222.03 [6]92 IN=213.40 (8" PVC Fr. 6363) OUT=213.39 (8" PVC To 493)	[EX] SAN TOP=207.97 [16]38 IN=195.62 (15" CMP Fr. 11986) OUT=195.57 (15" CMP To 11984)
[EX] SAN TOP=219.46 [23]25 IN=208.21 (8" PVC Fr. 2376) OUT=208.12 (8" PVC To 14258)	[EX] SAN TOP=214.64 [16]98 IN=207.24 (8" PVC Fr. 492) OUT=207.18 (8" PVC To 494)	[EX] SAN TOP=208.93 [16]98 IN=196.44 (15" CMP Fr. 11701) OUT=196.19 (15" CMP To 11985)
[EX] SAN TOP=206.88 [16]23 IN=197.18 (8" PVC Fr. 2375) OUT=196.56 (8" PVC To 11984)	[EX] SAN TOP=210.03 [16]94 IN=202.33 (8" PVC Fr. 493) OUT=202.28 (8" PVC To 495)	[EX] SAN TOP=203.29 [25]49 OUT=194.27 (8" CMP To 584)
[EX] SAN TOP=206.44 [16]94 IN=196.44 (8" PVC Fr. 14258) IN=196.39 (10" PVC Fr. 10" PVC) IN=195.69 (15" PVC Fr. 11985) OUT=195.67 (15" PVC To 11983)	[EX] SAN TOP=206.88 [16]93 IN=197.31 (8" PVC To)	[EX] SAN TOP=200.17 [16]98 NO ACCESS TO INVERTS DUE TO TRAFFIC
[EX] SAN TOP=209.90 [16]93 IN=194.55 (15" PVC Fr. 11984) OUT=194.35 (15" PVC To 11982)	[EX] SAN TOP=201.60 [16]32 IN=192.07 (8" PVC Fr.) OUT=192.06 (8" PVC To 11178)	[EX] SAN TOP=199.26 [16]92 IN=185.73 (12" PVC Fr. 11980) OUT=185.57 (15" PVC To 11978)
[EX] SAN TOP=210.41 [16]92 IN=193.06 (15" PVC Fr. 11983) OUT=192.98 (15" PVC To 11981)	[EX] SAN TOP=200.39 [16]28 IN=189.19 (8" PVC Fr. 11179) IN=189.19 (8" PVC Fr. 11532) OUT=189.17 (8" PVC To 2550)	[EX] SAN TOP=195.68 [16]28 IN=184.39 (12" PVC Fr. 11979) OUT=184.23 (12" PVC To 587)
[EX] SAN TOP=203.34 [16]81 IN=191.22 (15" PVC Fr. 11982) OUT=190.99 (15" PVC To 11980)	[EX] SAN TOP=208.41 [NEW TOP=208.33] [16]90 IN=186.60 (15" PVC Fr. 11981) OUT=186.35 (15" PVC To 11979)	[EX] SAN TOP=195.68 [16]28 IN=184.39 (12" PVC Fr. 11979) OUT=184.23 (12" PVC To 587)
[EX] SAN TOP=200.00 [16]90 IN=186.60 (15" PVC Fr. 11981) OUT=186.35 (15" PVC To 11979)	[EX] SAN TOP=200.19 [25]50 IN=188.74 (15" PVC To 11178) OUT=XXX (15" PVC To 585)	[EX] SAN TOP=200.39 [16]28 IN=189.19 (8" PVC Fr. 11179) IN=189.19 (8" PVC Fr. 11532) OUT=189.17 (8" PVC To 2550)

STAFF PARKING:
ELEMENTARY SCHOOL STAFF MEMBERS: 151 STAFF
MAX STAFF ASSUMED PRESENT AT ONCE DURING SCHOOL DAY: ALL FULL TIME STAFF + 70% OF PART-TIME STAFF = 143.5 STAFF
DRIVE RATE: 90% - (10% OF 90%) TDM REDUCTION = 81% X 143.5 STAFF = 116 SPACES
ELEMENTARY SCHOOL VISITORS: 0.1956 VISITORS / 1 STUDENT X 752 STUDENTS X 90% DRIVE RATE = 13 SPACES
MIDDLE SCHOOL STAFF MEMBERS: 1 STAFF / 6.957 STUDENTS X 1086 STUDENTS = 156 STAFF
DRIVE RATE: 90% - (10% OF 90%) TDM REDUCTION = 81% X 156 STAFF = 126 SPACES
MIDDLE SCHOOL VISITORS: 0.01295 VISITORS / 1 STUDENT X 1086 STUDENTS X 93.5% DRIVE RATE = 13 SPACES
SUBTOTAL: 292 SPACES

TOTAL PARKING REQUIRED: 268 SPACES
TOTAL PARKING PROVIDED: 232 SPACES*

*DOES NOT INCLUDE 12 SPACES AVAILABLE ON SOUTH OLD GLEBE ROAD AND 6 SPACES AVAILABLE ON 2ND STREET SOUTH

STORM TABLE

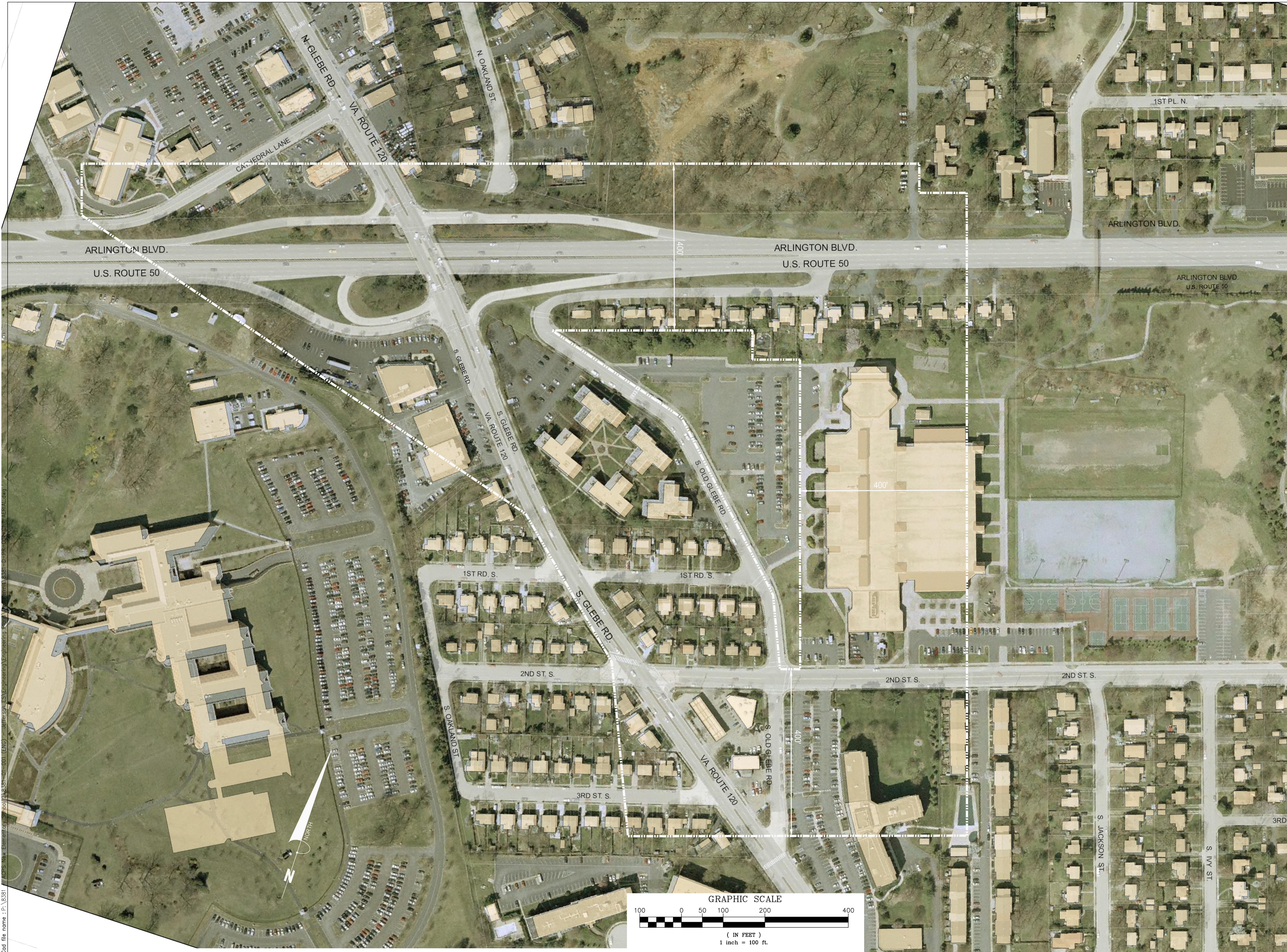
[EX] STM TOP=218.01 [12]07 IN=211.63 (24" RCP Fr. 12717) IN=211.39 (24" RCP Fr. 12934) OUT=211.35 (15" RCP To 18)	[EX] STM TOP=207.64 [6]A IN=203.75 (15" RCP Fr. 6B) IN=199.89 (18" RCP Fr. 6C) OUT=199.78 (18" RCP To 13388)	[EX] STM TOP=206.79 [12] IN=200.65 (15" RCP Fr. 11) IN=200.65 (18" RCP Fr. 12A) OUT=200.61 (24" RCP To 13)	[EX] STM TOP=204.44 [14]12 IN=201.44 (15" RCP Fr. 13409) IN=201.38 (15" RCP Fr. 7) OUT=200.41 (15" RCP To 13443)	[EX] STM TOP=200.27 [36]18 OUT=190.37 (36" RCP To 13808)	[EX] STM TOP=211.14 [32]78 IN=207.08 (15" RCP Fr. 30A) IN=204.91 (18" RCP Fr. 13137) OUT=204.66 (21" RCP To 13475)	[EX] STM TOP=205.53 [32]78 OUT=201.43 (15" RCP To 13204)	[EX] STM TOP=198.31 [24]78 IN=188.31 (36" RCP Fr. 13922) IN=188.27 (36" RCP Fr. 90-406) OUT=188.22 (36" RCP To 14128)
[EX] STM TOP=222.50 [17]77 OUT=215.65 (24" RCP To 12807)	[EX] STM TOP=207.00 [6]B OUT=203.75 (15" RCP To 6A)	[EX] STM TOP=206.92 [12]A IN=201.12 (15" RCP Fr. 12B) OUT=201.10 (18" RCP To 12)	[EX] STM TOP=204.94 [20]9 IN=201.85 (15" RCP Fr. 13383) OUT=201.76 (15" RCP To 13418)	[EX] STM TOP=201.28 [20]9 OUT=194.72 (18" RCP To 13678)	[EX] STM TOP=212.43 [30]A IN=193.69 (15" RCP Fr. 13750) IN=190.99 (33" RCP Fr. 13607) IN=188.99 (54" RCP Fr. 24948) OUT=188.97 (54" RCP To 13808)	[EX] STM TOP=205.08 [30]A IN=200.28 (6" PVC Fr. 2) OUT=208.30 (15" RCP To 13279)	[EX] STM TOP=198.88 [10]92 IN=189.13 (36" RCP Fr. 13818) IN=194.48 (15" RCP Fr. 13912) IN=194.33 (24" RCP Fr. EAST, ORIGIN UNKNOWN) OUT=189.01 (36" RCP To 24787)
[EX] STM TOP=217.88 [16] OUT=213.16 (15" RCP To 12807)	[EX] STM TOP=207.85 [6]C IN=203.73 (15" RCP Fr. 6D) OUT=201.58 (18" RCP To 6A)	[EX] STM TOP=207.80 [16]90 OUT=201.70 (15" RCP To 12A)	[EX] STM TOP=204.14 [16]92 IN=195.66 (15" RCP Fr. 13383) OUT=192.98 (15" RCP To 13409)	[EX] STM TOP=199.32 [36]18 IN=195.66 (15" RCP To 25)	[EX] STM TOP=215.03 [30]A IN=211.91 (15" RCP Fr. 13042)	[EX] STM TOP=200.08 [24]96 IN=192.98 (24" RCP Fr. 31A) OUT=190.48 (54" RCP To 25)	[EX] STM TOP=199.90 [18]18 OUT=197.25 (18" RCP To 13818)
[EX] STM TOP=216.97 [12]34 IN=207.79 (24" RCP Fr. 12807) OUT=207.68 (27" RCP To 12987)	[EX] STM TOP=206.95 [6]D IN=204.75 (8" PVC Fr. 2) OUT=200.58 (15" RCP To 6C)	[EX] STM TOP=207.80 [16]90 OUT=201.70 (15" RCP To 12A)	[EX] STM TOP=203.48 [16]92 IN=196.87 (15" RCP Fr. 13383) IN=192.89 (15" RCP Fr. 13815) IN=196.48 (21" RCP Fr. 13443) OUT=196.47 (21" RCP To 13383)	[EX] STM TOP=200.22 [36]18 IN=194.59 (15" RCP To 25)	[EX] STM TOP=205.73 [30]A IN=200.77 (18" RCP Fr. 13554) IN=193.72 (15" RCP Fr. ROOF D) IN=192.72 (24" RCP Fr. 13475) OUT=192.09 (33" RCP To 25)	[EX] STM TOP=214.90 [45] (12" PVC)	[EX] STM TOP=199.12 [18]18 OUT=194.68 (15" RCP To 13922)
[EX] STM TOP=215.21 [12]07 IN=205.01 (27" RCP Fr. 12934) OUT=204.80 (27" RCP To 13026)	[EX] STM TOP=206.58 [6]E OUT=203.51 (12" PVC To 2)	[EX] STM TOP=205.61 [14] IN=200.38 (15" RCP Fr. 14A) IN=200.09 (24" RCP Fr. 13) OUT=199.91 (24" RCP To 15)	[EX] STM TOP=203.12 [16]92 IN=196.61 (18" RCP Fr. 13518) IN=196.17 (21" RCP Fr. 13516) OUT=195.17 (33" RCP To 13575)	[EX] STM TOP=199.32 [36]18 IN=195.66 (15" RCP To 25)	[EX] STM TOP=202.52 [30]A IN=201.59 (12" RCP Fr. 6" PVC) OUT=200.60 (12" RCP To 13266)	[EX] STM TOP=215.18 [16]92 IN=194.17 (24" RCP Fr. 9)	[EX] STM TOP=199.12 [18]18 OUT=194.68 (15" RCP To 13922)
[EX] STM TOP=215.13 [10]26 IN=201.97 (27" RCP Fr. 12987) IN=201.54 (33" RCP Fr. 12923) OUT=200.22 (48" RCP To 13073)	[EX] STM TOP=205.74 [6]F OUT=202.39 (12" PVC To 2)	[EX] STM TOP=205.74 [14] IN=200.38 (15" RCP Fr. 14A) IN=200.09 (24" RCP Fr. 13) OUT=199.91 (24" RCP To 15)	[EX] STM TOP=202.86 [16]92 IN=197.31 (21" RCP Fr. 13518) IN=197.01 (18" RCP Fr. 18C) OUT=197.01 (18" RCP To 13531)	[EX] STM TOP=203.54 [30]A IN=201.59 (12" RCP Fr. 6" PVC) OUT=200.60 (12" RCP To 13266)	[EX] STM TOP=199.86 [16]92 IN=194.17 (24" RCP Fr. 9)	[EX] STM TOP=225.95 [12]92 OUT=221.96 (18" RCP To 13042)	[EX] STM TOP=199.90 [18]18 OUT=197.25 (18" RCP To 13818)
[EX] STM TOP=225.09 [10]26 OUT=218.67 (33" RCP To 13026)	[EX] STM TOP=205.85 [6]G OUT=200.41 (15" RCP To 14)	[EX] STM TOP=205.85 [14] IN=200.38 (15" RCP Fr. 14A) IN=200.09 (24" RCP Fr. 13) OUT=199.91 (24" RCP To 15)	[EX] STM TOP=202.86 [16]92 IN=197.31 (21" RCP Fr. 13518) IN=197.01 (18" RCP Fr. 18C) OUT=197.01 (18" RCP To 13531)	[EX] STM TOP=203.54 [30]A IN=201.59 (12" RCP Fr. 6" PVC) OUT=200.60 (12" RCP To 13266)	[EX] STM TOP=215.18 [16]92 IN=194.17 (24" RCP Fr. 9)	[EX] STM TOP=206.01 [12]92 OUT=206.01 (12" RCP To 13042)	[EX] STM TOP=199.90 [18]18 OUT=197.25 (18" RCP To 13818)
[EX] STM TOP=208.54 [10]26 IN=203.67 (15" RCP Fr. 24037) IN=199.45 (48" RCP Fr. 13026) IN=199.33 (48" RCP To 13388)	[EX] STM TOP=201.50 [6]H IN=194.25 (54" Fr. 13472) IN=193.95 (54" RCP Fr. 13600)	[EX] STM TOP=205.85 [14] IN=200.38 (15" RCP Fr. 14A) IN=200.09 (24" RCP Fr. 13) OUT=199.91 (24" RCP To 15)	[EX] STM TOP=202.90 [16]92 IN=197.31 (21" RCP Fr. 13518) IN=197.01 (18" RCP Fr. 18C) OUT=197.01 (18" RCP To 13531)	[EX] STM TOP=206.01 [12]92 OUT=206.01 (12" RCP To 13042)	[EX] STM TOP=215.18 [16]92 IN=194.17 (24" RCP Fr. 9)	[EX] STM TOP=206.87 [12]92 IN=206.87 (15" RCP Fr. 13154) IN=194.08 (21" CMP Fr. 13218) IN=196.93 (15" RCP Fr. 13235) OUT=191.49 (84" RCP To 13497) UNABLE TO FIND #13497	[EX] STM TOP=199.90 [18]18 OUT=197.25 (18" RCP To 13818)
[EX] STM TOP=208.66 [10]26 OUT=206.16 (15" RCP To 13073)	[EX] STM TOP=201.21 [6]I IN=198.76 (21" RCP Fr. 13627) IN=198.63 (24" RCP Fr. 15) IN=193.00 (54" RCP Fr. 13508) OUT=192.72 (54" RCP To 24948)	[EX] STM TOP=205.85 [14] IN=200.38 (15" RCP Fr. 14A) IN=200.09 (24" RCP Fr. 13) OUT=199.91 (24" RCP To 15)	[EX] STM TOP=202.86 [16]92 IN=197.31 (21" RCP Fr. 13518) IN=197.01 (18" RCP Fr. 18C) OUT=197.01 (18" RCP To 13531)	[EX] STM TOP=206.87 [12]92 IN=206.87 (15" RCP Fr. 13154) IN=194.08 (21" CMP Fr. 13218) IN=196.93 (15" RCP Fr. 13235) OUT=191.49 (84" RCP To 13497) UNABLE TO FIND #13497	[EX] STM TOP=215.18 [16]92 IN=194.17 (24" RCP Fr. 9)	[EX] STM TOP=206.87 [12]92 IN=206.87 (15" RCP Fr. 13154) IN=194.08 (21" CMP Fr. 13218) IN=196.93 (15" RCP Fr. 13235) OUT=191.49 (84" RCP To 13497) UNABLE TO FIND #13497	[EX] STM TOP=199.90 [18]18 OUT=197.25 (18" RCP To 13818)
[EX] STM TOP=203.95 [10]26 IN=199.29 (10" CPP Fr. 7) IN=197.91 (18" RCP Fr. 6A) IN=195.88 (48" RCP Fr. 13073) IN=195.83 (48" RCP Fr. 13472) OUT=(NO DIP)	[EX] STM TOP=207.95 [6]J IN=202.67 (15" RCP To 12)	[EX] STM TOP=205.85 [14] IN=200.38 (15" RCP Fr. 14A) IN=200.09 (24" RCP Fr. 13) OUT=199.91 (24" RCP To 15)	[EX] STM TOP=202.86 [16]92 IN=197.31 (21" RCP Fr. 13518) IN=197.01 (18" RCP Fr. 18C) OUT=197.01 (18" RCP To 13531)	[EX] STM TOP=206.87 [12]92 IN=206.87 (15" RCP Fr. 13154) IN=194.08 (21" CMP Fr. 13218) IN=196.93 (15" RCP Fr. 13235) OUT=191.49 (84" RCP To 13497) UNABLE TO FIND #13497	[EX] STM TOP=215.18 [16]92 IN=194.17 (24" RCP Fr. 9)	[EX] STM TOP=206.87 [12]92 IN=206.87 (15" RCP Fr. 13154) IN=194.08 (21" CMP Fr. 13218) IN=196.93 (15" RCP Fr. 13235) OUT=191.49 (84" RCP To 13497) UNABLE TO FIND #13497	[EX] STM TOP=199.90 [18]18 OUT=197.25 (18" RCP To 13818)
[EX] STM TOP=204.96 [10]26 OUT=201.36 (15" RCP To 13462)	[EX] STM TOP=201.18 [6]K IN=194.65 (15" RCP Fr. 13627) IN=194.60 (18" RCP Fr. 13678) IN=193.24 (36" RCP Fr. 13789) OUT=193.22 (36" RCP To 13575)	[EX] STM TOP=205.85 [14] IN=200.38 (15" RCP Fr. 14A) IN=200.09 (24" RCP Fr. 13) OUT=199.91 (24" RCP To 15)	[EX] STM TOP=202.86 [16]92 IN=197.31 (21" RCP Fr. 13518) IN=197.01 (18" RCP Fr. 18C) OUT=197.01 (18" RCP To 13531)	[EX] STM TOP=206.87 [12]92 IN=206.87 (15" RCP Fr. 13154) IN=194.08 (21" CMP Fr. 13218) IN=196.93 (15" RCP Fr. 13235) OUT=191.49 (84" RCP To 13497) UNABLE TO FIND #13497	[EX] STM TOP=215.18 [16]92 IN=194.17 (24" RCP Fr. 9)	[EX] STM TOP=206.87 [12]92 IN=206.87 (15" RCP Fr. 13154) IN=194.08 (21" CMP Fr. 13218) IN=196.93 (15" RCP Fr. 13235) OUT=191.49 (84" RCP To 13497) UNABLE TO FIND #13497	[EX] STM TOP=199.90 [18]18 OUT=197.25 (18" RCP To 13818)

BICYCLE PARKING:

PROPOSED CLASS 1 SECURED:	16 SPACES
PROPOSED CLASS 3:	38 SPACES
TOTAL BICYCLE PARKING:	54 SPACES

STORM TABLE

[EX] STM TOP=204.44 [14]12 IN=201.44 (15" RCP Fr. 13409) IN=201.38 (15" RCP Fr. 7) OUT=200.41 (15" RCP To 13443)	[EX] STM TOP=201.23 [36]18 IN=194.67 (18" RCP Fr. 20B) OUT=194.57 (18" RCP To 13642)	[EX] STM TOP=200.27 [36]18 OUT=190.37 (36" RCP To 13808)	[EX] STM TOP=211.14 [32]78 IN=207.08 (15" RCP Fr. 30A) IN=204.91 (18" RCP Fr. 13137) OUT=204.66 (21" RCP To 13475)	[EX] STM TOP=205.53 [32]78 OUT=201.43 (15" RCP To 13204)	[EX] STM TOP=198.31 [24]78 IN=188.31 (36" RCP Fr. 13922) IN=188.27 (36" RCP Fr. 90-406) OUT=188.22 (36" RCP To 14128)
[EX] STM TOP=204.94 [20]9 IN=201.85 (15" RCP Fr. 13383) OUT=201.76 (15" RCP To 13418)	[EX] STM TOP=201.15 [36]27 IN=195.66 (15" RCP Fr. 13600) OUT=195.12 (18" RCP To 13642)	[EX] STM TOP=200.22 [36]18 IN=194.59 (15" RCP To 25)	[EX] STM TOP=212.43 [30]A IN=193.69 (15" RCP Fr. 13750) IN=190.99 (33" RCP Fr. 13607) IN=188.99 (54" RCP Fr. 24948) OUT=188.97 (54" RCP To 13808)	[EX] STM TOP=205.08 [30]A IN=200.28 (6" PVC Fr. 2) OUT=208.30 (15" RCP To 13279)	[EX] STM TOP=198.88 [10]92 IN=189.13 (36" RCP Fr. 13818) IN=194.48 (15" RCP Fr. 13912) IN=194.33 (24" RCP Fr. EAST, ORIGIN UNKNOWN) OUT=189.01 (36" RCP To 24787)
[EX] STM TOP=204.14 [16]92 IN=195.66 (15" RCP Fr. 13383) OUT=192.98 (15" RCP To 13409)	[EX] STM TOP=203.48 [16]92 IN=196.87 (15" RCP Fr. 13383) IN=192.89 (15" RCP Fr. 13815) IN=196.48 (21" RCP Fr. 13443) OUT=196.47 (21" RCP To 13383)	[EX] STM TOP=200.22 [36]18 IN=194.59 (15" RCP To 25)	[EX] STM TOP=205.73 [30]A IN=200.77 (18" RCP Fr. 13554) IN=193.72 (15" RCP Fr. ROOF D) IN=192.72 (24" RCP Fr. 13475) OUT=192.09 (33" RCP To 25)	[EX] STM TOP=215.03 [30]A IN=211.91 (15" RCP Fr. 13042)	[EX] STM TOP=199.90 [18]18 OUT=197.25 (18" RCP To 13818)
[EX] STM TOP=203.12 [16]92 IN=196.61 (18" RCP Fr. 13518) IN=196.17 (21" RCP Fr. 13516) OUT=195.17 (33" RCP To 13575)	[EX] STM TOP=202.86 [16]92 IN=197.31 (21" RCP Fr. 13518) IN=197.01 (18" RCP Fr. 18C) OUT=197.01 (18"				



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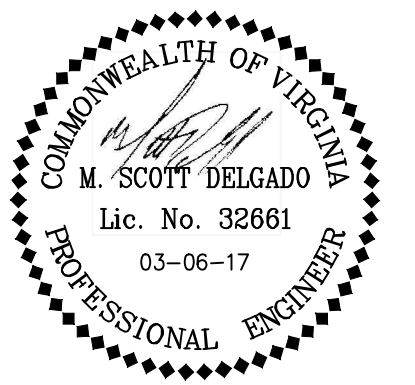
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ARLINGTON PUBLIC SCHOOLS
NEW ELEMENTARY SCHOOL
AT THE SITE OF THOMAS JEFFERSON MIDDLE SCHOOL

125 SOUTH OLD GLEBE ROAD
ARLINGTON, VA 22204



Checked By **MSD**
Drawn By **MSQ**

NOT FOR CONSTRUCTION

ISSUES AND REVISIONS		DATE
NO.	SUBMITTAL	
	USE PERMIT SUBMISSION	11.30.2016
	USE PERMIT RESUBMISSION	03.06.2017

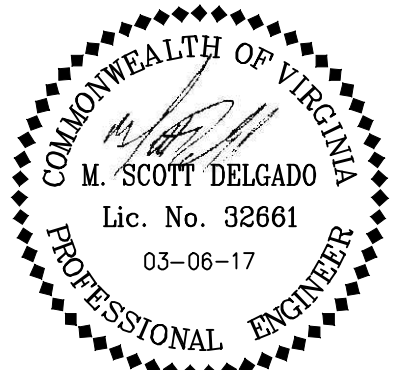
USE PERMIT

Date
03-06-2017

Scale
1"=100'

SITE AERIAL

C1.1



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ISSUES AND REVISIONS	
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NO. SUBMITTAL	11.30.2016
USE PERMIT SUBMISSION	03.06.2017
USE PERMIT RESUBMISSION	

USE PERMIT

Date
03-06-2017

Scale
1" = 40'

OVERALL CERTIFIED
SURVEY

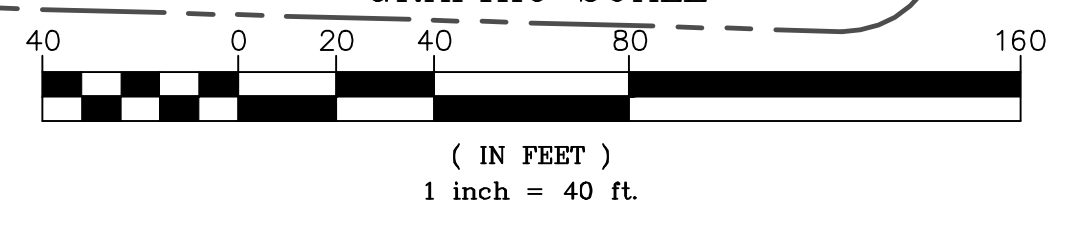
C2.0



LEGEND

- GROUND SHOT
 - POWER POLE WITH TAG#
 - GUY POLE
 - LIGHT POLE
 - TRAFFIC LIGHT
 - ELECTRICAL PEDESTAL
 - SIGN
- A) NO PARKING
 - B) NO PARKING EXCEPT DROP OFF AND PICK-UP - 8am-3pm
 - C) NO PARKING IN THIS LOT - MIDNIGHT to 5am
 - D) DO NOT ENTER
 - E) STOP
 - F) SPEED LIMIT
 - G) YIELD TO PEDESTRIANS
 - H) PEDESTRIAN CROSSING
 - I) METROBUS
 - J) HANDICAP PARKING
 - K) BUSES ONLY
 - L) DROP OFF ENTRANCE
 - M) BIKE LANE
 - N) SNOW EMERGENCY ROUTE
 - O) DRUG FREE ZONE
 - P) NO MOTORIZED VEHICLES
 - Q) RESERVED FOR PRINCIPAL
 - R) RESERVED FOR ASSISTANT PRINCIPAL
 - S) RESERVED FOR COUNSELING SERVICES
 - T) NO COMMERCIAL VEHICLE PARKING
 - U) NO DOGS ALLOWED ON SCHOOL PROPERTY
 - V) PRIVATE PROPERTY ARBORIS OF ARLINGTON - NO TRESPASSING
 - W) CAUTION: BRIDGE AND STEPS ARE SLIPPERY WHEN WET OR FROZEN
 - X) WELCOME TO THE THOMAS JEFFERSON COMMUNITY FIELD
 - Y) THOMAS JEFFERSON MIDDLE SCHOOL
 - Z) THOMAS JEFFERSON MIDDLE SCHOOL OFFICE
 - AA) WELCOME TO ARLINGTON COUNTY PARKS
- BOLLARD
 - FLAG POLE
 - SANITARY MANHOLE
 - CLEAN OUT
 - STORM GRATE INLET
 - STORM MANHOLE
 - FIRE HYDRANT
 - WATER VALVE
 - WATER METER
 - WATER MANHOLE
 - IRRIGATION VALVE
 - GAS VALVE
 - TELEPHONE MANHOLE
 - HANDICAP PARKING SPACE
 - TREE
 - TREE LINE
 - FENCE LINE
 - UNDERGROUND WATERLINE
 - UNDERGROUND ELECTRICAL LINE
 - UNDERGROUND TELEPHONE LINE
 - UNDERGROUND GAS LINE
 - OVERHEAD ELECTRICAL LINE
 - CURB & GUTTER
 - STORM CURB INLET

GRAPHIC SCALE



Cod file name : P:\8381 - APCS New Elementary School 2\8381-01-001 (ENC) - Jefferson ES\Engineering\Engineering Plans\Use Permit\8381-D-PP-001-C2.0-CERT-SURV.dwg



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NO.	DATE
NO. SUBMITTAL	DATE
USE PERMIT SUBMISSION	11.30.2016
USE PERMIT RESUBMISSION	03.06.2017

USE PERMIT

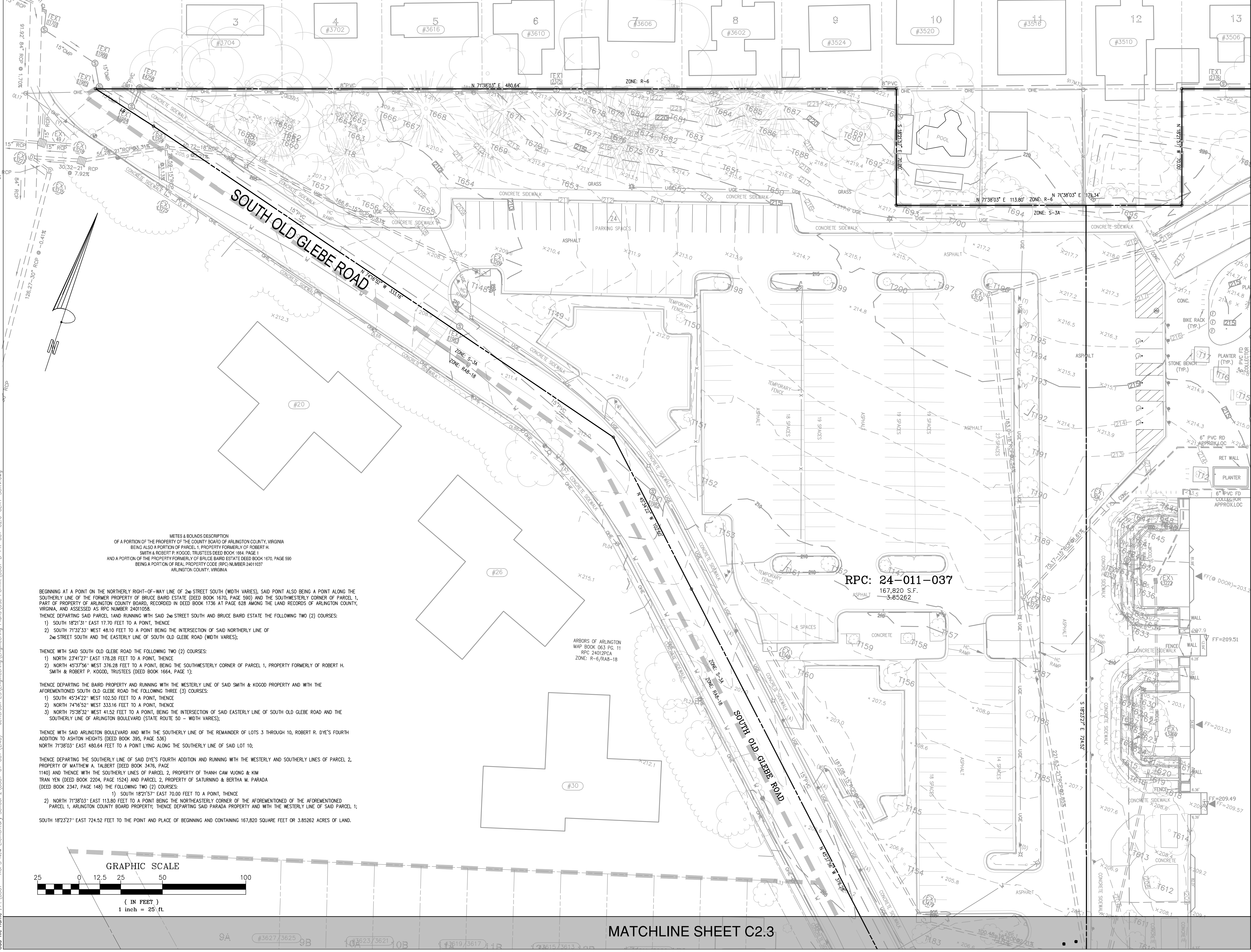
Date
03-06-2017

Scale
1" = 25'

CERTIFIED SURVEY PLAT

C2.2

MATCHLINE SHEET C2.3



METES & BOUNDS DESCRIPTION
OF A PORTION OF THE PROPERTY OF THE COUNTY BOARD OF ARLINGTON COUNTY, VIRGINIA
BEING ALSO A PORTION OF PARCEL 1, PROPERTY FORMERLY OF ROBERT H.
SMITH & ROBERT P. KOGOD, TRUSTEES DEED BOOK 1661, PAGE 1
AND A PORTION OF THE PROPERTY FORMERLY OF BRUCE BAIRD ESTATE DEED BOOK 1670, PAGE 590
BEING A PORTION OF REAL PROPERTY CODE (RPC) NUMBER 24011037
ARLINGTON COUNTY, VIRGINIA

BEGINNING AT A POINT ON THE NORTHERLY RIGHT-OF-WAY LINE OF 2nd STREET SOUTH (WIDTH VARIES), SAID POINT ALSO BEING A POINT ALONG THE SOUTHERLY LINE OF THE FORMER PROPERTY OF BRUCE BAIRD ESTATE (DEED BOOK 1670, PAGE 590) AND THE SOUTHWESTERLY CORNER OF PARCEL 1, PART OF PROPERTY OF ARLINGTON COUNTY BOARD, RECORDED IN DEED BOOK 1736 AT PAGE 628 AMONG THE LAND RECORDS OF ARLINGTON COUNTY, VIRGINIA, AND ASSESSED AS RPC NUMBER 24011058.

THENCE DEPARTING SAID PARCEL 1 AND RUNNING WITH SAID 2nd STREET SOUTH AND BRUCE BAIRD ESTATE THE FOLLOWING TWO (2) COURSES:

- 1) SOUTH 18°21'31" EAST 17.70 FEET TO A POINT, THENCE
- 2) SOUTH 71°32'33" WEST 48.10 FEET TO A POINT BEING THE INTERSECTION OF SAID NORTHERLY LINE OF 2nd STREET SOUTH AND THE EASTERLY LINE OF SOUTH OLD GLEBE ROAD (WIDTH VARIES);

THENCE WITH SAID SOUTH OLD GLEBE ROAD THE FOLLOWING TWO (2) COURSES:

- 1) NORTH 23°41'27" EAST 178.28 FEET TO A POINT, THENCE
- 2) NORTH 45°37'56" WEST 376.28 FEET TO A POINT, BEING THE SOUTHWESTERLY CORNER OF PARCEL 1, PROPERTY FORMERLY OF ROBERT H. SMITH & ROBERT P. KOGOD, TRUSTEES (DEED BOOK 1664, PAGE 1);

THENCE DEPARTING THE BAIRD PROPERTY AND RUNNING WITH THE WESTERLY LINE OF SAID SMITH & KOGOD PROPERTY AND WITH THE AFOREMENTIONED SOUTH OLD GLEBE ROAD THE FOLLOWING THREE (3) COURSES:

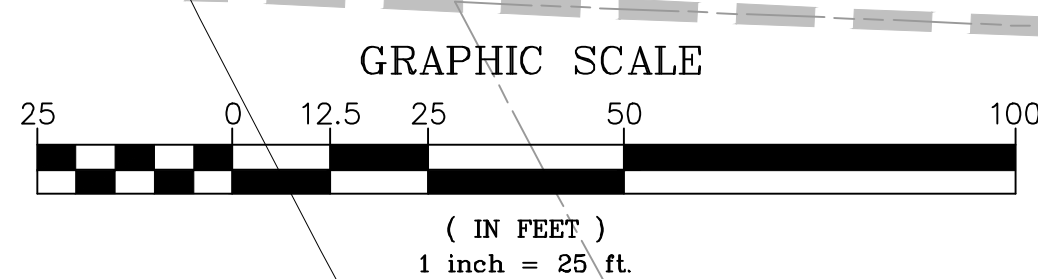
- 1) SOUTH 45°34'22" WEST 102.50 FEET TO A POINT, THENCE
- 2) NORTH 74°16'52" WEST 333.16 FEET TO A POINT, THENCE
- 3) NORTH 75°38'32" WEST 41.52 FEET TO A POINT, BEING THE INTERSECTION OF SAID EASTERLY LINE OF SOUTH OLD GLEBE ROAD AND THE SOUTHERLY LINE OF ARLINGTON BOULEVARD (STATE ROUTE 50 - WIDTH VARIES);

THENCE WITH SAID ARLINGTON BOULEVARD AND WITH THE SOUTHERLY LINE OF THE REMAINDER OF LOTS 3 THROUGH 10, ROBERT R. DYE'S FOURTH ADDITION TO ASHTON HEIGHTS (DEED BOOK 395, PAGE 536)
NORTH 71°38'03" EAST 480.64 FEET TO A POINT LYING ALONG THE SOUTHERLY LINE OF SAID LOT 10;

THENCE DEPARTING THE SOUTHERLY LINE OF SAID DYE'S FOURTH ADDITION AND RUNNING WITH THE WESTERLY AND SOUTHERLY LINES OF PARCEL 2, PROPERTY OF MATHEW A. TALBERT (DEED BOOK 3476, PAGE 1140) AND THENCE WITH THE SOUTHERLY LINES OF PARCEL 2, PROPERTY OF THANH CAM VUONG & KIM TRAN YEN (DEED BOOK 2204, PAGE 1524) AND PARCEL 2, PROPERTY OF SATURNINO & BERTHA M. PARADA (DEED BOOK 2347, PAGE 148) THE FOLLOWING TWO (2) COURSES:

- 1) SOUTH 18°21'57" EAST 70.00 FEET TO A POINT, THENCE
- 2) NORTH 71°38'03" EAST 113.80 FEET TO A POINT BEING THE NORTHEASTERLY CORNER OF THE AFOREMENTIONED OF THE AFOREMENTIONED PARCEL 1, ARLINGTON COUNTY BOARD PROPERTY; THENCE DEPARTING SAID PARADA PROPERTY AND WITH THE WESTERLY LINE OF SAID PARCEL 1;

SOUTH 18°23'27" EAST 724.52 FEET TO THE POINT AND PLACE OF BEGINNING AND CONTAINING 167,820 SQUARE FEET OR 3.85262 ACRES OF LAND.



MATCHLINE SHEET C2.3

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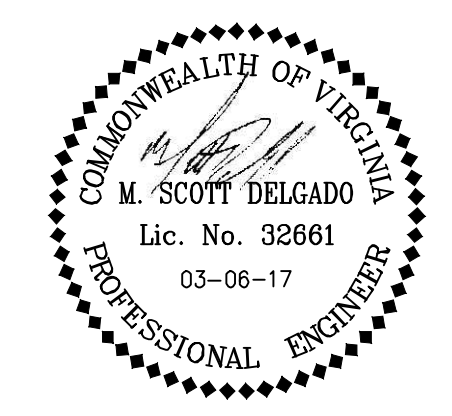
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ISSUES AND REVISIONS	NO.	SUBMITTAL	DATE
USE PERMIT RESUBMISSION			03.06.2017

USE PERMIT

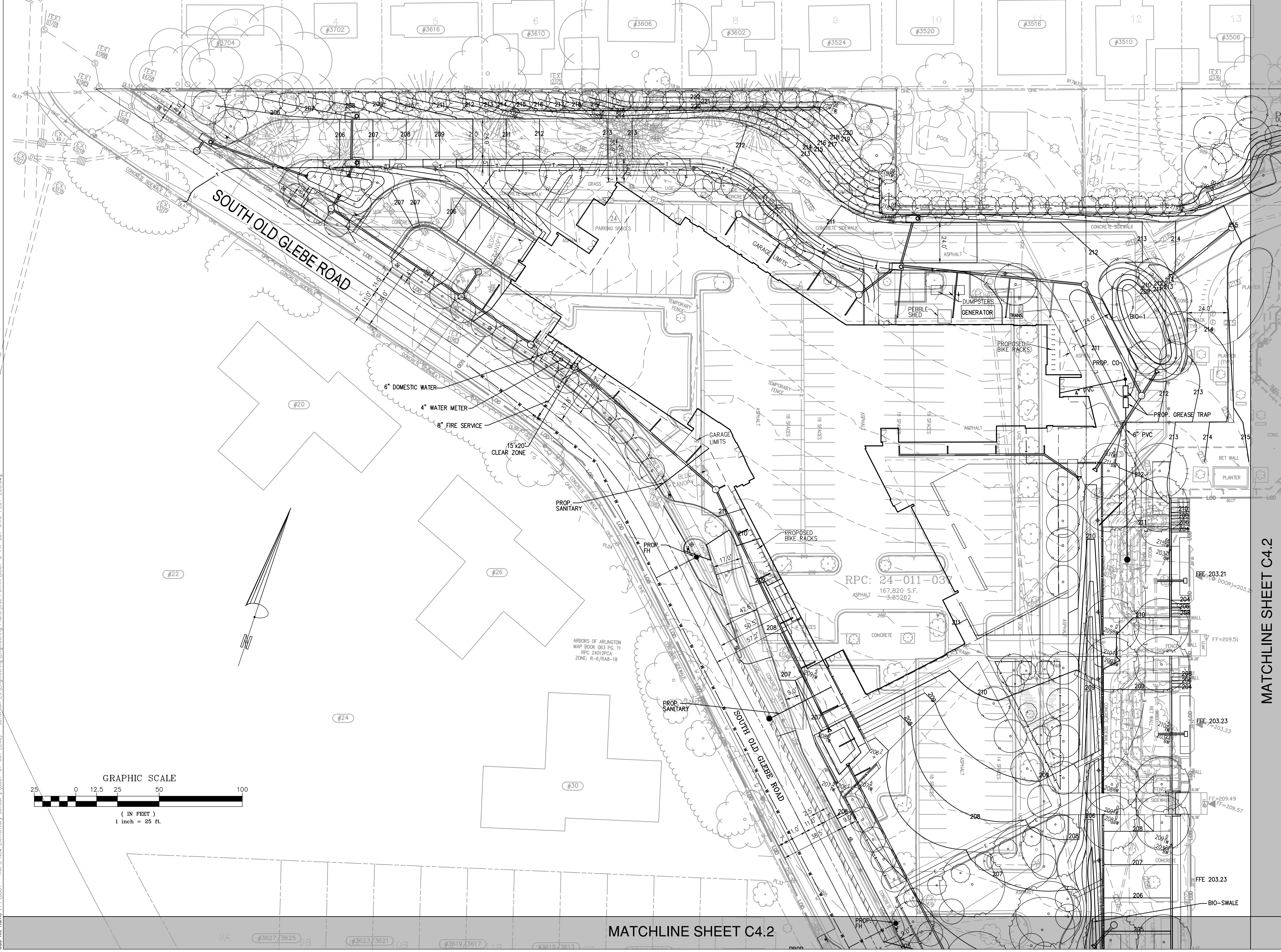
Date
03-06-2017

Scale
1" = 100'

CONTEXTUAL PLAN

C3.0

Cod file name : P:\8381 - APCS New Elementary School 2\8381-01-001 (ENC) - Jefferson ES\Engineering\Engineering Plans\8381-D-PR-001-C3.0-CONTEXT PLAN.dwg



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2. USE PERMIT SUBMISSION	03.06.2017
3. USE PERMIT RESUBMISSION	

USE PERMIT

Date: 03-06-2017

Scale: 1" = 25'

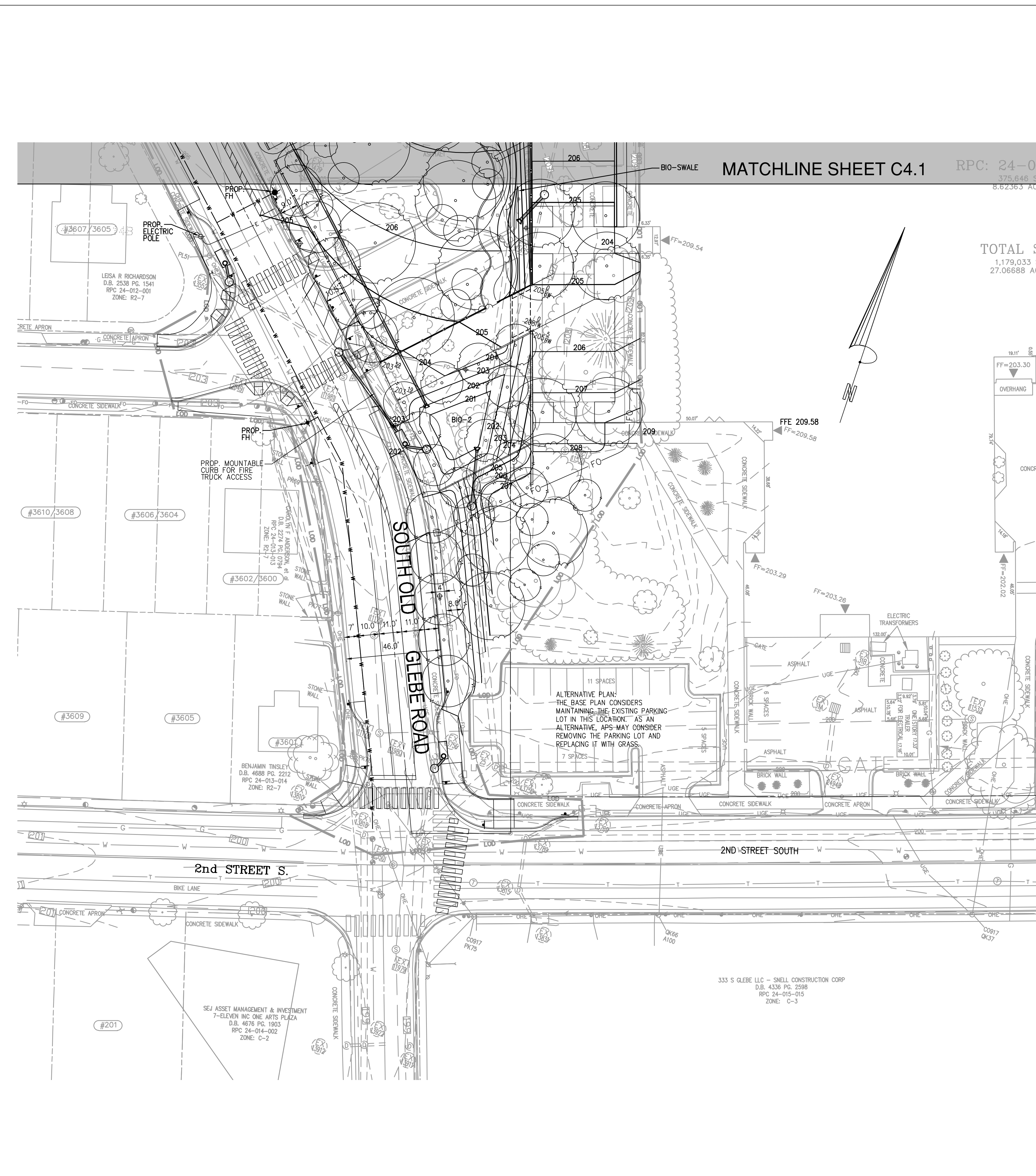
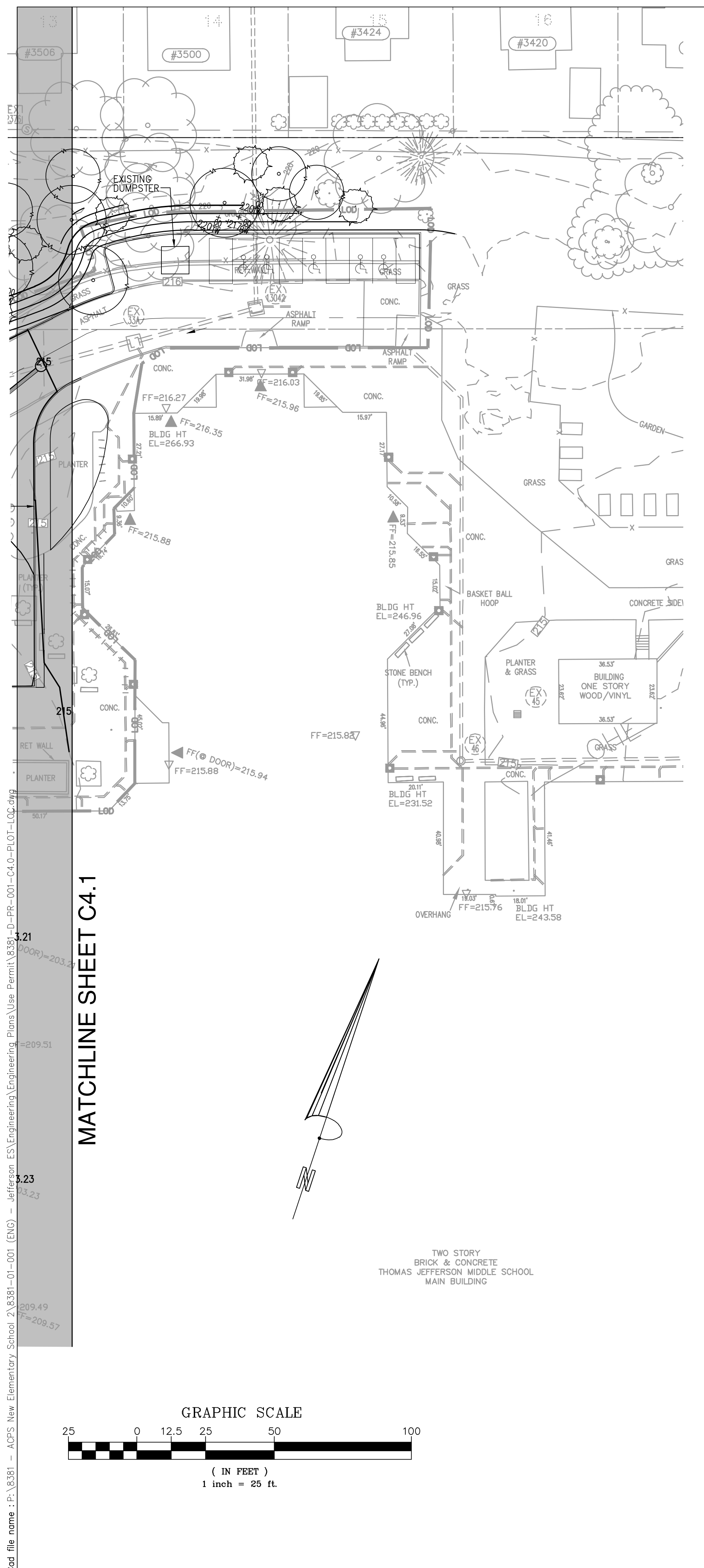
PLOT AND LOCATION PLAN

C4.1

MATCHLINE SHEET C4.2

MATCHLINE SHEET C4.2

Cod file name : P:\8381 - APCS New Elementary School\8381-01-001 (ENC) - Jefferson ES\Engineering\Engineering Plans\Use Permit\8381-D-PR-001-C4.0-PIOT-C4.0.dwg



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Arlington Public Schools

ARLINGTON PUBLIC SCHOOLS
 NEW ELEMENTARY SCHOOL
 AT THE SITE OF THOMAS JEFFERSON MIDDLE SCHOOL

125 SOUTH OLD GLEBE ROAD
 ARLINGTON, VA 22204

COMMONWEALTH OF VIRGINIA
 M. SCOTT DELGADO
 Lic. No. 32661
 03-06-17
 PROFESSIONAL ENGINEER

Checked By: MSD
 Drawn By: MSQ

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3	USE PERMIT RESUBMISSION	

USE PERMIT

Date: 03-06-2017

Scale: 1" = 25'

PLOT AND LOCATION PLAN

C4.2

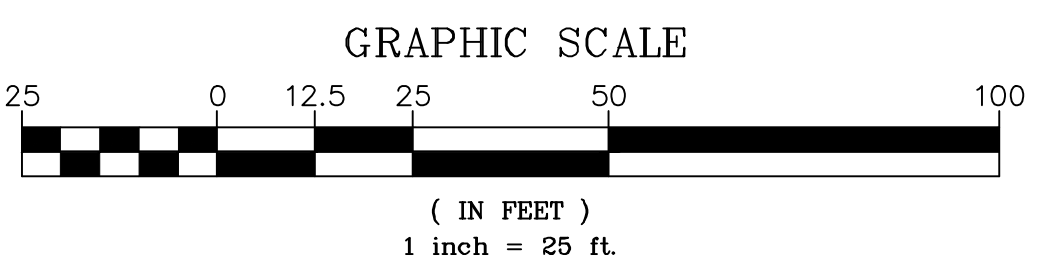
MATCHLINE SHEET C4.1

MATCHLINE SHEET C4.1

RPC: 24-011
 375,646 S.F.
 8.62363 ACRES

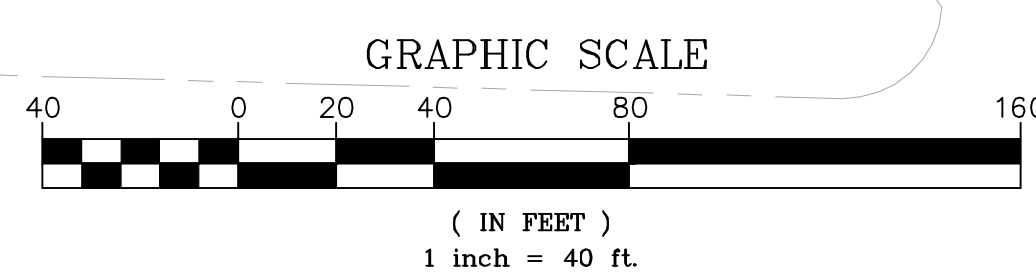
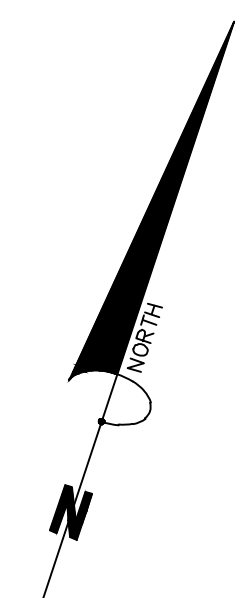
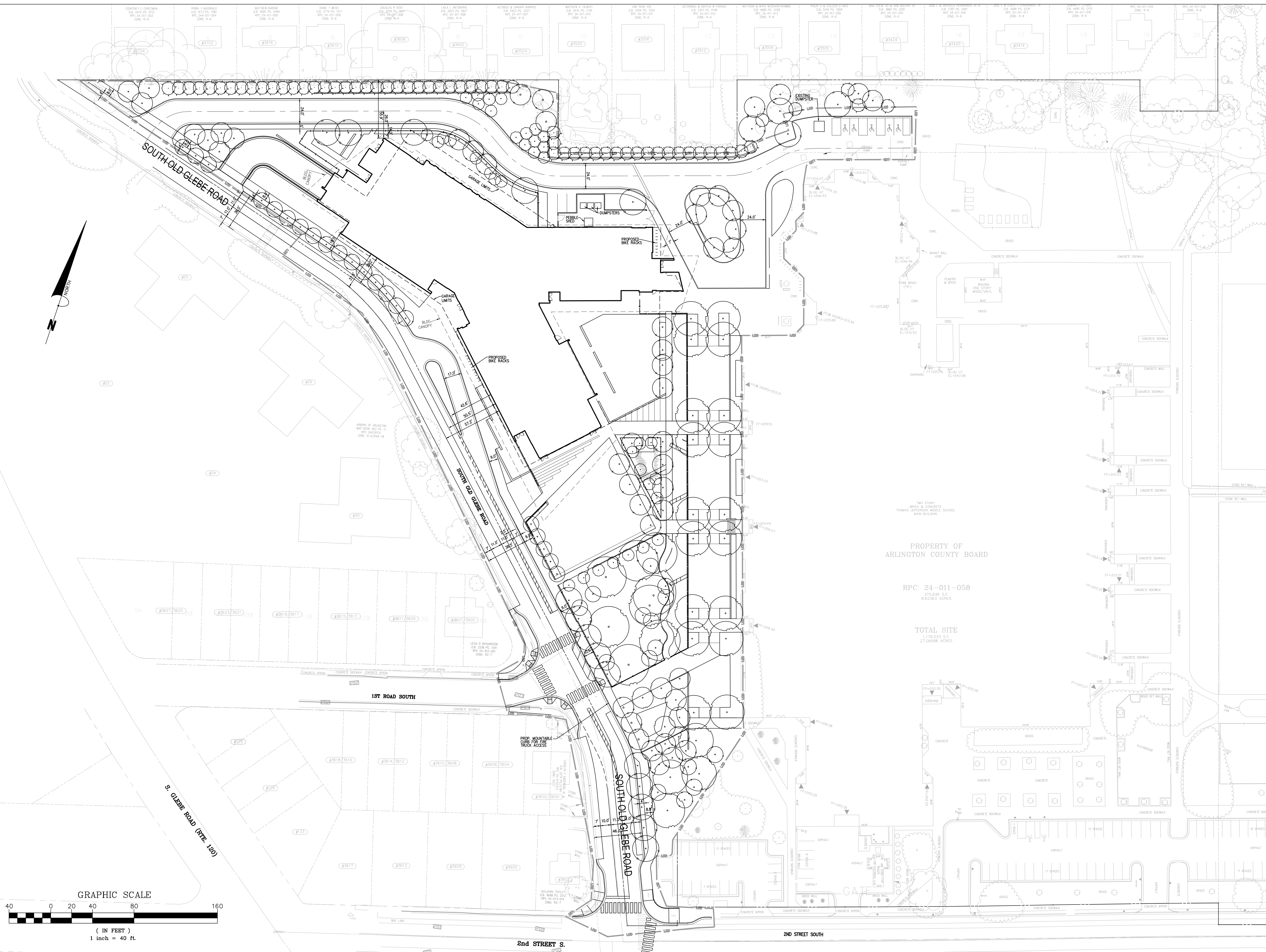
TOTAL SITE
 1,179,033 S.F.
 27.06688 ACRES

ALTERNATIVE PLAN:
 THE BASE PLAN CONSIDERS
 MAINTAINING THE EXISTING PARKING
 LOT IN THIS LOCATION. AS AN
 ALTERNATIVE, APS MAY CONSIDER
 REMOVING THE PARKING LOT AND
 REPLACING IT WITH GRASS.



Cod file name : P:\8381 - ACPs New Elementary School 2\8381-01-001 (ENC) - Jefferson ES\Engineering\Engineering Plans\Use Permit\8381-D-PR-001-C4.0-PIOT-LOC.dwg

Cod file name : P:\8381 - APCS New Elementary School 2\8381-01-001 (ENC) - Jefferson ES\Engineering\Engineering Plans\Use Permit\8381-D-PR-001-C4.3-PRES-PLAN.dwg



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ARLINGTON PUBLIC SCHOOLS
NEW ELEMENTARY SCHOOL
AT THE SITE OF THOMAS JEFFERSON MIDDLE SCHOOL

125 SOUTH OLD GLEBE ROAD
ARLINGTON, VA 22204



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Drawn By **MSQ**

NOT FOR CONSTRUCTION

ISSUES AND REVISIONS	DATE
NO. SUBMITTAL	11.30.2016
USE PERMIT SUBMISSION	
USE PERMIT RESUBMISSION	03.05.2017

USE PERMIT

Date
03-06-2017

Scale
1" = 40'

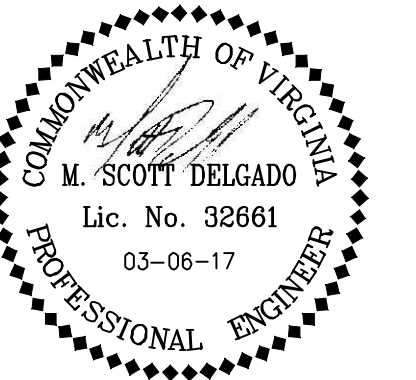
OVERALL
PRESENTATION PLAN

C4.3

PROPERTY OF
ARLINGTON COUNTY BOARD

RPC: 24-011-058
375,646 S.F.
8.62363 ACRES

TOTAL SITE
1,179,033 S.F.
27.00698 ACRES



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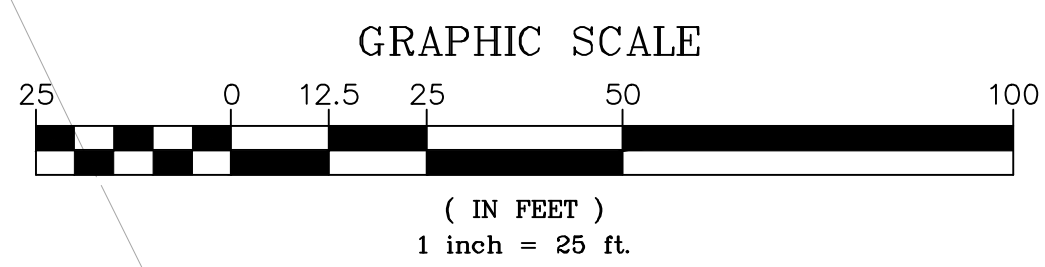
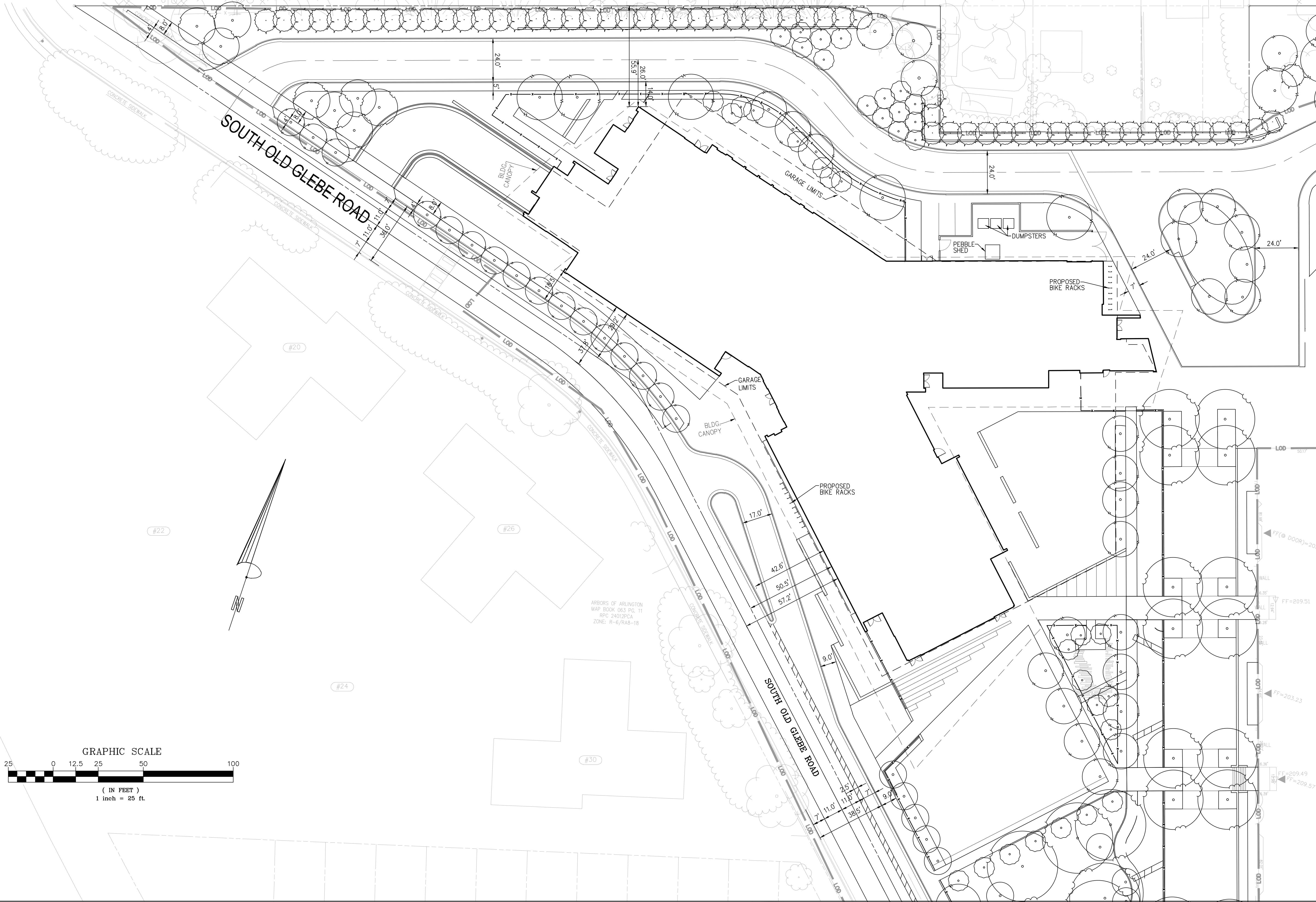
Date
03-06-2017

Scale
1" = 25'

PRESENTATION PLAN

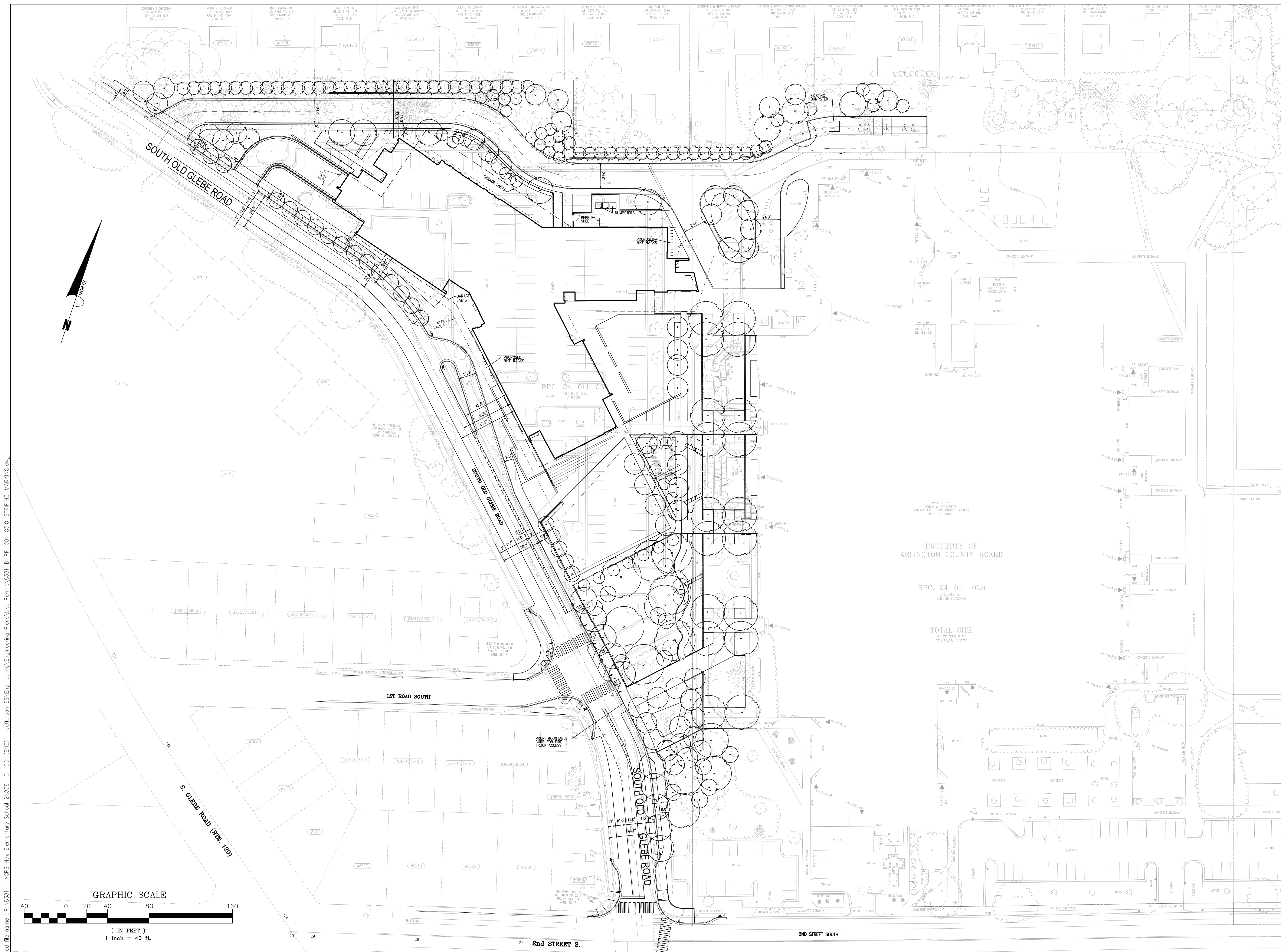
C4.4

MATCHLINE SHEET C4.5

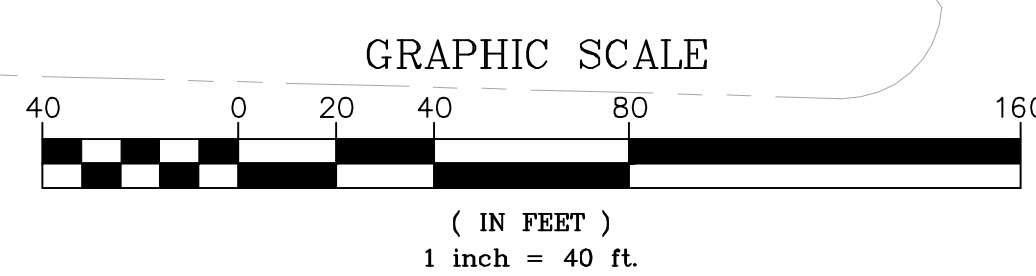


MATCHLINE SHEET C4.5

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USE PERMIT

Date
 03-06-2017

Scale
 1" = 40'

**OVERALL STRIPING
 AND MARKING**

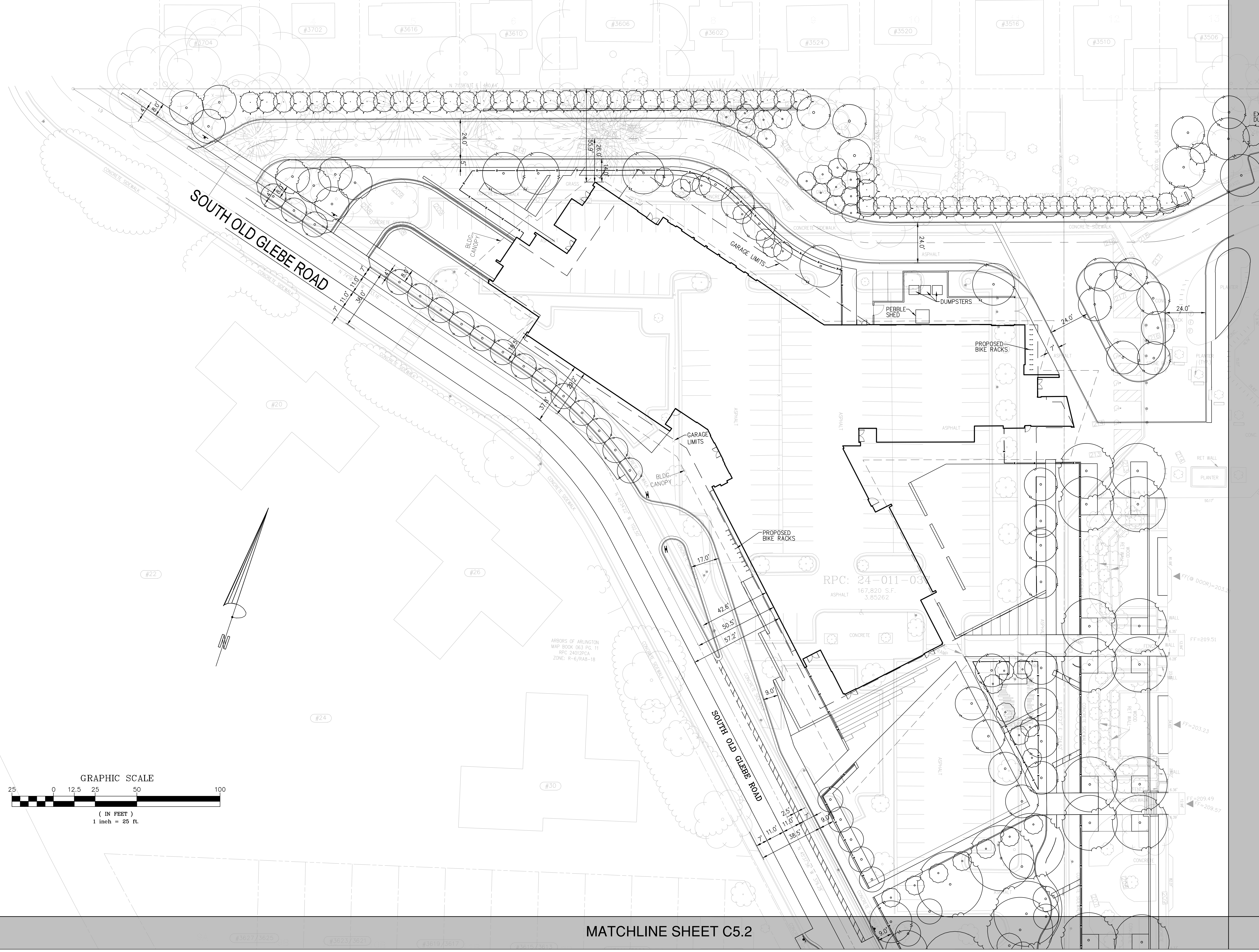
C5.0

PROPERTY OF
 ARLINGTON COUNTY BOARD

RPC: 24-011-058
 375,646 S.F.
 8.62363 ACRES

TOTAL SITE
 1,179,033 S.F.
 27.00698 ACRES

Cad file name : P:\8381 - APCS New Elementary School\8381-01-001 (ENC) - Jefferson ES\Engineering\Engineering Plans\8381-D-PR-001-C5.0-STRIPING-MARKING.dwg

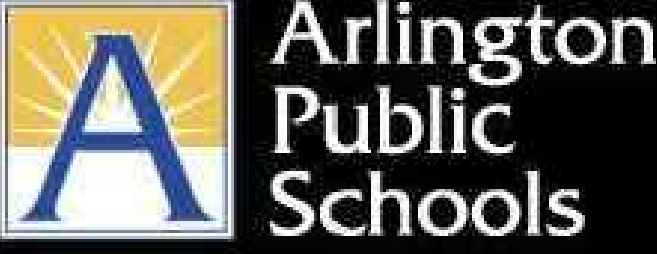


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USE PERMIT RESUBMISSION	

USE PERMIT

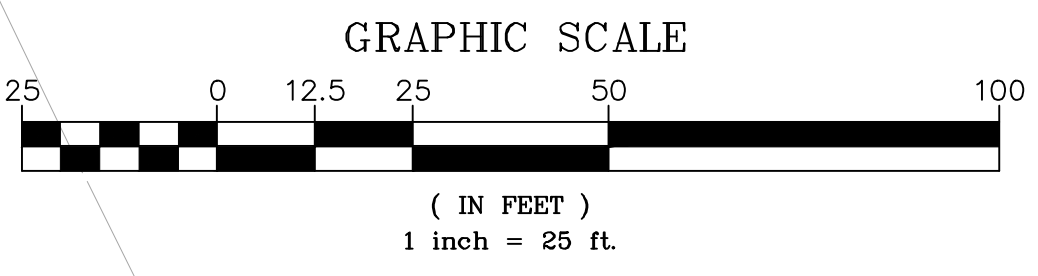
Date
03-06-2017

Scale
1" = 25'

STRIPING AND MARKING PLAN

C5.1

MATCHLINE SHEET C5.2



ARBORS OF ARLINGTON
MAP BOOK 063 PG. 11
RPC 2401/2PCA
ZONE: R-6/RA4B-1B

RPC: 24-011-03
ASPHALT 167,820 S.F.
3.85262



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Drawn By **MSQ**

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USE PERMIT RESUBMISSION	03.06.2017

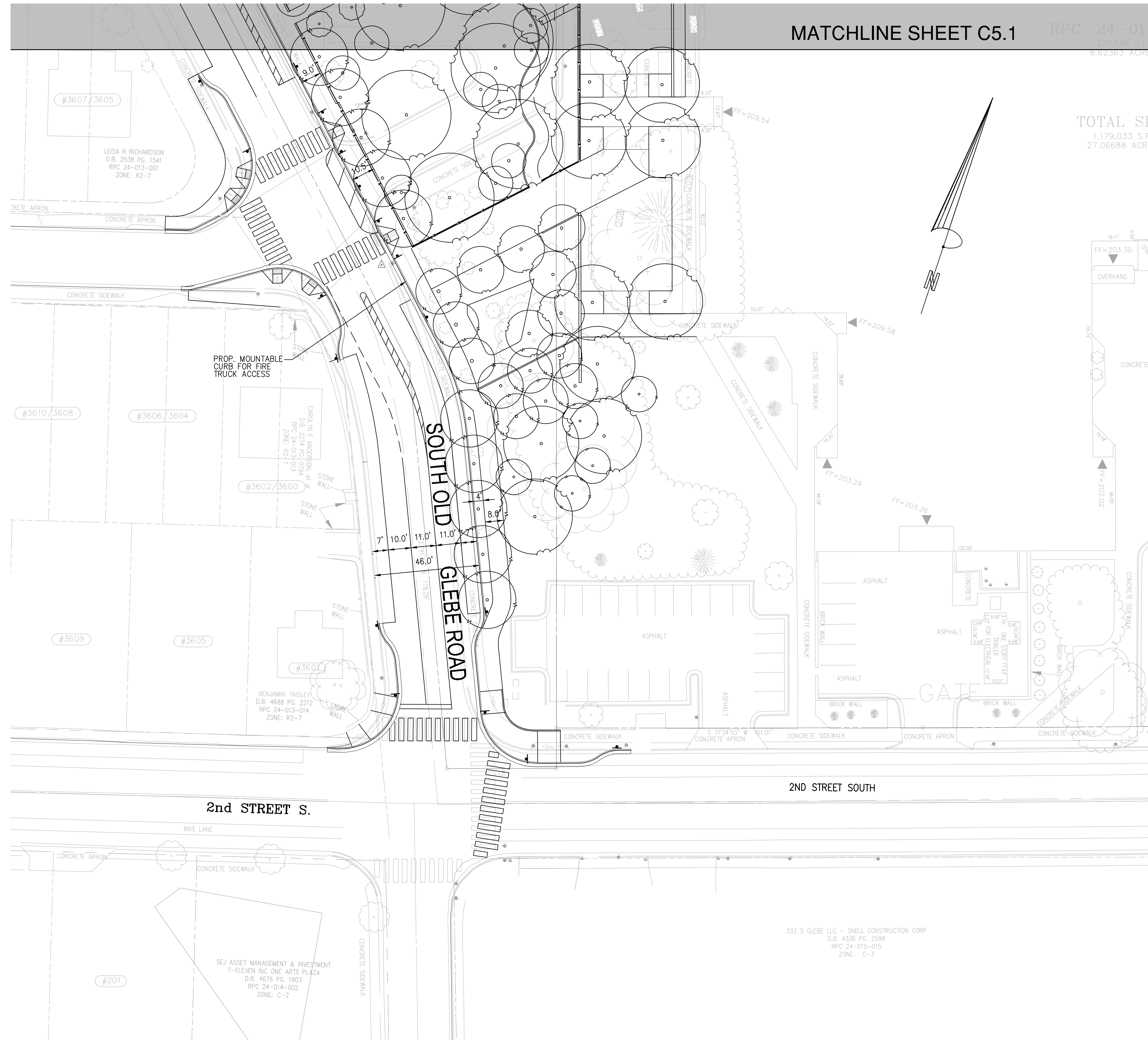
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Date
03-06-2017

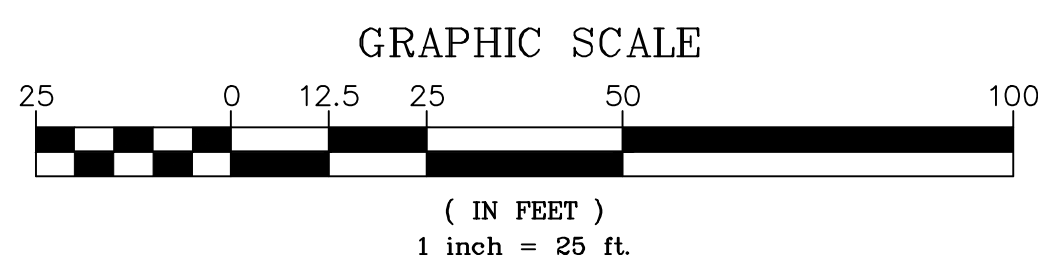
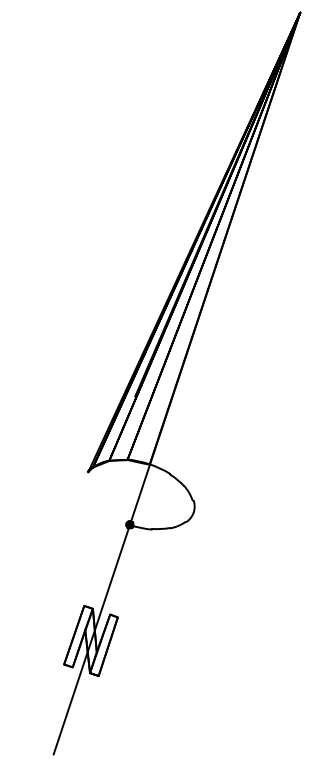
Scale
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STRIPING AND MARKING PLAN

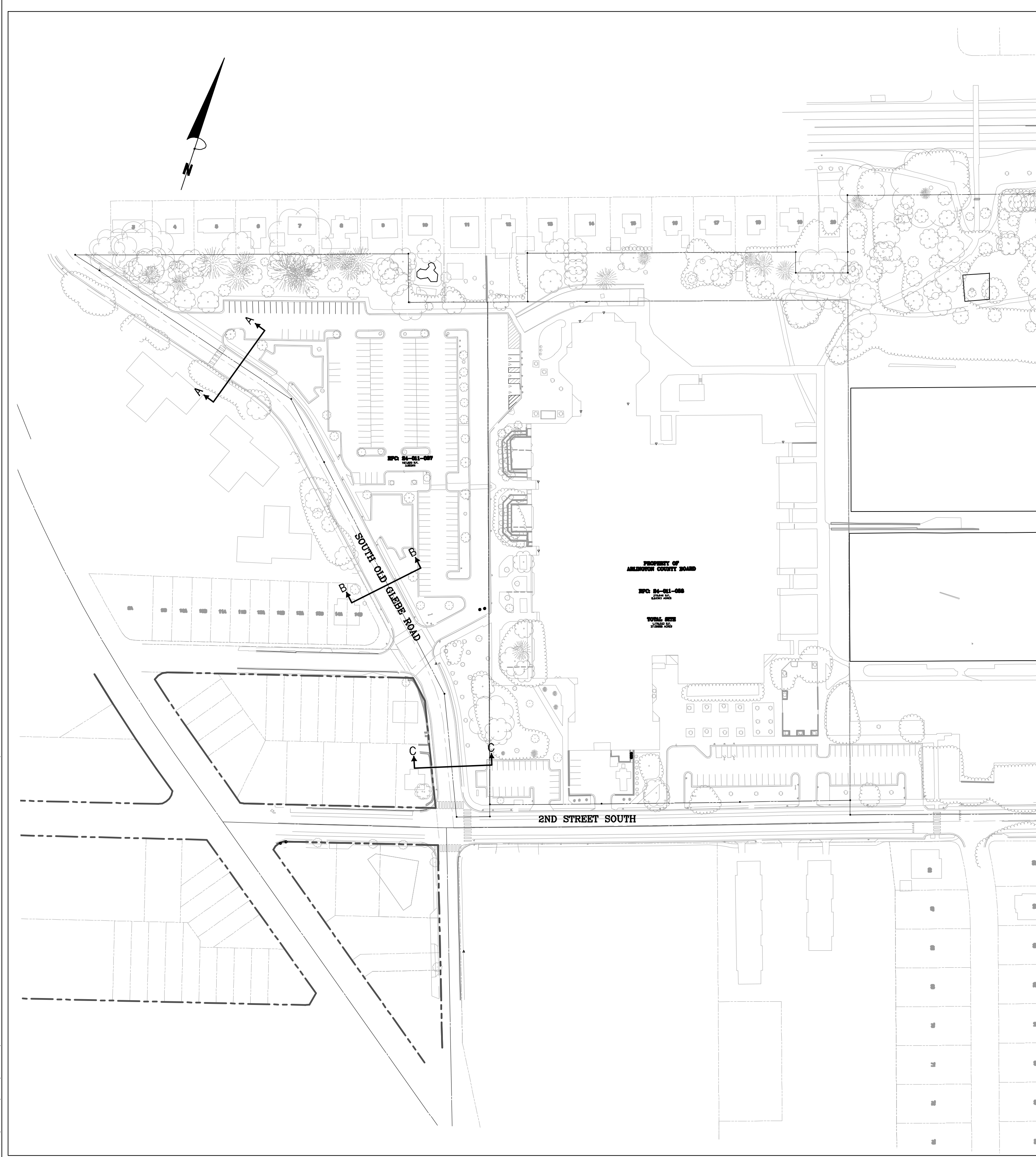
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TOTAL SITE
1,179,033 S.F.
27.06688 ACRES

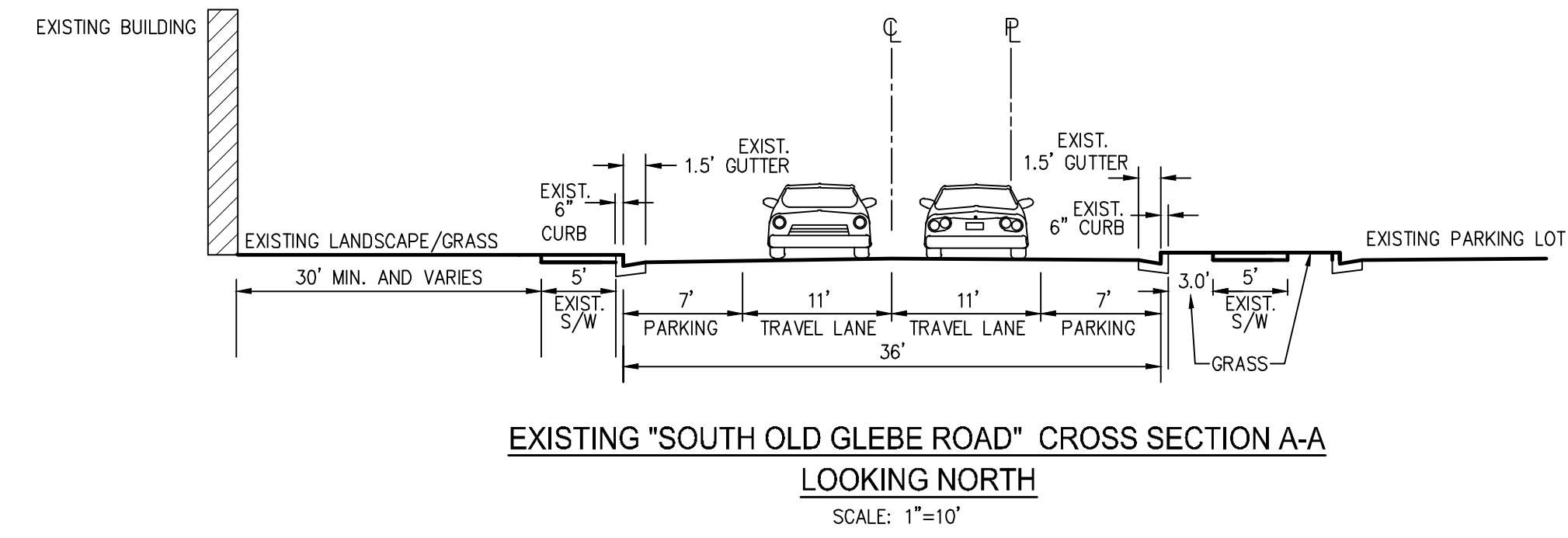


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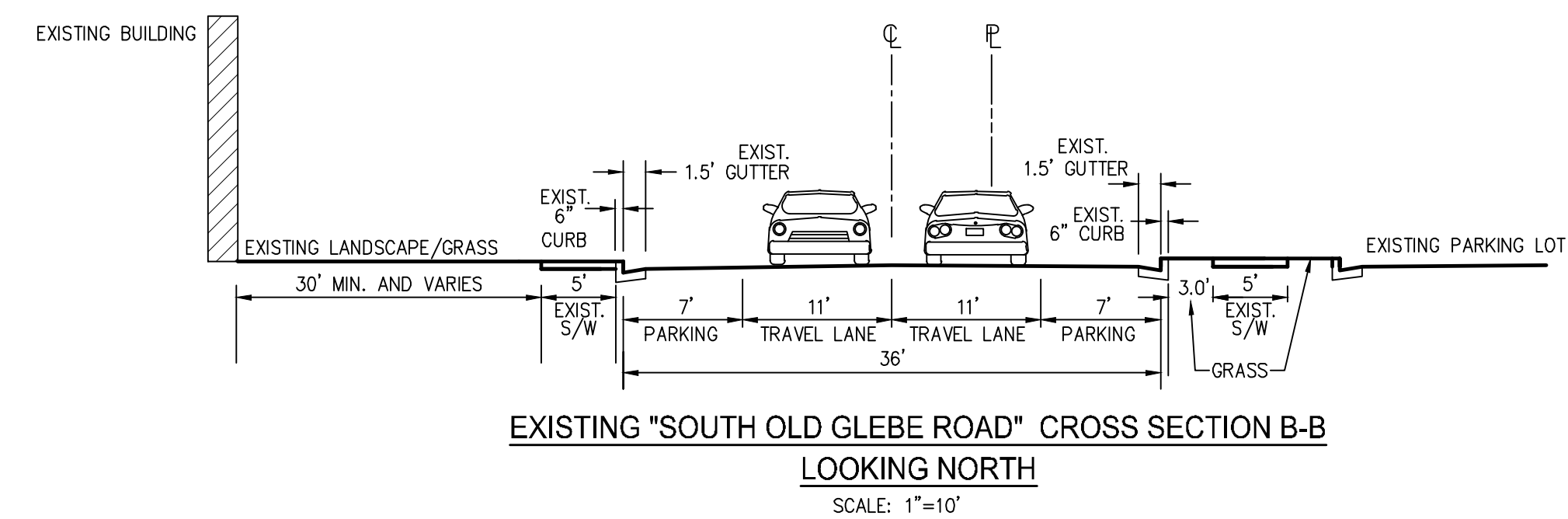


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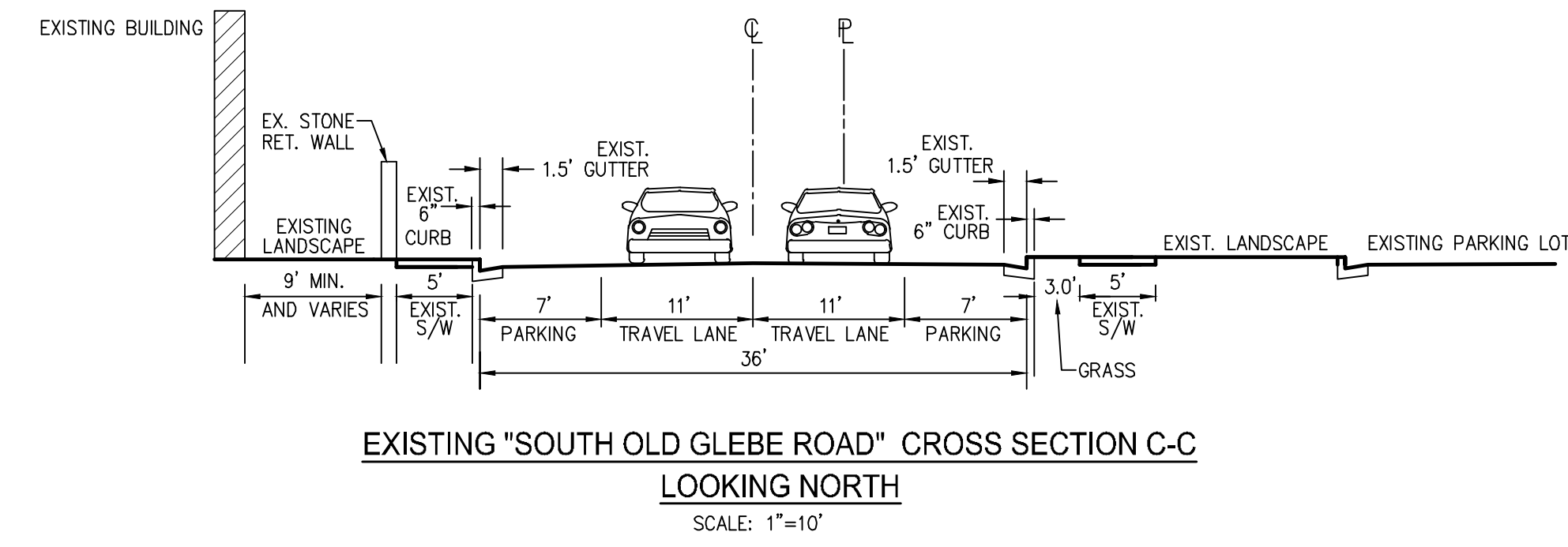
SCALE: 1"=100'



EXISTING "SOUTH OLD GLEBE ROAD" CROSS SECTION A-A
LOOKING NORTH
SCALE: 1"=10'



EXISTING "SOUTH OLD GLEBE ROAD" CROSS SECTION B-B
LOOKING NORTH
SCALE: 1"=10'



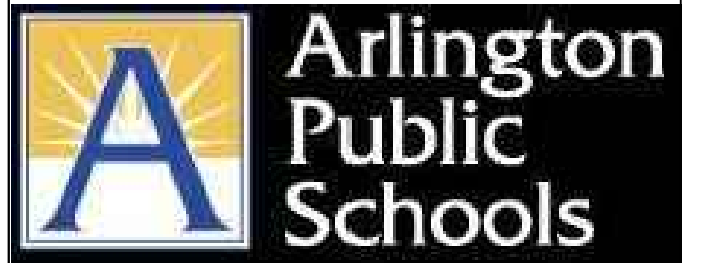
EXISTING "SOUTH OLD GLEBE ROAD" CROSS SECTION C-C
LOOKING NORTH
SCALE: 1"=10'

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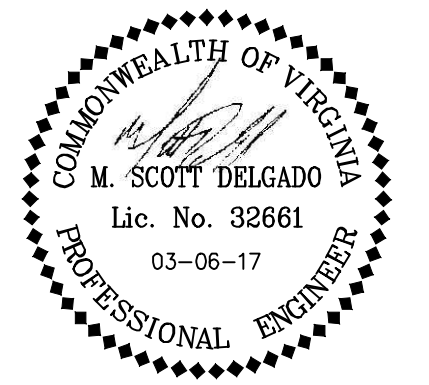
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USE PERMIT

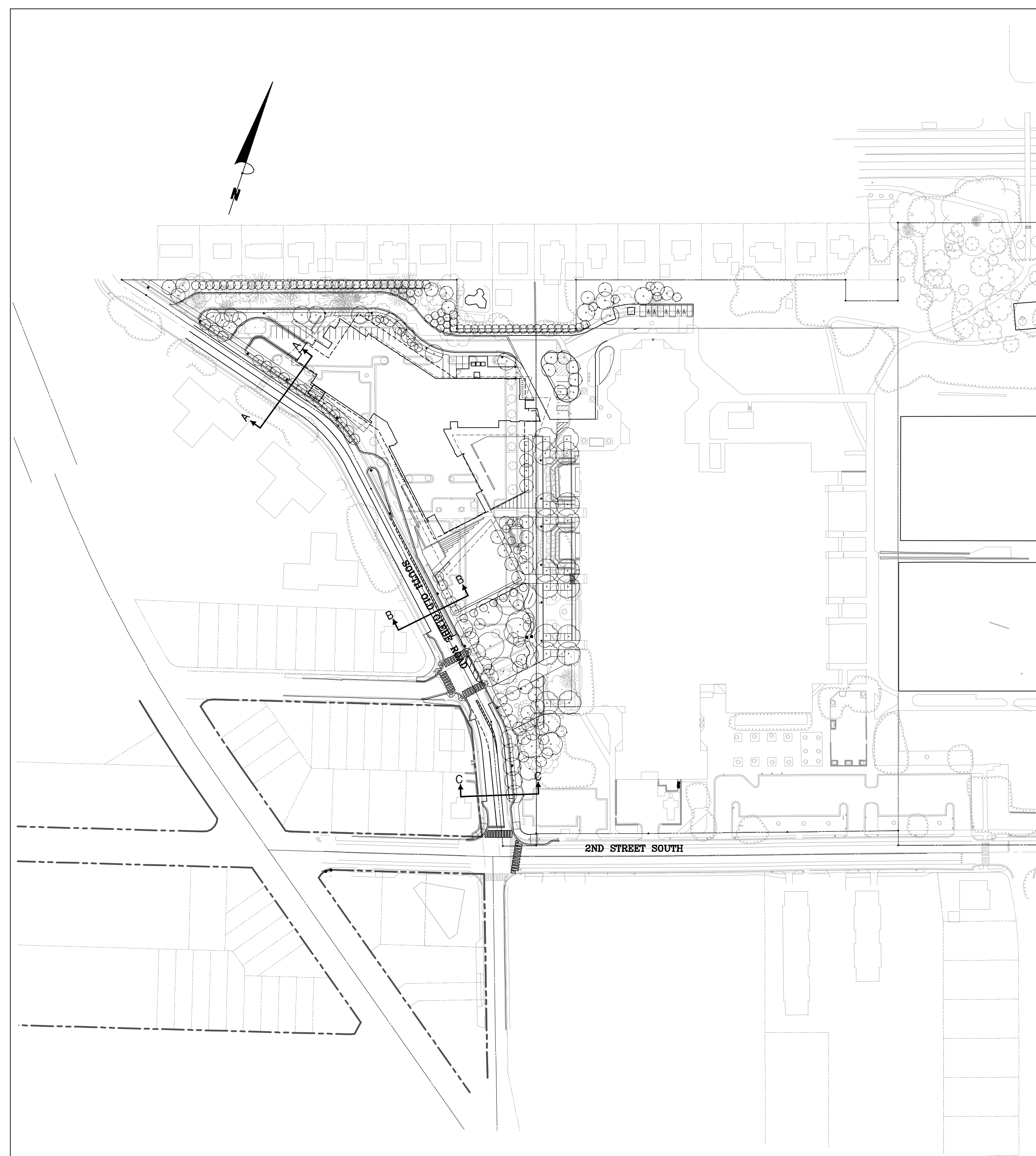
Date
03-06-2017

Scale
AS SHOWN

EXISTING STREET SECTIONS

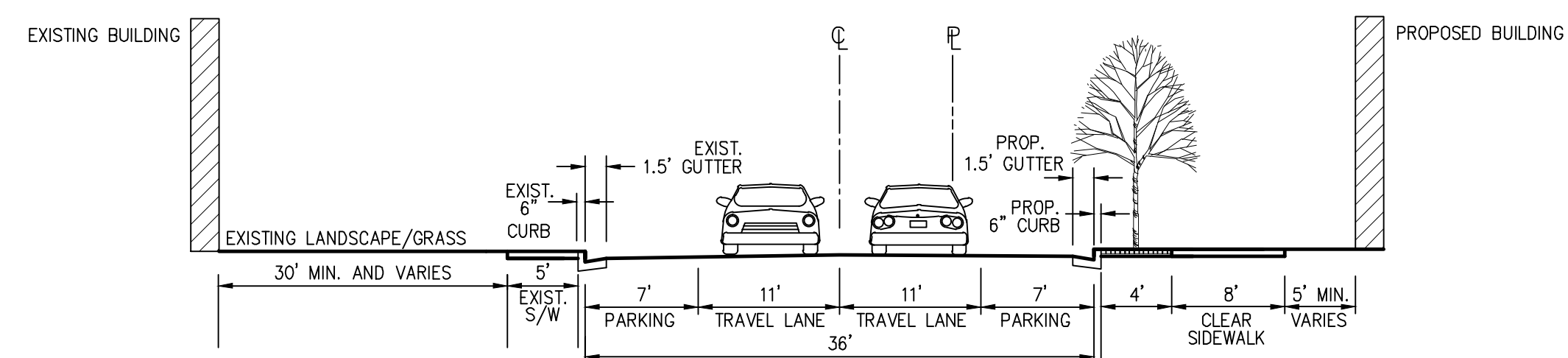
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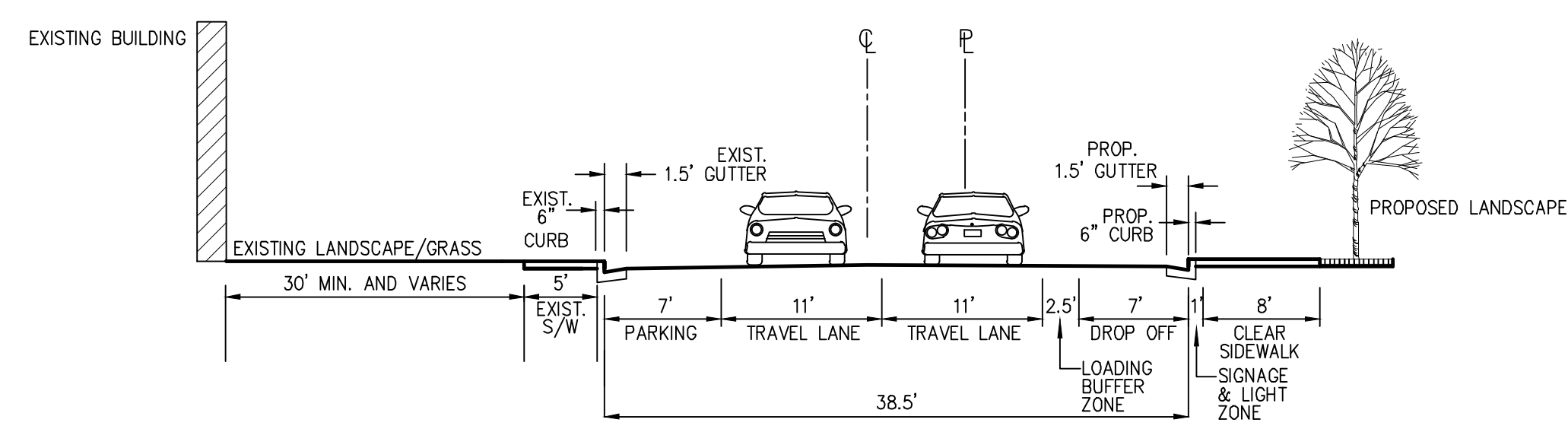


KEY PLAN

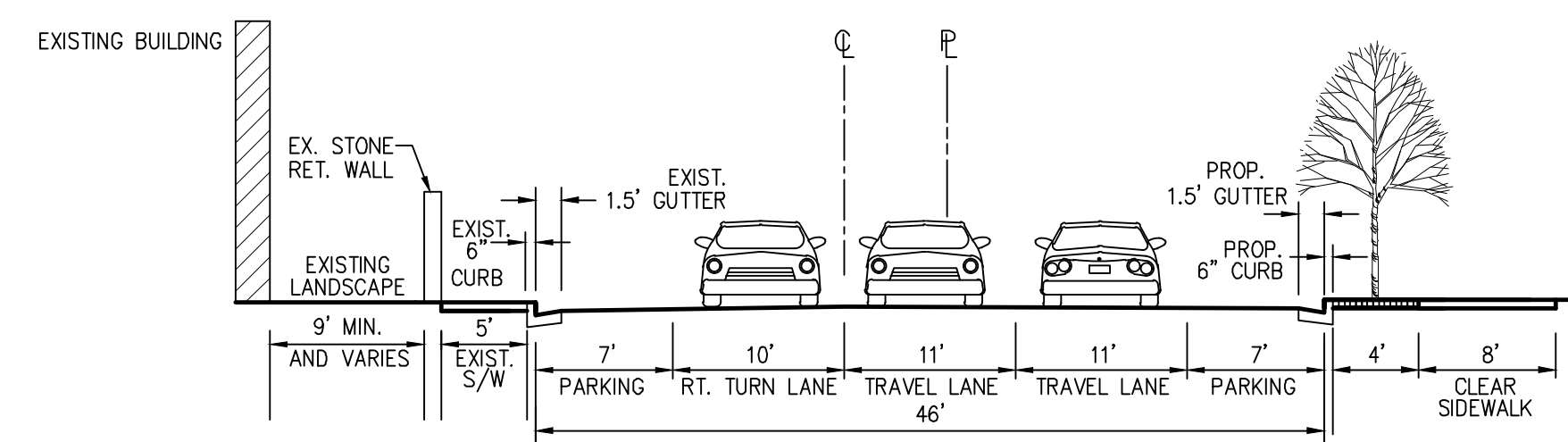
SCALE: 1"=100'



PROPOSED "SOUTH OLD GLEBE ROAD" CROSS SECTION A-A
LOOKING NORTH
SCALE: 1"=10'



PROPOSED "SOUTH OLD GLEBE ROAD" CROSS SECTION B-B
LOOKING NORTH
SCALE: 1"=10'



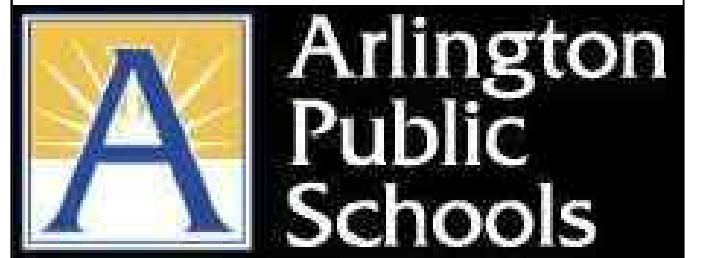
PROPOSED "SOUTH OLD GLEBE ROAD" CROSS SECTION C-C
LOOKING NORTH
SCALE: 1"=10'

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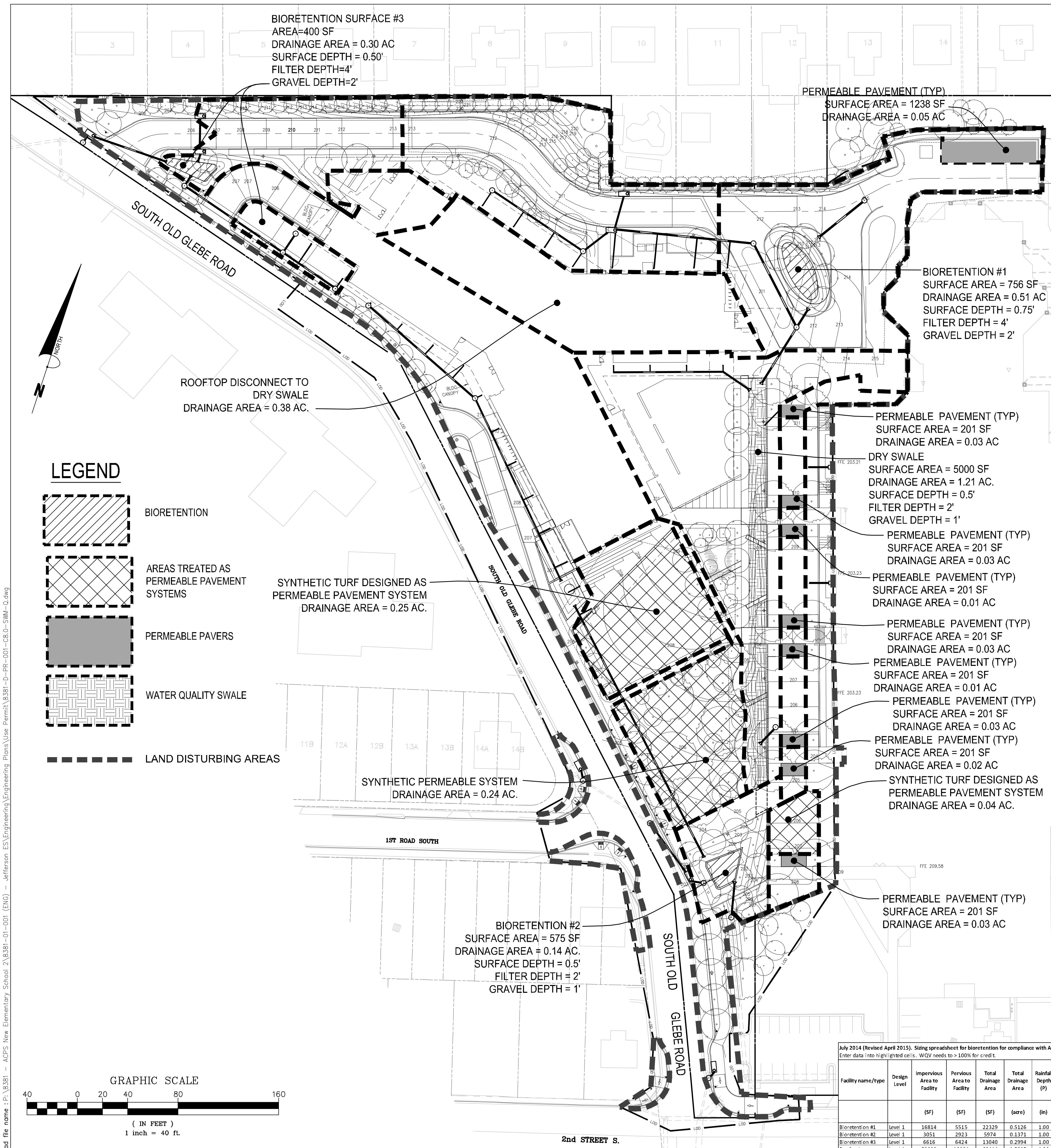
USE PERMIT

Date
03-06-2017

Scale
AS SHOWN

PROPOSED STREET SECTIONS

C7.0

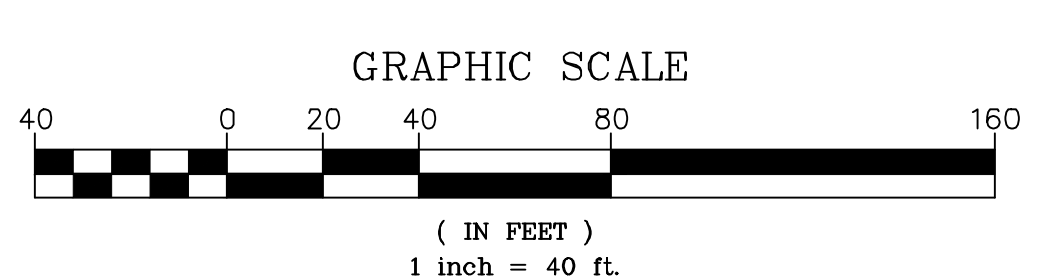


LEGEND

- BIORETENTION
- AREAS TREATED AS PERMEABLE PAVEMENT SYSTEMS
- PERMEABLE PAVERS
- WATER QUALITY SWALE
- LAND DISTURBING AREAS

SYNTHETIC TURF DESIGNED AS PERMEABLE PAVEMENT SYSTEM DRAINAGE AREA = 0.25 AC.

SYNTHETIC PERMEABLE SYSTEM DRAINAGE AREA = 0.24 AC.



STORMWATER MANAGEMENT NARRATIVE

STORMWATER RUNOFF FROM THE SUBJECT SITE WILL BE TREATED THROUGH THE USE OF BIORETENTION FILTERS, PERMEABLE PAVING, SYNTHETIC FIELDS(TREATED AS A PERMEABLE PAVEMENT SYSTEMS), AND A DRY SWALE. WATER WILL BE TREATED THROUGH THE VARIOUS TREATMENT DEVICES AND EVENTUALLY OUTFALL IN THE EXISTING STORM SEWER NETWORK. PART OF THE SITE WILL BE COLLECTED AND OUTFALL INTO THE EXISTING STORM NETWORK ON SOUTH OLD GLEBE ROAD; HOWEVER THE MAJORITY OF THE SITE WILL OUTFALL INTO THE EXISTING STORM NETWORK ALONG 2ND STREET SOUTH. THROUGH THE ENERGY BALANCE EQUATION(SEE WORKSHEET THIS SHEET) BOTH Q_{POST} FOR THE 1 AND 10 YEAR STORMS ARE BELOW THE Q_{ALLOWABLE}. THEREFORE WATER QUANTITY HAS BEEN MET ONSITE AND NO FURTHER STORAGE OR DETENTION WILL BE REQUIRED.

WATER QUALITY TREATMENT WILL BE PROVIDED IN MANY FORMS FOR THE SUBJECT SITE. THE TOTAL PHOSPHOROUS LOAD REDUCTION REQUIRED IS 1.24 (LB/YEAR) PER THE VRRM SPREADSHEET COMPUTATIONS LOCATED ON SHEET C8.1. ALL BIORETENTION AND DRY SWALE SURFACE AREAS ARE ACCOUNTED FOR AS FOREST AND OPEN SPACE CONDITIONS IN THE VRRM DESIGN. THEREFORE, THE VRRM WILL MATCH ALL BIORETENTION AND DRY SWALE DRAINAGE AREAS LESS THE TREATMENT PRACTICE'S SURFACE AREA. WITH THE USE OF VARIOUS STORMWATER TREATMENT PRACTICES, THE REQUIRED POLLUTANT REMOVAL HAS BEEN MET.

A GEOTECHNICAL INVESTIGATION WAS PERFORMED FOR THIS SITE. THROUGH THIS INVESTIGATION, NO GROUNDWATER WAS ENCOUNTERED AND THE SOILS ON SITE WERE FOUND TO HAVE A FEASIBLE INFILTRATION RATE FOR THE VARIOUS STORMWATER PRACTICES USED TO TREAT THIS SITE.

DURING FINAL ENGINEERING, THE APPLICANT RESERVES THE RIGHT TO MODIFY THE PROPOSED STORMWATER PLAN AS LONG AS THE MINIMAL REGULATORY REQUIREMENTS ARE MET.

SWM Water Quantity Energy Balance Worksheet

SITE AREA (acre)	1-year		10-year	
	PRE	POST (adjusted)	PRE	POST (adjusted)
4.84	2.69	2.69	4.84	4.84
P	94	90	94	90
CN	0.64	1.11	0.64	1.11
S=1000/CN-10	0.25	0.22	0.13	0.22
RV=(P-0.25) ² /(P-0.25)+S	2.05	1.70	4.15	3.72

$Q_{Post Development} \leq I.F. * (Q_{pre-development} * RV_{pre-development}) / RV_{Developed}$

I.F. 0.8

CHANNEL PROTECTION	
Qpre-development	11.88
QPost Development	10.14
RVPost Development (with runoff reduction)	1.71
Qallowable	11.40

FLOOD CONTROL	
Qpre-development	23.18
QPost Development	21.53
RVPost Development (with runoff reduction)	3.68
Qallowable	26.14

July 2014 (Revised April 2015). Sliding spreadsheet for bioretention for compliance with Arlington County Stormwater Management Ordinance

Facility name/type	Design Level	Impervious Area to Facility (SF)	Permeous Area to Facility (SF)	Total Drainage Area (SF)	Total Drainage Area (acre)	Rainfall Depth (P) (in)	Iv	Target storage (WQV) (CF)	Width (ft)	Length (ft)	Ponding depth (in)	Filter depth (in)	Gravel depth (in)	Filter : Gravel Depth Ratio	Gravel Storage Volume (1.00 void) (CF)	Top Surface Area (SF)	Bottom Surface Area (SF)	Ponding Volume (1.00 void) (CF)	Soil Storage Volume (0.25 void) (CF)	Gravel Storage Volume (0.4 void) (CF)	Available Storage (CF)	% Water Quality Volume Captured
Bioretention #1	Level 1	16814	5515	22329	0.5136	1.00	0.77	1432.22	27.50	27.50	9	48	24	2.00	N/A	756.25	529.00	481.97	529.00	433.20	1494.17	100.1%
Bioretention #2	Level 1	3051	2923	5974	0.1371	1.00	0.59	295.13	21.80	21.80	6	24	12	2.00	N/A	475.24	353.44	207.17	176.72	141.38	525.27	178.0%
Bioretention #3	Level 1	6616	6424	13040	0.2994	1.00	0.59	641.54	20.00	20.00	6	48	24	2.00	N/A	400.00	289.00	172.25	289.00	231.20	692.45	107.9%
Dry Swale	Level 1	53030	16384	69414	1.5935	1.00	0.78	4498.58	14.00	357.00	6	24	12	2.00	N/A	4998.00	3894.00	2223.00	1947.00	1557.60	5727.60	127.3%



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NO.	SUBMITTAL	DATE
USE PERMIT SUBMISSION		11.30.2016
USE PERMIT RESUBMISSION		03.06.2017

USE PERMIT

Date 03-06-2017
Scale 1" = 40'

STORMWATER MANAGEMENT PLAN

C8.0

Cod file name : P:\8381 - ACP's New Elementary School 2\8381-01-001 (ENG) - Jefferson ES_Engineering_Engineering_Plans\Use Permits\8381-D-PR-001-C8.0-SWM-C.dwg

[Update Summary Sheet](#)

[Print Preview](#)

[Print](#)

Site Summary

Total Rainfall (in):	43
Total Disturbed Acreage:	4.8400

Site Land Cover Summary

Pre-ReDevelopment Land Cover (acres)

	A soils	B Soils	C Soils	D Soils	Totals	% of Total
Forest/Open (acres)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Managed Turf (acres)	0.0000	0.0000	0.0000	0.9900	0.9900	20.4545
Impervious Cover (acres)	0.0000	0.0000	0.0000	3.8500	3.8500	79.5455
					4.8400	100.0000

Post-ReDevelopment Land Cover (acres)

	A soils	B Soils	C Soils	D Soils	Totals	% of Total
Forest/Open (acres)	0.0000	0.0000	0.0000	0.1500	0.1500	3.0992 *
Managed Turf (acres)	0.0000	0.0000	0.0000	1.3200	1.3200	27.2727
Impervious Cover (acres)	0.0000	0.0000	0.0000	3.3700	3.3700	69.6281
					4.8400	100.0000

* Forest/Open Space areas must be protected in accordance with the Virginia Runoff Reduction Method

Site Tv and Land Cover Nutrient Loads

	Final Post-Development (Post-ReDevelopment & New Impervious)	Post-ReDevelopment	Post-Development (New Impervious)	Adjusted Pre-ReDevelopment
Site Rv	0.7312	0.7312	--	0.8068
Treatment Volume (ft ³)	12,846.5700	12,846.5700	--	14,175.1500
TP Load (lb/yr)	8.0715	8.0715	--	8.9062

Pre-ReDevelopment TP Load per acre (lb/acre/yr)	Final Post-Development TP Load per acre (lb/acre/yr)	Post-ReDevelopment TP Load per acre (lb/acre/yr)
1.8400	1.6700	1.6700

Total TP Load Reduction Required (lb/yr)	0.9465	0.9465	0
--	--------	--------	---

	Final Post-Development Load (Post-ReDevelopment & New Impervious)	Pre-ReDevelopment
TN Load (lb/yr)	57.7420	63.7137

Site Compliance Summary

Maximum % Reduction Required Below Pre-ReDevelopment Load	20%
---	-----

Total Runoff Volume Reduction (ft ³)	3,953.5238
Total TP Load Reduction Achieved (lb/yr)	3.2992
Total TN Load Reduction Achieved (lb/yr)	25.5135
Remaining Post Development TP Load (lb/yr)	4.7723
Remaining TP Load Reduction Required	0.0000 ** TARGET TP REDUCTION EXCEEDED

	1-year storm	2-year storm	10-year storm
Target Rainfall Event (in)	2.69	3.15	4.84

Drainage Areas	RV & CN	Drainage Area A	Drainage Area B	Drainage Area C	Drainage Area D	Drainage Area E
CN		94	0	0	0	0
RR (ft ³)		3,953.5238	0.0000	0.0000	0.0000	0.0000
1-year return period	RV wo RR (ws-in)	2.0513	0.0000	0.0000	0.0000	0.0000
	RV w RR (ws-in)	1.7243	0.0000	0.0000	0.0000	0.0000
	CN adjusted	90	0	0	0	0
2-year return period	RV wo RR (ws-in)	2.4953	0.0000	0.0000	0.0000	0.0000
	RV w RR (ws-in)	2.1683	0.0000	0.0000	0.0000	0.0000
	CN adjusted	90	0	0	0	0
10-year return period	RV wo RR (ws-in)	4.1502	0.0000	0.0000	0.0000	0.0000
	RV w RR (ws-in)	3.8231	0.0000	0.0000	0.0000	0.0000
	CN adjusted	91	0	0	0	0

Drainage Area Summary

	D.A. A	D.A. B	D.A. C	D.A. D	D.A. E	Total
Forest/Open (acres)	0.1500	0.0000	0.0000	0.0000	0.0000	0.1500
Managed Turf (acres)	0.5600	0.0000	0.0000	0.0000	0.0000	0.5600
Impervious Cover (acres)	2.6200	0.0000	0.0000	0.0000	0.0000	2.6200
Total Area (acres)	3.3300	0.0000	0.0000	0.0000	0.0000	3.3300

Drainage Area Compliance Summary

	D.A. A	D.A. B	D.A. C	D.A. D	D.A. E	Total
TP Load Reduced (lb/yr)	3.2992	0.0000	0.0000	0.0000	0.0000	3.2992
TN Load Reduced (lb/yr)	25.5135	0.0000	0.0000	0.0000	0.0000	25.5135

Drainage Area A Summary

Land Cover Summary

	A Soils	B Soils	C Soils	D Soils	Total	% of Total
Forest/Open (acres)	0.0000	0.0000	0.0000	0.1500	0.1500	5
Managed Turf (acres)	0.0000	0.0000	0.0000	0.5600	0.5600	17
Impervious Cover (acres)	0.0000	0.0000	0.0000	2.6200	2.6200	79
					3.3300	

BMP Selections

Practice	Managed Turf Credit Area (acres)	Impervious Cover Credit Area (acres)	BMP Treatment Volume (ft ³)	TP Load from Upstream Practices (lbs)	Untreated TP Load to Practice (lbs)	TP Removed (lb/yr)	TP Remaining (lb/yr)	Downstream Treatment to be Employed
2.f. To Rain Garden #1, Micro-Bioretenion #1 (Spec #9)		0.3800	1,310.4300	0.0000	0.8224	0.4523	0.3701	
3.a. Permeable Pavement #1 (Spec #7)		0.7900	2,724.3150	0.0000	1.7097	1.0045	0.7053	
5.a. Dry Swale #1 (Spec #10)	0.2600	0.8400	3,132.6900	0.0000	1.9660	1.0223	0.9437	
6.a. Bioretention #1 or Micro-Bioretenion #1 or Urban Bioretention (Spec #9)	0.3000	0.6100	2,375.8350	0.0000	1.4910	0.8201	0.6710	

Total Impervious Cover Treated (acres)	2.6200
Total Turf Area Treated (acres)	0.5600



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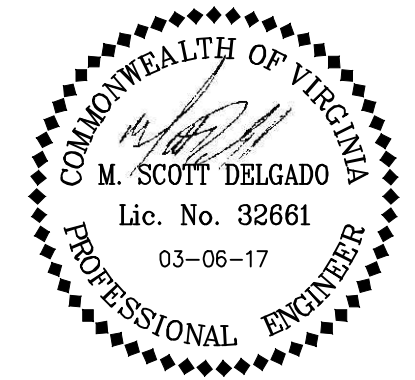
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ISSUES AND REVISIONS		DATE
NO.	SUBMITTAL	
	USE PERMIT SUBMISSION	11.30.2016
	USE PERMIT RESUBMISSION	03.06.2017

USE PERMIT

Date
03-06-2017

Scale
NTS

WATER QUALITY COMPUTATIONS

C8.1