

SILVER SPRING INTERMEDIATE NEIGHBORHOOD PARK

7801 CHICAGO AVENUE, TAKOMA PARK, MD 20912

FINAL DESIGN DEVELOPMENT - JUNE 4, 2019



VICINITY MAP
WSSC GRID MAP 209NW01

PROPERTY OWNER / APPLICANT
MARYLAND-NATIONAL CAPITAL PARK AND
PLANNING COMMISSION (M-NCPPC)
9500 BRUNETT AVENUE
SILVER SPRING, MD 20901
ATTN: MS. WEN HUANG
PH: (301) 495-2466

INDEX OF DRAWINGS

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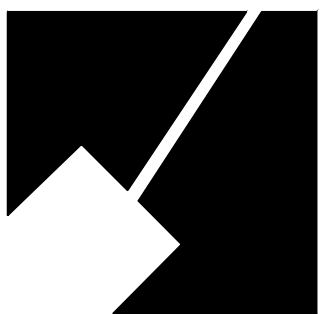
LSG LANDSCAPE ARCHITECTURE

DESIGN		
Designer's Name DAVE NORDEN	Landscape Architect	Date
Address 1775 GREENSBORO STATION PLACE, SUITE 110	Architect	Date
City/State/Zip TYSONS, VIRGINIA, 22102	Engineer	Date
Telephone Number 703-821-2045	Drawn by	Date
	Checked By:	

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.

License No. _____

Expiration Date _____



The Maryland-National Capital
Park and Planning Commission
Montgomery County Department of Parks
9500 Brunett Avenue
Silver Spring, Maryland 20901
(301) 495-2535

REVIEW AND APPROVAL

Project Manager	Date
Construction Manager	Date
Park Manager	Date

ISSUED FOR PROCUREMENT ON _____		
REVISIONS		
Rev. No.	Date	Description

Cover Sheet
Silver Spring Intermediate
Neighborhood Park

SCALE: AS SHOWN

L001

SHT. # 01 OF 18

FINAL SCANNED: PLAN SCANNED: C10 PARK CODE: C10

MONTGOMERY PLANNING DEPARTMENT

THE MARYLAND NATIONAL CAPITAL PARK AND PLANNING COMMISSION

APPROVED - 42019125E

David Wigglesworth (david.wigglesworth@montgomeryplanning.org)

05/17/19

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PLANNING APPROVAL

APPLICANT INFORMATION
The Maryland National Capital Park and Planning Comission, M-NCPPC

PROPERTY INFORMATION
Tax Identification Number: 01058288
Owner: Board of Education
Address: 7801 Chicago Avenue, Tacoma Park, MD 20912
Total Tract Size: 161,208 Sq. Ft./3.7 Acres
Tax Map: JN342
Zoning: R-60
WSSC Grid: 209NW01

SITE DESCRIPTION
7801 Chicago Avenue is located at the intersection of Pennsylvania Avenue (MD 410) and Chicago Avenue which makes up the Eastern most boundary of Tacoma Park, MD. In the 1980's the project site was a school campus with multiple buildings and site features . By early 2000 the project site was fully transitioned from a school property to park land, the buildings were removed leaving large flat lawn areas, an drive was remained leaving a sloped lawn entry located centrally along the Northern edge of the project site.

The project site is bound by residences to the North, East and West and The Pavilion 4 School to the South. Currently, there are two basketball courts, two tennis courts, a small playground, a parking lot,a path network and open lawn areas. The trees on site range in age, size and type. A site investigation as determined by the NRI/FSD shows that no Forest stands exists on site. The most dense clusters of vegetation are located along the South East, South West and North West edges of the site ranging from 10' to 30' in width.

WATERSHED
The site lies within the Silgo Creek Watershed which is use I. Defined by the County Forest Conservation Law in the Guidelines for the Environmental Management of Development in Montgomery County (January, 2000).

STREAMS
No streams were observed draining the project tract. Source of Floodplain Data is the Federal Emergency Mangement Agency (FEMA) Flood Insurance Rate Map 24031C0D.

SPECIAL PROTECTION AND PRIMARY MANAGEMENT AREAS
The project site is not located within a Special Protection Area of the Patuxent River Primary Management Area. Refer to Guidelines for the Environmental Management of Development in Montgomery County (January, 2000) for more information.

FLOODPLAINS
According to the FEMA Flood Insurance Rate Map 24031C0D the project site is in Zone X which has a .2% annual chance of flood hazard. According to MCAtlas.org the project site is not within a 100 year floodplain boundary.

WETLANDS
No wetlands were observed on site. The National Wetlands Inventory (NWI) Map for Montgomery County, Maryland (USFWS, 1981-2002) identifies no waterway and no wetlands within or adjacent to the study area.

RARE, THREATENED OR ENDANGERED SPECIES
Rare, threatened, or endangered species were not observed in the study area. We requested determination from DNR Wildlife and Heritage Service that there are no recorded RTE species on site, refer to the attached letter on sheet L004.

HISTORIC SITES
The study area is not identified on the Locational Atlas and Index of Historic Sites. The 100' offset of the study area intersects with a small portion of 708 Philadelphia Ave., Tacoma Park, MD 20912 and its adjacencies which are classified as a historic district according to MCAtlas.org.

TREES
No National, State or County Champion Trees or trees within 75% of the current State Champion where located on site.

FIELD WORK
Individual trees listed in the Variance Tree Schedule were measured with a diameter tape to the nearest tenth-inch at 4.5 feet above ground (DBH), except for multiple stem trees that split below 4.5 feet above ground, which were measured at the narrowest point between the split and the ground in accordance with American Forests Tree Measuring Guidelines. Site observations were conducted within the study area on September 27, 2017 by Dave Norden of LSG Landscape Architecture (LSG). Trees and other features on private property are inaccessible and were estimated visually from the subject property.

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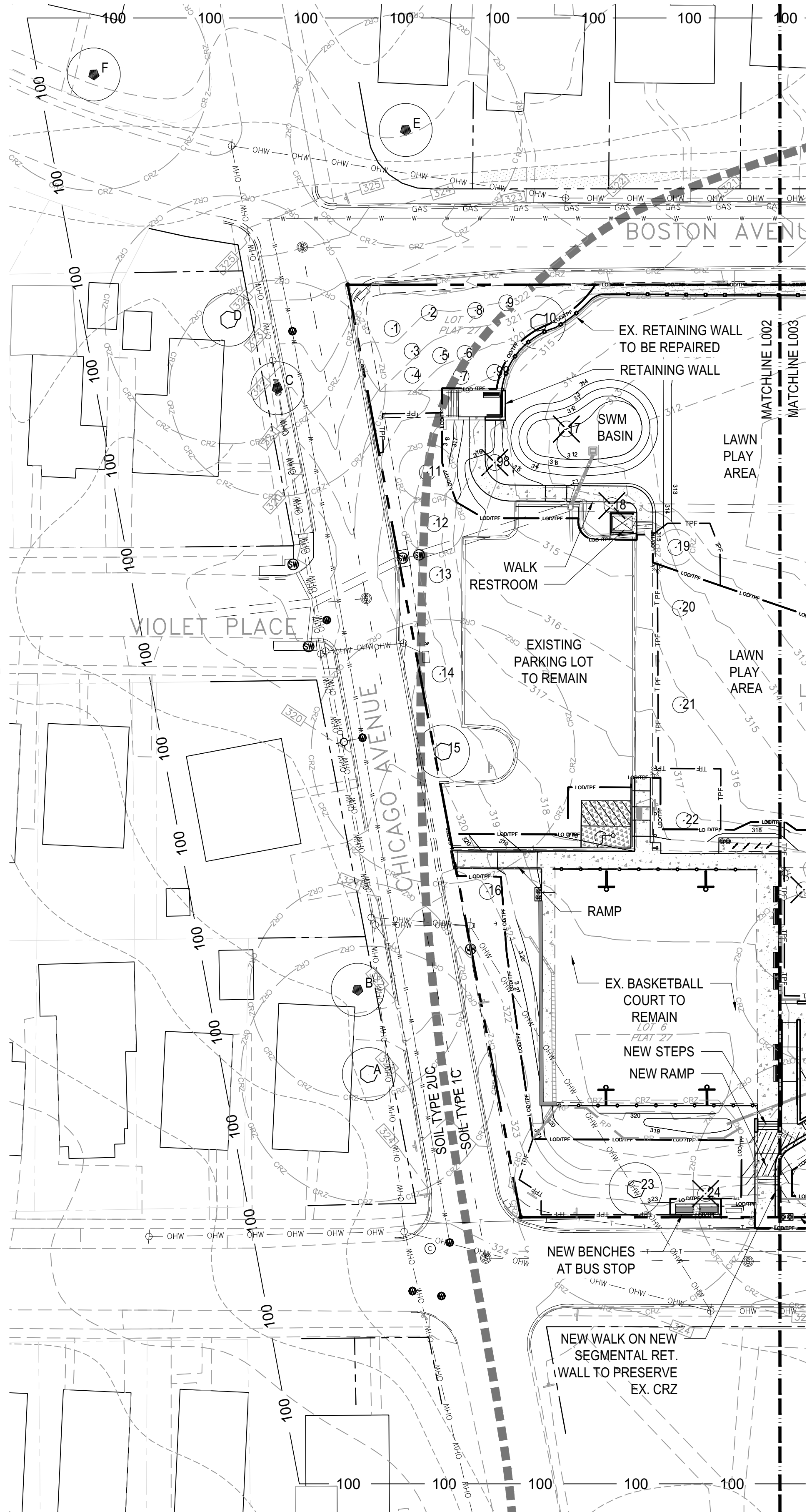
PLAN NOTES

SOIL CHARACTERISTICS AND LIMITATIONS					
MAP SYMBOL	MAP UNIT NAME	PRIME OR UNIQUE FARMLAND	HYDRIC STATUS	HIGHLY ERODIBLE	RESTRICTIONS AND LIMITATIONS
16D	Brinklow-Blocktown channery silt loams, 15-20 percent slopes	NO	NO	YES	Somewhat ltd. due to slope and depth of bedrock.
1C	Galla silt loam, 8 to 15 percent slopes	YES	NO	NO	Somewhat ltd. due to slope and frost action.
2UC	Glenelig-Urban land complex, 8 to 15 percent slopes	NO	YES, criteria 2	NO	

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SOILS TABLE

LSG LANDSCAPE ARCHITECTURE		DESIGN			Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License No. _____ Expiration Date _____
Designer's Name	DAVE NORDEN	Landscape Architect	Date	Checked By:	
Address	1775 GREENSBORO STATION PLACE, SUITE 110	Architect	Date	Checked By:	
City/State/Zip	TYSONS, VIRGINIA, 22102	Engineer	Date	Checked By:	
Telephone Number	703-821-2045	Drawn by	Date	Checked By:	



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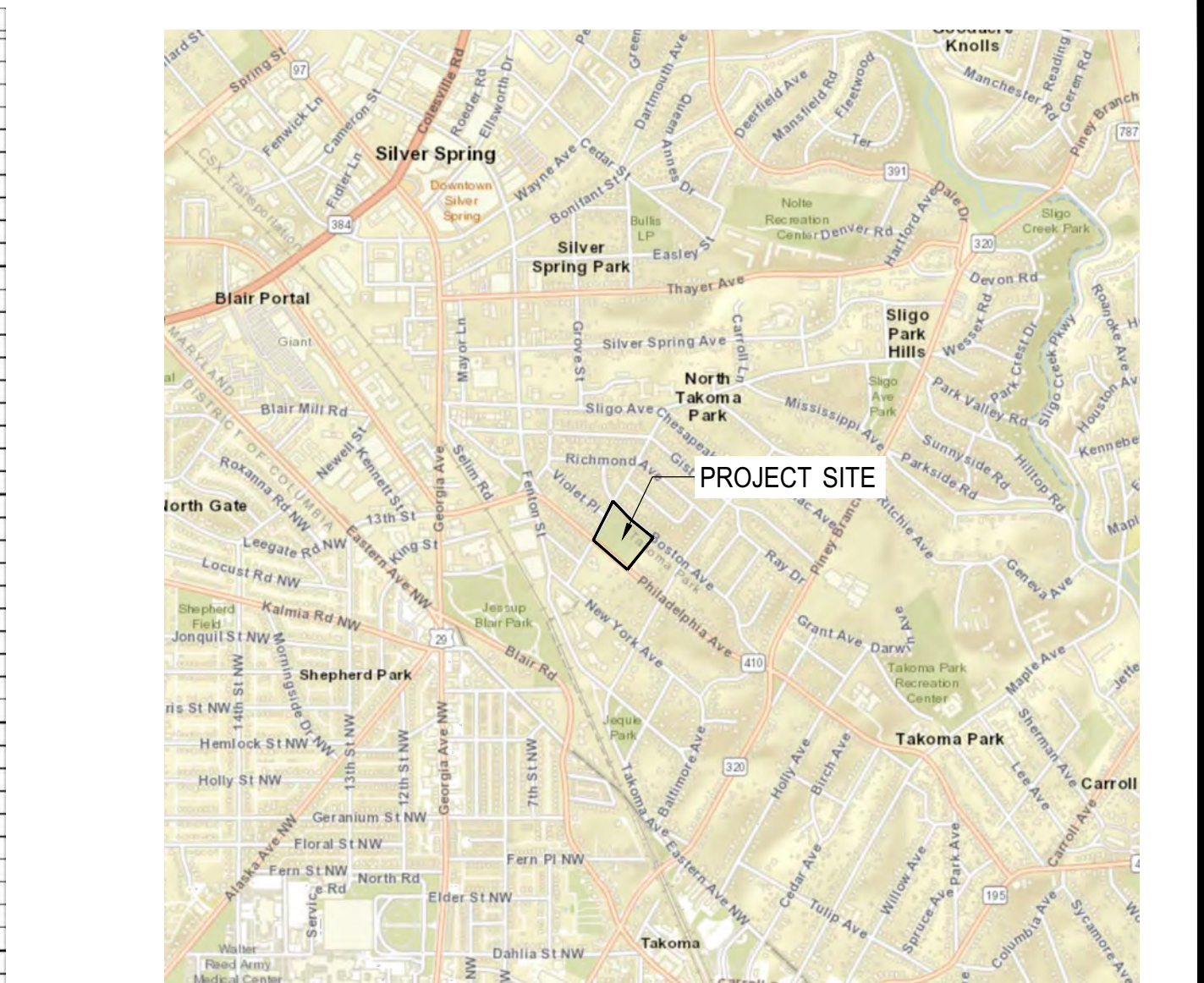
NATURAL RESOURCE INVENTORY PLAN

REMOVED TREE #	BOTANIC NAME	DBH	CONDITION	REMARKS
1	Amelanchier sp.	14.0" (10' ht)	Good	Multi Stem
2	Amelanchier sp.	14.0" (10' ht)	Good	Multi Stem
3	Quercus bicolor	4.1"	Good	14" wound at base
4	Amelanchier sp.	14.0" (9' ht)	Fair	Mostly defoliated
5	Quercus rubra	4.0"	Good	
6	Quercus alba	1.0"	Good	
7	Nyssa sylvatica	1.7"	Good	
8	Unknown	2.8"	Dead	Trunk on ground cut at 8' in length
9	Amelanchier sp.	13.8" (14' ht)	Good	
10	Quercus alba	18.5"	Good	Small cavity 10' high, 5 degree lean towards field, canopy unbalanced to the north
11	Acer rubrum	7.1"	Good	Medium open wound on trunk 6' high
12	Tsuga canadensis	6.8", 7.5"	Poor-Fair	Twin, Medium wound at base, dead branches
13	Juniperus virginiana	17.2"	Good	Branches clear to 5'
14	Juniperus virginiana	15.0", 5.0", 8.0", 8.2"	Multi Stem	
15	Quercus alba	33.0"	Fair	Large branch die back, 10 degree lean toward drive, 15" cavity at base, core drill and assess
16	Acer rubrum	6.4"	Good	
17	Pinus x yadenensis	12.0"	Good	Large surface roots 6' from trunk
18	Ulmus parvifolia	3.0"	Fair-Good	Thinning branches on north side, small wound at base
19	Ulmus parvifolia	4.5"	Good	
20	Acer platanoides	14.2"	Fair	Thin canopy foliage, large surface roots 7' from trunk
21	Acer platanoides	14.1"	Fair-Good	Large wounds on surface roots 5' from trunk
22	Ulmus parvifolia	3.8"	Good	
23	Quercus phellos	30.4"	Good	Large surface roots 10' from trunk, OHW contacting tree branches
24	Quercus phellos	16.1"	Fair-Good	Reduction cut needed, surface roots 10' from trunk
25	Juniperus virginiana	24.7", 13.0"	Good	Twin, mini surface roots 6' from trunk
26	Juniperus virginiana	23.1"	Good	
27	Juniperus virginiana	15.8"	Good	
28	Juniperus virginiana	23.7", 15.4"	Fair	Twin, missing 3rd 15' trunk
29	Juniperus virginiana	20.9"	Good	Surface roots 5' from trunk
30	Juniperus virginiana	16.7"	Good	
31	Juniperus virginiana	12.1"	Good	Lean at base
32	Pinus sp.	13.2"	Fair	Low LCR
33	Quercus alba	26.2"	Good	
34	Quercus alba	14.4"	Good	
35	Quercus alba	8.3"	Good	
36	Quercus alba	11.5"	Good	
37	Quercus alba	18.3"	Good	
38	Quercus palustris	19.2"	Fair	Low LCR, 6 degree lean toward street, 28" x 28" internal cavity on playground side
39	Carya sp.	12.7"	Good	
40	Quercus alba	25.0"	Good	
41	Quercus alba	15.2"	Good	No root flare, leans towards playground
42	Platanus x acerifolia	12.0"	Good	
43	Juglans nigra	11.2"	Poor	Grown into the chain link fence
44	Zelkova serrata	19.8"	Good	Large surface roots 6' from trunk
45	Platanus x acerifolia	17.3"	Good	Mini surface roots 10' from trunk
46	Platanus x acerifolia	19.2"	Good	
47	Platanus x acerifolia	18.3"	Good	
48	Zelkova serrata	19.1"	Good	
49	Acer rubrum	19.6"	Good	High number of surface roots 8' from trunk
50	Acer rubrum	13.4"	Fair	Sounding indicates potential internal decay, wound 3.5' tall on trunk
51	Acer rubrum	18.0"	Good	Dense grafted roots 5' from trunk
52	Acer rubrum	12.3"	Fair	Gurgling roots, lower canopy with thin foliage
53	Pinus subhirtella	7.7"	Fair	Swollen base, large wound on base
54	Cercis canadensis	8.6"	Fair-Good	Lean towards court
55	Cercis canadensis	7.3"	Good	
56	Acer rubrum	17.8"	Good	Wounds on surface roots
57	Quercus alba	21.4"	Poor	Heavy saprophytic fungi on 4 large dead branches
58	Quercus alba	12.4"	Good	
59	Quercus alba	4.1"	Good	
60	Quercus phellos	31.3"	Fair-Good	Multiple cavities
61	Cercis canadensis	3.0"	Good	
62	Quercus alba	8.6"	Good	
63	Quercus alba	21.0"	Good	Large branch tip die back, medium to low lcr
64	Quercus alba	20.0", 21.8"	Good	Twin, surface roots 18' from trunk
65	Quercus rubra	2.8"	Good	
66	Quercus alba	24.2"	Good	
67	Quercus alba	21.2"	Good	Surface roots 10' from trunk
68	Quercus alba	29.5"	Good	
69	Quercus alba	26.7"	Good	Large surface roots 10' from trunk
70	Quercus alba	29.6"	Good	
71	Acer saccharum	9.2"	Good	
72	Populus deltoides	10.1"	Good	
73	Ulmus pumila	11.2"	Good	
74	Robinia	13.4"	Fair	Lean, unbalanced canopy
75	Ulmus pumila	9.0"	Good	
76	Ulmus pumila	1.9"	Fair	Dead branches
77	Ulmus pumila	1.9"	Poor	Twin, Dead canopy
78	Robinia pseudacacia	14.0"	Fair	Low LCR
79	Quercus palustris	23.3"	Fair	Significant lean, large hollow at base
80	Ulmus pumila	12.3", 10.8"	Fair	Twin, leaning, dead branches
81	Ulmus pumila	10.3"	Poor	Dead branches, sparse foliage
82	Ulmus pumila	11.0"	Poor	Leaning, sparse foliage
83	Ulmus pumila	10.8"	Fair	Poor form, sparse foliage
84	Ulmus pumila	9.3"	Poor	Sparse foliage
85	Unknown	11.2"	Dead	
86	Robinia pseudacacia	110.4"	Dead	Canchis
87	Robinia pseudacacia	18.7"	Poor	Leaning, sparse foliage
88	Unknown	1.9"	Dead	
89	Ulmus pumila	11.5"	Poor	Leaning, sparse foliage
90	Ulmus pumila	23.3"	Good	
91	Ulmus pumila	11.2"	Very Poor	Vines on trunk, almost no foliage
92	Ulmus pumila	1.9"	Fair	Vines on trunk, almost no foliage
93	Ulmus pumila	11.0"	Fair	Vines on trunk, almost no foliage
94	Robinia pseudacacia	11.8"	Poor	Multiple large canchs on trunk
95	Zelkova serrata	5.1"	Good	
96	Acer rubrum	3.5"	Good	
97	Acer rubrum	16.4"	Dead	
98	Quercus rubra	7.2"	Good	
99	Quercus rubra	5.3"	Good	
100	Quercus alba	16.5"	Fair-Good	Minimal flare visible, sparse foliage
101	Quercus rubra	3.9"	Good	Reduction cut needed
102	Quercus rubra	3.2"	Good	
103	Platanus x acerifolia	14.7"	Good	On a mound, large surface roots 8' from trunk
104	Acer negundo	11.3", 7"	Poor-Fair	
105	Juglans nigra	8.5"	Poor	
106	Quercus rubra	2.9"	Good	
A	Quercus alba	13.2"		
B	Quercus palustris	12.7"		
C	Catalpa speciosa	12.7"		
D	Quercus alba	13.1"		
E	Quercus alba	12.9"		
F	Quercus rubra	12.9"		
G	Quercus alba	13.0"		
H	Acer rubrum	14.0"		
I	Quercus palustris	12.7"		
J	Quercus alba	13.1"		
K	Quercus alba	13.4"		
L	Quercus alba	13.8"		
M	Quercus alba	13.1"		
N	Quercus sp.	12.9"		
O	Quercus alba	12.7"		
P	Quercus alba	12.9"		
Q	Liriodendron tulipifera	12.3"		
R	Quercus alba	11.2"		
S	Quercus alba	11.3"		
T	Quercus phellos	11.3"		
U	Quercus alba	13.5"		
V	Robinia pseudacacia	11.4"		
W	Robinia pseudacacia	11.4"		
X	Catalpa speciosa	11.5"		
Y	Quercus palustris	12.5"		
Z	Quercus sp.	13.0"		

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EXISTING TREE SCHEDULE

REVIEW AND APPROVAL		ISSUED FOR PROCUREMENT ON _____	
		REVISIONS	
Rev. No.	Date	1	12/20/18 Design Development
2	02/11/18 Simplified NRI and FC Exemption		
3	05/08/19 Rev. Simplified NRI and FC Exemption		
Project Manager	Date		
Construction Manager	Date		
Park Manager	Date		



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VICINITY MAP

SCALE: 1" = 200'

SITE EVALUATION DETERMINED NO FOREST STAND EXISTS WITHIN THE STUDY AREA BASED ON SITE OBSERVATIONS PERFORMED OCTOBER, 2018.

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FOREST STAND TABLE

11	LIMIT OF DISTURBANCE	ROOT MATTING
11	EXISTING MINOR TREE (UP TO 24") & TREE NUMBER	TEMPORARY CONSTRUCTION MATTING
11	EXISTING SPECIMEN TREE (30" OR GREATER) & TREE NUMBER	PROPOSED CONCRETE PAVING
11	EXISTING SIGNIFICANT TREE (24" OR GREATER) & TREE NUMBER	PROPOSED FLEXIBLE POROUS PAVING
11	TREE TO BE REMOVED	PROPOSED BOARDWALK W/ HELICAL PIERS
CRZ	CRITICAL ROOT ZONE	SLOPES GREATER THAN 25%
100	100' STUDY AREA	SLOPES BETWEEN 15 - 25% ON HIGHLY ERODIBLE SOILS
SOIL TYPE BOUNDARY		
TPF	TREE PROTECTION FENCE	
RP	ROOT PRUNING	
EXISTING FENCE		
PROPOSED CHAIN LINK FENCE		
PROPOSED ORNAMENTAL FENCE		

2

LEGEND

THIS PLAN WAS PREPARED BY DAVE NORDEN, MARYLAND REGISTERED LANDSCAPE ARCHITECT 3694 AND IS A CERTIFIED ARBORIST MA5513A.

ADDRESS: LSG LANDSCAPE ARCHITECTURE
1775 GREENSBORO STATION PL., STE. 110
TYSONS, VIRGINIA 22182
703-821-2045
EMAIL:DNORDEN@LSGINC.COM

3

QUALIFIED PROFESSIONAL CERTIFICATION

RESOURCE DATA TABLE	
Resources Within Tract	ACRES
Acres of Forest	0
Acres of Wetlands	0
Acres of Forest in Wetlands	0
Acres of Floodplain	0
Acres of Forest in Floodplain	0
Acres of Stream Buffers	0
Acres of Forest in Stream Buffers	0

4

RESOURCE DATA TABLE

SILVER SPRING INTERMEDIATE NEIGHBORHOOD PARK

Simplified NRI & FC Exemption

SCALE: AS SHOWN

DWG. #

L002

SHT. # 01 OF 03

PLAN NUMBER: 42019125E

TAX MAP: JN342

WSSC GRID: 209NW01

FINAL SCANNED: PLAN SCANNED: C10 PARK CODE: C10 Plotted By: Dave Norden, 5/10/2019 5:15 PM



MONTGOMERY PLANNING DEPARTMENT

THE MARYLAND-NATIONAL CAPITAL PARK AND PLANNING COMMISSION

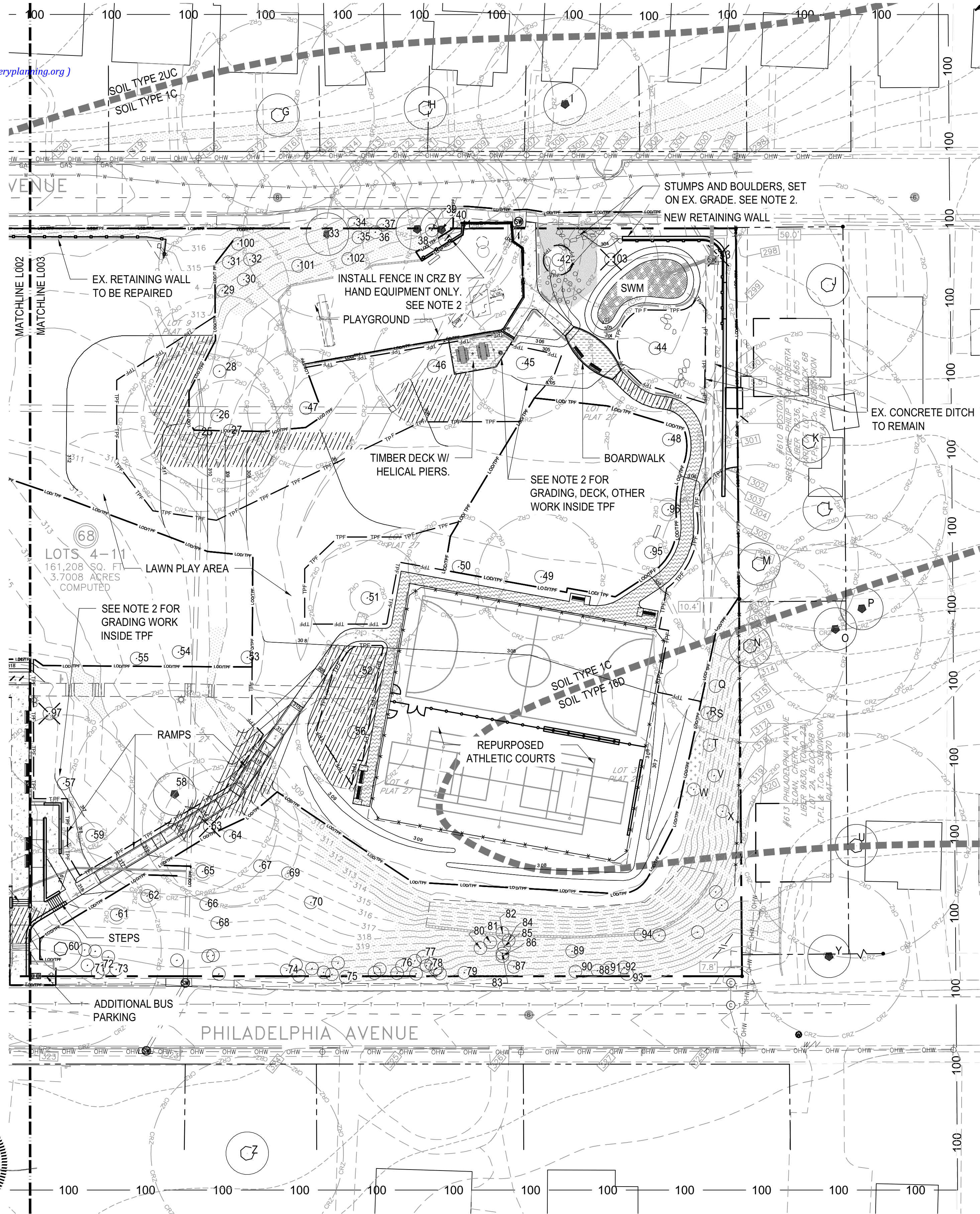
APPROVED - 42019125E

David Wigglesworth (david.wigglesworth@montgomeryplanning.org)

05/17/19

4

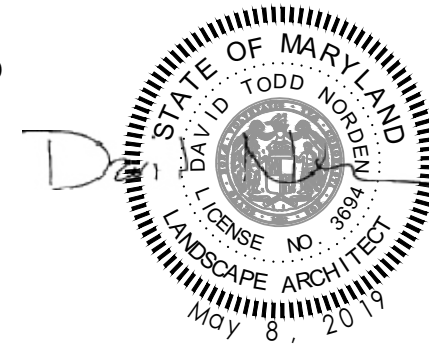
PLANNING APPROVAL



THIS PLAN WAS PREPARED BY DAVE NORDEN, MARYLAND REGISTERED LANDSCAPE ARCHITECT 3694 AND IS A CERTIFIED ARBORIST MA5513A.

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1775 GREENSBORO STATION PL., STE. 110
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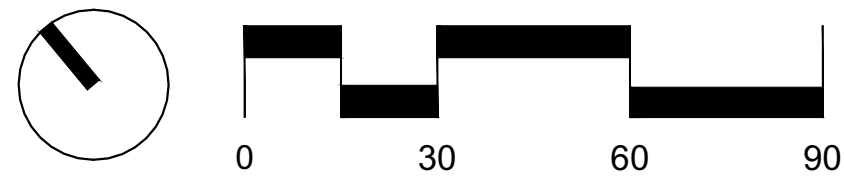
PHONE: 703-821-2045
EMAIL: DNORDEN@LSGINC.COM



QUALIFIED PROFESSIONAL CERTIFICATION

3

NATURAL RESOURCE INVENTORY PLAN



2

EXISTING TREE SCHEDULE

REMOVED	TREE #	BOTANIC NAME	DBH	CONDITION	REMARKS
	1	Amelanchier sp.	24.0" (10' ht)	Good	Multi Stem
	2	Amelanchier sp.	14.0" (10' ht)	Good	Multi Stem
	3	Quercus bicolor	4.1"	Good	14" wound at base
	4	Amelanchier sp.	14.0" (9' ht)	Fair	Mostly defoliated
	5	Quercus rubra	4.0"	Good	
	6	Quercus alba	1.0"	Good	
	7	Nyssa sylvatica	1.7"	Good	
	8	unknown	12.8"	Dead	Trunk on ground cut at 8' in length
	9	Amelanchier sp.	13.8" (14' ht)	Good	
	10	Quercus alba	36.5"	Good	Small cavity 10' high, 5 degree lean towards field, canopy unbalanced to the north
	11	Acer rubrum	7.1"	Good	Medium open wound on trunk 6' high
	12	Tsuga canadensis	6.8", 7.5"	Poor-Fair	Twin, Medium wound at base, dead branches
	13	Juniperus virginiana	17.2"	Good	Branches clear to 5'
	14	Juniperus virginiana	15.0", 5.0", 8.0" & 2"	Multi Stem	
	15	Quercus alba	33.0"	Fair	Large branch die back, 10 degree lean toward drive, 15" cavity at base, core drill and assess
	16	Acer rubrum	6.4"	Good	
X	17	Prunus x yedoensis	12.0"	Good	Large surface roots 6' from trunk
X	18	Ulmus parvifolia	9.7"	Fair-Good	Thinning branches on north side, small wound at base
	19	Ulmus parvifolia	4.5"	Good	
	20	Acer platanoides	14.2"	Fair	Thin canopy foliage, large surface roots 7' from trunk
	21	Acer platanoides	14.1"	Fair-Good	Large wounds on surface roots 5' from trunk
	22	Ulmus parvifolia	9.3"	Good	
	23	Quercus phellos	30.4"	Good	Large surface roots 10' from trunk, OHW contacting tree branches
X	24	Quercus phellos	16.1"	Fair-Good	Reduction cut needed, surface roots 10' from trunk
	25	Juniperus virginiana	24.7", 13.0"	Good	Twin, mini surface roots 6' from trunk
	26	Juniperus virginiana	23.1"	Good	
	27	Juniperus virginiana	15.8"	Good	
	28	Juniperus virginiana	23.7", 15.4"	Fair	Twin, missing 3rd 15' trunk
	29	Juniperus virginiana	20.9"	Good	Surface roots 5' from trunk
	30	Juniperus virginiana	16.7"	Good	
	31	Juniperus virginiana	12.1"	Good	Lean at base
	32	Pinus sp.	13.2"	Fair	low LCR
	33	Quercus alba	26.2"	Good	
	34	Quercus alba	14.4"	Good	
	35	Quercus alba	8.3"	Good	
	36	Quercus alba	11.5"	Good	
	37	Quercus alba	18.3"	Good	
	38	Quercus palustris	28.3"	Fair	low LCR, 6 degree lean toward street, 28" x 28" internal cavity on playground side
	39	Carya sp.	12.7"	Good	
	40	Quercus alba	25.0"	Good	
	41	Quercus alba	15.2"	Good	No root flare, leans towards playground
	42	Platanus x acerifolia	12.0"	Good	
X	43	Juglans nigra	11.2"	Poor	Grown into the chain link fence
	44	Zelkova serrata	19.8"	Good	Large surface roots 6' from trunk
	45	Platanus x acerifolia	17.3"	Good	Mini surface roots 10' from trunk
	46	Platanus x acerifolia	19.2"	Good	
	47	Platanus x acerifolia	18.3"	Good	
	48	Zelkova serrata	19.1"	Good	
	49	Acer rubrum	19.6"	Good	High number of surface roots 8' from trunk
	50	Acer rubrum	15.7"	Fair	Sounding indicates potential internal decay, wound 3.5' tall on trunk
	51	Acer rubrum	18.0"	Good	Dense grafted roots 5' from trunk
	52	Acer rubrum	12.3"	Fair	Gurgling roots, lower canopy with thin foliage
	53	Prunus subhirtella	7.7"	Fair	Swollen base, large wound on base
	54	Cercis canadensis	6.8"	Fair-Good	Lean towards court
	55	Cercis canadensis	7.3"	Good	
	56	Acer rubrum	17.8"	Good	Wounds on surface roots
	57	Quercus alba	21.4"	Poor	Heavy saprophytic fungi on 4 large dead branches
	58	Quercus alba	13.3"	Good	
	59	Quercus alba	4.1"	Good	
	60	Quercus phellos	31.3"	Fair-Good	Multiple cavities
	61	Cercis canadensis	3.0"	Good	
	62	Quercus alba	3.0"	Good	
X	63	Quercus alba	21.0"	Good	Large branch tip die back, medium to low lcr
	64	Quercus alba	20.0", 21.8"	Good	Twin, surface roots 18' from trunk
	65	Quercus rubra	2.8"	Good	
	66	Quercus alba	24.2"	Good	
	67	Quercus alba	21.2"	Good	Surface roots 10' from trunk
	68	Quercus alba	29.5"	Good	
	69	Quercus alba	26.7"	Good	Large surface roots 10' from trunk
	70	Quercus alba	29.6"	Good	
	71	Acer saccharum	9.3"	Good	
	72	Populus deltoides	10.1"	Good	
	73	Ulmus pumila	11.2"	Good	
	74	Robinia	13.4"	Fair	Lean, unbalanced canopy
	75	Ulmus pumila	9.0"	Good	
	76	Ulmus pumila	19"	Fair	Dead branches
	77	Ulmus pumila	19"	Poor	Twin, dead canopy
	78	Robinia pseudacacia	14.0"	Fair	Low LCR
	79	Quercus palustris	23.3"	Fair	Significant lean, large hollow at base
	80	Ulmus pumila	12.3", 10.8"	Fair	Twin, leaning, dead branches
	81	Ulmus pumila	10.3"	Poor	Dead branches, sparse foliage
	82	Ulmus pumila	11.0"	Poor	Leaning, sparse foliage
	83	Ulmus pumila	10.8"	Fair	Poor form, sparse foliage
	84	Ulmus pumila	9.3"	Poor	Sparse foliage
	85	unknown	11.2"	Dead	
	86	Robinia pseudacacia	110.4"	Dead	Conchs
	87	Robinia pseudacacia	16.7"	Poor	Leaning, sparse foliage
	88	unknown	19"	Dead	
	89	Ulmus pumila	11.5"	Poor	Leaning, sparse foliage
	90	Ulmus pumila	23.3"	Good	
	91	Ulmus pumila	11.2"	Very Poor	Vines on trunk, almost no foliage
	92	Ulmus pumila	19"	Fair	Vines on trunk, almost no foliage
	93	Ulmus pumila	11.0"	Fair	Vines on trunk, almost no foliage
	94	Robinia pseudacacia	11.8"	Poor	Multiple large canchs on trunk
	95	Zelkova serrata	5.1"	Good	
	96	Acer rubrum	3.5"	Good	
X	97	Acer rubrum	16.4"	Dead	
X	98	Quercus rubra	7.2"	Good	
	99	Quercus rubra	5.3"	Good	
	100	Quercus alba	16.5"	Fair-Good	Minimal flare visible, sparse foliage
	101	Quercus rubra	3.9"	Good	Reduction cut needed
	102	Quercus rubra	3.2"	Good	
X	103	Platanus x acerifolia	14.7"	Good	On a mound, large surface roots 8' from trunk
	104	Acer negundo	11.3", 17"	Poor-Fair	
	105	Juglans nigra	8.5"	Poor	
	106	Quercus rubra	2.9"	Good	
	A	Quercus alba	13.2"		
	B	Quercus palustris	12.7"		
	C	Catalpa speciosa	12.7"		
	D	Quercus alba	13.1"		
	E	Quercus alba	12.9"		
	F	Quercus rubra	12.9"		
	G	Quercus alba	13.0"		
	H	Acer rubrum	14.0"		
	I	Quercus palustris	12.7"		
	J	Quercus alba	13.1"		
	K	Quercus alba	13.4"		
	L	Quercus alba	13.8"		
	M	Quercus alba	13.1"		
	N	Quercus sp.	13.0"		
	O	Quercus alba	12.7"		
	P	Quercus alba	12.9"		
	Q	Ulmus pumila	12.3"		
	R	Quercus alba	11.2"		
	S	Quercus alba	11.3"		
	T	Quercus phellos	11.3"		
	U	Quercus alba	13.5"		
	V	Robinia pseudacacia	11.4"		
	W	Robinia pseudacacia	11.4"		
	X	Catalpa speciosa	11.5"		
	Y	Quercus palustris	12.5"		
	Z	Quercus sp.	13.0"		

1. PRIOR TO DEMOLITION, PLACE TREE PROTECTION AND SILT FENCE AT THE LIMITS OF CLEARING AND GRADING AND OTHERWISE AS SHOWN ON PLAN.
2. PERFORM ALL GRADING AND OTHER WORK SHOWN INSIDE OF TREE CRITICAL ROOT ZONE (CRZ) AND TREE PROTECTION FENCE (TPF) USING HAND EQUIPMENT ONLY..
3. SEE ADDITIONAL SPECIFICATIONS ON SHEET L004.

5

SPECIFICATION NOTES

- LIMIT OF DISTURBANCE
- 11

EXISTING MINOR TREE (UP TO 24") & TREE NUMBER
- 11

EXISTING SPECIMEN TREE (30" OR GREATER) & TREE NUMBER
- 11

EXISTING SIGNIFICANT TREE (24" OR GREATER) & TREE NUMBER
- X

TREE TO BE REMOVED
- CRITICAL ROOT ZONE
- 100' STUDY AREA
- SOIL TYPE BOUNDARY
- TREE PROTECTION FENCE
- ROOT PRUNING
- EXISTING FENCE
- PROPOSED CHAIN LINK FENCE
- PROPOSED ORNAMENTAL FENCE
- ROOT MATTING
- TEMPORARY CONSTRUCTION MATTING
- PROPOSED CONCRETE PAVING
- PROPOSED FLEXIBLE POROUS PAVING
- PROPOSED BOARDWALK W/ HELICAL PIERS
- SLOPES GREATER THAN 25%
- SLOPES BETWEEN 15 - 25% ON HIGHLY ERODIBLE SOILS

LSG LANDSCAPE ARCHITECTURE

Designer's Name
DAVE NORDEN

Address
1775 GREENSBORO STATION PLACE, SUITE 110

City/State/Zip
TYSONS, VIRGINIA, 22102

Telephone Number
703-821-2045

DESIGN

Landscape Architect	Date	Checked By:
Architect	Date	Checked By:
Engineer	Date	Checked By:
Drawn by	Date	Checked By:

Professional Certification.

I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.

License No.

Expiration Date

The Maryland-National Capital Park and Planning Commission

Montgomery County Department of Parks

9500 Brunnet Avenue

Silver Spring, Maryland 20901

(301) 495-2535

REVIEW AND APPROVAL

Project Manager	Date
Construction Manager	Date
Park Manager	Date

ISSUED FOR PROCUREMENT ON

Rev. No.	Date	Description
1	12/20/18	Design Development
2	02/11/18	Simplified NRI and FC Exemption
3	05/08/19	Rev. Simplified NRI and FC Exemption

SILVER SPRING INTERMEDIATE NEIGHBORHOOD PARK

Simplified NRI & FC Exemption

SCALE: AS SHOWN

DWG. #

L003

SHT. # 02 OF 03

PLAN NUMBER: 42019125E

TAX MAP: JN342

WSSC GRID: 209NW01

MONTGOMERY PLANNING DEPARTMENT

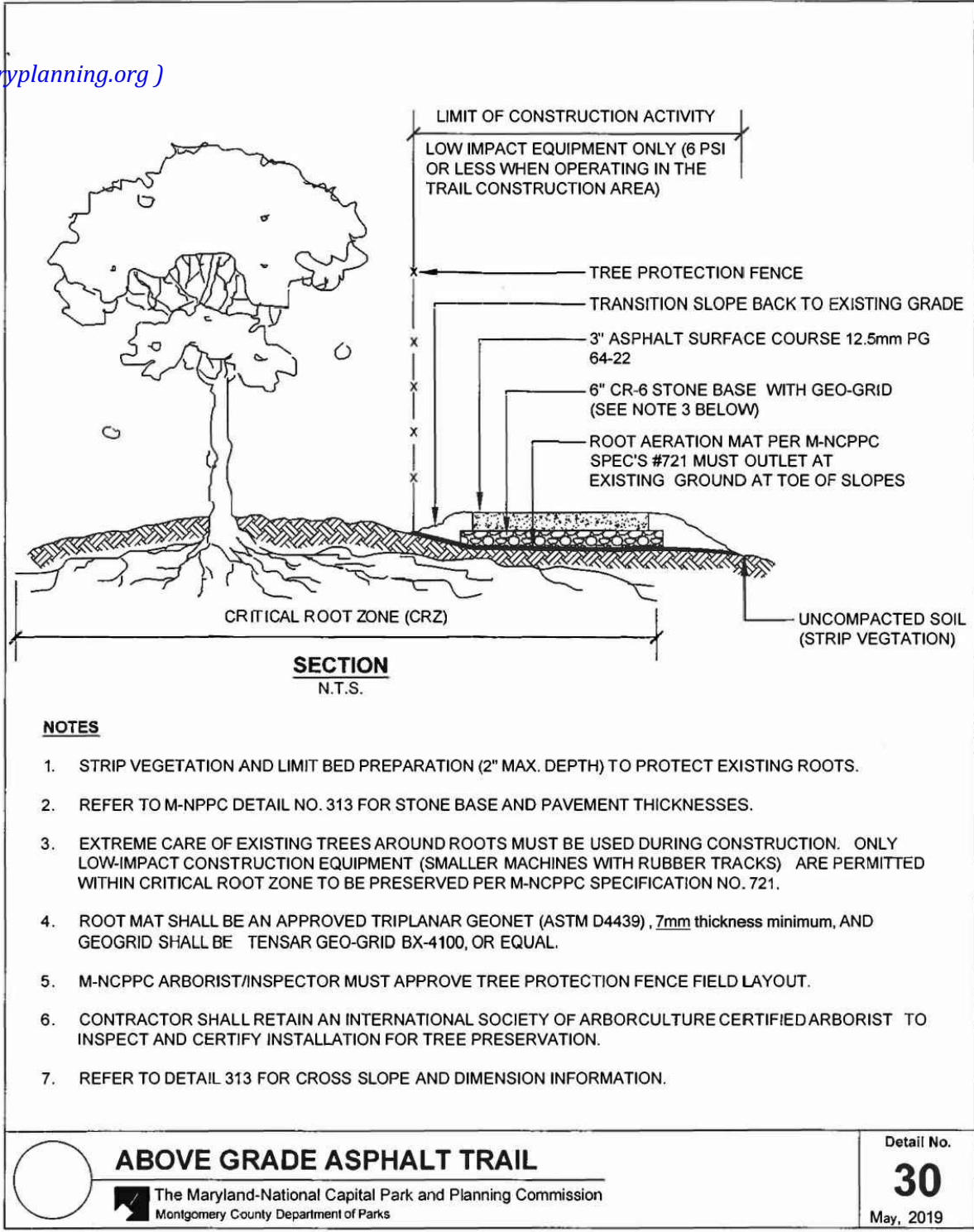
THE MARYLAND-NATIONAL CAPITAL PARK AND PLANNING COMMISSION

APPROVED - 42019125E

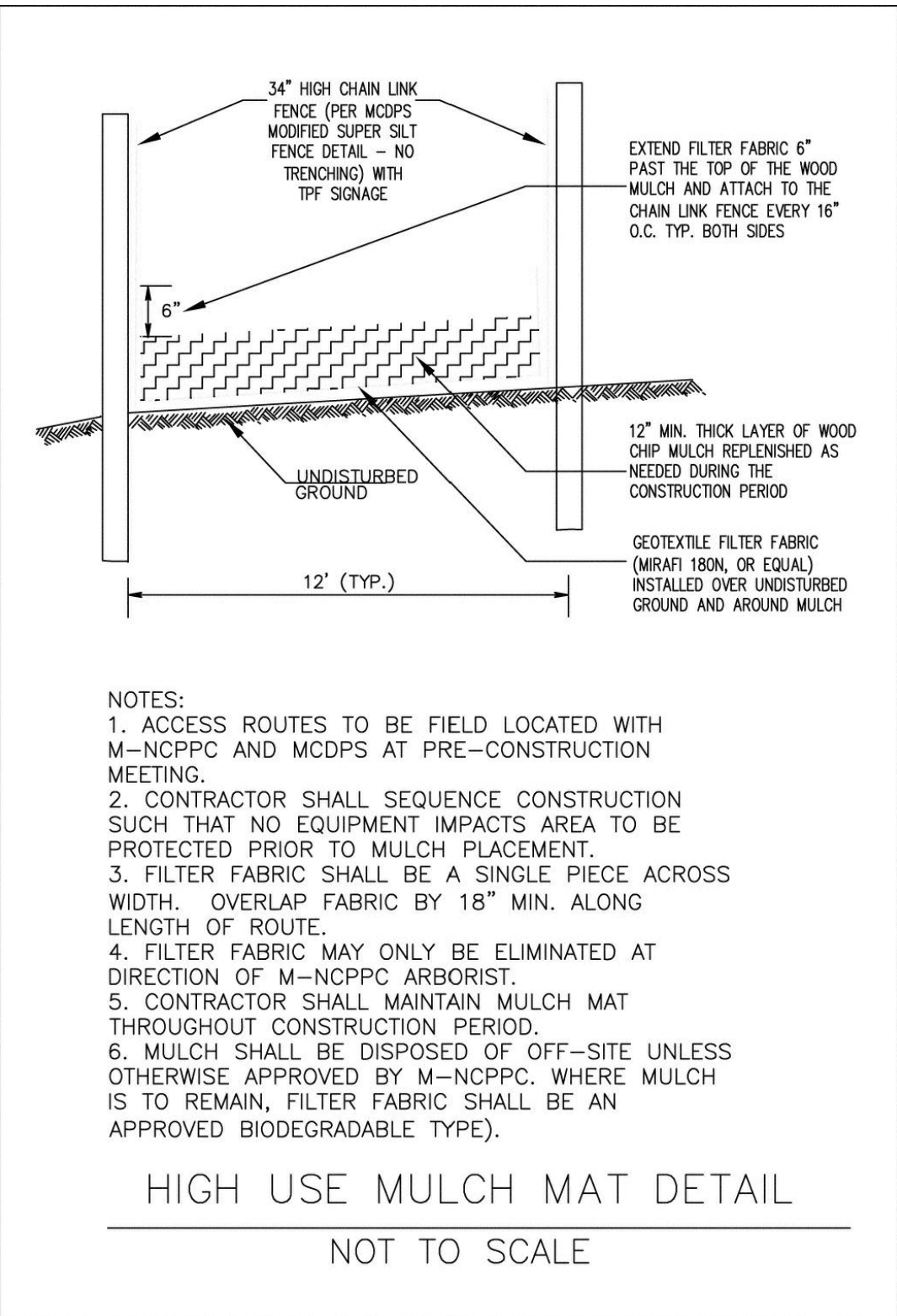
David Wigglesworth (david.wigglesworth@montgomeryplanning.org)

05/17/19

8 PLANNING APPROVAL



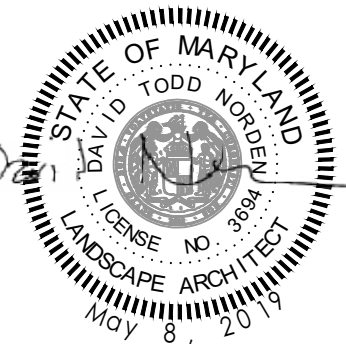
6 PAVING INSIDE CRITICAL ROOT ZONE



THIS PLAN WAS PREPARED BY DAVE NORDEN, MARYLAND REGISTERED LANDSCAPE ARCHITECT 3694 AND IS A CERTIFIED ARBORIST MA5513A.

ADDRESS: LSG LANDSCAPE ARCHITECTURE
1775 GREENSBORO STATION PL., STE. 110
TYSONS, VIRGINIA 22182

PHONE: 703-821-2045
EMAIL: DNORDEN@LSGINC.COM



QUALIFIED PROFESSIONAL CERTIFICATION

7 TEMPORARY CONSTRUCTION MATTING

NOTES

- Practice may be combined with sediment control fencing.
- Location and limits of fencing should be coordinated in field with arborist.
- Boundaries of protection area should be staked prior to installing protective device.
- Root damage should be avoided.
- Protection signage is required.
- Fencing shall be maintained throughout construction.

4 TREE PROTECTION FENCE DETAIL



December 5, 2018:

Mr. Dave Norden
LSG Landscape Architecture
#110
1775 Greensboro Station Place
McLean, VA 22102

RE: Environmental Review for Silver Spring Intermediate Park, Site Upgrades, 7801 Chicago Avenue, Silver Spring, Montgomery County, Maryland.

Dear Mr. Norden:

The Wildlife and Heritage Service has determined that there are no official State or Federal records for listed plant or animal species within the delineated area shown on the map provided. As a result, we have no specific concerns regarding potential impacts or recommendations for protection measures at this time. Please let us know however if the limits of proposed disturbance or overall site boundaries change and we will provide you with an updated evaluation.

Thank you for allowing us the opportunity to review this project. If you should have any further questions regarding this information, please contact me at (410) 260-8573.

Sincerely,

Lori A. Byrne
Environmental Review Coordinator
Wildlife and Heritage Service
MD Dept. of Natural Resources

ER# 2018.1707.mo

Tawes State Office Building -- 580 Taylor Avenue -- Annapolis, Maryland 21401
410-260-8DNR or toll free in Maryland 877-620-8DNR -- dnr.maryland.gov -- TTY Users Call via the Maryland Relay

5 DNR RESPONSE LETTER

The Maryland-National Capital Park and Planning Commission

Montgomery County Department of Parks
9500 Brunett Avenue
Silver Spring, Maryland 20901
(301) 495-2535

REMOVAL OF EXISTING PAVEMENT WITHIN A TREE'S CRITICAL ROOT ZONE

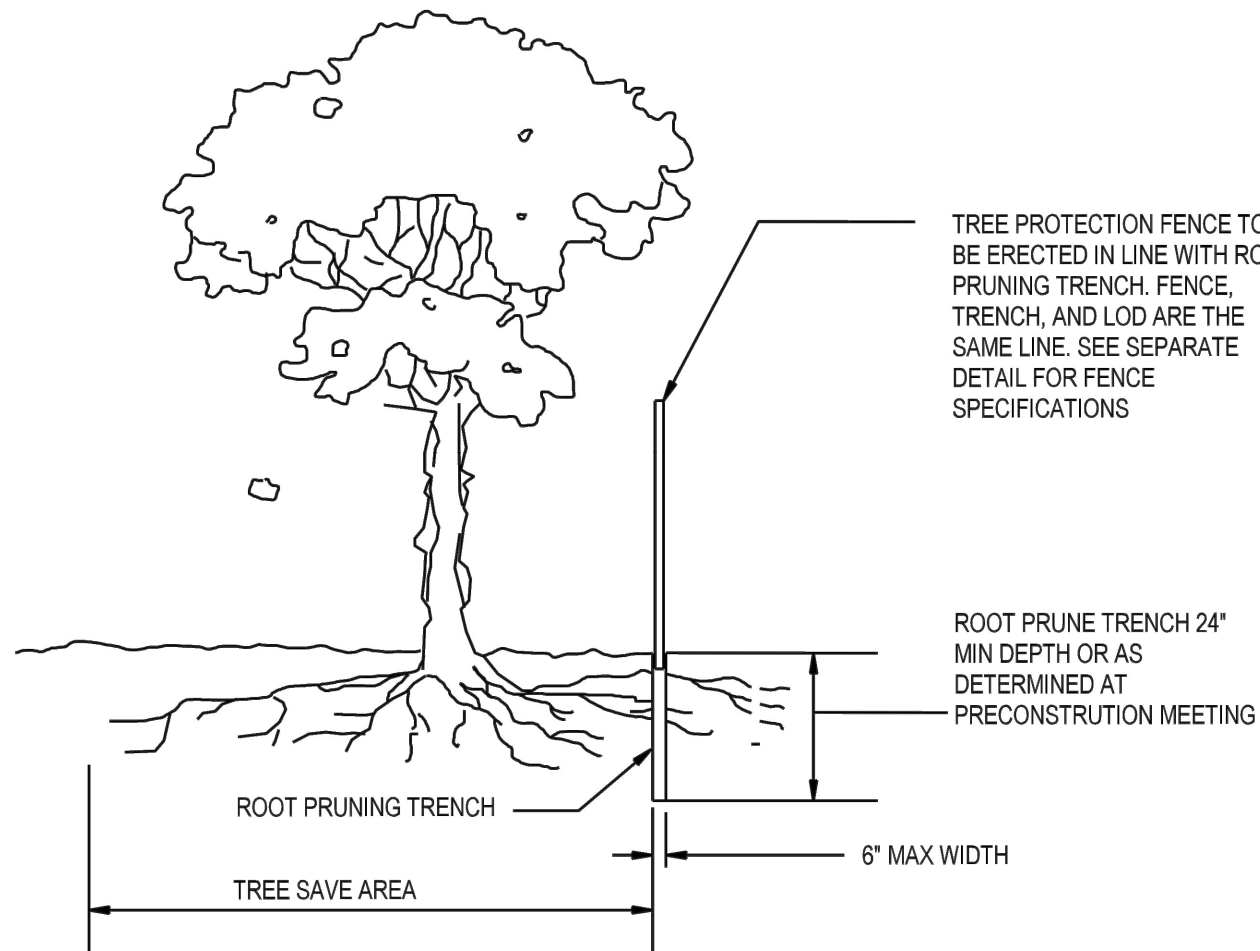
- THE CONTRACTOR SHALL MEET WITH THE M-NCPPC URBAN FORESTER AND CONSTRUCTION INSPECTOR PRIOR TO REMOVAL OF THE PAVEMENT TO DISCUSS METHODS TO BE USED TO REMOVE PAVEMENT. REMOVAL OF PAVEMENT MAY BE REQUIRED TO BE DONE BY HAND DEPENDING ON SITE CONDITIONS.
- THE EXISTING TOP LAYER OF PAVEMENT SHALL BE PEELED AWAY WITHOUT DISTURBING THE GROUND OR MATERIAL BENEATH. IF A BASE COURSE OF ROCK IS BENEATH THE PAVEMENT THE ROCK SHALL BE LEFT IN PLACE.
- DURING THE REMOVAL OF THE PAVEMENT GREAT CARE SHALL BE TAKEN TO NOT DISTURB EXISTING TREE ROOTS ALONG OR UNDER EXISTING PAVEMENT. EXISTING TREE ROOTS GREATER THAN 1.5" IN DIAMETER ENCOUNTERED DURING THE REMOVAL PROCESS SHALL NOT BE CUT UNLESS APPROVED BY THE M-NCPPC URBAN FORESTER.
- EQUIPMENT SHOULD REMAIN ON EXISTING PAVEMENT DURING THE REMOVAL PROCESS. EQUIPMENT SHALL NOT TRAVERSE OVER AREAS WHERE PAVEMENT WAS REMOVED IN ORDER TO PROTECT EXPOSED TREE ROOTS.
- GROUND PROTECTION SUCH AS A 12" MULCH LAYER WILL BE REQUIRED IF EQUIPMENT IS NEEDED TO BE OPERATED WITHIN THE CRITICAL ROOT ZONE.
- REMOVAL OF THE EXISTING PAVEMENT SHALL BE DONE UNDER SUPERVISION OF THE M-NCPPC URBAN FORESTER AND THE CONSTRUCTION INSPECTOR.
- STABILIZE AREA PER APPROVED PLAN OR AS DIRECTED BY CONSTRUCTION INSPECTOR.

2 PAVEMENT REMOVAL IN CRZ SEQUENCE OF EVENTS

WHERE ROOT AERATION MATTING IS SPECIFIED, THE FOLLOWING SEQUENCE OF CONSTRUCTION FOR INSTALLATION SHALL BE USED TO AVOID DAMAGING THE ROOTS:

- THE PURPOSE OF THE ROOT AERATION MATTING IS TO REDUCE COMPACTION AND RUTTING OF EXISTING SOIL AND ROOT SYSTEMS DUE TO PROPOSED FILL ACTIVITIES. USE ONLY EQUIPMENT WITH 6 PSI OR LESS OF GROUND PRESSURE WHEN OPERATING WITHIN THE CONSTRUCTION AREA DESIGNATED FOR MATTING. EQUIPMENT SHALL NOT ACCESS WITHIN THE LOD UNTIL ROOT AERATION MATTING AND ASSOCIATED FILL (MULCH, ROCK, SOIL) IS PLACED ON THE GROUND. SEE GRADING PLANS FOR AREAS WHERE MATTING IS TO BE USED. INSTALL MATTING OVER NON-COMPACTED SOILS.
- ROLL OUT MATTING TO 2-3 FEET BEYOND THE EXTENT OF FILL. INSTALL GRANULAR BACKFILL AS REQUIRED BRINGING THE AREA UP TO GRADE OF THE PAVING SUBBASE.
- AFTER PAVING, BACKFILL ALONG THE WALKWAYS WITH APPROVED FILL AND TOPSOIL TO MEET PROPOSED GRADES. TRIM ANY EXCESS MATTING THAT EXTENDS BEYOND THE FINISH GRADES OR REMOVE THE ADJACENT SOD LAYER AND BURY THE ENDS OF THE MATTING BENEATH THE SOD.
- HAND RAKED AS REQUIRED FULLY CONCEALING THE MATTING, AND MAINTAINING A SMOOTH TRANSITIONAL GRADE BETWEEN EXISTING AND NEW GRADES.
- RESEED OR RESOD OR MULCH AS DIRECTED.

3 ROOT PRUNING SEQUENCE OF EVENTS



- NOTES:
- RETENTION AREAS WILL BE SET AS PART OF THE REVIEW PROCESS AND PRECONSTRUCTION MEETING.
 - BOUNDARIES OF RETENTION AREAS MUST BE STAKED AT THE PRECONSTRUCTION MEETING AND FLAGGED PRIOR TO TRENCHING.
 - EXACT LOCATION OF TRENCH SHALL BE DETERMINED IN THE FIELD IN COORDINATION WITH THE FOREST CONSERVATION (FC) INSPECTOR .
 - TRENCH SHOULD BE IMMEDIATELY BACKFILLED WITH EXCAVATED SOIL OR OTHER ORGANIC SOIL AS SPECIFIED PER PLAN OR BY THE FC INSPECTOR.
 - ROOTS SHALL BE CLEANLY CUT USING VIBRATORY KNIFE OR OTHER ACCEPTABLE EQUIPMENT.
 - ALL PRUNING MUST BE EXECUTED WITH LOD SHOWN ON PLANS OR AS AUTHORIZED IN WRITING BY THE FC INSPECTOR.

3A ROOT PRUNING DETAIL

Sequence of Events for Properties Required to Comply With Forest Conservation Plans, Exemptions From Submitting Forest Conservation Plans, and Tree Save Plans

The property owner is responsible for ensuring all tree protection measures are performed in accordance with the approved final forest conservation plan or tree save plan, and as modified in the field by a Planning Department Forest Conservation Inspector. The measures must meet or exceed the most recent standards published by the American National Standards Institute (ANSI A300).

Pre-Construction

- An on-site pre-construction meeting is required after the limits of disturbance have been staked and flagged and before any land disturbance.
- The property owner must arrange for the meeting and following people should must participate at the pre-construction meeting: the property owner or their representative, construction superintendent, International Society of Arboriculture (ISA) certified arborist/Maryland Licensed Tree Expert (representing owner) that will implement the tree protection measures, The Planning Department Forest Conservation Inspector, and Montgomery County Department of Permitting Services (DPS) Sediment Control Inspector. The purpose of this meeting is verify the limits of disturbance and discuss specific tree protection and tree care measures shown on the approved plan. No land disturbance shall begin before tree protection and stress-reduction measures have been implemented and approved by the Planning Department's Forest Conservation Inspector.
 - Typical tree protection devices include:
 - Chain link fence (four feet high)
 - Super silt fence with wire strung between the support poles (minimum 4 feet high) with high visibility flagging.
 - 14 gauge, 2 inch x 4 inch welded wire fencing supported by steel T-bar posts (minimum 4 feet high) with high visibility flagging.
 - Typical stress reduction measures may include, but are not limited to:
 - Root pruning with a root cutter or vibratory plow designed for that purpose. Trenchers are not allowed, unless approved by the Forest Conservation Inspector
 - Crown Reduction or pruning
 - Watering
 - Fertilizing
 - Vertical mulching
 - Root aeration systems
- Measures not specified on the Forest Conservation Plan may be required as determined by the Forest Conservation Inspector in coordination with the property owner's arborist.
- A Maryland Licensed Tree expert must perform, or directly supervise, the implementation of all stress reduction measures. Documentation of the process (including photographs) may be required by the Forest Conservation Inspector, and will be determined at the pre-construction meeting.
- Temporary tree protection devices must be installed per the approved Forest Conservation Plan, Exemption Plan, or Tree Save Plan and prior to any land disturbance. The Forest Conservation Inspector, in coordination with the DPS Sediment Control Inspector, may make field adjustments to increase the survivability of trees and forest shown as saved on the approved plan.
- Tree protection fencing must be installed and maintained by the property owner for the duration of construction project and must not be altered without prior approval from the Forest Conservation Inspector. All construction activity within protected tree and forest areas is prohibited. This includes the following activities:
 - Parking or driving of equipment, machinery or vehicles of any type.
 - Storage of any construction materials, equipment, stockpiling, fill, debris, etc.
 - Dumping of any chemicals (i.e., paint thinner), mortar or concrete remainder, trash, garbage, or debris of any kind.
 - Felling of trees into a protected area.
 - Trenching or grading for utilities, irrigation, drainage, etc.
- Forest and tree protection signs must be installed as required by the Forest Conservation Inspector. The signs must be waterproof and wording provided in both English and Spanish.

During Construction

- Periodic inspections will be made by the Forest Conservation Inspector. Corrections and repairs to tree protection devices must be completed within the timeframe given by the Inspector.
- The property owner must immediately notify the Forest Conservation Inspector of any damage to trees, forests, understory, ground cover, and any other undisturbed areas shown on the approved plan. Remedial actions, and the relative timeframes to restore these areas, will be determined by the Forest Conservation Inspector.

Post-Construction

- After construction is completed, but before tree protection devices have been removed, the property owner must request a final inspection with the Forest Conservation Inspector. At the final inspection, the Forest Conservation Inspector may require additional corrective measures, which may include:
 - Removal, and possible replacement, of dead, dying, or hazardous trees
 - Pruning of dead or declining limbs
 - Soil aeration
 - Fertilization
 - Watering
 - Wound repair
 - Clean up of retention areas, including trash removal
- After the final inspection and completion of all corrective measures the Forest Conservation Inspector will request all temporary tree and forest protection devices be removed from the site. Removal of tree protection devices that also operate for erosion and sediment control must be coordinated with both DPS and the Forest Conservation Inspector and cannot be removed without permission of the Forest Conservation Inspector. No additional grading, sodding, or burial may take place after the tree protection fencing is removed.
- Long-term protection measures, including permanent signage, must be installed per the approved plan. Installation will occur at the appropriate time during the construction project. Refer to the approved plan drawing for the long-term protection measures to be installed.

1 FCP SEQUENCE OF EVENTS

LSG LANDSCAPE ARCHITECTURE				DESIGN			Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
Designer's Name	DAVE NORDEN			Landscape Architect	Date	Checked By:	
Address	1775 GREENSBORO STATION PLACE, SUITE 110			Architect	Date	Checked By:	
City/State/Zip	TYSONS, VIRGINIA, 22102			Engineer	Date	Checked By:	
Telephone Number	703-821-2045			Drawn by	Date	Checked By:	



The Maryland-National Capital Park and Planning Commission

Montgomery County Department of Parks
9500 Brunett Avenue
Silver Spring, Maryland 20901
(301) 495-2535

REVIEW AND APPROVAL		ISSUED FOR PROCUREMENT ON _____	
		REVISIONS	
Project Manager	Date	Rev. No.	Date Description
Construction Manager	Date	1	12/20/18 Design Development
Park Manager	Date	2	02/11/18 Simplified NRI and FC Exemption
		3	05/08/19 Rev. Simplified NRI and FC Exemption

SILVER SPRING INTERMEDIATE NEIGHBORHOOD PARK

Simplified NRI & FC Exemption

SCALE: AS SHOWN

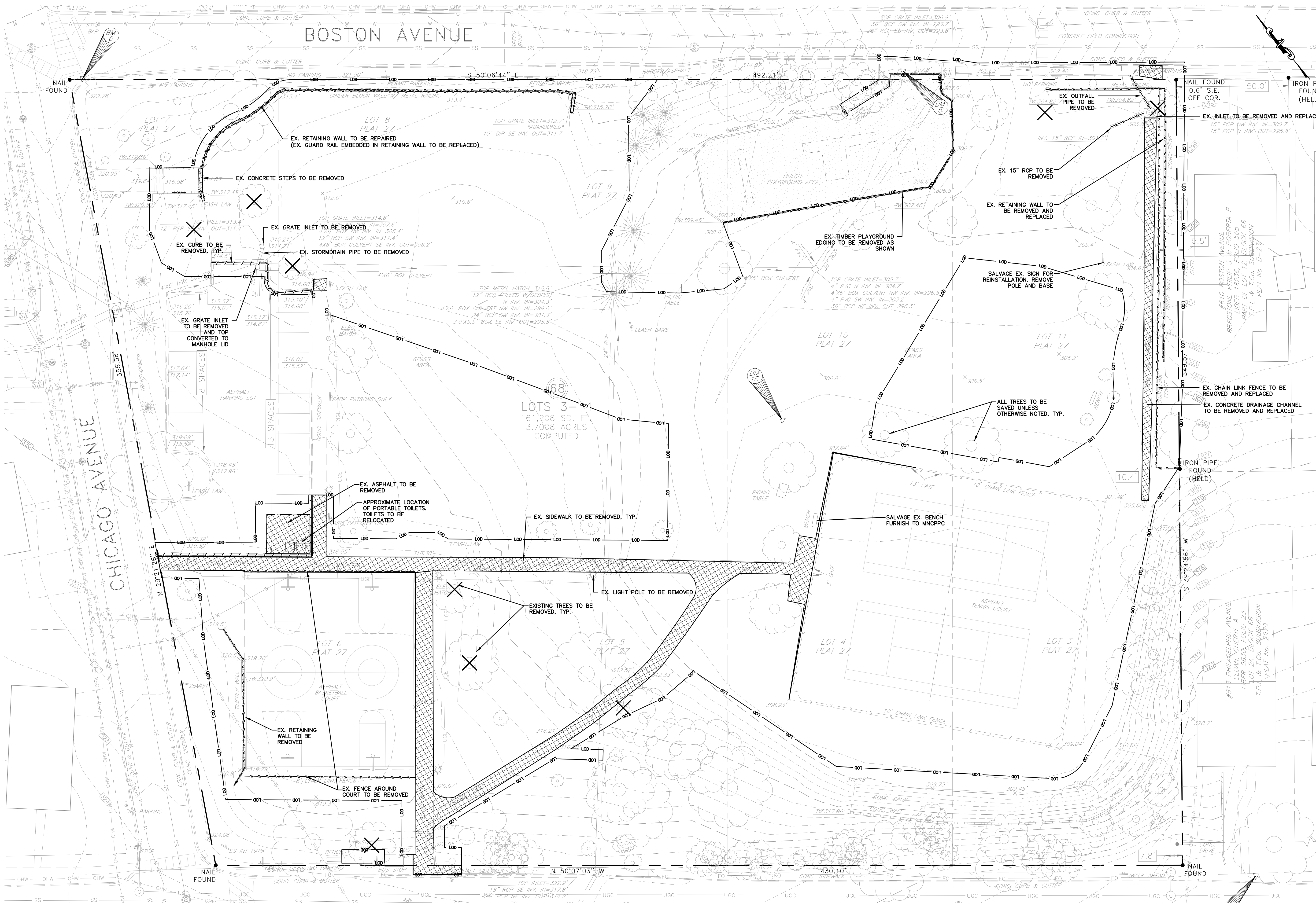
PLAN NUMBER: 42019125E
TAX MAP: JN342
WSSC GRID: 209NW01

DWG. #

L004

SHT. # 03 OF 03

FINAL SCANNED: PLAN SCANNED: C10 PARK CODE: C10 PLOTTED BY: MATT EDLIMON, 6/10/2019 2:46 PM, C-100 EXISTING CONDITIONS AND DEMOLITION PLAN.dwg



- DEMOLITION NOTES:**
1. PRIOR TO THE START OF CONSTRUCTION AN ON-SITE MEETING WITH MNCPPC, MONTGOMERY COUNTY PARKS, AND THEIR GENERAL CONTRACTOR SHALL BE HELD TO DISCUSS TIMING OF OPERATIONS AND CONSTRUCTION COORDINATION.
 2. BEFORE ANY EXCAVATION BELOW SUBGRADE IS ALLOWED, THE CONTRACTOR SHALL VERIFY THAT NO UTILITY PIPING IS IN THE VICINITY OF EXCAVATION.
 3. THE CONTRACTOR SHALL CALL "MISS UTILITY" AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF WORK. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL UNDERGROUND UTILITIES IN THE AREA OF PROPOSED WORK ARE LOCATED PRIOR TO COMMENCING CONSTRUCTION WORK. THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH REQUIREMENTS OF CHAPTER 36A OF THE MONTGOMERY COUNTY CODE.
 4. THE CONTRACTOR IS ALSO RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES (NOT LOCATED BY MISS UTILITY) WITHIN M-NCPPC PROPERTY AT THEIR EXPENSE. ALL UTILITIES SHOWN ON THE PLANS ARE PROVIDED FOR INFORMATION ONLY AND SHALL BE CONSIDERED APPROXIMATE. M-NCPPC WILL NOT LOCATE ANY OF THE EXISTING UNDERGROUND UTILITIES. ANY UTILITIES OR OTHER UNDERGROUND FACILITIES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED/REPLACED AT THE CONTRACTOR'S EXPENSE.
 5. WHEN AN ITEM IS STATED TO BE REMOVED, IT SHALL INCLUDE REMOVAL OF ANY AND ALL APPURTENANCES ABOVE OR BELOW GRADE ASSOCIATED WITH SAID ITEM. ALL MATERIALS MUST BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY AT THE CONTRACTOR'S EXPENSE.

- REMOVAL OF EXISTING PAVEMENT WITHIN A TREE'S CRITICAL ROOT ZONE:**
1. THE CONTRACTOR SHALL MEET WITH THE M-NCPPC URBAN FORESTER AND CONSTRUCTION INSPECTOR PRIOR TO REMOVAL OF THE PAVEMENT TO DISCUSS METHODS TO BE USED TO REMOVE PAVEMENT. REMOVAL OF PAVEMENT MAY BE REQUIRED TO BE DONE BY HAND DEPENDING ON SITE CONDITIONS.
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 7. STABILIZE AREA PER APPROVED PLAN OR AS DIRECTED BY CONSTRUCTION INSPECTOR.

DEMOLITION LEGEND:

RP	ROOT PRUNING EXTENTS (SEE SHEET L-001 - TREE PRESERVATION PLAN)
SF	SILT FENCE
TSF	TRENCHLESS SILT FENCE
TPF	TREE PROTECTION FENCE
---	SAW-CUT LINE
-----	EXISTING PIPE TO BE REMOVED
[Hatched Box]	EX. CONCRETE TO BE REMOVED
[Diagonal Lines Box]	EXISTING ASPHALT PAVEMENT TO BE REMOVED
[Dotted Box]	PAVEMENT REMOVAL WITHIN CRZ
X	EXISTING TREE TO BE REMOVED



LSG LANDSCAPE ARCHITECTURE
Designer's Name
DAVE NORDEN
Address
1775 GREENSBORO STATION PLACE, SUITE 110
City/State/Zip
TYSONS, VIRGINIA, 22102
Telephone Number
703-821-2045

DESIGN			
Landscape Architect	Date	Checked By:	
Architect	Date	Checked By:	
CLARK AZAR & ASSOCIATES	2/6/19	DC	
Engineer	Date	Checked By:	
SL, ME	2/6/19	DC	
Drawn by	Date	Checked By:	

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License No. 31168
Expiration Date 01/12/2021



The Maryland-National Capital Park and Planning Commission
Montgomery County Department of Parks
9500 Brunett Avenue
Silver Spring, Maryland 20901
(301) 495-2535

REVIEW AND APPROVAL	
Project Manager	Date
Construction Manager	Date
Park Manager	Date

ISSUED FOR PROCUREMENT ON		
REVISIONS		
Rev. No.	Date	Description
1	12/20/18	Design Development
2	05/08/19	Rev. Simplified NRI and FC Exemption
3	06/04/19	Final Design Development

Silver Spring Intermediate Neighborhood Park
7801 Chicago Ave, Takoma Park, MD 20912
EXISTING CONDITIONS AND DEMOLITION PLAN
PLAN NUMBER: 42019125E
TAX MAP: JN342
WSSC GRID: 209NW01
DWG. # ____ of ____
C-100
SHT. # ____ of ____

FINAL SCANNED:

PLAN SCANNED:

PARK CODE: C10

Plotted By: Matt Edelman, 6/10/2019 2:46 PM, _NCS-full.ctb

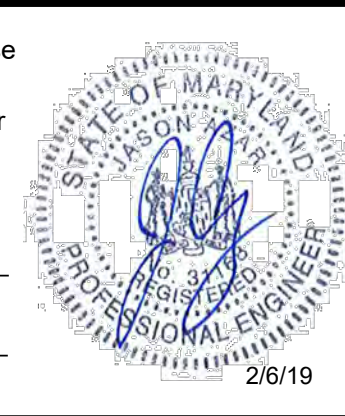
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2	05/08/19 Rev. Simplified NRI and FC Exemption
3	06/04/19 Final Design Development

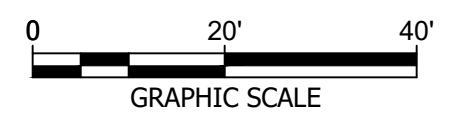
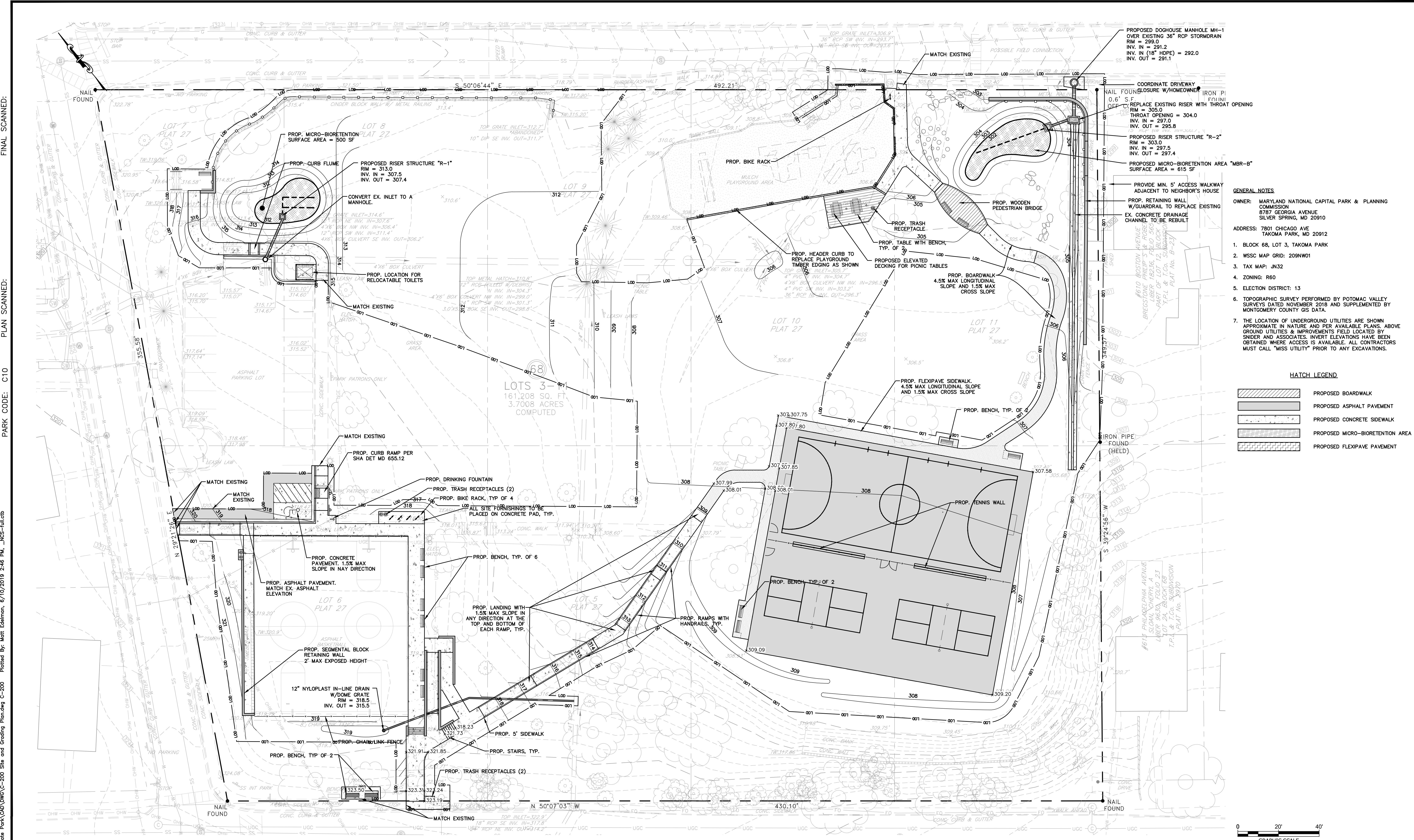
Silver Spring Intermediate Neighborhood Park
7801 Chicago Ave, Takoma Park, MD 20912

SITE AND GRADING PLAN

SCALE: AS SHOWN

PLAN NUMBER: 42019125E
TAX MAP: JN342
WSSC GRID: 209NW01

DWG. # ____ of ____
C-200
SHT. # ____ of ____



HATCH LEGEND	
	PROPOSED BOARDWALK
	PROPOSED ASPHALT PAVEMENT
	PROPOSED CONCRETE SIDEWALK
	PROPOSED MICRO-BIORETENTION AREA
	PROPOSED FLEXIPAVE PAVEMENT

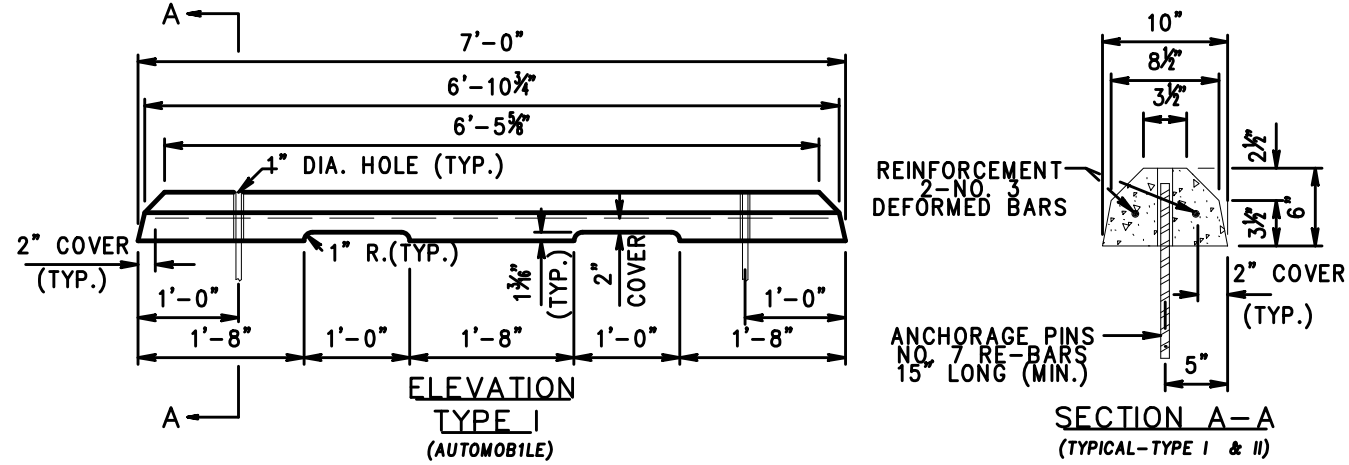
- GENERAL NOTES**
- OWNER: MARYLAND NATIONAL CAPITAL PARK & PLANNING COMMISSION
8787 GEORGIA AVENUE
SILVER SPRING, MD 20910
- ADDRESS: 7801 CHICAGO AVE
TAKOMA PARK, MD 20912
- BLOCK 68, LOT 3, TAKOMA PARK
 - WSSC MAP GRID: 209NW01
 - TAX MAP: JN32
 - ZONING: R60
 - ELECTION DISTRICT: 13
 - TOPOGRAPHIC SURVEY PERFORMED BY POTOMAC VALLEY SURVEYS DATED NOVEMBER 2018 AND SUPPLEMENTED BY MONTGOMERY COUNTY GIS DATA.
 - THE LOCATION OF UNDERGROUND UTILITIES ARE SHOWN APPROXIMATE IN NATURE AND PER AVAILABLE PLANS. ABOVE GROUND UTILITIES & IMPROVEMENTS FIELD LOCATED BY SNIDER AND ASSOCIATES. INVERT ELEVATIONS HAVE BEEN OBTAINED WHERE ACCESS IS AVAILABLE. ALL CONTRACTORS MUST CALL "MISS UTILITY" PRIOR TO ANY EXCAVATIONS.

FINAL SCANNED:

PLAN SCANNED:

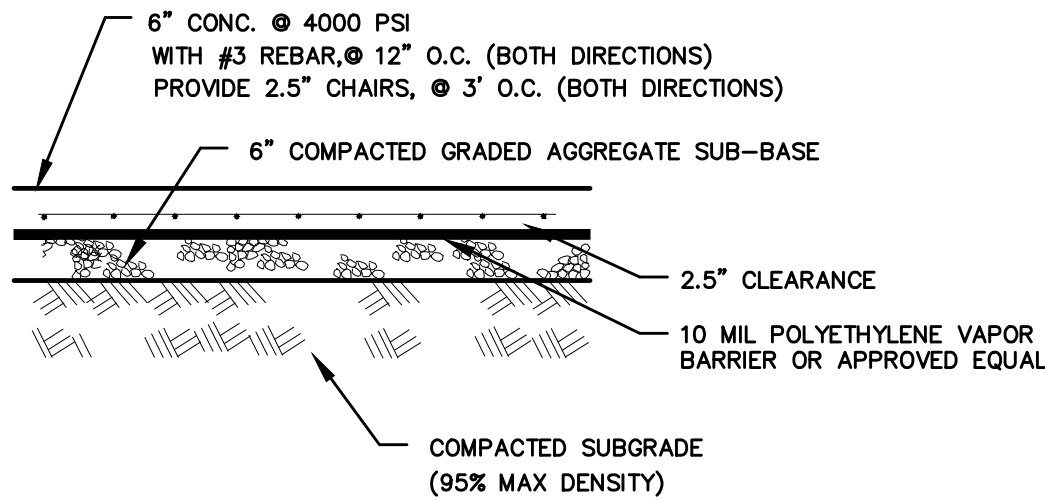
PARK CODE: C10

J:\45-002 - Silver Spring Intermediate Park\CAD\DWG\C-205 Site Details.dwg C-205 Plotted By: Matt Edelman, 6/10/2019 2:46 PM _JNS-full.ctb



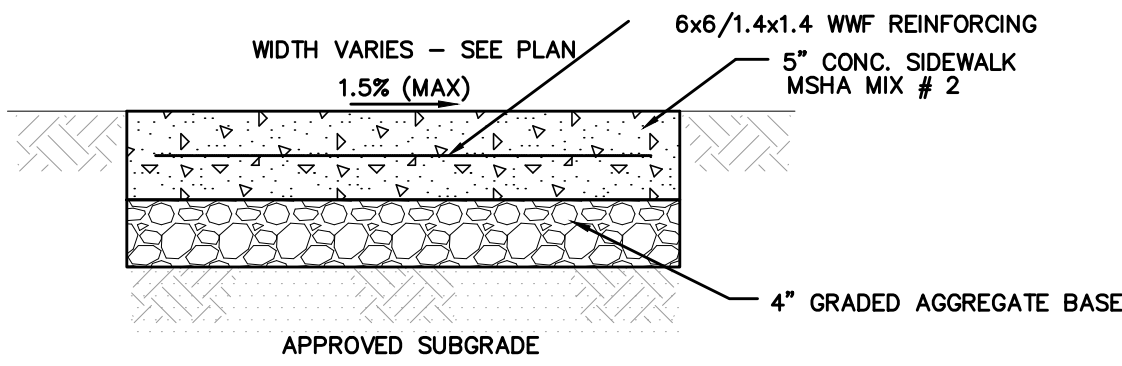
NOTE
1. PRECAST CONCRETE WHEEL STOPS SHALL BE LOCATED AS SHOWN ON THE PLANS, THEN SECURED IN PLACE WITH TWO (2) NO. 7 REINFORCEMENT BARS PER WHEEL STOP.
2. COST OF THE REINFORCEMENT BARS WILL BE INCIDENTAL TO THE CONTRACT.

1 WHEELSTOP DETAIL
NOT TO SCALE



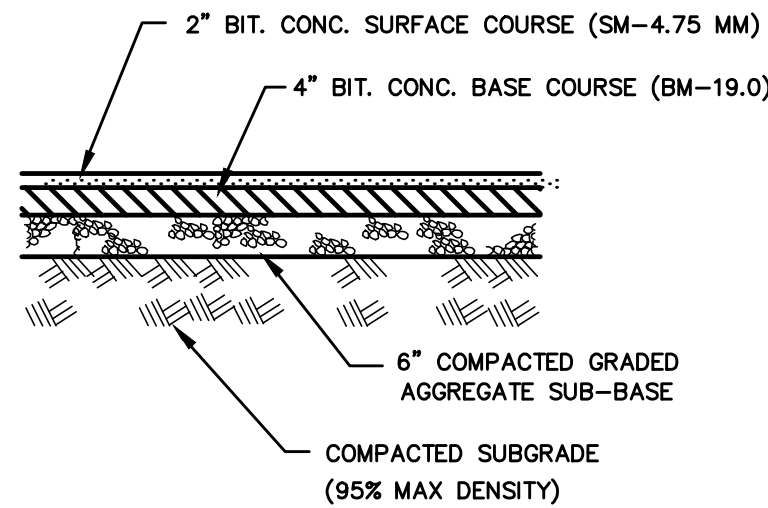
NOTE: TO BE USED ON HANDICAP PARKING SPACES

2 CONCRETE PAVEMENT SECTION
NOT TO SCALE



- NOTES:
1. REFER TO MARYLAND STATE HIGHWAY ADMINISTRATION SPECIFICATIONS FOR MATERIALS AND METHODS.
 2. EXPANSION JOINT MATERIAL SHALL BE PLACED AROUND POLES, HYDRANTS, ETC. AND ALONG THE PROPERTY LINE WHEN THE SIDEWALK ABUTS ANY RIGID PAVEMENT, SIDEWALK OR STRUCTURE.
 3. EXPANSION JOINT MATERIAL SHALL HAVE A MAXIMUM LONGITUDINAL SPACING OF 100 FEET. THE MATERIAL SHALL BE 1/2-INCH PREFORMED CORK, TRIMMED AND SEALED WITH NON-STAINING, TWO-COMPONENT POLYSULFIDE OR POLYURETHANE ELASTOMERIC TYPE SEALANT COMPLYING WITH FS TT-S-00227.
 4. SCORE THE CONCRETE TO A DEPTH OF 1/3 THE SLAB THICKNESS TO PROVIDE WEAKENED PLANE TRAVERSE JOINTS AT 5'-0" INTERVALS, PARALLEL WITH AND PERPENDICULAR TO THE CURBING OR AS INDICATED ON THE SCORING PLAN.

3 TYPICAL CONCRETE SIDEWALK SECTION
NOT TO SCALE



4 TYPICAL ASPHALT PAVING SECTION
NOT TO SCALE

LSG LANDSCAPE ARCHITECTURE

Designer's Name
DAVE NORDEN
Address
1775 GREENSBORO STATION PLACE, SUITE 110
City/State/Zip
TYSONS, VIRGINIA, 22102
Telephone Number 703-821-2045

DESIGN

Landscape Architect	Date	Checked By:
Architect	Date	Checked By:
CLARK AZAR & ASSOCIATES	2/6/19	DC
Engineer	Date	Checked By:
SL_ME	2/6/19	DC
Drawn by	Date	Checked By:

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.

License No. 31168

Expiration Date 01/12/2021



The Maryland-National Capital Park and Planning Commission

Montgomery County Department of Parks
9500 Brunett Avenue
Silver Spring, Maryland 20901
(301) 495-2535

REVIEW AND APPROVAL

Project Manager	Date
Construction Manager	Date
Park Manager	Date

ISSUED FOR PROCUREMENT ON _____

REVISIONS		
Rev. No.	Date	Description
1	12/20/18	Design Development
2	05/08/19	Rev. Simplified NRI and FC Exemption
3	06/04/19	Final Design Development

Silver Spring Intermediate Neighborhood Park
7801 Chicago Ave, Takoma Park, MD 20912

SITE DETAILS

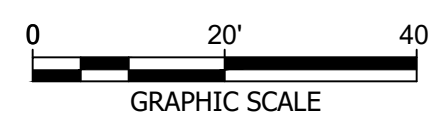
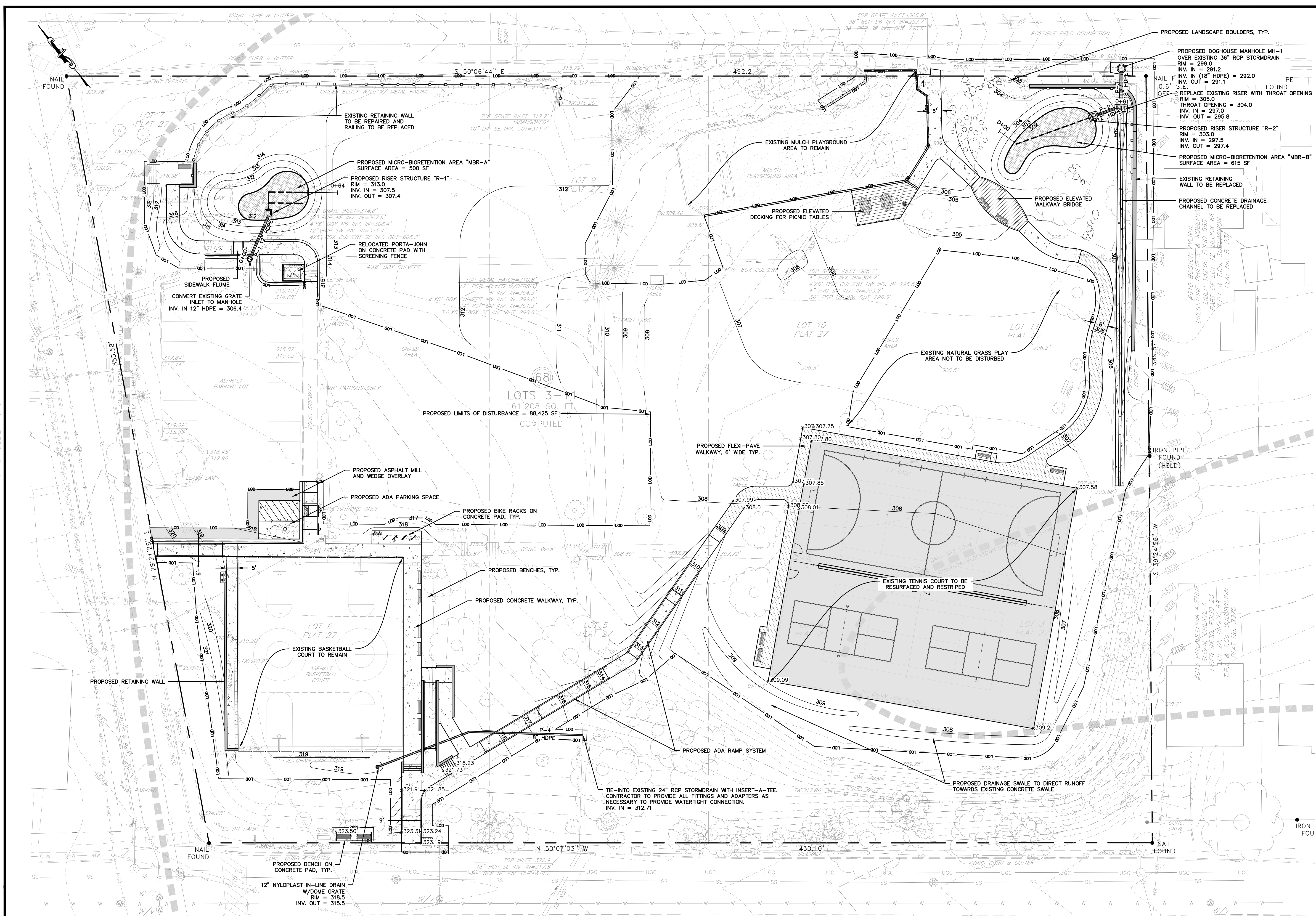
SCALE: AS SHOWN



PLAN NUMBER: 42019125E
TAX MAP: JN342
WSSC GRID: 209NW01

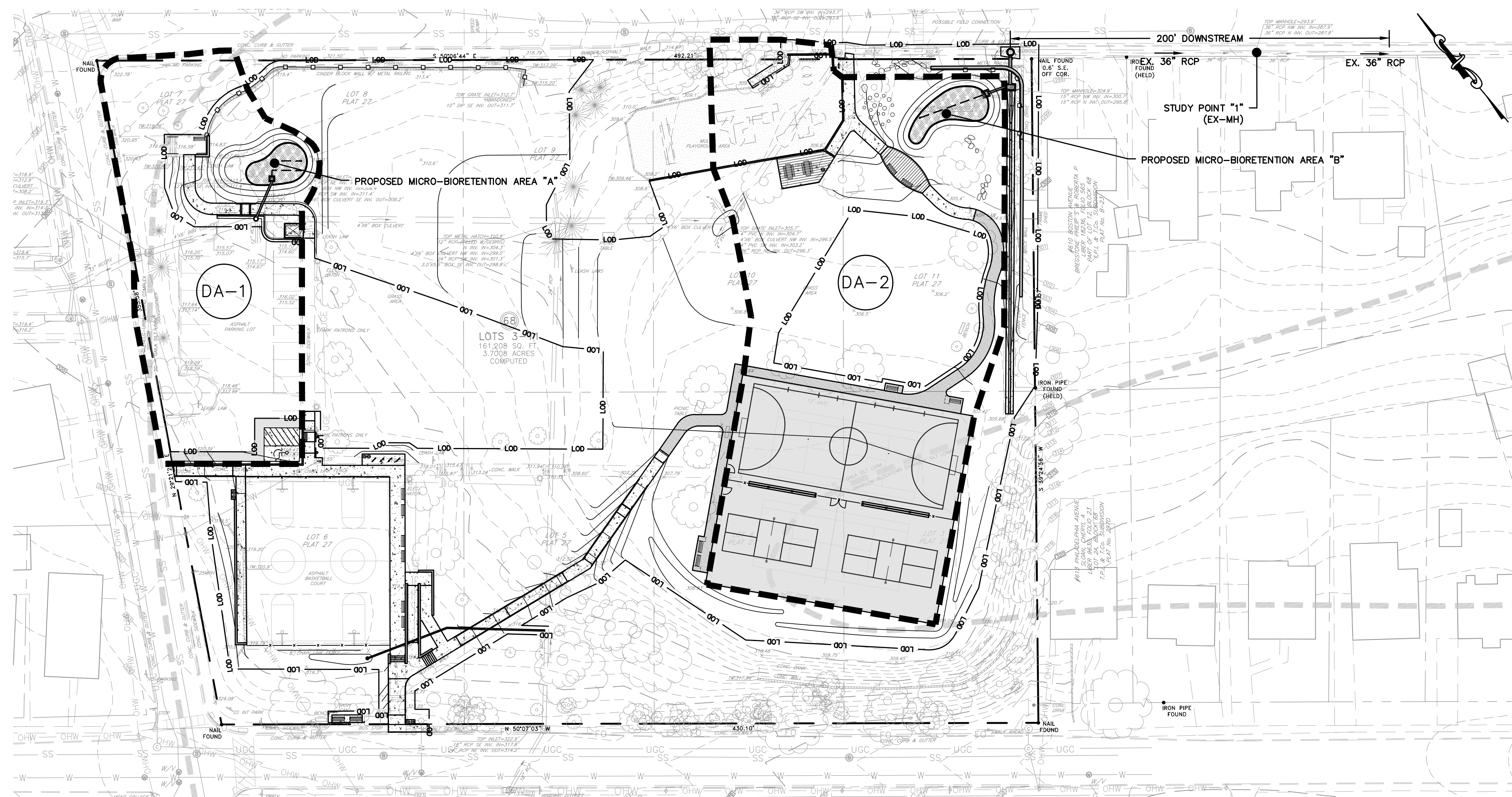
DWG. # ____ of ____

C-205

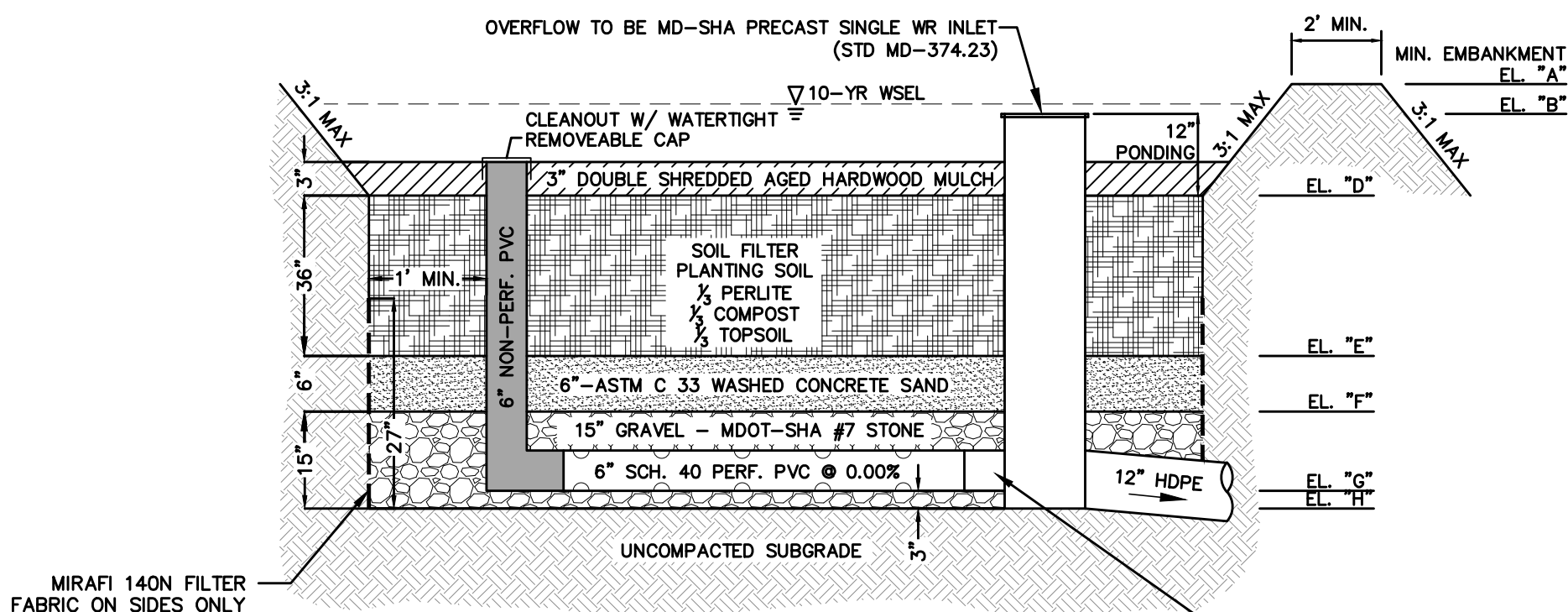
SHT. # ____ of ____



LSG LANDSCAPE ARCHITECTURE		DESIGN		Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.						The Maryland-National Capital Park and Planning Commission Montgomery County Department of Parks 9500 Brunett Avenue Silver Spring, Maryland 20901 (301) 495-2535		REVIEW AND APPROVAL		ISSUED FOR PROCUREMENT ON _____		Silver Spring Intermediate Neighborhood Park 7801 Chicago Ave, Takoma Park, MD 20912		DWG. # ____ of ____	
Designer's Name DAVE NORDEN		Landscape Architect		Date		Checked By:		Project Manager		Date		1		12/20/18		Design Development		C-300	
Address 1775 GREENSBORO STATION PLACE, SUITE 110		Architect		Date		Checked By:		Construction Manager		Date		2		05/08/19		Rev. Simplified NRI and FC Exemption		STORMWATER MANAGEMENT PLAN	
City/State/Zip TYSONS, VIRGINIA, 22102		Engineer		Date		Checked By:		Park Manager		Date		3		06/04/19		Final Design Development		PLAN NUMBER: 42019125E TAX MAP: JN342 WSSC GRID: 209NW01	
Telephone Number 703-821-2045		Drawn by		Date		Checked By:												SHT. # ____ of ____	

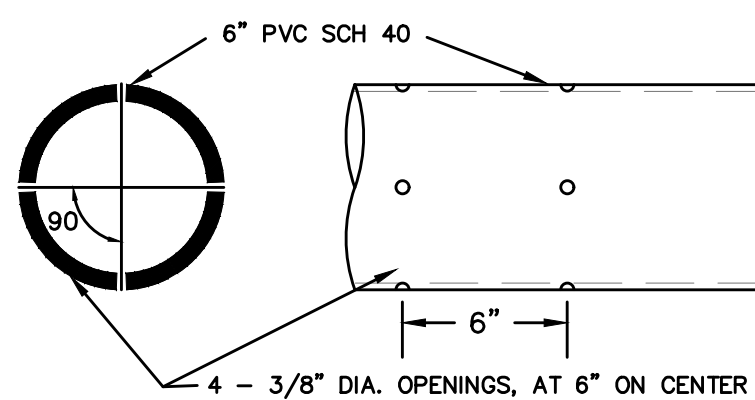


POST-DEVELOPMENT DRAINAGE AREA MAP
SCALE: 1" = 40'



- NOTES:
1. UNDERDRAIN PIPE SHALL BE PERFORATED WITH 3/8" DIA. PERFORATIONS, 6" O.C., EVERY 90 DEGREES AROUND THE PIPE.
 2. PERFORATED PIPE MUST BE AT LEAST 12" INSIDE THE FILTER MEDIA.
 3. FILTER FABRIC MUST NOT BE WRAPPED AROUND THE UNDERDRAIN PIPE.

1 TYPICAL MICRO-BIORETENTION DETAIL
NOT TO SCALE



2 PIPE PERFORATION DETAIL
NOT TO SCALE

MICRO-BIORETENTION GRAVEL, SAND, PLANTING MEDIA, AND MULCH MATERIAL SPECIFICATIONS

Gravel Bed
The gravel layer surrounding the underdrain pipe(s) must meet MSHA size #7 (Table 901A), and must provide a minimum of 6 inches cover over the pipe(s), and minimum 3 inches under the pipe. No geotextile or filter fabric is allowed to be placed horizontally anywhere within the filter media. The gravel must be clean and must be stored and installed in such a manner that it does not become contaminated with sediment before or after installation.

Sand Bed

A minimum 6-inch fine aggregate sand layer shall be provided below the planting medium. ASTM C33 or AASHTO M6 Fine Aggregate Concrete Sand is required per Montgomery County sand specifications.

Planting Medium

The planting medium shall be 24"-48" thick and shall consist of 1/3 perlite or Solite, 1/3 compost and 1/3 topsoil. The perlite shall be coarse grade horticultural perlite. The compost shall be high grade compost free of stones and partially composted woody material. The topsoil component shall meet the following criteria: contain no more than 10% clay, 10-25% silt and 60-75% sand and be free of stones, stumps, roots or other similar objects larger than 2 inches.

The first layer of the planting medium shall be lightly tilled to mix it into the 6-inch sand layer, so as not to create a definitive boundary. The planting bed shall be flooded after placement. Any settlement that occurs shall be filled back to the design elevation.

Mulch

The mulch layer is an important part of the Micro-Bioretention device. Much of the pollutant removal capacity of the Micro-Bioretention system is within the mulch layer. The surface mulch layer will consist of standard double shredded aged hardwood mulch. The mulch should be applied uniformly to a depth of 3 inches. Yearly replenishing may be necessary. Pine bark is not acceptable.

SAND SPECIFICATIONS:

WASHED ASTM C33 FINE AGGREGATE CONCRETE SAND IS UTILIZED FOR STORMWATER MANAGEMENT APPLICATIONS IN THE CITY OF ROCKVILLE. IN ADDITION TO THE ASTM C33 SPECIFICATION, SAND MUST MEET ALL OF THE FOLLOWING CONDITIONS:

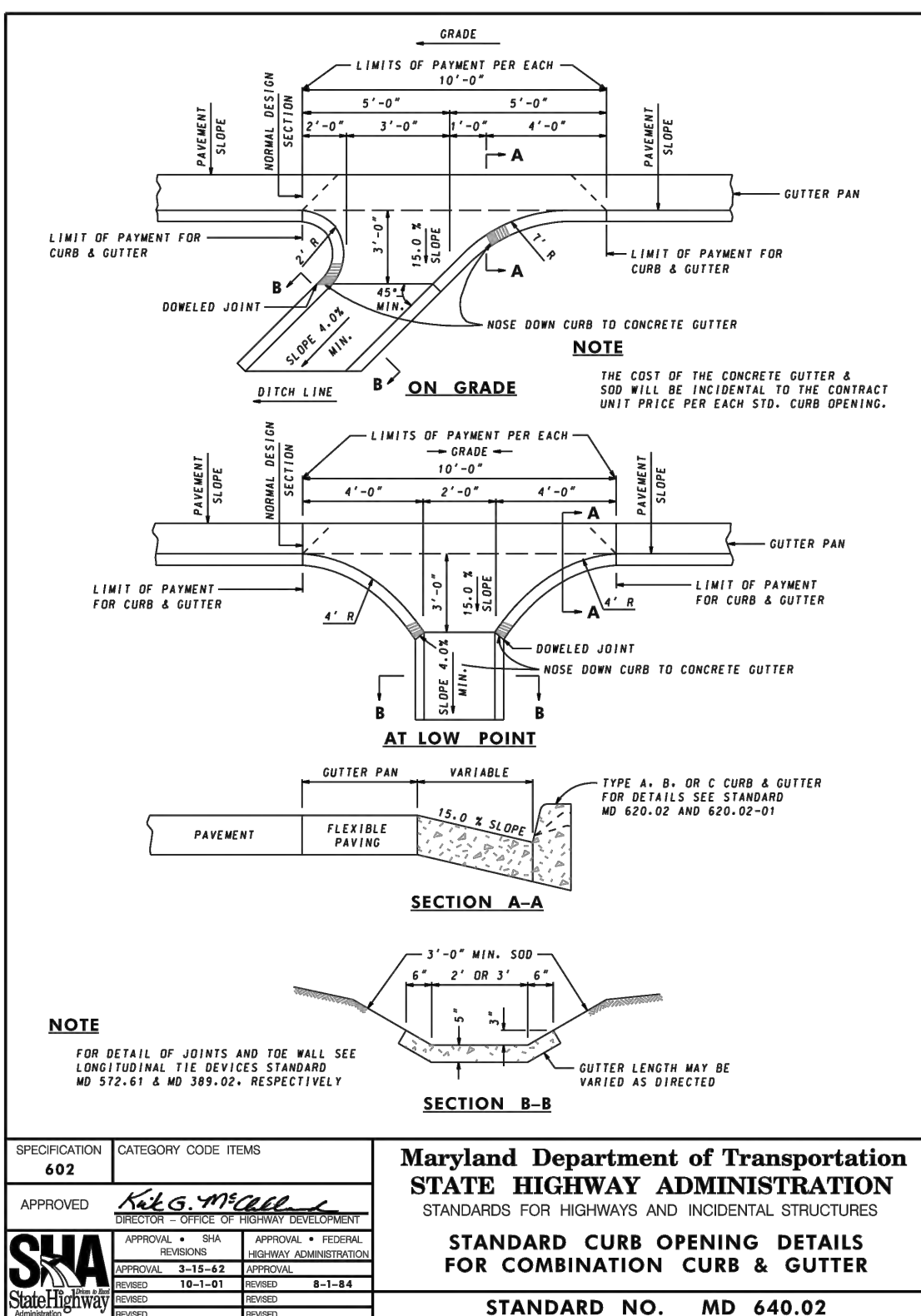
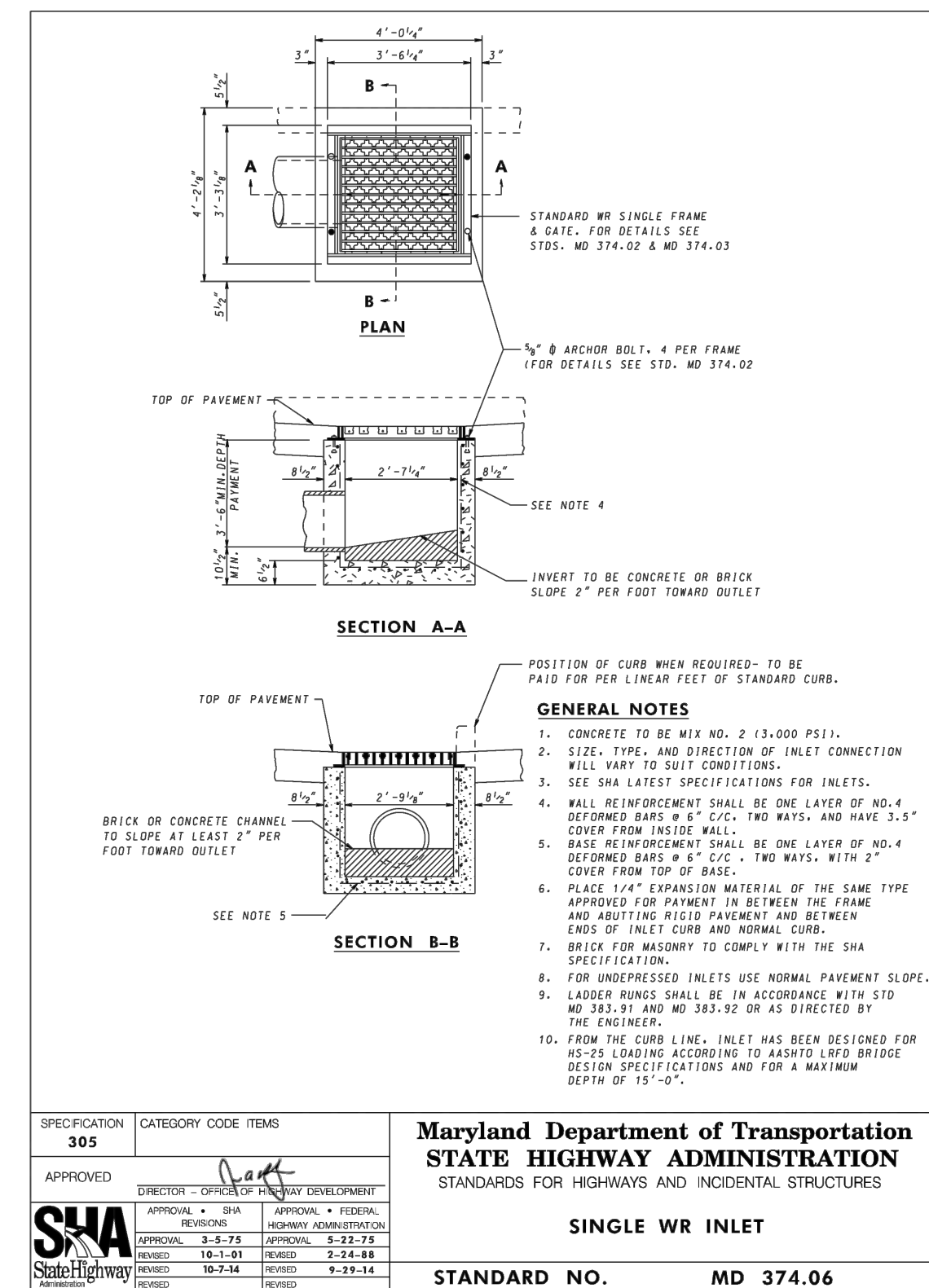
1. SAND MUST MEET GRADATION REQUIREMENTS FOR ASTM C-33 FINE AGGREGATE CONCRETE SAND. ASHTO M-6 GRADATION IS ALSO ACCEPTABLE.
2. SAND MUST BE SILICA BASED NO LIMESTONE BASED PRODUCTS MAY BE USED. IF THE MATERIAL IS WHITE OR GRAY IN COLOR, IT IS PROBABLY NOT ACCEPTABLE.
3. SAND MUST BE CLEAN, NATURAL, UNWASHED SAND DEPOSITS MAY BE USED, HOWEVER, SAND THAT HAS BECOME CONTAMINATED BY IMPROPER STORAGE OR INSTALLATION PRACTICES WILL BE REJECTED.
4. MANUFACTURED SAND OR STONE DUST IS NOT ACCEPTABLE UNDER ANY CIRCUMSTANCE.

MICRO-BIORETENTION AREA ELEVATIONS				
ELEV	MICRO-BIORETENTION AREA A		MICRO-BIORETENTION AREA B	
	DESIGN	CONSTR	DESIGN	CONSTR
A	313.50		303.50	
B	313.00		303.00	
C	312.25		302.25	
D	312.00		302.00	
E	308.00		298.00	
F	307.50		297.50	
G	306.50		296.50	
H	306.25		296.25	

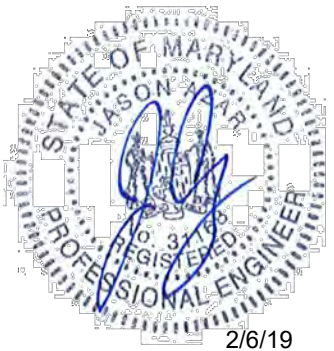
LOD AREA:
TOTAL AREA = 88,425 SF (2.030 AC)
PERVIOUS AREA = 76,315 SF (1.752 AC)
IMPERVIOUS AREA = 12,110 SF (0.278 AC)
PERCENT IMPERVIOUS = 13.7%

DRAINAGE AREA (DA-1):
TOTAL AREA = 17,277 SF (0.397 AC)
PERVIOUS AREA = 7,169 SF (0.165 AC)
IMPERVIOUS AREA = 10,108 SF (0.232 AC)
PERCENT IMPERVIOUS = 58.5%

DRAINAGE AREA (DA-2):
TOTAL AREA = 37,908 SF (0.870 AC)
PERVIOUS AREA = 18,954 SF (0.435 AC)
IMPERVIOUS AREA = 18,954 SF (0.435 AC)
PERCENT IMPERVIOUS = 50.0%



LSG LANDSCAPE ARCHITECTURE	DESIGN			Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License No. 31168 Expiration Date 01/12/2021
	Designer's Name DAVE NORDEN			
	Landscape Architect	Date	Checked By:	
	Architect	Date	Checked By:	
	Engineer	Date	Checked By:	
	Drawn by	Date	Checked By:	
	Address 1775 GREENSBORO STATION PLACE, SUITE 110 City/State/Zip TYSONS, VIRGINIA, 22102 Telephone Number 703-821-2045	CLARK AZAR & ASSOCIATES 2/6/19 SL, ME 2/6/19	DC DC	



**The Maryland-National Capital
Park and Planning Commission**
Montgomery County Department of Parks
9500 Brunett Avenue
Silver Spring, Maryland 20901
(301) 495-2535

REVIEW AND APPROVAL		ISSUED FOR PROCUREMENT ON _____		
		REVISIONS		
		Rev. No.	Date	Description
Project Manager	Date	1	12/20/18	Design Development
Construction Manager	Date	2	05/08/19	Rev. Simplified NRI and FC Exemption
		3	06/04/19	Final Design Development
Park Manager	Date			

Silver Spring Intermediate Neighborhood Park
7801 Chicago Ave, Takoma Park, MD 20912

STORMWATER MANAGEMENT DETAILS

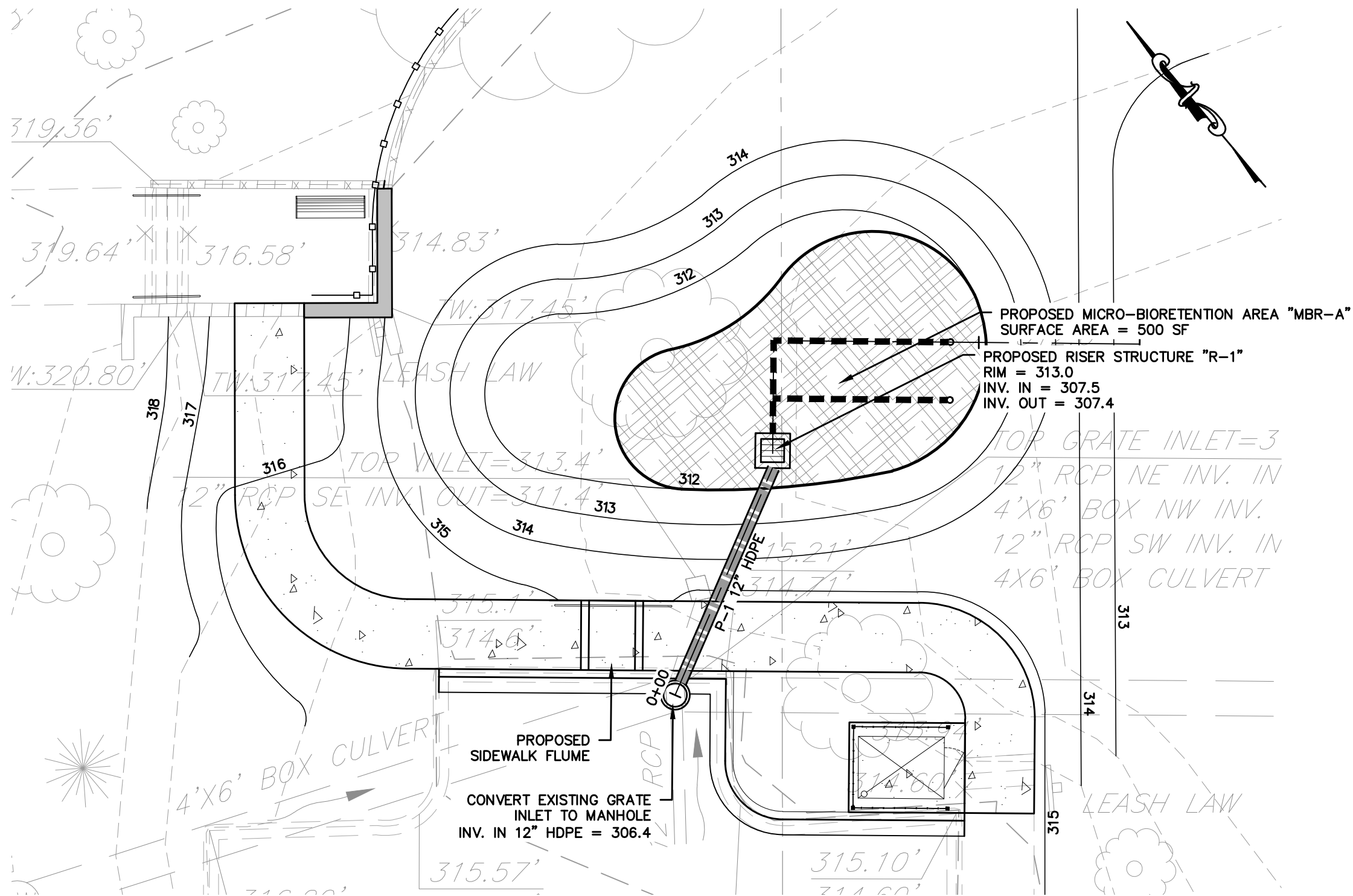
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PLAN NUMBER: 42019125E
TAX MAP: JN342
WSSC GRID: 209NW01

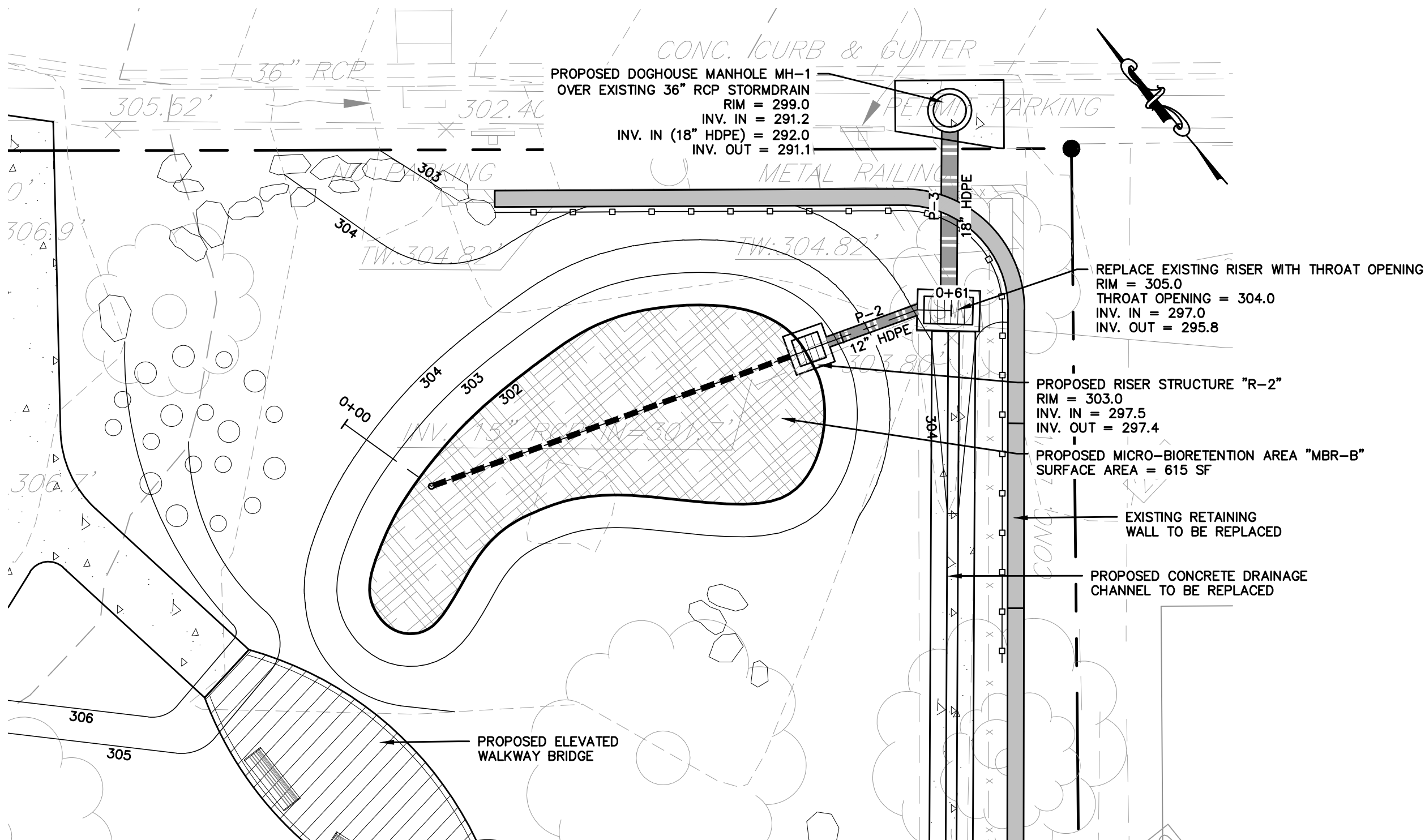
DWG. # of

C-310

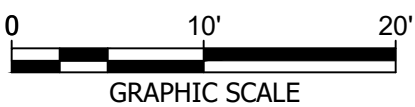
SHT. # _____ of _____



MICRO-BIORETENTION AREA "A" PROFILE
SCALE: 1" = 10'



MICRO-BIORETENTION AREA "B" PROFILE
SCALE: 1" = 10'



LSG LANDSCAPE ARCHITECTURE

Designer's Name
DAVE NORDEN

Address
1775 GREENSBORO STATION PLACE, SUITE 110

City/State/Zip
TYSONS, VIRGINIA, 22102

Telephone Number
703-821-2045

DESIGN

Landscape Architect	Date	Checked By:
Architect	Date	Checked By:
CLARK AZAR & ASSOCIATES	2/6/19	DC
Engineer	Date	Checked By:
SL, ME	2/6/19	DC
Drawn by	Date	Checked By:

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.

License No. 31168

Expiration Date 01/12/2021



The Maryland-National Capital
Park and Planning Commission

Montgomery County Department of Parks
9500 Brunett Avenue
Silver Spring, Maryland 20901
(301) 495-2535

REVIEW AND APPROVAL

Project Manager	Date
Construction Manager	Date
Park Manager	Date

ISSUED FOR PROCUREMENT ON

REVISIONS		
Rev. No.	Date	Description
1	12/20/18	Design Development
2	05/08/19	Rev. Simplified NRI and FC Exemption
3	06/04/19	Final Design Development

Silver Spring Intermediate Neighborhood Park
7801 Chicago Ave, Takoma Park, MD 20912

STORMWATER MANAGEMENT DETAILS

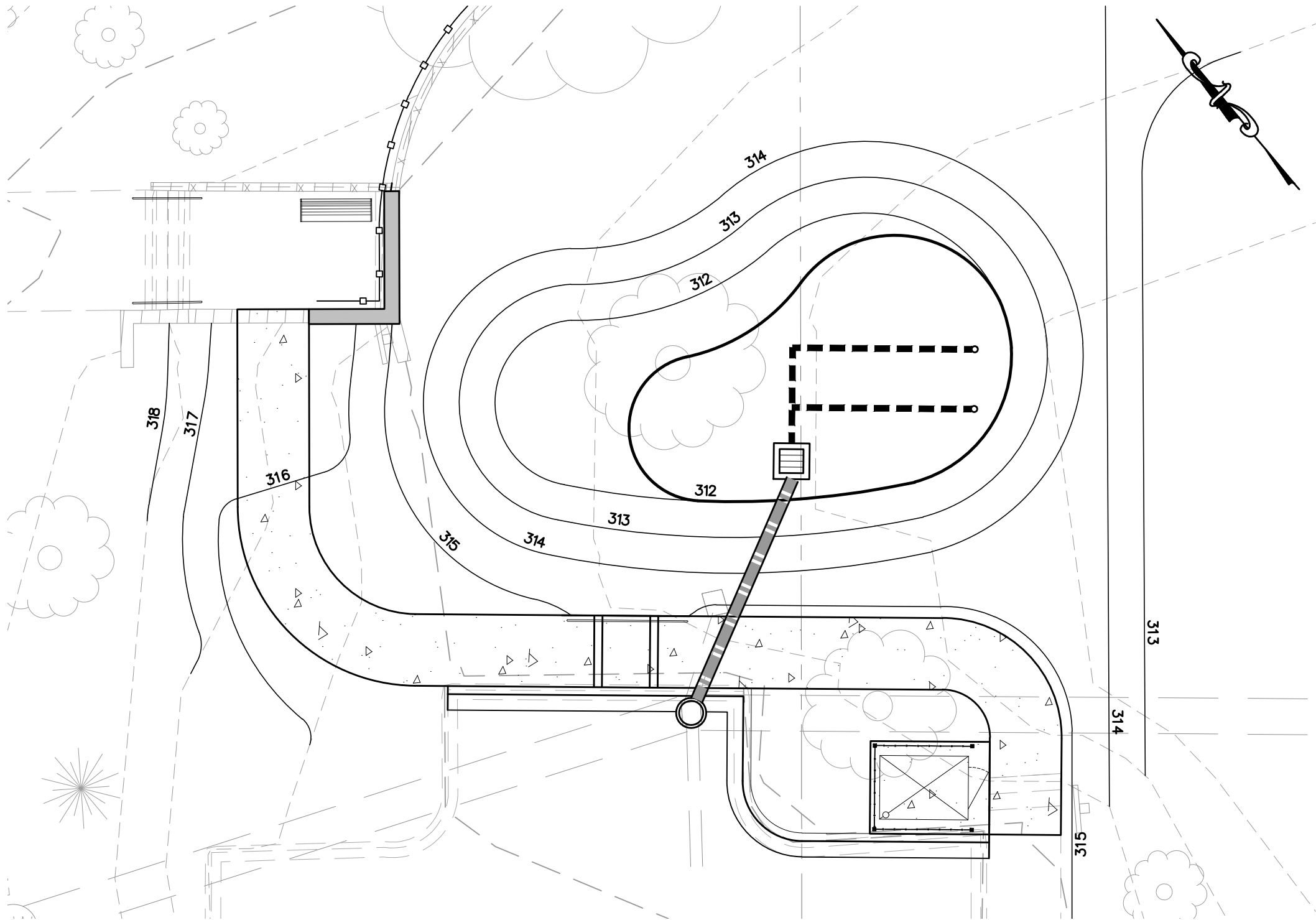
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PLAN NUMBER: 42019125E
TAX MAP: JN342
WSSC GRID: 209NW01

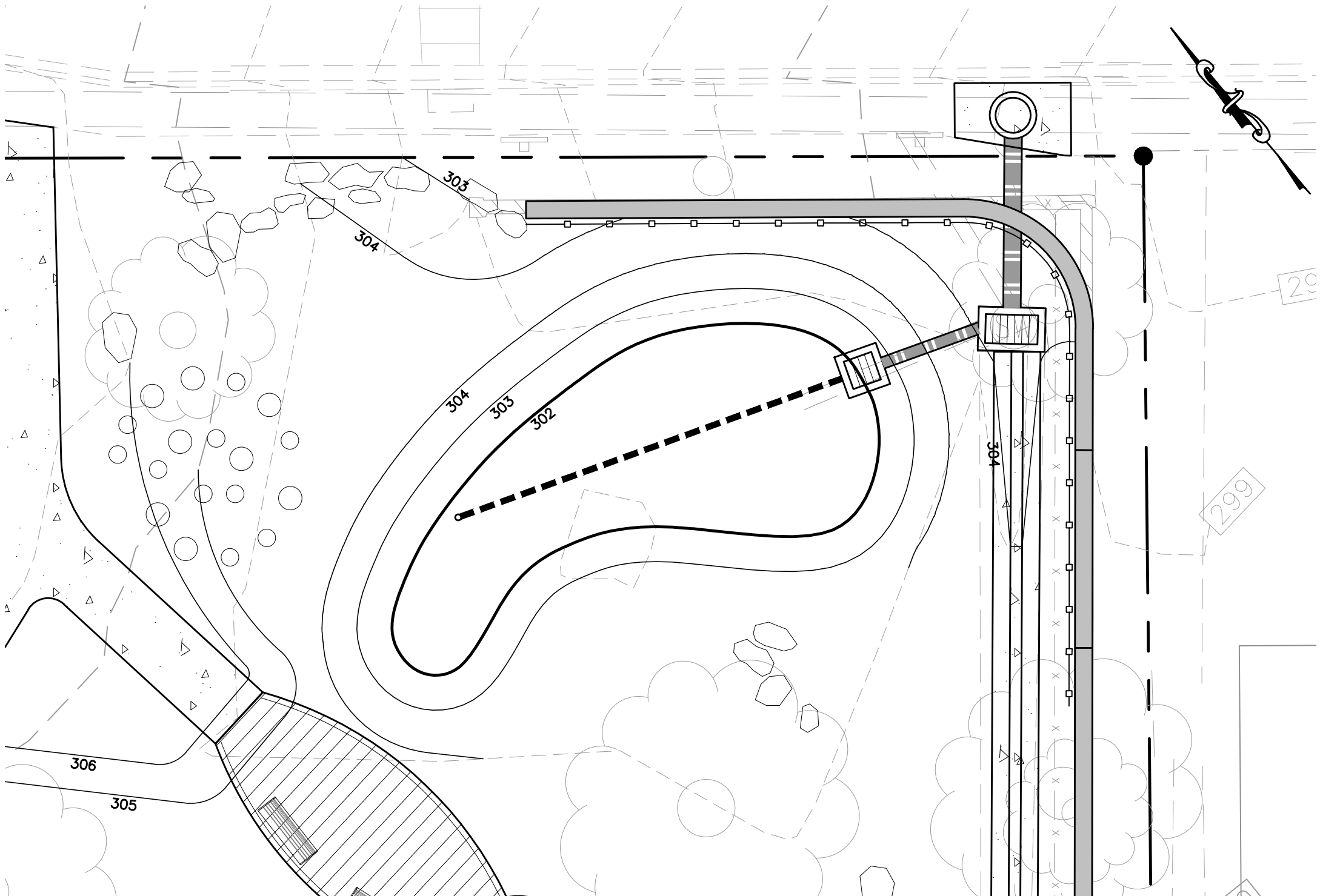
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C-311

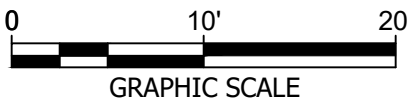
SHT. # ____ of ____



MICRO-BIORETENTION AREA "A" PLANTING PLAN
SCALE: 1" = 10'



MICRO-BIORETENTION AREA "B" PLANTING PLAN
SCALE: 1" = 10'



LSG LANDSCAPE ARCHITECTURE

Designer's Name
DAVE NORDEN
Address
1775 GREENSBORO STATION PLACE, SUITE 110
City/State/Zip
TYSONS, VIRGINIA, 22102
Telephone Number 703-821-2045

DESIGN

Landscape Architect	Date	Checked By:
Architect	Date	Checked By:
CLARK AZAR & ASSOCIATES	2/6/19	DC
Engineer	Date	Checked By:
SL, ME	2/6/19	DC
Drawn by	Date	Checked By:

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Expiration Date 01/12/2021



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Park and Planning Commission

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9500 Brunett Avenue
Silver Spring, Maryland 20901
(301) 495-2535

REVIEW AND APPROVAL

Project Manager	Date
Construction Manager	Date
Park Manager	Date

ISSUED FOR PROCUREMENT ON _____

REVISIONS		
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3	06/04/19	Final Design Development

Silver Spring Intermediate Neighborhood Park
7801 Chicago Ave, Takoma Park, MD 20912

STORMWATER MANAGEMENT DETAILS

SCALE: AS SHOWN

PLAN NUMBER: 42019125E
TAX MAP: JN342
WSSC GRID: 209NW01

DWG. # ____ of ____

C-312

SHT. # ____ of ____

FINAL SCANNED:

PLAN SCANNED:

PARK CODE: C10

Plotted By: Matt Edelman, 6/10/2019 2:47 PM _NCS-full.ctb

\\145.002 - Silver Spring Intermediate Park\CD\DWG\C-400 Erosion and Sediment Control Plan.dwg C-400

NOTIFY MISS UTILITY AT
1-800-257-7777 FOR UTILITY LOCATION
48 HOURS PRIOR TO EXCAVATION.

LSG LANDSCAPE ARCHITECTURE
Designer's Name
DAVE NORDEN
Address
1775 GREENSBORO STATION PLACE, SUITE 110
City/State/Zip
TYSONS, VIRGINIA, 22102
Telephone Number 703-821-2045

DESIGN					
Landscape Architect		Date	Checked By:		
Architect CLARK AZAR & ASSOCIATES Engineer SL, ME Drawn by	Date	2/6/19	Checked By:	DC	
	Date	2/6/19			
	Date	2/6/19			
	Date				

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Montgomery County Department of Parks
9500 Brunett Avenue
Silver Spring, Maryland 20901
(301) 495-2535

REVIEW AND APPROVAL	
Project Manager	Date
Construction Manager	Date
Park Manager	Date

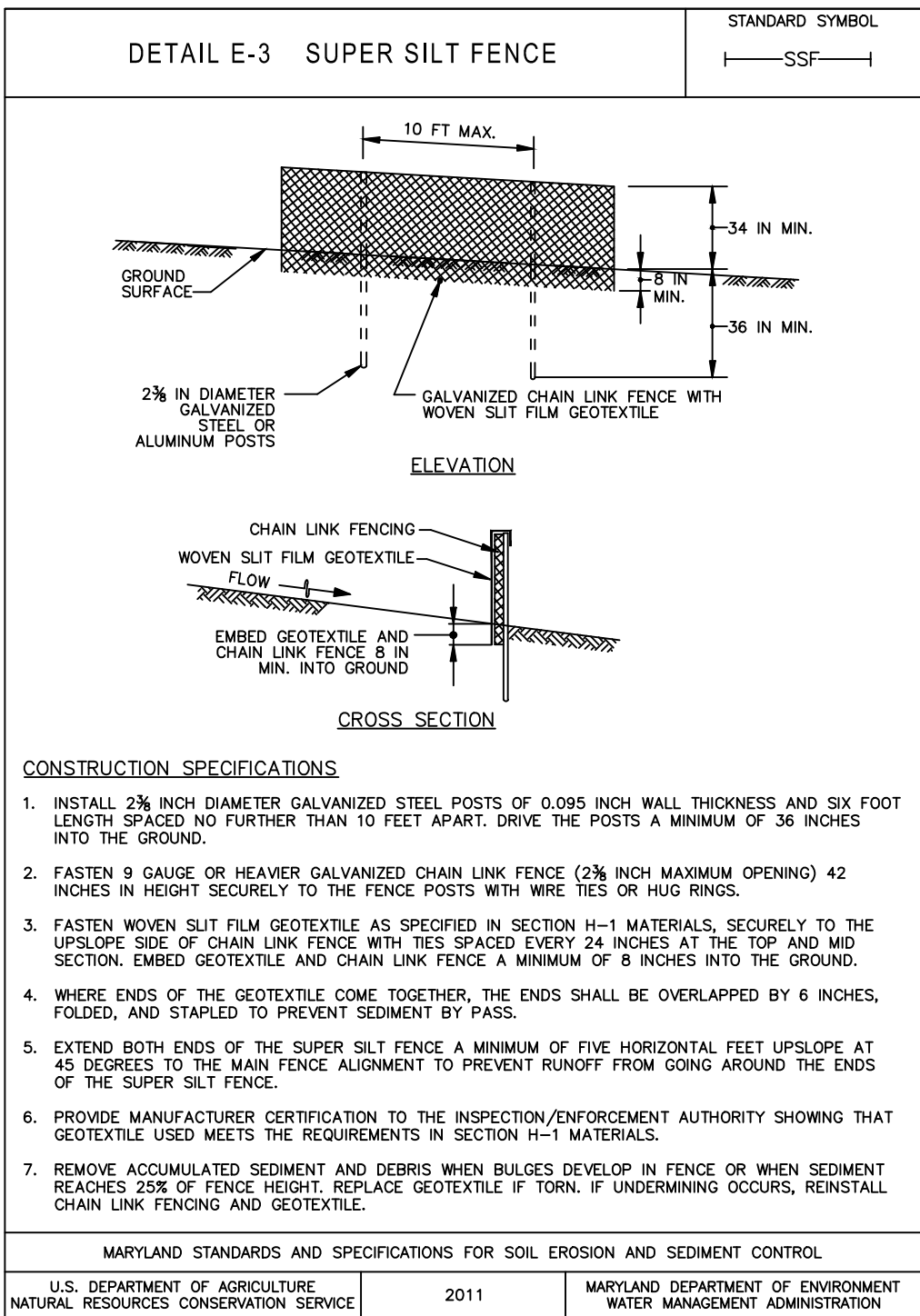
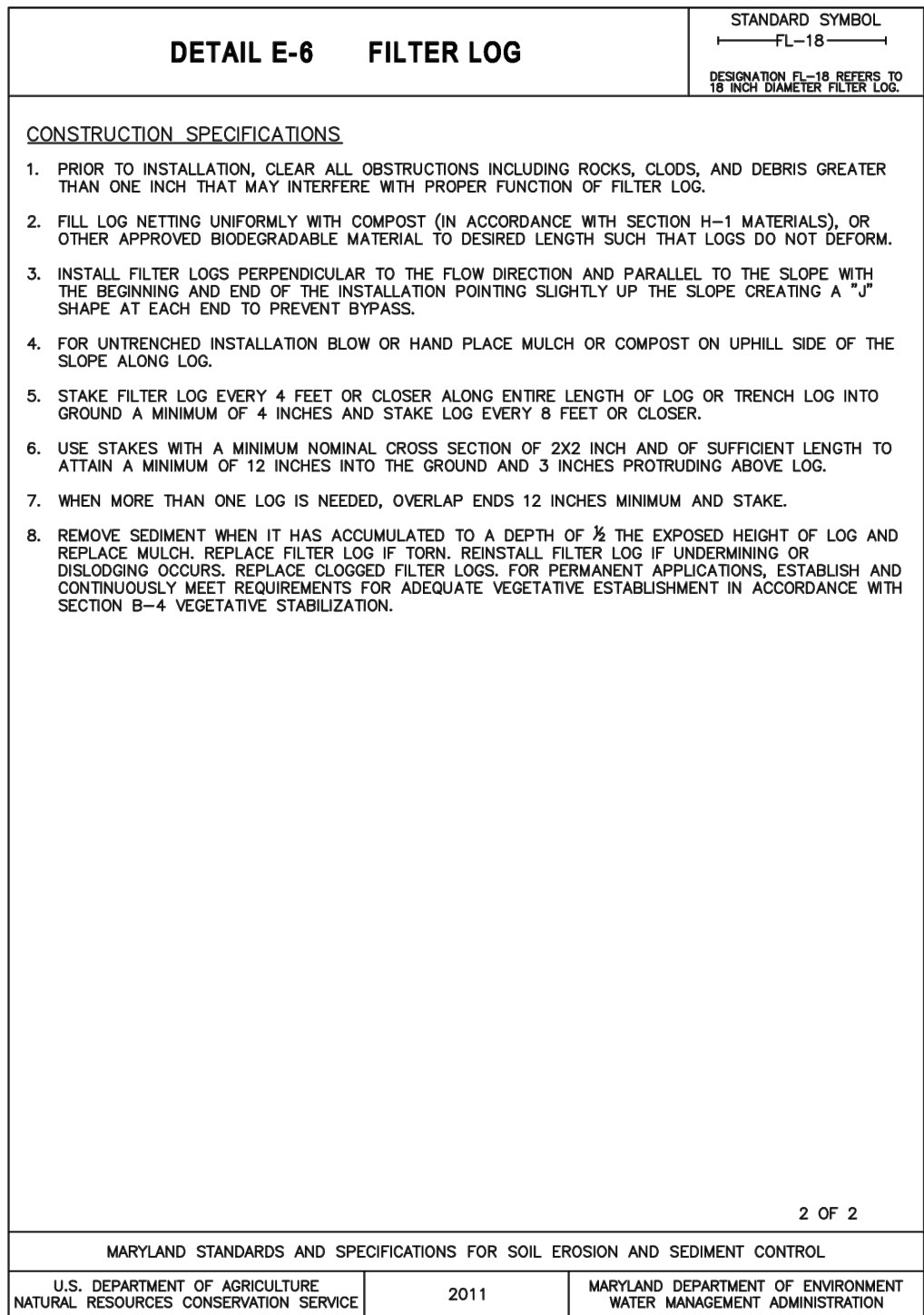
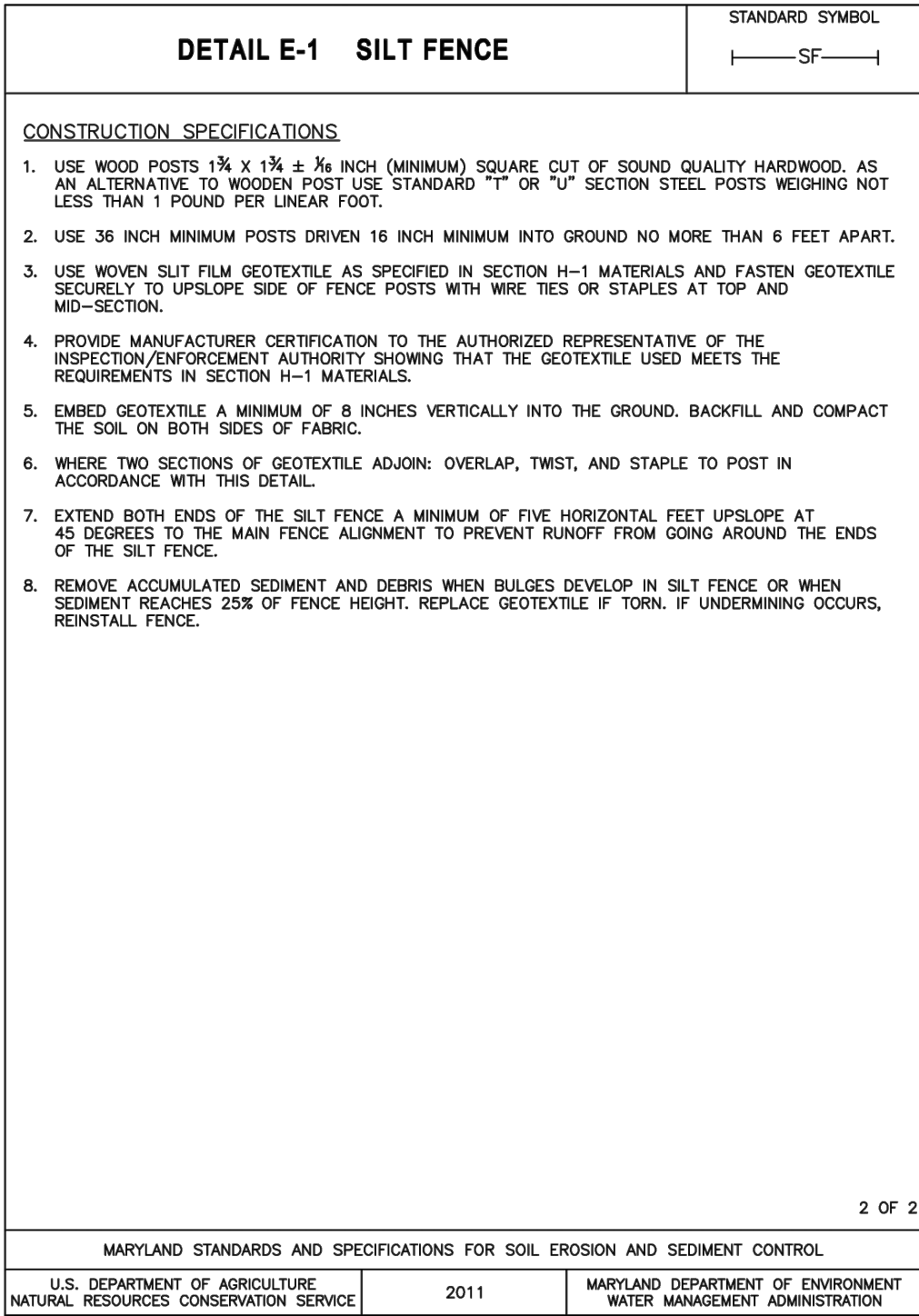
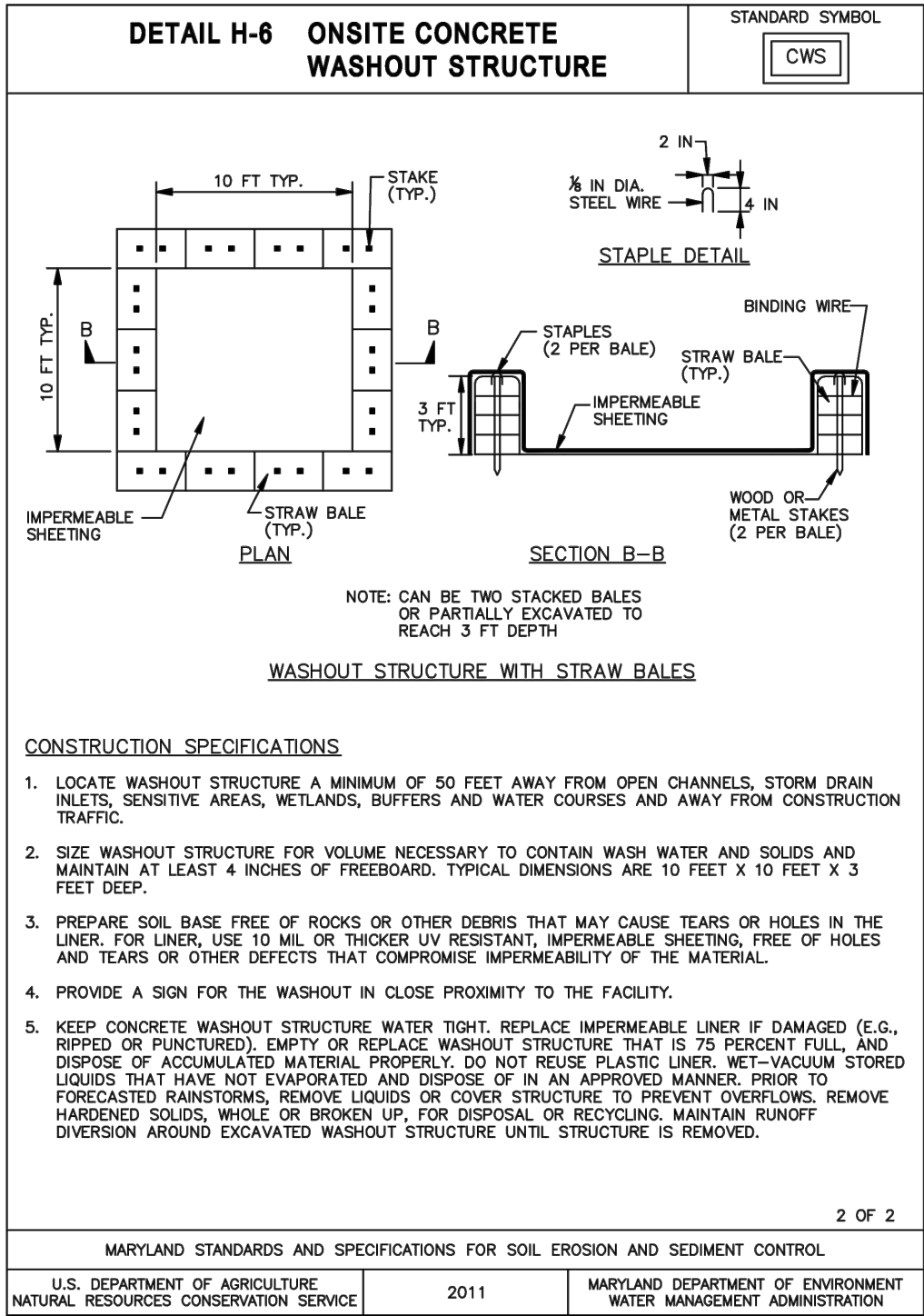
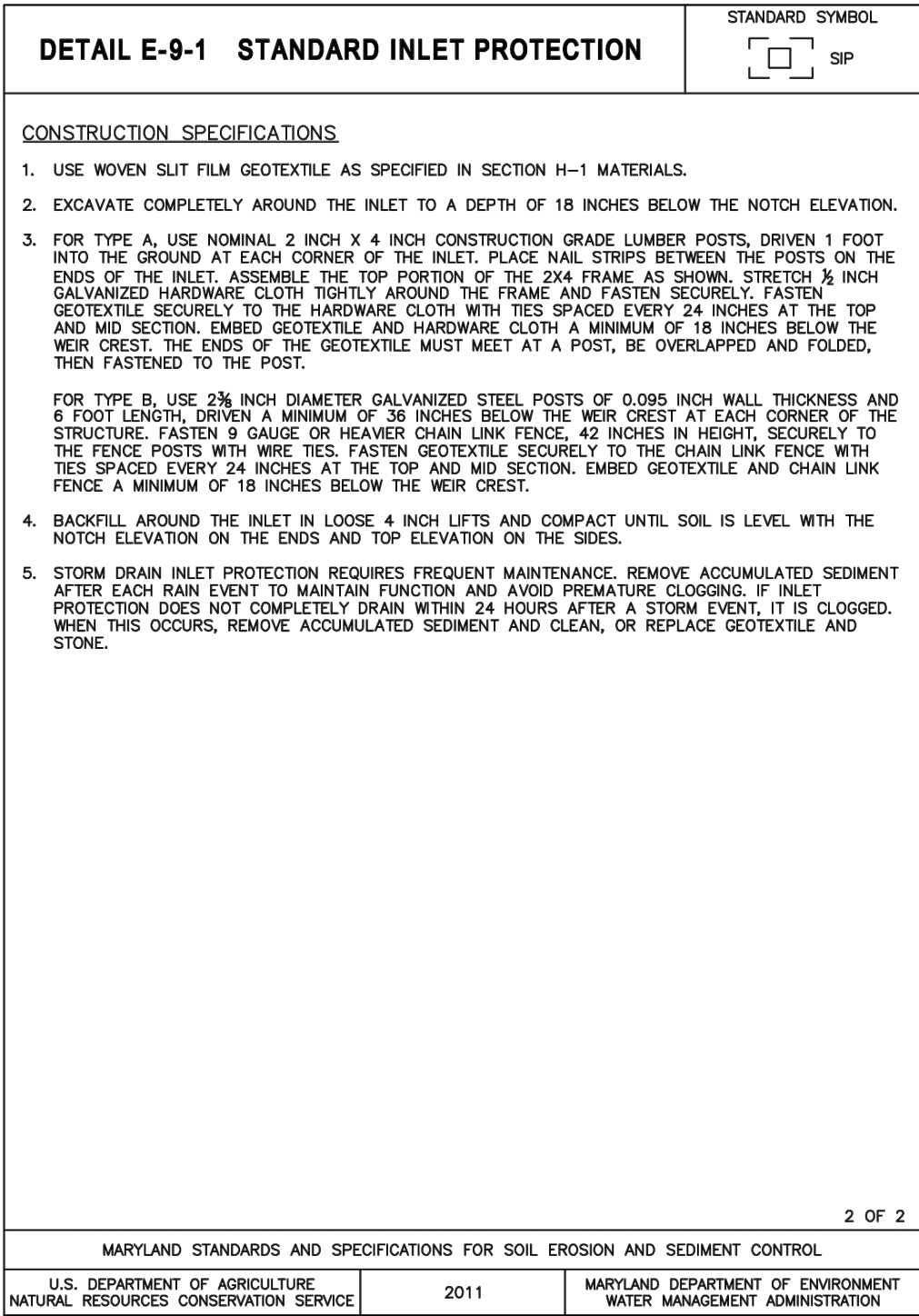
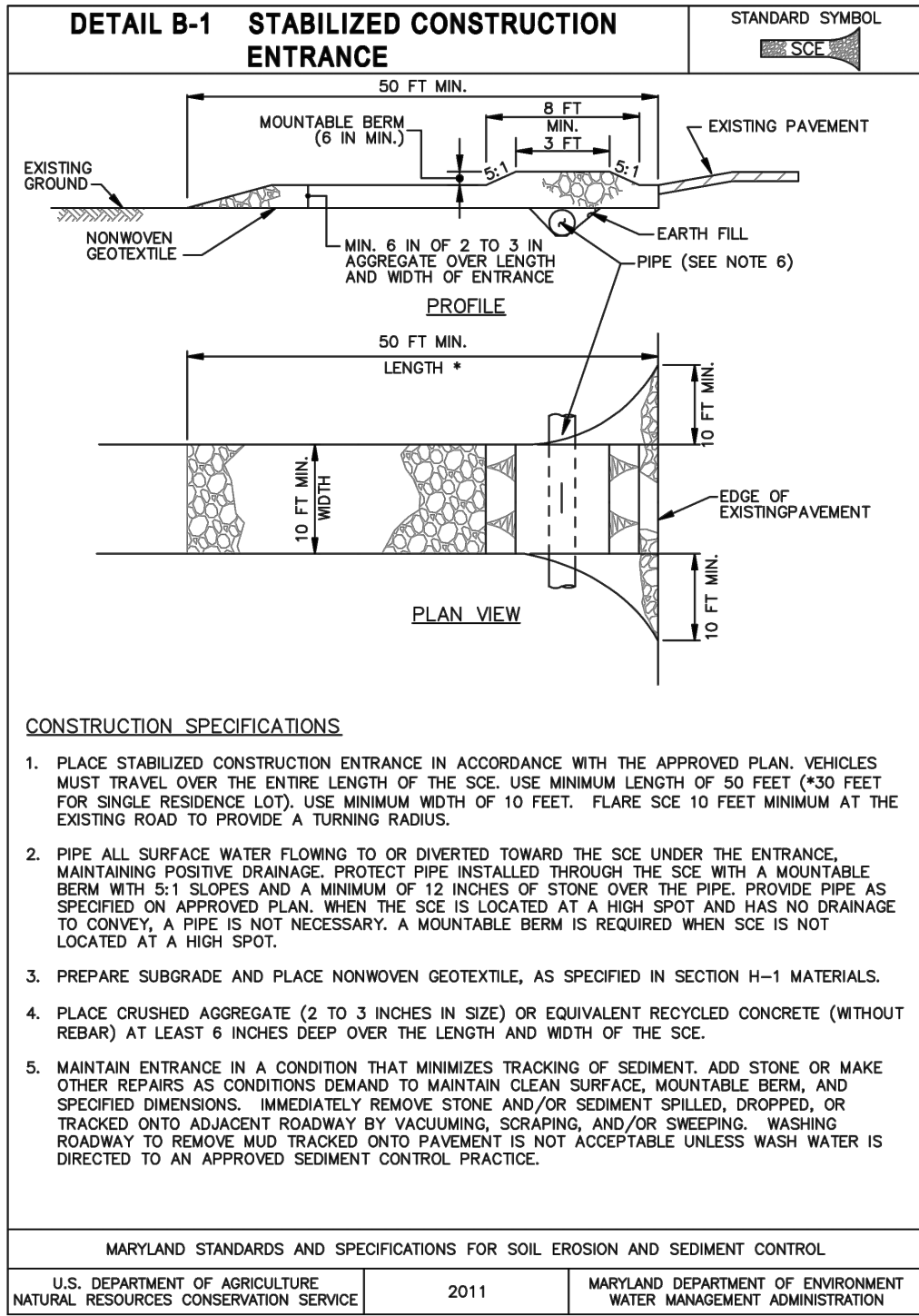
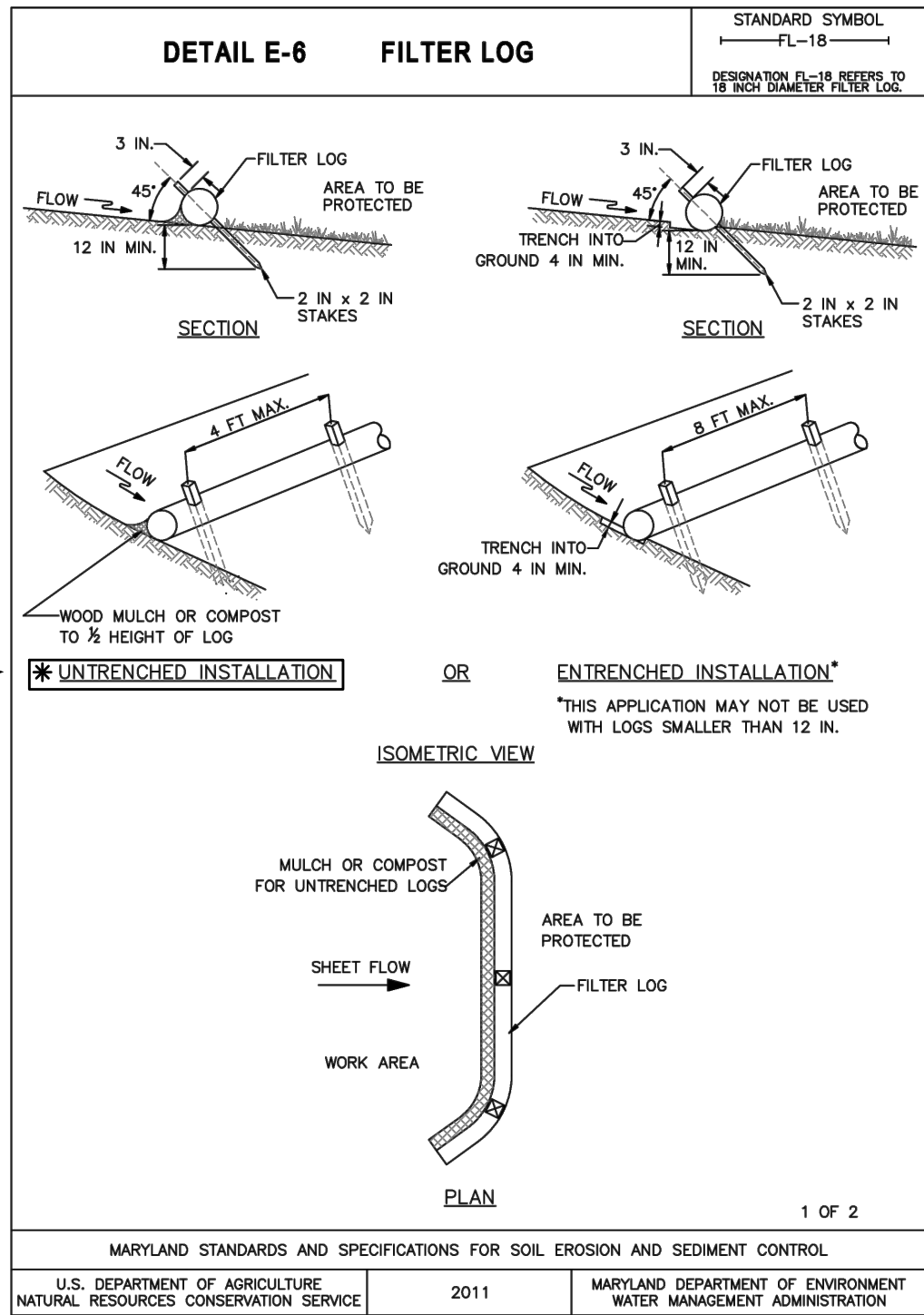
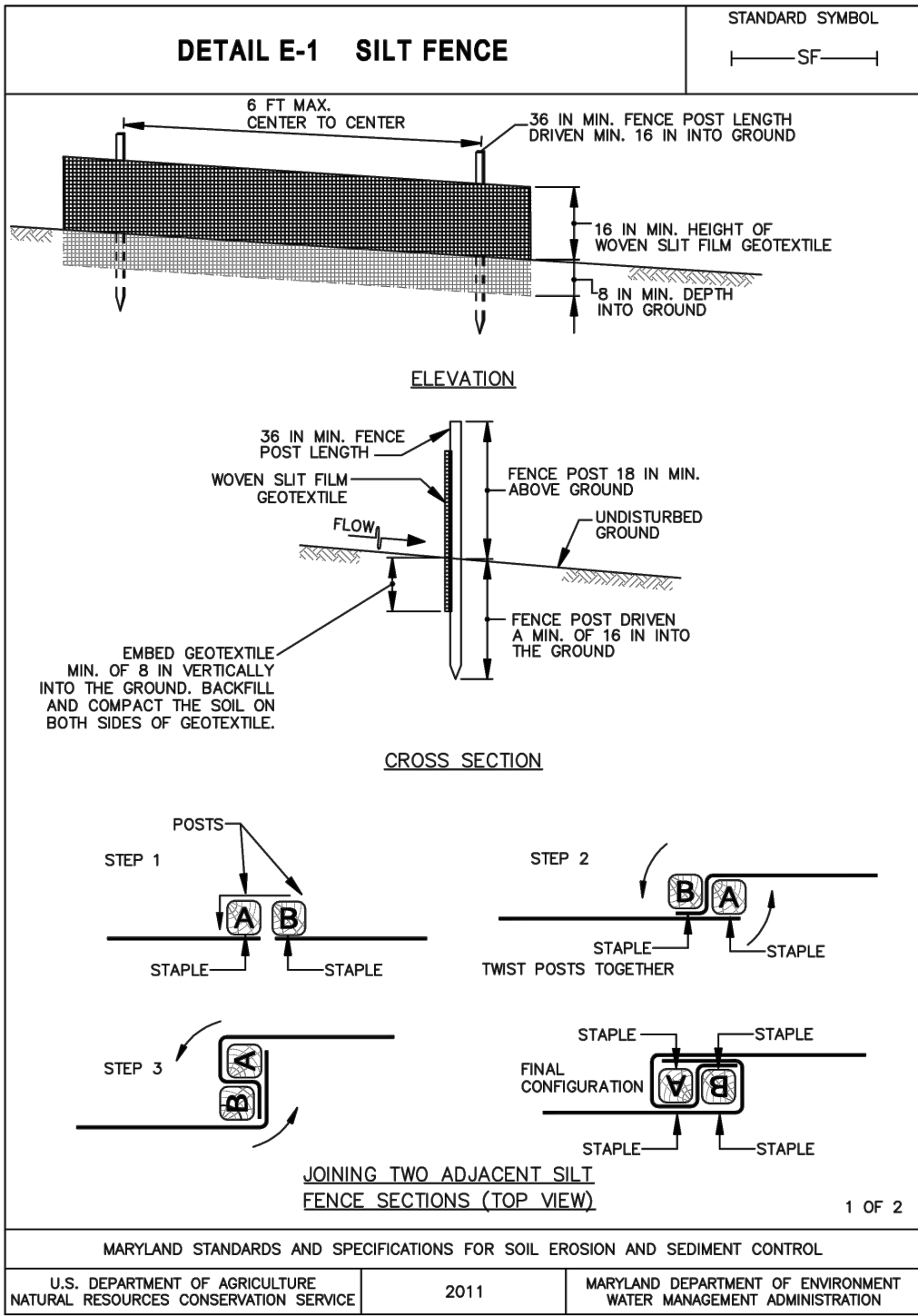
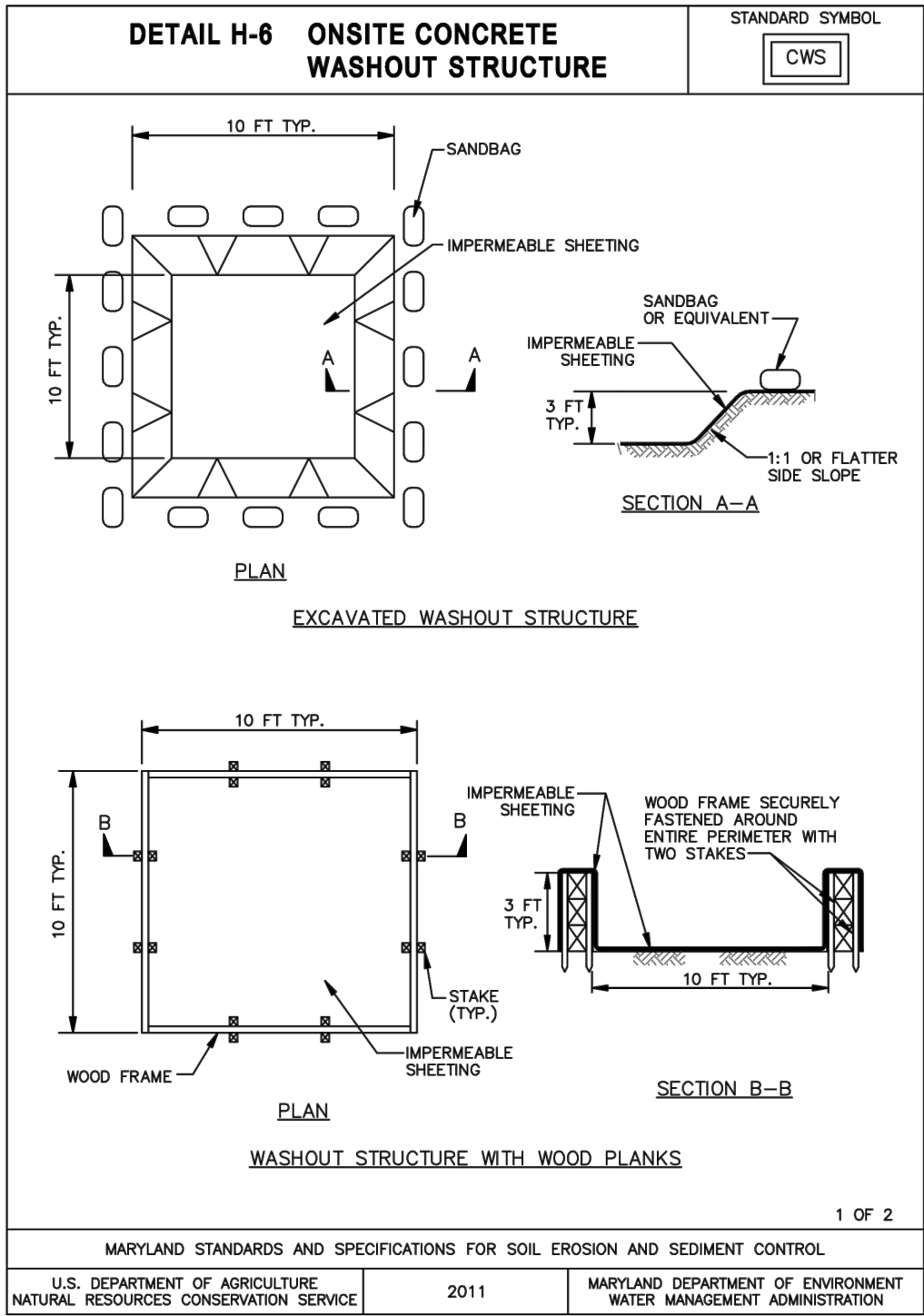
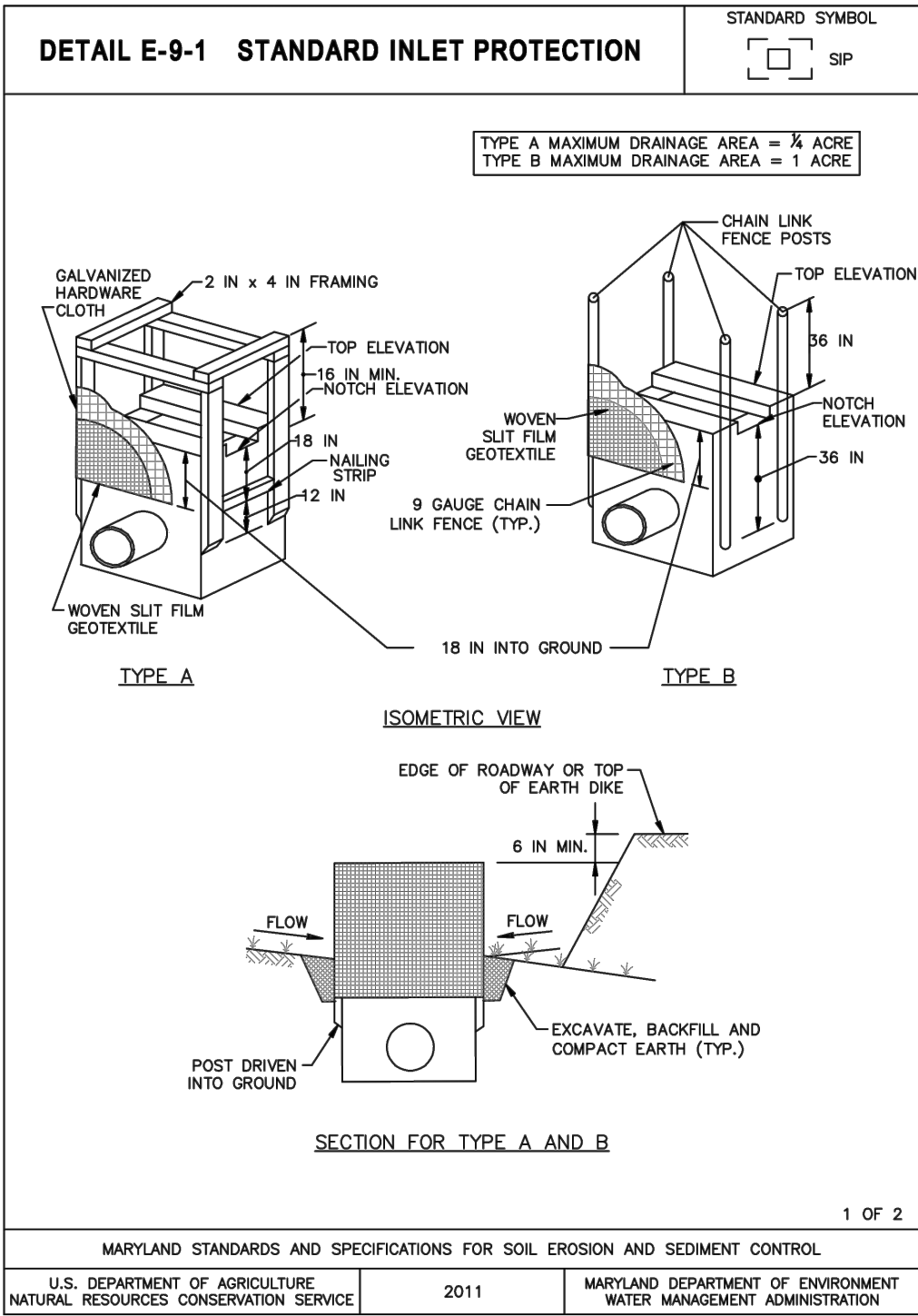
ISSUED FOR PROCUREMENT ON		
REVISIONS		
Rev. No.	Date	Description
1	12/20/18	Design Development
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3	06/04/19	Final Design Development

Silver Spring Intermediate Neighborhood Park
7801 Chicago Ave, Takoma Park, MD 20912
EROSION AND SEDIMENT CONTROL PLAN
PLAN NUMBER: 42019125E
TAX MAP: JN342
WSSC GRID: 209NW01

DWG. # ____ of ____
C-400
SHT. # ____ of ____

ESC/SWM SHEET X OF X






*NOTE: CONTRACTOR TO USE UNTRENCHED INSTALLATION OF FILTER LOG

ESC/SWM SHEET X OF X

LSG LANDSCAPE ARCHITECTURE			DESIGN		
Designer's Name DAVE NORDEN	Landscape Architect	Date	Checked By:		
Address 1775 GREENSBORO STATION PLACE, SUITE 110	Architect	Date	Checked By:		
City/State/Zip TYSONS, VIRGINIA, 22102	CLARK AZAR & ASSOCIATES	2/6/19	DC		
Telephone Number 703-821-2045	Engineer	Date	Checked By:		
	SL ME	2/6/19	DC		
	Drawn by	Date	Checked By:		

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License No. 31168	
Expiration Date 01/12/2021	
	2/6/19



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Silver Spring, Maryland 20901
(301) 495-2535

REVIEW AND APPROVAL		ISSUED FOR PROCUREMENT ON _____	
		REVISIONS	
Project Manager	Date	1	12/20/18 Design Development
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Park Manager	Date	3	06/04/19 Final Design Development

Silver Spring Intermediate Neighborhood Park
7801 Chicago Ave, Takoma Park, MD 20912

EROSION AND SEDIMENT CONTROL DETAILS

PLAN NUMBER: 42019125E
TAX MAP: JN342
WSSC GRID: 209NW01

DWG. # ____ of ____

C-410

SHT. # ____ of ____

FINAL SCANNED:

PLAN SCANNED:

PARK CODE: C10

Plotted By: Matt Edlmon, 6/10/2019 2:48 PM, _NCS-Fullcdo

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1. THE PERMITTEE SHALL NOTIFY THE DEPARTMENT OF PERMITTING SERVICES (DPS) FORTY-EIGHT (48) HOURS BEFORE COMMENCING ANY LAND DISTURBING ACTIVITY AND, UNLESS WAIVED BY THE DEPARTMENT, SHALL BE REQUIRED TO HOLD A PRE-CONSTRUCTION MEETING BETWEEN THEM OR THEIR REPRESENTATIVE, THEIR ENGINEER AND AN AUTHORIZED REPRESENTATIVE OF THE DEPARTMENT.

2. THE PERMITTEE MUST OBTAIN INSPECTION AND APPROVAL BY DPS AT THE FOLLOWING POINTS:

A. AT THE REQUIRED PRE-CONSTRUCTION MEETING.

B. DURING THE INSTALLATION OF SEDIMENT CONTROL MEASURES AND PRIOR TO ANY OTHER LAND DISTURBING ACTIVITY.

C. DURING THE INSTALLATION OF A SEDIMENT BASIN OR STORMWATER MANAGEMENT STRUCTURE AT THE REQUIRED INSPECTION POINTS (SEE INSPECTION CHECKLIST ON PLAN). NOTIFICATION PRIOR TO COMMENCING CONSTRUCTION IS MANDATORY AND MUST BE OBTAINED FROM THE DEPARTMENT.

D. PRIOR TO REMOVAL OR MODIFICATION OF ANY SEDIMENT CONTROL STRUCTURE(S).

E. PRIOR TO FINAL ACCEPTANCE.

3. THE PERMITTEE SHALL CONSTRUCT ALL EROSION AND SEDIMENT CONTROL MEASURES PER THE APPROVED PLAN AND CONSTRUCTION SEQUENCE, SHALL HAVE THEM INSPECTED AND APPROVED BY THE DEPARTMENT PRIOR TO BEGINNING ANY OTHER LAND DISTURBANCES, SHALL ENSURE THAT ALL RUNOFF FROM DISTURBED AREAS IS DIRECTED TO THE EROSION AND SEDIMENT CONTROL DEVICES, AND SHALL NOT REMOVE ANY EROSION OR SEDIMENT CONTROL MEASUREMENTS WITHOUT PRIOR PERMISSION FROM THE DEPARTMENT.

4. THE PERMITTEE SHALL PROTECT ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS TO PREVENT THE DEPOSITION OF MATERIALS ONTO TRAVERSED PUBLIC THOROUGHFARE(S). ALL MATERIALS DEPOSITED ONTO PUBLIC THOROUGHFARE(S) SHALL BE REMOVED IMMEDIATELY.

5. THE PERMITTEE SHALL INSPECT PERIODICALLY AND MAINTAIN CONTINUOUSLY IN EFFECTIVE OPERATING CONDITION, ALL EROSION AND SEDIMENT CONTROL MEASURES UNTIL SUCH TIME AS THEY ARE REMOVED WITH PRIOR PERMISSION FROM THE DEPARTMENT. THE PERMITTEE IS RESPONSIBLE FOR IMMEDIATELY REPAIRING OR REPLACING ANY SEDIMENT CONTROL MEASURES WHICH HAVE BEEN DAMAGED OR REMOVED BY THE PERMITTEE OR ANY OTHER PERSON.

6. FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION MUST BE COMPLETED WITHIN:

A) THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1); AND

B) SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING. ALL AREAS DISTURBED OUTSIDE OF THE PERIMETER SEDIMENT CONTROL SYSTEM MUST BE MINIMIZED AND STABILIZED IMMEDIATELY. MAINTENANCE MUST BE PERFORMED AS NECESSARY TO ENSURE CONTINUED STABILIZATION.

7. THE PERMITTEE SHALL APPLY SOD, SEED, AND ANCHORED STRAW MULCH, OR OTHER APPROVED STABILIZATION MEASURES TO ALL DISTURBED AREAS WITHIN SEVEN (7) CALENDAR DAYS AFTER STRIPPING AND GRADING ACTIVITIES HAVE CEASED ON THAT AREA. MAINTENANCE SHALL BE PERFORMED AS NECESSARY TO ENSURE CONTINUED STABILIZATION. ACTIVE CONSTRUCTION AREAS SUCH AS BORROW OR STOCKPILE AREAS, ROADWAY IMPROVEMENTS, AND AREAS WITHIN FIFTY (50) FEET OF A BUILDING UNDER CONSTRUCTION MAY BE EXEMPT FROM THIS REQUIREMENT, PROVIDED THAT EROSION AND SEDIMENT CONTROL MEASURES ARE INSTALLED AND MAINTAINED TO PROTECT THOSE AREAS.

8. PRIOR TO REMOVAL OF SEDIMENT CONTROL MEASURES, THE PERMITTEE SHALL STABILIZE ALL CONTRIBUTORY DISTURBED AREAS WITH REQUIRED SOIL AMENDMENTS AND TOPSOIL, USING SOD OR AN APPROVED PERMANENT SEED MIXTURE AND AN APPROVED ANCHORED MULCH. WOOD FIBER MULCH MAY ONLY BE USED IN SEEDING SEASON WHEN THE SLOPE DOES NOT EXCEED 10% AND GRADING HAS BEEN DONE TO PROMOTE SHEET FLOW DRAINAGE AREAS BROUGHT TO FINISHED GRADE DURING THE SEEDING SEASON SHALL BE PERMANENTLY STABILIZED WITHIN SEVEN (7) CALENDAR DAYS OF ESTABLISHMENT. WHEN PROPERTY IS BROUGHT TO FINISHED GRADE DURING THE MONTHS OF NOVEMBER THROUGH FEBRUARY, AND PERMANENT STABILIZATION IS FOUND TO BE IMPRACTICAL, AN APPROVED TEMPORARY SEED AND STRAW ANCHORED MULCH SHALL BE APPLIED TO DISTURBED AREAS. THE FINAL PERMANENT STABILIZATION OF SUCH PROPERTY SHALL BE COMPLETED PRIOR TO THE FOLLOWING APRIL 15.

9. THE SITE PERMIT, WORK, MATERIALS, APPROVED SC/SM PLANS, AND TEST REPORTS SHALL BE AVAILABLE AT THE SITE FOR INSPECTION BY DULY AUTHORIZED OFFICIALS OF MONTGOMERY COUNTY.

10. SURFACE DRAINAGE FLOWS OVER UNSTABILIZED CUT AND FILL SLOPES SHALL BE CONTROLLED BY EITHER PREVENTING DRAINAGE FLOWS FROM TRAVERSING THE SLOPES OR BY INSTALLING MECHANICAL DEVICES TO LOWER THE WATER DOWN SLOPE WITHOUT CAUSING EROSION. DIKES SHALL BE INSTALLED AND MAINTAINED AT THE TOP OF CUT OR FILL SLOPES UNTIL THE SLOPE AND DRAINAGE AREA TO IT ARE FULLY STABILIZED, AT WHICH TIME THEY MUST BE REMOVED AND FINAL GRADING DONE TO PROMOTE SHEET FLOW DRAINAGE. MECHANICAL DEVICES MUST BE PROVIDED AT POINTS OF CONCENTRATED FLOW WHERE EROSION IS LIKELY TO OCCUR.

11. PERMANENT SWALES OR OTHER POINTS OF CONCENTRATED WATER FLOW SHALL BE STABILIZED WITHIN 3 CALENDAR DAYS OF ESTABLISHMENT WITH SOD OR SEED WITH AN APPROVED EROSION CONTROL MATTING OR BY OTHER APPROVED STABILIZATION MEASURES.

12. SEDIMENT CONTROL DEVICES SHALL BE REMOVED, WITH PERMISSION OF THE DEPARTMENT, WITHIN THIRTY (30) CALENDAR DAYS FOLLOWING ESTABLISHMENT OF PERMANENT STABILIZATION IN ALL CONTRIBUTORY DRAINAGE AREAS. STORMWATER MANAGEMENT STRUCTURES USED TEMPORARILY FOR SEDIMENT CONTROL SHALL BE CONVERTED TO THE PERMANENT CONFIGURATION WITHIN THIS TIME PERIOD AS WELL.

13. NO PERMANENT CUT OR FILL SLOPE WITH A GRADIENT STEEPER THAN 3:1 WILL BE PERMITTED IN LAWN MAINTENANCE AREAS OR ON RESIDENTIAL LOTS. A SLOPE GRADIENT OF UP TO 2:1 WILL BE PERMITTED IN NONMAINTENANCE AREAS PROVIDED THAT THOSE AREAS ARE INDICATED ON THE EROSION AND SEDIMENT CONTROL PLAN WITH A LOW-MAINTENANCE GROUND COVER SPECIFIED FOR PERMANENT STABILIZATION. SLOPE GRADIENT STEEPER THAN 2:1 WILL NOT BE PERMITTED WITH VEGETATIVE STABILIZATION

14. THE PERMITTEE SHALL INSTALL A SPLASHBLOCK AT THE BOTTOM OF EACH DOWNSPOUT UNLESS THE DOWNSPOUT IS CONNECTED BY A DRAIN LINE TO AN ACCEPTABLE OUTLET.

15. FOR FINISHED GRADING, THE PERMITTEE SHALL PROVIDE ADEQUATE GRADIENTS SO AS TO PREVENT WATER FROM STANDING ON THE SURFACE OF LAWNS MORE THAN TWENTY-FOUR (24) HOURS AFTER THE END OF A RAINFALL, EXCEPT IN DESIGNATED DRAINAGE COURSES AND SWALE FLOW AREAS, WHICH MAY DRAIN AS LONG AS FORTY-EIGHT (48) HOURS AFTER THE END OF A RAINFALL.

16. SEDIMENT TRAPS OR BASINS ARE NOT PERMITTED WITHIN 20 FEET OF A BUILDING WHICH IS EXISTING OR UNDER CONSTRUCTION. NO BUILDING MAY BE CONSTRUCTED WITHIN 20 FEET OF A SEDIMENT TRAP OR BASIN.

17. ALL INLETS IN NON-SUMP AREAS SHALL HAVE ASPHALT BERMES INSTALLED AT THE TIME OF BASE PAVING ESTABLISHMENT.

18. THE SEDIMENT CONTROL INSPECTOR HAS THE OPTION OF REQUIRING ADDITIONAL SEDIMENT CONTROL MEASURES, AS DEEMED NECESSARY.

19. ALL TRAP ELEVATIONS ARE RELATIVE TO THE OUTLET ELEVATION, WHICH MUST BE ON EXISTING UNDISTURBED GROUND.

20. VEGETATIVE STABILIZATION SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.

21. SEDIMENT TRAP(S)/BASIN(S) SHALL BE CLEANED OUT AND RESTORED TO THE ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO THE POINT OF ONE-HALF (1/2) THE NET STORAGE DEPTH OF THE TRAP/BASIN (1/4 THE NET STORAGE DEPTH FOR ST-II) OR WHEN REQUIRED BY THE SEDIMENT CONTROL INSPECTOR.

22. SEDIMENT REMOVED FROM TRAPS/BASINS SHALL BE PLACED AND STABILIZED IN APPROVED AREAS, BUT NOT WITHIN A FLOODPLAIN.

23. ALL SEDIMENT BASINS AND TRAPS MUST BE SURROUNDED WITH A WELDED WIRE SAFETY FENCE. THE FENCE MUST BE AT LEAST 42 INCHES HIGH, HAVE POSTS SPACED NO FARTHER APART THAN 8 FEET, HAVE MESH OPENINGS NO GREATER IN WIDTH AND FOUR INCHES IN HEIGHT, WITH A MINIMUM OF 14 GAUGE WIRE. SAFETY FENCE MUST BE MAINTAINED IN GOOD CONDITION AT ALL TIMES.

24. NO EXCAVATION IN THE AREAS OF EXISTING UTILITIES IS PERMITTED UNLESS THEIR LOCATION HAS BEEN DETERMINED. CALL "MISS UTILITY" AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF WORK.

25. OFF-SITE SPOIL OR BORROW AREAS MUST HAVE PRIOR APPROVAL BY DPS.

26. SEDIMENT TRAP/BASIN DEWATERING FOR CLEANOUT OR REPAIR MAY ONLY BE DONE WITH THE DPS INSPECTOR'S PERMISSION. THE INSPECTOR MUST APPROVE THE DEWATERING METHOD FOR EACH APPLICATION. THE FOLLOWING METHODS MAY BE CONSIDERED:

A. PUMP DISCHARGE MAY BE DIRECTED TO ANOTHER ON-SITE SEDIMENT TRAP OR BASIN, PROVIDED IT IS OF SUFFICIENT VOLUME AND THE PUMP INTAKE IS FLOATED TO PREVENT AGITATION OR SUCTION OF DEPOSITED SEDIMENTS; OR

B. THE PUMP INTAKE MAY UTILIZE A REMOVABLE PUMPING STATION AND MUST DISCHARGE INTO AN UNDISTURBED AREA THROUGH A NON-EROSIVE OUTLET; OR

C. THE PUMP INTAKE MAY BE FLOATED AND DISCHARGE INTO A DIRT BAG (12 OZ. NON-WOVEN FABRIC), OR APPROVED EQUIVALENT, LOCATED IN AN UNDISTURBED BUFFER AREA.

REMEMBER: DEWATERING OPERATION AND METHOD MUST HAVE PRIOR APPROVAL BY THE DPS INSPECTOR.

27. THE PERMITTEE MUST NOTIFY THE DEPARTMENT OF ALL UTILITY CONSTRUCTION ACTIVITIES WITHIN THE PERMITTED LIMITS OF DISTURBANCE PRIOR TO THE COMMENCEMENT OF THOSE ACTIVITIES.

28. TOPSOIL MUST BE APPLIED TO ALL PVIOUS AREAS WITHIN THE LIMITS OF DISTURBANCE PRIOR TO PERMANENT STABILIZATION IN ACCORDANCE WITH MDE STANDARDS AND SPECIFICATIONS FOR SOIL PREPARATION, TOPSOILING, AND SOIL AMENDMENTS.

SOIL PREPARATION, TOPSOILING, AND SOIL AMENDMENTS

A. SOIL PREPARATION

1. TEMPORARY STABILIZATION

A. SEEDBED PREPARATION CONSISTS OF LOOSENING SOIL TO A DEPTH OF 3 TO 5 INCHES BY MEANS OF SUITABLE AGRICULTURAL OR CONSTRUCTION EQUIPMENT, SUCH AS DISC HARROWS OR CHISEL PLOWS OR RIPPER MOUNTED ON CONSTRUCTION EQUIPMENT, AFTER THE SOIL IS LOOSENEED, IT MUST NOT BE ROLLED OR DRAGGED SMOOTH BUT LEFT IN THE RECOMMENDED CONDITION. SLOPES 3:1 OR FLATTER ARE TO BE TRACKED WITH RIDGES RUNNING PARALLEL TO THE CONTOUR OF THE SLOPE.

B. APPLY FERTILIZER AND LIME AS PRESCRIBED ON THE PLANS.

C. INCORPORATE LIME AND FERTILIZER INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS.

2. PERMANENT STABILIZATION

A. A SOIL TEST IS REQUIRED FOR ANY EARTH DISTURBANCE OF 5 ACRES OR MORE. THE MINIMUM SOIL CONDITIONS REQUIRED FOR PERMANENT VEGETATIVE ESTABLISHMENT ARE:

I. SOIL PH BETWEEN 6.0 AND 7.0.

II. SOLUBLE SALTS LESS THAN 500 PARTS PER MILLION (PPM).

III. SOIL CONTAINS LESS THAN 40 PERCENT CLAY BUT ENOUGH FINE GRAINED MATERIAL (GREATER THAN 30 PERCENT SILT PLUS CLAY) TO PROVIDE THE CAPACITY TO HOLD A MODERATE AMOUNT OF MOISTURE. AN EXCEPTION: IF LOVEGRASS WILL BE PLANTED, THEN A SANDY SOIL (LESS THAN 30 PERCENT SILT PLUS CLAY) WOULD BE ACCEPTABLE.

IV. SOIL CONTAINS 1.5 PERCENT MINIMUM ORGANIC MATTER BY WEIGHT.

V. SOIL CONTAINS SUFFICIENT PORE SPACE TO PERMIT ADEQUATE ROOT PENETRATION.

B. APPLICATION OF AMENDMENTS OR TOPSOIL IS REQUIRED IF ON-SITE SOILS DO NOT MEET THE ABOVE CONDITIONS.

C. GRADED AREAS MUST BE MAINTAINED IN A TRUE AND EVEN GRADE AS SPECIFIED ON THE APPROVED PLAN, THEN SCARIFIED OR OTHERWISE LOOSENEED TO A DEPTH OF 3 TO 5 INCHES.

D. APPLY SOIL AMENDMENTS AS SPECIFIED ON THE APPROVED PLAN OR AS INDICATED BY THE RESULTS OF A SOIL TEST.

E. MIX SOIL AMENDMENTS INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS. RAKE LAWN AREAS TO SMOOTH THE SURFACE, REMOVE LARGE OBJECTS LIKE STONES AND BRANCHES, AND READY THE AREA FOR SEED APPLICATION. LOOSEN SURFACE SOIL BY DRAGGING WITH A HEAVY CHAIN OR OTHER EQUIPMENT TO ROUGHEN THE SURFACE, WHERE SITE CONDITIONS WILL NOT PERMIT NORMAL SEEDBED PREPARATION. TRACK SLOPES 3:1 OR FLATTER WITH TRACKED EQUIPMENT LEAVING THE SOIL IN AN IRREGULAR CONDITION WITH RIDGES RUNNING PARALLEL TO THE CONTOUR OF THE SLOPE. LEAVE THE TOP 1 TO 3 INCHES OF SOIL LOOSE AND FRABLE. SEEDBED LOOSENING MAY BE UNNECESSARY ON NEWLY DISTURBED AREAS.

B. TOPSOILING

1. TOPSOIL IS PLACED OVER PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION. THE PURPOSE IS TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH. SOILS OF CONCERN HAVE LOW MOISTURE CONTENT, LOW NUTRIENT LEVELS, LOW PH, MATERIALS TOXIC TO PLANTS, AND/OR UNACCEPTABLE SOIL GRADATION.

2. TOPSOIL SALVAGED FROM AN EXISTING SITE MAY BE USED PROVIDED IT MEETS THE STANDARDS AS SET FORTH IN THESE SPECIFICATIONS. TYPICALLY, THE DEPTH OF TOPSOIL TO BE SALVAGED FOR A GIVEN SOIL TYPE CAN BE FOUND IN THE REPRESENTATIVE SOIL PROFILE SECTION IN THE SOIL SURVEY PUBLISHED BY USDA-NRCS.

3. TOPSOILING IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES WHERE:

A. THE TEXTURE OF THE EXPOSED SUBSOIL/PARENT MATERIAL IS NOT ADEQUATE TO PRODUCE VEGETATIVE GROWTH.

B. THE SOIL MATERIAL IS SO SHALLOW THAT THE ROOTING ZONE IS NOT DEEP ENOUGH TO SUPPORT PLANTS OR FURNISH CONTINUING SUPPLIES OF MOISTURE AND PLANT NUTRIENTS.

C. THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH.

D. THE SOIL IS SO ACIDIC THAT TREATMENT WITH LIMESTONE IS NOT FEASIBLE.

4. AREAS HAVING SLOPES STEEPER THAN 2:1 REQUIRE SPECIAL CONSIDERATION AND DESIGN.

5. TOPSOIL SPECIFICATIONS: SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING CRITERIA:

A. TOPSOIL MUST BE A LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY CLAY LOAM, OR LOAMY SAND. OTHER SOILS MAY BE USED IF RECOMMENDED BY AN AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY. TOPSOIL MUST NOT BE A MIXTURE OF CONTRASTING TEXTURED SUBSOILS AND MUST CONTAIN LESS THAN 5 PERCENT BY VOLUME OF CINDERS, STONES, SLAG, COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS, TRASH, OR OTHER MATERIALS LARGER THAN 1½ INCHES IN DIAMETER.

B. TOPSOIL MUST BE FREE OF NOXIOUS PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, QUACK GRASS, JOHNSON GRASS, NUT SEDGE, POISON IVY, THISTLE, OR OTHERS AS SPECIFIED.

C. TOPSOIL SUBSTITUTES OR AMENDMENTS, AS RECOMMENDED BY A QUALIFIED AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY, MAY BE USED IN LIEU OF NATURAL TOPSOIL.

6. TOPSOIL APPLICATION

A. EROSION AND SEDIMENT CONTROL PRACTICES MUST BE MAINTAINED WHEN APPLYING TOPSOIL.

B. UNIFORMLY DISTRIBUTE TOPSOIL IN A 5 TO 8 INCH LAYER AND LIGHTLY COMPACT TO A MINIMUM THICKNESS OF 4 INCHES. SPREADING IS TO BE PERFORMED IN SUCH A MANNER THAT SODDING OR SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL SOIL PREPARATION AND TILLAGE. ANY IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOILING OR OTHER OPERATIONS MUST BE CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER POCKETS.

C. TOPSOIL MUST NOT BE PLACED IF THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBSOIL IS EXCESSIVELY WET OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDBED PREPARATION.

C. SOIL AMENDMENTS (FERTILIZER AND LIME SPECIFICATIONS)

1. SOIL TESTS MUST BE PERFORMED TO DETERMINE THE EXACT RATIOS AND APPLICATION RATES FOR BOTH LIME AND FERTILIZER ON SITES HAVING DISTURBED AREAS OF 5 ACRES OR MORE. SOIL ANALYSIS MAY BE PERFORMED BY A RECOGNIZED PRIVATE OR COMMERCIAL LABORATORY. SOIL SAMPLES TAKEN FOR ENGINEERING PURPOSES MAY ALSO BE USED FOR CHEMICAL ANALYSES.

2. FERTILIZERS MUST BE UNIFORM IN COMPOSITION, FREE FLOWING AND SUITABLE FOR ACCURATE APPLICATION BY APPROPRIATE EQUIPMENT. MANURE MAY BE SUBSTITUTED FOR FERTILIZER WITH PRIOR APPROVAL FROM THE APPROPRIATE APPROVAL AUTHORITY. FERTILIZERS MUST ALL BE DELIVERED TO THE SITE FULLY LABELED ACCORDING TO THE APPLICABLE LAWS AND MUST BEAR THE NAME, TRADE NAME OR TRADEMARK AND WARRANTY OF THE PRODUCER.

3. LIME MATERIALS MUST BE GROUND LIMESTONE (HYDRATED OR BURNT LIME MAY BE SUBSTITUTED EXCEPT WHEN HYDROSEEDING) WHICH CONTAINS AT LEAST 50 PERCENT TOTAL OXIDES (CALCIUM OXIDE PLUS MAGNESIUM OXIDE). LIMESTONE MUST BE GROUND TO SUCH FINENESS THAT AT LEAST 50 PERCENT WILL PASS THROUGH A #100 MESH SIEVE AND 98 TO 100 PERCENT WILL PASS THROUGH A #20 MESH SIEVE.

4. LIME AND FERTILIZER ARE TO BE EVENLY DISTRIBUTED AND INCORPORATED INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS.

5. WHERE THE SUBSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS, SPREAD GROUND LIMESTONE AT THE RATE OF 4 TO 8 TONS/ACRE (200-400 POUNDS PER 1,000 SQUARE FEET) PRIOR TO THE PLACEMENT OF TOPSOIL.

SEEDING AND MULCHING

A. SEEDING

1. SPECIFICATIONS

A. ALL SEED MUST MEET THE REQUIREMENTS OF THE MARYLAND STATE SEED LAW. ALL SEED MUST BE SUBJECT TO RE-TESTING BY A RECOGNIZED SEED LABORATORY. ALL SEED USED MUST HAVE BEEN TESTED WITHIN THE 6 MONTHS IMMEDIATELY PRECEDING THE DATE OF SOWING SUCH MATERIAL ON ANY PROJECT. REFER TO TABLE B.4 REGARDING THE QUALITY OF SEED. SEED TAGS MUST BE AVAILABLE UPON REQUEST TO THE INSPECTOR TO VERIFY TYPE OF SEED AND SEEDING RATE.

B. MULCH ALONE MAY BE APPLIED BETWEEN THE FALL AND SPRING SEEDING DATES ONLY IF THE GROUND IS FROZEN, THE APPROPRIATE SEEDING MIXTURE MUST BE APPLIED WHEN THE GROUND THAWS.

C. INOCULANTS: THE INOCULANT FOR TREATING LEGUME SEED IN THE SEED MIXTURES MUST BE A PURE CULTURE OF NITROGEN FIXING BACTERIA PREPARED SPECIFICALLY FOR THE SPECIES. INOCULANTS MUST NOT BE USED LATER THAN THE DATE INDICATED ON THE CONTAINER. ADD FRESH INOCULANTS AS DIRECTED ON THE PACKAGE. USE FOUR TIMES THE RECOMMENDED RATE WHEN HYDROSEEDING. NOTE: IT IS VERY IMPORTANT TO KEEP INOCULANT AS COOL AS POSSIBLE UNTIL USED. TEMPERATURES ABOVE 75 TO 80 DEGREES FAHRENHEIT CAN WEAKEN BACTERIA AND MAKE THE INOCULANT LESS EFFECTIVE.

D. SOD OR SEED MUST NOT BE PLACED ON SOIL WHICH HAS BEEN TREATED WITH SOIL STERILANTS OR CHEMICALS USED FOR WEED CONTROL UNTIL SUFFICIENT TIME HAS ELAPSED (14 DAYS MIN.) TO PERMIT DISSIPATION OF PHYTO-TOXIC MATERIALS.

2. APPLICATION

A. DRY SEEDING: THIS INCLUDES USE OF CONVENTIONAL DROP OR BROADCAST SPREADERS.

I. INCORPORATE SEED INTO THE SUBSOIL AT THE RATES PRESCRIBED ON TEMPORARY SEEDING TABLE B.1, PERMANENT SEEDING TABLE B.3, OR SITE-SPECIFIC SEEDING SUMMARIES.

II. APPLY SEED IN TWO DIRECTIONS, PERPENDICULAR TO EACH OTHER. APPLY HALF THE SEEDING RATE IN EACH DIRECTION, ROLL THE SEEDBED AREA WITH A WEIGHTED ROLLER TO PROVIDE GOOD SEED TO SOIL CONTACT.

B. DRILL OR CULPACKER SEEDING: MECHANIZED SEEDERS THAT APPLY AND COVER SEED WITH SOIL.

I. CULPACKING SEEDERS ARE REQUIRED TO BURY THE SEED IN SUCH A FASHION AS TO PROVIDE AT LEAST 1/4 INCH OF SOIL COVERING. SEEDBED MUST BE FIRMS AFTER PLANTING.

II. APPLY SEED IN TWO DIRECTIONS, PERPENDICULAR TO EACH OTHER. APPLY HALF THE SEEDING RATE IN EACH DIRECTION.

C. HYDROSEEDING: APPLY SEED UNIFORMLY WITH HYDROSEEDER (SLURRY INCLUDES SEED AND FERTILIZER).

I. IF FERTILIZER IS BEING APPLIED AT THE TIME OF SEEDING, THE APPLICATION RATES SHOULD NOT EXCEED THE FOLLOWING: NITROGEN, 100 POUNDS PER ACRE TOTAL OF SOLUBLE NITROGEN; P205 (PHOSPHOROUS), 200 POUNDS PER ACRE; K20 (POTASSIUM), 200 POUNDS PER ACRE.

II. LIME: USE ONLY GROUND AGRICULTURAL LIMESTONE (UP TO 3 TONS PER ACRE MAY BE APPLIED BY HYDROSEEDING). NORMALLY, NOT MORE THAN 2 TONS ARE APPLIED BY HYDROSEEDING AT ANY ONE TIME. DO NOT USE BURNT OR HYDRATED LIME WHEN HYDROSEEDING.

III. MIX SEED AND FERTILIZER ON SITE AND SEED IMMEDIATELY AND WITHOUT INTERRUPTION.

IV. WHEN HYDROSEEDING DO NOT INCORPORATE SEED INTO THE SOIL.

B. MULCHING

1. MULCH MATERIALS (IN ORDER OF PREFERENCE)

A. STRAW CONSISTING OF THOROUGHLY THRESHED WHEAT, RYE, OAT, OR BARLEY AND REASONABLY BRIGHT IN COLOR. STRAW IS TO BE FREE OF NOXIOUS WEED SEEDS AS SPECIFIED IN THE MARYLAND SEED LAW AND NOT MUSTY, MOLDY, CAKED, DECAYED, OR EXCESSIVELY DUSTY. NOTE: USE ONLY STERILE STRAW MULCH IN AREAS WHERE ONE SPECIES OF GRASS IS DESIRED.

B. WOOD CELLULOSE FIBER MULCH (WCFM) CONSISTING OF SPECIALLY PREPARED WOOD CELLULOSE PROCESSED INTO A UNIFORM FIBROUS PHYSICAL STATE.

I. WCFM IS TO BE DYED GREEN OR CONTAIN A GREEN DYE IN THE PACKAGE THAT WILL PROVIDE AN APPROPRIATE COLOR TO FACILITATE VISUAL INSPECTION OF THE UNIFORMLY SPREAD SLURRY.

II. WCFM, INCLUDING DYE, MUST CONTAIN NO GERMINATION OR GROWTH INHIBITING FACTORS.

III. WCFM MATERIALS ARE TO BE MANUFACTURED AND PROCESSED IN SUCH A MANNER THAT THE WOOD CELLULOSE FIBER MULCH WILL REMAIN IN UNIFORM SUSPENSION IN WATER UNDER AGITATION AND WILL BLEND WITH SEED, FERTILIZER AND OTHER ADDITIVES TO FORM A HOMOGENEOUS SLURRY. THE MULCH MATERIAL MUST FORM A BLOTTER-LIKE GROUND COVER, ON APPLICATION, HAVING MOISTURE ABSORPTION AND PERCOLATION PROPERTIES AND MUST COVER AND HOLD GRASS SEED IN CONTACT WITH THE SOIL WITHOUT INHIBITING THE GROWTH OF THE GRASS SEEDLINGS.

IV. WCFM MATERIAL MUST NOT CONTAIN ELEMENTS OR COMPOUNDS AT CONCENTRATION LEVELS THAT WILL BE PHYTO-TOXIC.

V. WCFM MUST CONFORM TO THE FOLLOWING PHYSICAL REQUIREMENTS: FIBER LENGTH OF APPROXIMATELY 10 MILLIMETERS, DIAMETER APPROXIMATELY 1 MILLIMETER, PH RANGE OF 4.0 TO 8.5, ASH CONTENT OF 1.6 PERCENT MAXIMUM AND WATER HOLDING CAPACITY OF 90 PERCENT MINIMUM.

2. APPLICATION

A. APPLY MULCH TO ALL SEEDBED AREAS IMMEDIATELY AFTER SEEDING.

B. WHEN STRAW MULCH IS USED, SPREAD IT OVER ALL SEEDBED AREAS AT THE RATE OF 2 TONS PER ACRE TO A UNIFORM LOOSE DEPTH OF 1 TO 2 INCHES. APPLY MULCH TO ACHIEVE A UNIFORM DISTRIBUTION AND DEPTH SO THAT THE SOIL SURFACE IS NOT EXPOSED. WHEN USING A MULCH ANCHORING TOOL, INCREASE THE APPLICATION RATE TO 2.5 TONS PER ACRE.

C. WOOD CELLULOSE FIBER USED AS MULCH MUST BE APPLIED AT A NET DRY WEIGHT OF 1500 POUNDS PER ACRE. MIX THE WOOD CELLULOSE FIBER WITH WATER TO ATTAIN A MIXTURE WITH A MAXIMUM OF 50 POUNDS OF WOOD CELLULOSE FIBER PER 100 GALLONS OF WATER.

3. ANCHORING

A. PERFORM MULCH ANCHORING IMMEDIATELY FOLLOWING APPLICATION OF MULCH TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS (LISTED BY PREFERENCE), DEPENDING UPON THE SIZE OF THE AREA AND EROSION HAZARD:

I. A MULCH ANCHORING TOOL IS A TRACTOR DRAWN IMPLEMENT DESIGNED TO PUNCH AND ANCHOR MULCH INTO THE SOIL SURFACE A MINIMUM OF 2 INCHES. THIS PRACTICE IS MOST EFFECTIVE ON LARGE AREAS, BUT IS LIMITED TO FLATTER SLOPES WHERE EQUIPMENT CAN OPERATE SAFELY. IF USED ON SLOPING LAND, THIS PRACTICE SHOULD FOLLOW THE CONTOUR.

II. WOOD CELLULOSE FIBER MAY BE USED FOR ANCHORING STRAW. APPLY THE FIBER BINDER AT A NET DRY WEIGHT OF 750 POUNDS PER ACRE. MIX THE WOOD CELLULOSE FIBER WITH WATER AT A MAXIMUM OF 50 POUNDS OF WOOD CELLULOSE FIBER PER 100 GALLONS OF WATER.

III. SYNTHETIC BINDERS SUCH AS ACRYLIC DLR (AGRO-TACK), DCA-70, PETROSET, TERRA TACK, OR TERRA TACK AR OR OTHER APPROVED EQUAL MAY BE USED. FOLLOW APPLICATION RATES AS SPECIFIED BY THE MANUFACTURER. APPLICATION OF LIQUID BINDERS NEEDS TO BE HEAVIER AT THE EDGES WHERE WIND CATCHES MULCH, SUCH AS IN VALLEYS AND ON CRESTS OF BANKS. USE OF ASPHALT BINDERS IS STRICTLY PROHIBITED.

IV. LIGHTWEIGHT PLASTIC NETTING MAY BE STAPLED OVER THE MULCH ACCORDING TO MANUFACTURER RECOMMENDATIONS. NETTING IS USUALLY AVAILABLE IN ROLLS 4 TO 15 FEET WIDE AND 300 TO 3,000 FEET LONG.

PERMANENT STABILIZATION

A. SEED MIXTURES

1. GENERAL USE

A. SELECT ONE OR MORE OF THE SPECIES OR MIXTURES LISTED IN TABLE B.3 FOR THE APPROPRIATE PLANT HARDINESS ZONE (FROM FIGURE B.3) AND BASED ON THE SITE CONDITION OR PURPOSE FOUND ON TABLE B.2. ENTER SELECTED MIXTURE(S), APPLICATION RATES, AND SEEDING DATES IN THE PERMANENT SEEDING SUMMARY. THE SUMMARY IS TO BE PLACED ON THE PLAN.

B. ADDITIONAL PLANTING SPECIFICATIONS FOR EXCEPTIONAL SITES SUCH AS SHORELINES, STREAM BANKS, OR DUNES OR FOR SPECIAL PURPOSES SUCH AS WILDLIFE OR AESTHETIC TREATMENT MAY BE FOUND IN USDA-NRCS TECHNICAL FIELD OFFICE GUIDE, SECTION 342 – CRITICAL AREA PLANTING.

C. FOR SITES HAVING DISTURBED AREA OVER 5 ACRES, USE AND SHOW THE RATES RECOMMENDED BY THE SOIL TESTING AGENCY.

D. FOR AREAS RECEIVING LOW MAINTENANCE, APPLY UREA FORM FERTILIZER (46-0-0) AT 3 ½ POUNDS PER 1000 SQUARE FEET (150 POUNDS PER ACRE) AT THE TIME OF SEEDING IN ADDITION TO THE SOIL AMENDMENTS SHOWN IN THE PERMANENT SEEDING SUMMARY .

2. TURFGRASS MIXTURES

A. AREAS WHERE TURFGRASS MAY BE DESIRED INCLUDE LAWNS, PARKS, PLAYGROUNDS, AND COMMERCIAL SITES WHICH WILL RECEIVE A MEDIUM TO HIGH LEVEL OF MAINTENANCE.

I. SELECT ONE OR MORE OF THE SPECIES OR MIXTURES LISTED BELOW BASED ON THE SITE CONDITIONS OR PURPOSE. ENTER SELECTED MIXTURE(S), APPLICATION RATES, AND SEEDING DATES IN THE PERMANENT SEEDING SUMMARY. THE SUMMARY IS TO BE PLACED ON THE PLAN.

I. KENTUCKY BLUEGRASS: FULL SUN MIXTURE: FOR USE IN AREAS THAT RECEIVE INTENSIVE MANAGEMENT. IRRIGATION REQUIRED IN THE AREAS OF CENTRAL MARYLAND AND EASTERN SHORE. RECOMMENDED CERTIFIED KENTUCKY BLUEGRASS CULTIVARS: SEEDING RATE: 1.5 TO 2.0 POUNDS PER 1000 SQUARE FEET. CHOOSE A MINIMUM OF THREE KENTUCKY BLUEGRASS CULTIVARS WITH EACH RANGING FROM 10 TO 35 PERCENT OF THE TOTAL MIXTURE BY WEIGHT.

II. KENTUCKY BLUEGRASS/PERENNIAL RYE: FULL SUN MIXTURE: FOR USE IN FULL SUN AREAS WHERE RAPID ESTABLISHMENT IS NECESSARY AND WHEN TURF WILL RECEIVE MEDIUM TO INTENSIVE MANAGEMENT. CERTIFIED PERENNIAL RYEGRASS CULTIVARS/CERTIFIED KENTUCKY BLUEGRASS SEEDING RATE: 2 POUNDS MIXTURE PER 1000 SQUARE FEET. CHOOSE A MINIMUM OF THREE KENTUCKY BLUEGRASS CULTIVARS WITH EACH RANGING FROM 10 TO 35 PERCENT OF THE TOTAL MIXTURE BY WEIGHT.

III. TALL FESCUE/KENTUCKY BLUEGRASS: FULL SUN MIXTURE: FOR USE IN DROUGHT PRONE AREAS AND/OR FOR AREAS RECEIVING LOW TO MEDIUM SHADE. RECOMMENDED CERTIFIED KENTUCKY BLUEGRASS CULTIVARS: CERTIFIED TALL FESCUE CULTIVARS 95 TO 100 PERCENT, CERTIFIED KENTUCKY BLUEGRASS CULTIVARS 0 TO 5 PERCENT. SEEDING RATE: 5 TO 8 POUNDS PER 1000 SQUARE FEET. ONE OR MORE CULTIVARS MAY BE BLENDED.

IV. KENTUCKY BLUEGRASS/FINE FESCUE: SHADE MIXTURE: FOR USE IN AREAS WITH SHADE IN BLUEGRASS LAWNS. FOR EST

LSG LANDSCAPE ARCHITECTURE	DESIGN			
Designer's Name DAVE NORDEN	Landscape Architect	Date	Checked By:	
Address 1775 GREENSBORO STATION PLACE, SUITE 110	Architect	Date	Checked By:	
City/State/Zip TYSONS, VIRGINIA, 22102	CLARK AZAR & ASSOCIATES	2/6/19	DC	
Telephone Number 703-821-2045	Engineer SL ME	Date 2/6/19	Checked By: DC	
	Drawn by	Date	Checked By:	

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.

License No. 31168

Expiration Date 01/12/2021



The Maryland-National Capital Park and Planning Commission

Montgomery County Department of Parks

9500 Brunnet Avenue

Silver Spring, Maryland 20901

(301) 495-2535

||
||
||

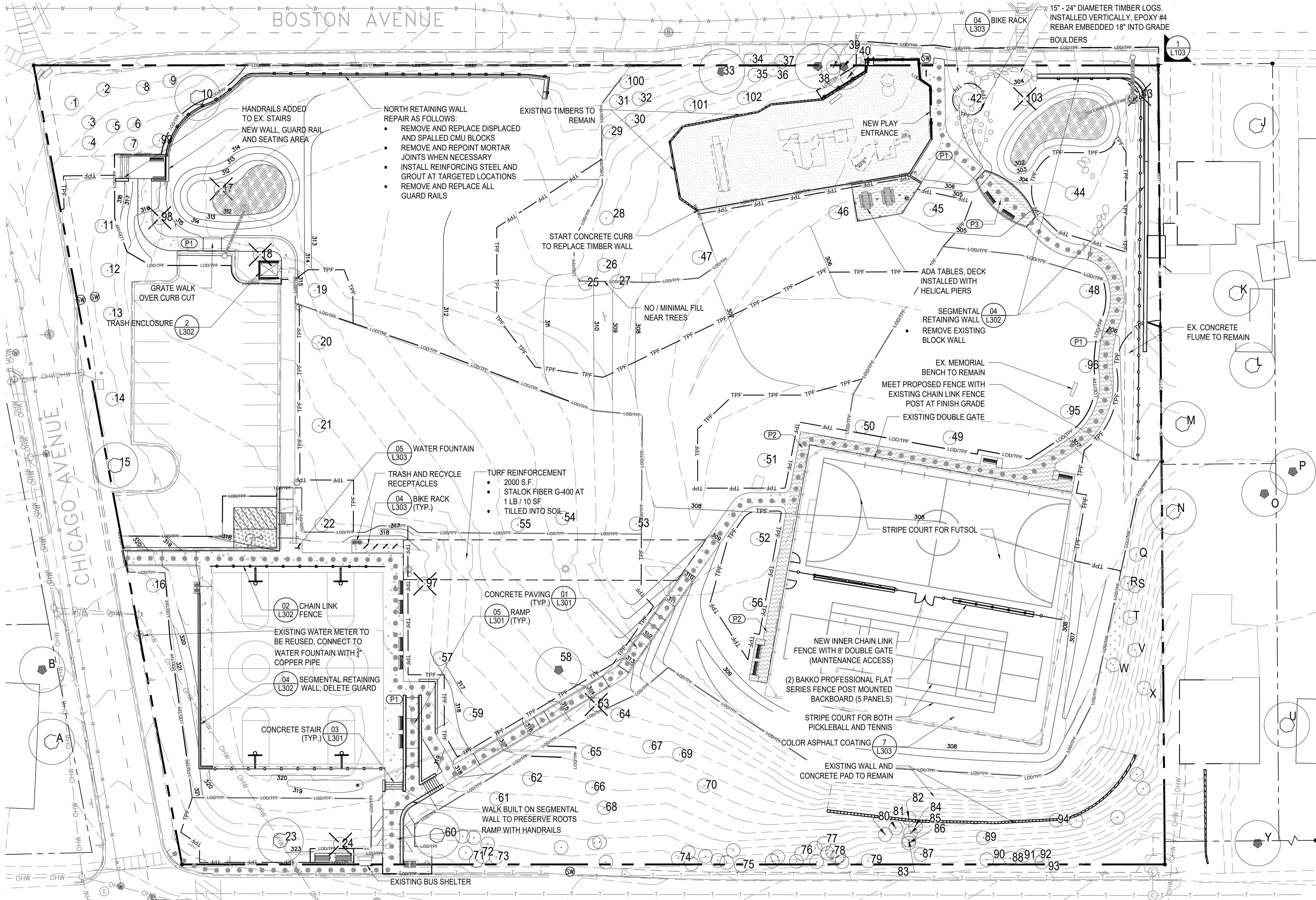
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PLAN SCANNED:

PARK CODE: C10

Plotted By: Matthew Stowell, 6/7/2019 9:56 AM, ----

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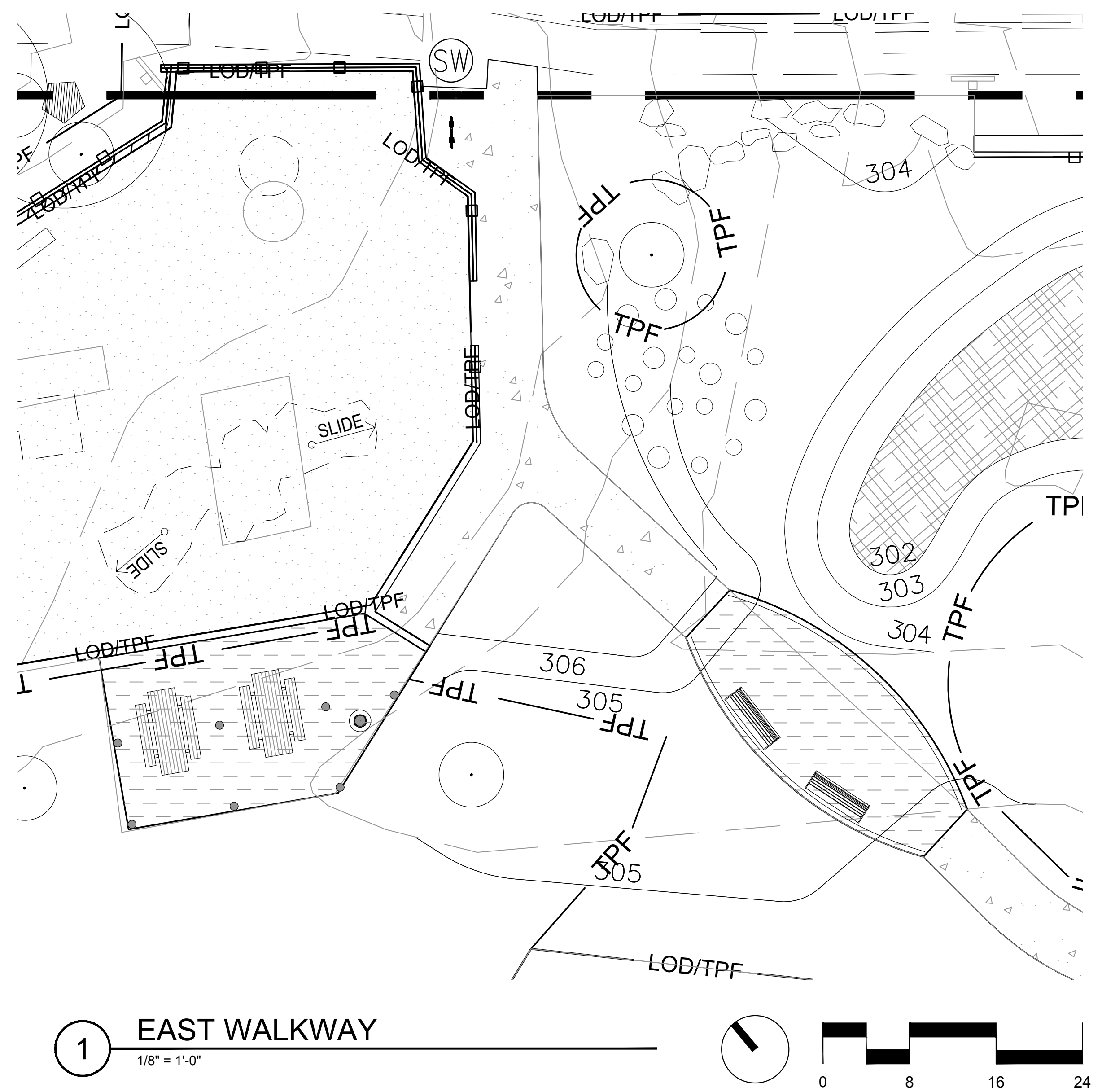
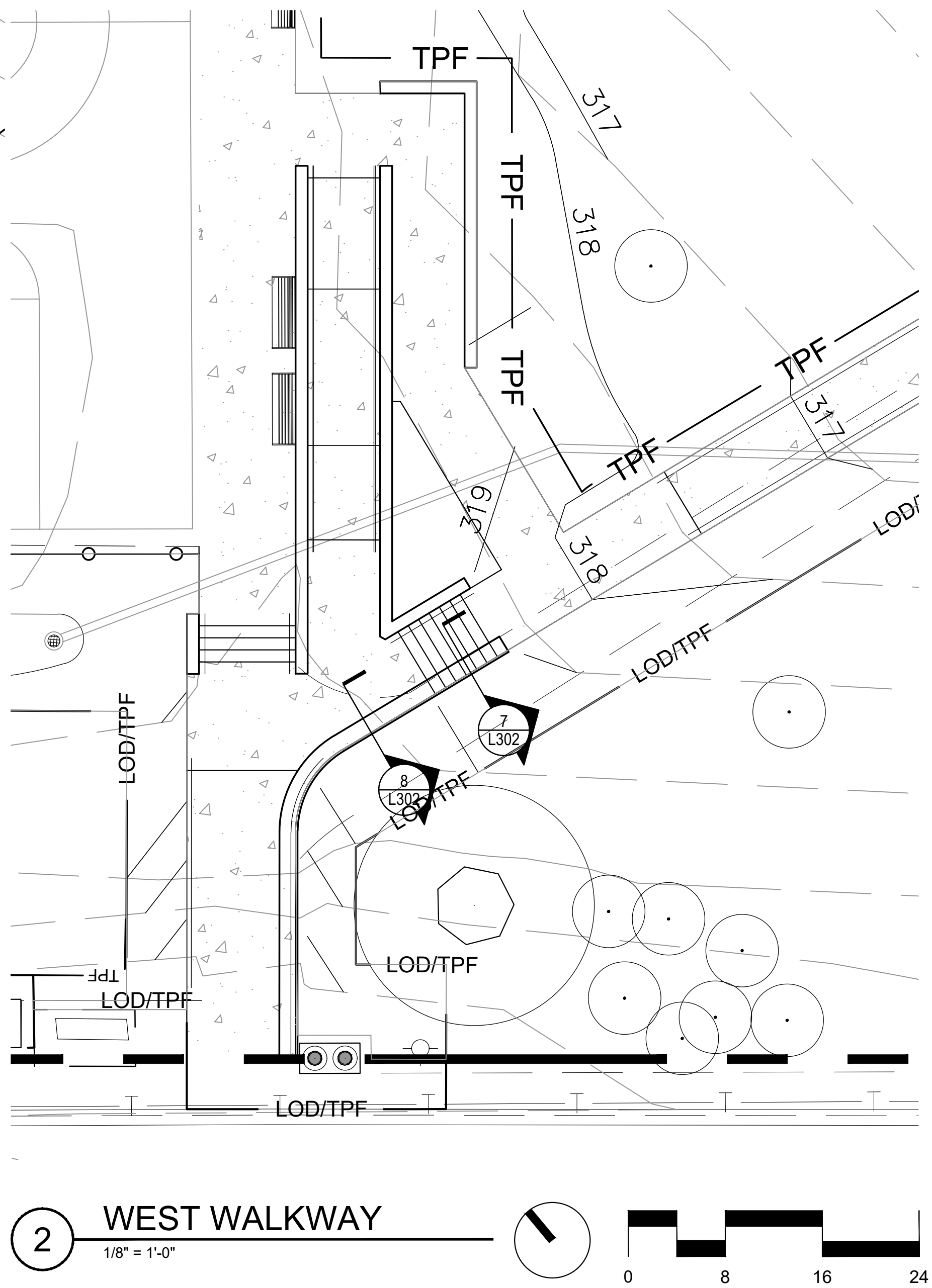
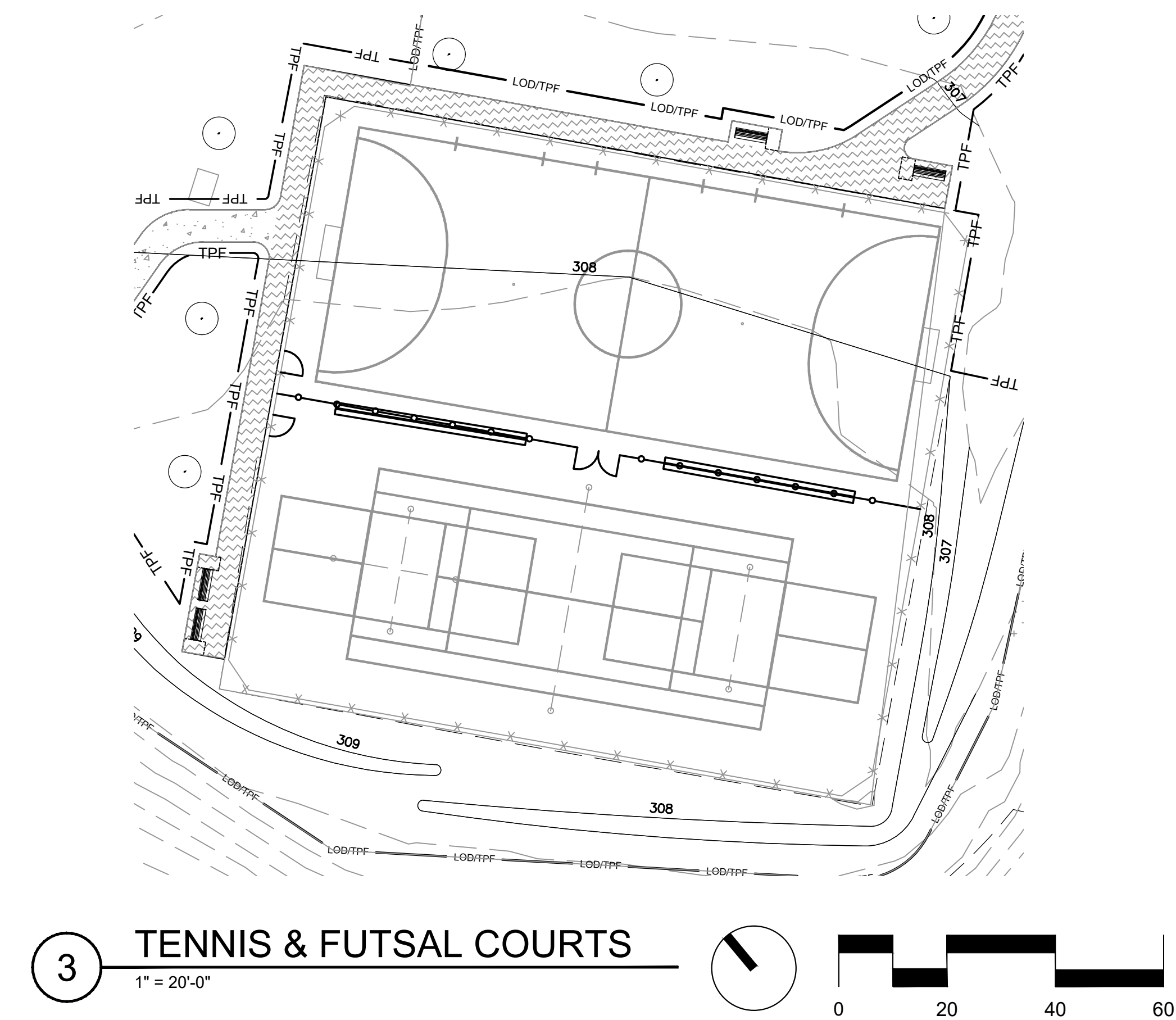
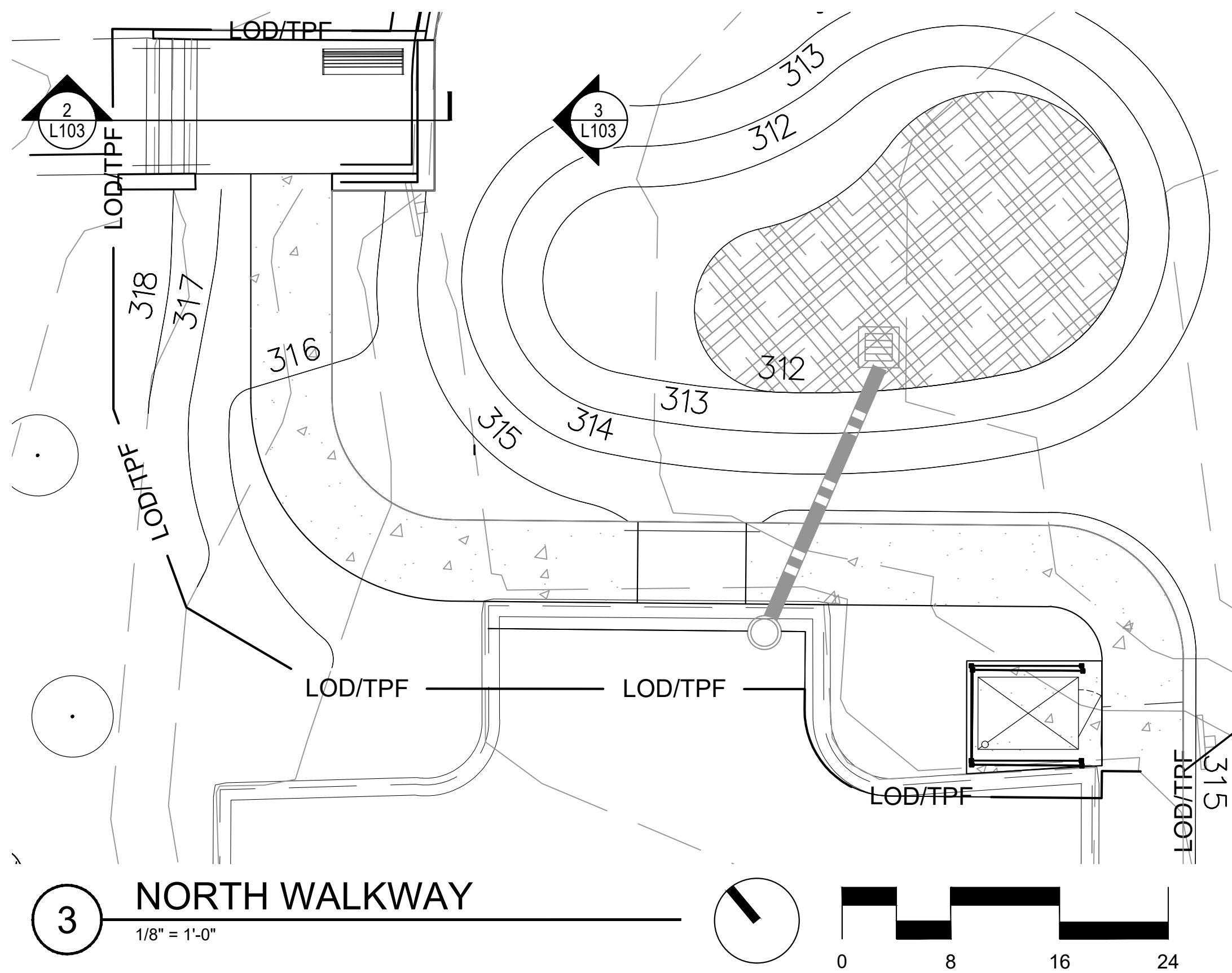



- LOD/TPF LIMIT OF DISTURBANCE
- 1 L303 PICNIC TABLE
 - 2 L303 ADA PICNIC TABLE
 - 3 L303 BENCH A
 - 30" X 42" ADA WHEELCHAIR SPACE
 - 6 L303 BENCH B
 - 4 L303 BIKE RACK
 - TRASH RECEPTACLE: PARKS TO CONFIRM SUPPLY & INSTILLATION
 - ADA PORT-A-JOHN, N.I.C.
 - 1 L301 CONCRETE PAVING
 - 6 L301 POROUS FLEXIBLE PAVEMENT
 - 1 L302 BOARDWALK WITH COMPOSITE DECKING
 - STORMWATER BMP SEE SHEET C/200
 - 2 L302 CHAIN LINK FENCE
 - 3 L302 ORNAMENTAL FENCE
 - EXISTING CHAIN LINK FENCE
 - 11 EXISTING MINOR TREE (UP TO 24") & TREE NUMBER
 - 11 EXISTING SPECIMEN TREE (30" OR GREATER) & TREE NUMBER
 - 11 EXISTING SIGNIFICANT TREE (24" OR GREATER) & TREE NUMBER
 - ADA ACCESSIBLE ROUTE
 - ADA WHEELCHAIR SPACE

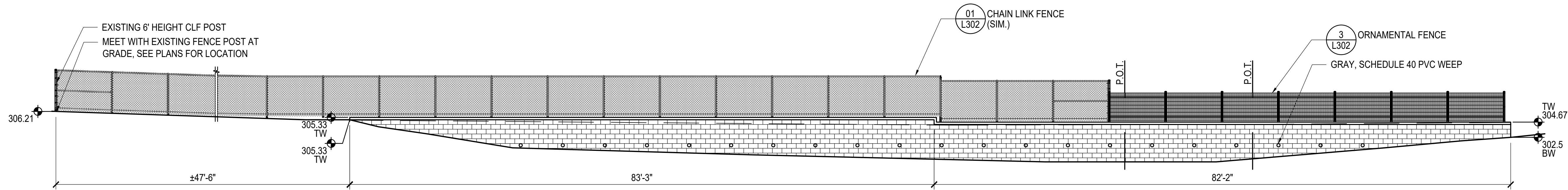
2 CALLOUT AND REFERENCE PLAN
1" = 20'

1 LEGEND

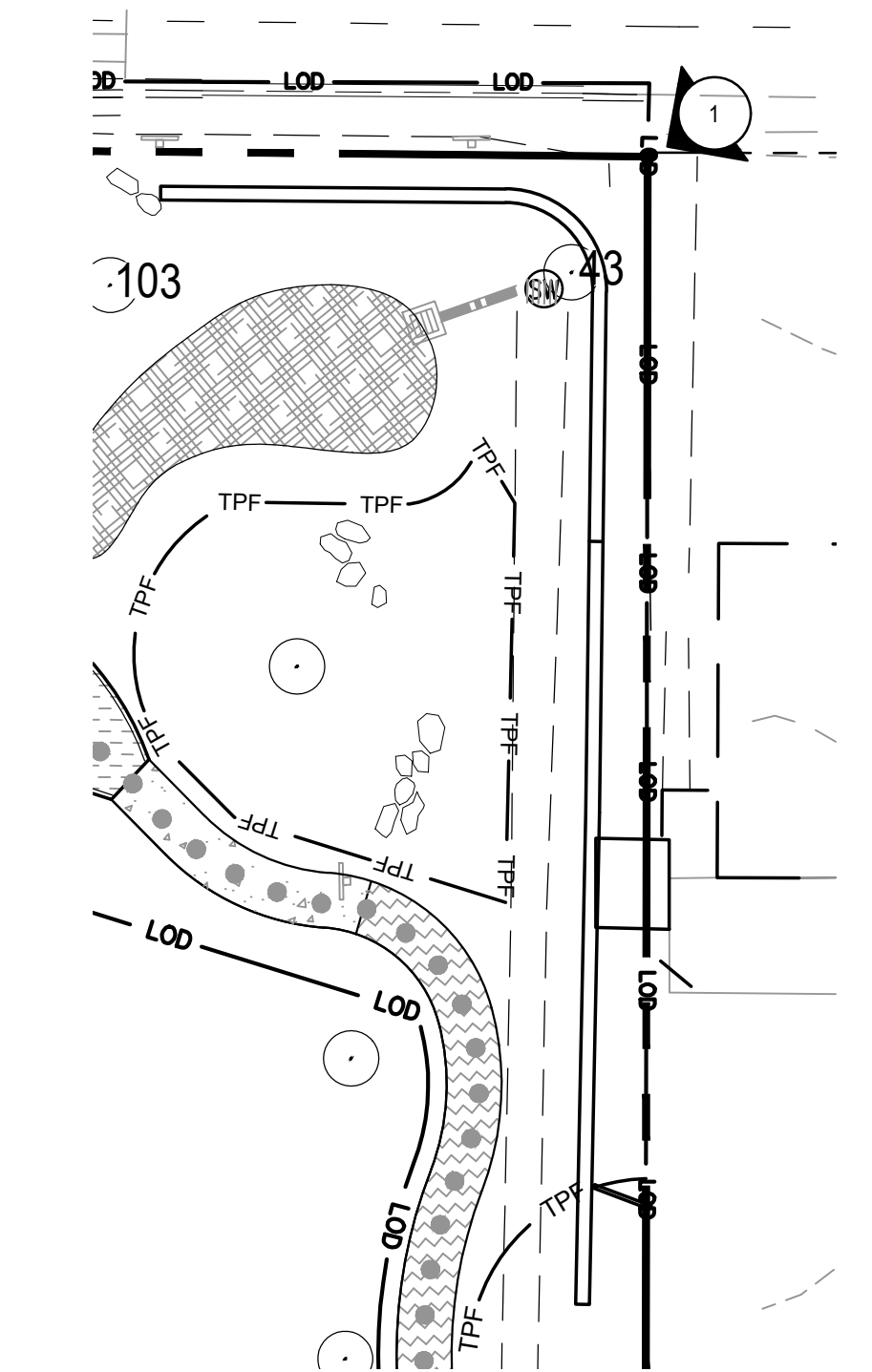
LSG LANDSCAPE ARCHITECTURE			DESIGN			Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.			 The Maryland-National Capital Park and Planning Commission			REVIEW AND APPROVAL			ISSUED FOR PROCUREMENT ON			SILVER SPRING INTERMEDIATE NEIGHBORHOOD PARK Site Plan			L101					
Designer's Name DAVE NORDEN			Landscape Architect			License No. _____			Montgomery County Department of Parks			Project Manager			Rev. No. 1			12/20/18 Design Development			PLAN NUMBER: 42019125E TAX MAP: JN342 WSSC GRID: 209NW01			SHT. # 12 OF 18		
Address 1775 GREENSBORO STATION PLACE, SUITE 110			Architect			Expiration Date _____			9500 Brunnet Avenue			Date			2 05/08/19 Rev. Simplified NRI and FC Exemption											
City/State/Zip TYSONS, VIRGINIA, 22102			Engineer						Silver Spring, Maryland 20901			Date			3 06/04/19 Final Design Development											
Telephone Number 703-821-2045			Drawn by						(301) 495-2535			Date														



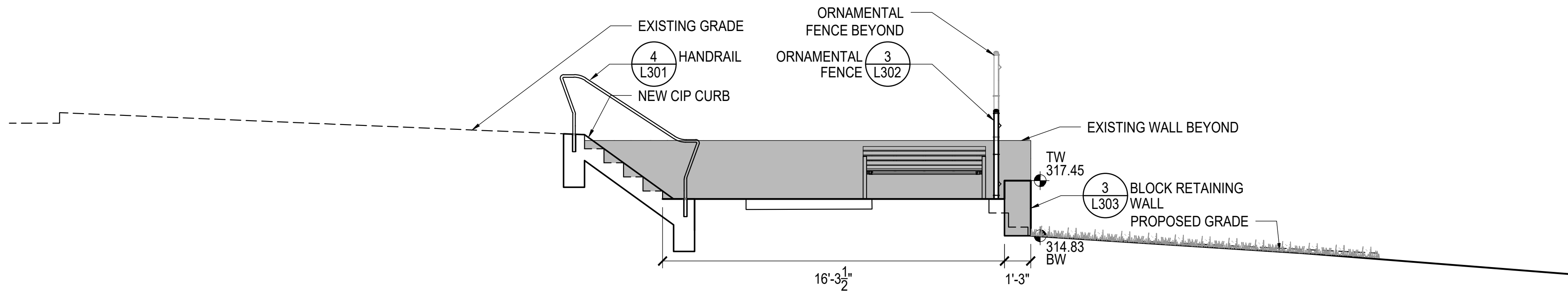
LSG LANDSCAPE ARCHITECTURE		DESIGN		Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License No. _____ Expiration Date _____	 <div>The Maryland-National Capital Park and Planning Commission Montgomery County Department of Parks 9500 Brunett Avenue Silver Spring, Maryland 20901 (301) 495-2535</div>	REVIEW AND APPROVAL		ISSUED FOR PROCUREMENT ON _____		SILVER SPRING INTERMEDIATE NEIGHBORHOOD PARK Layout Enlargement SCALE: AS SHOWN PLAN NUMBER: 4201912SE TAX MAP: JN342 WSSC GRID: 209NW01	DWG. # L102 SHT. # XX OF XX
Designer's Name DAVE NORDEN		Date	Checked By:					REVISIONS			
Address 1775 GREENSBORO STATION PLACE, SUITE 110		Date	Checked By:					Rev. No.	Date		
City/State/Zip TYSONS, VIRGINIA, 22102		Date	Checked By:			1	12/20/16	Design Development			
Telephone Number 703-821-2045		Date	Checked By:			2	05/08/19	Rev. Simplified NRI and FC Exemption			
						3	06/04/19	Final Design Development			



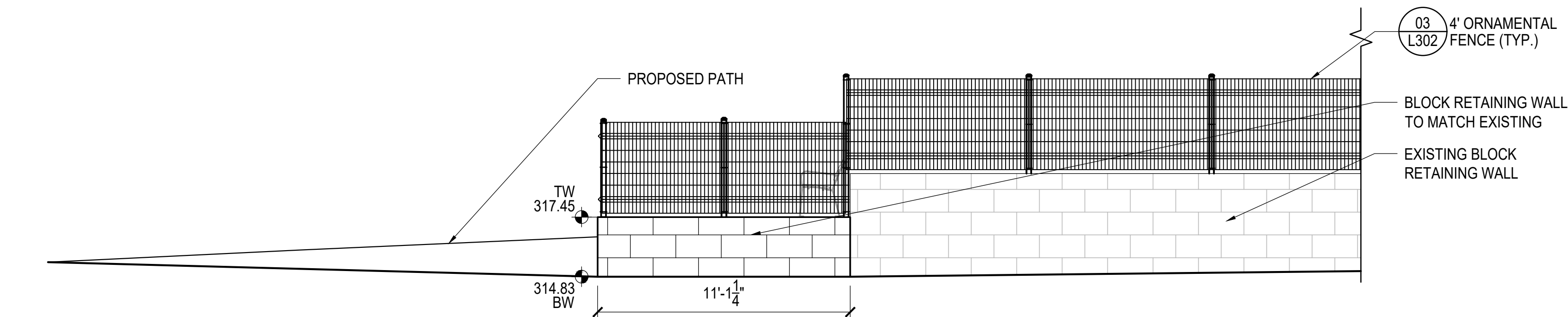
1 ELEVATION - EAST WALL
1/8" = 1' 0"



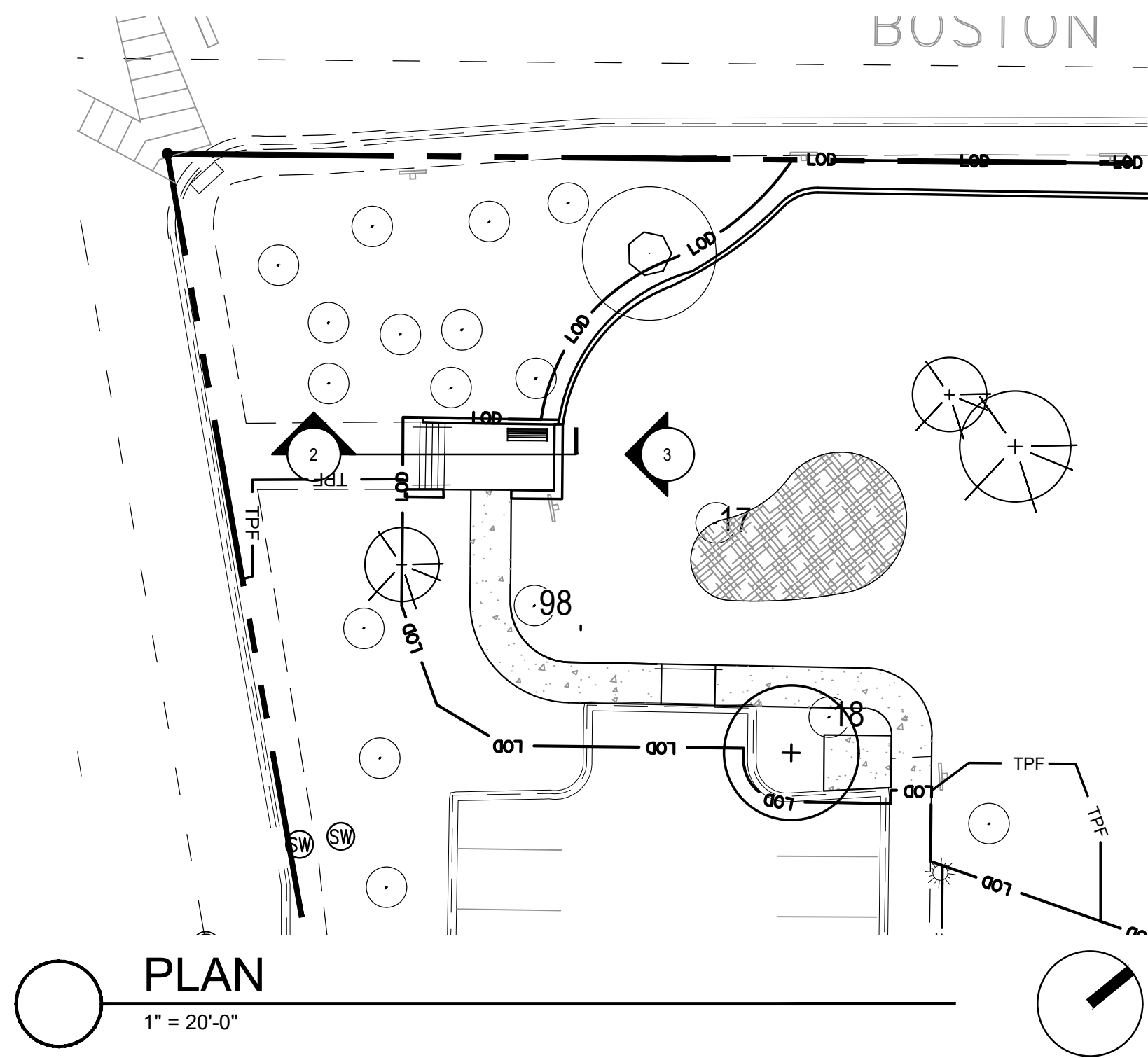
PLAN
1" = 20' 0"



2 SECTION - NORTH WEST WALL
1/4" = 1' 0"

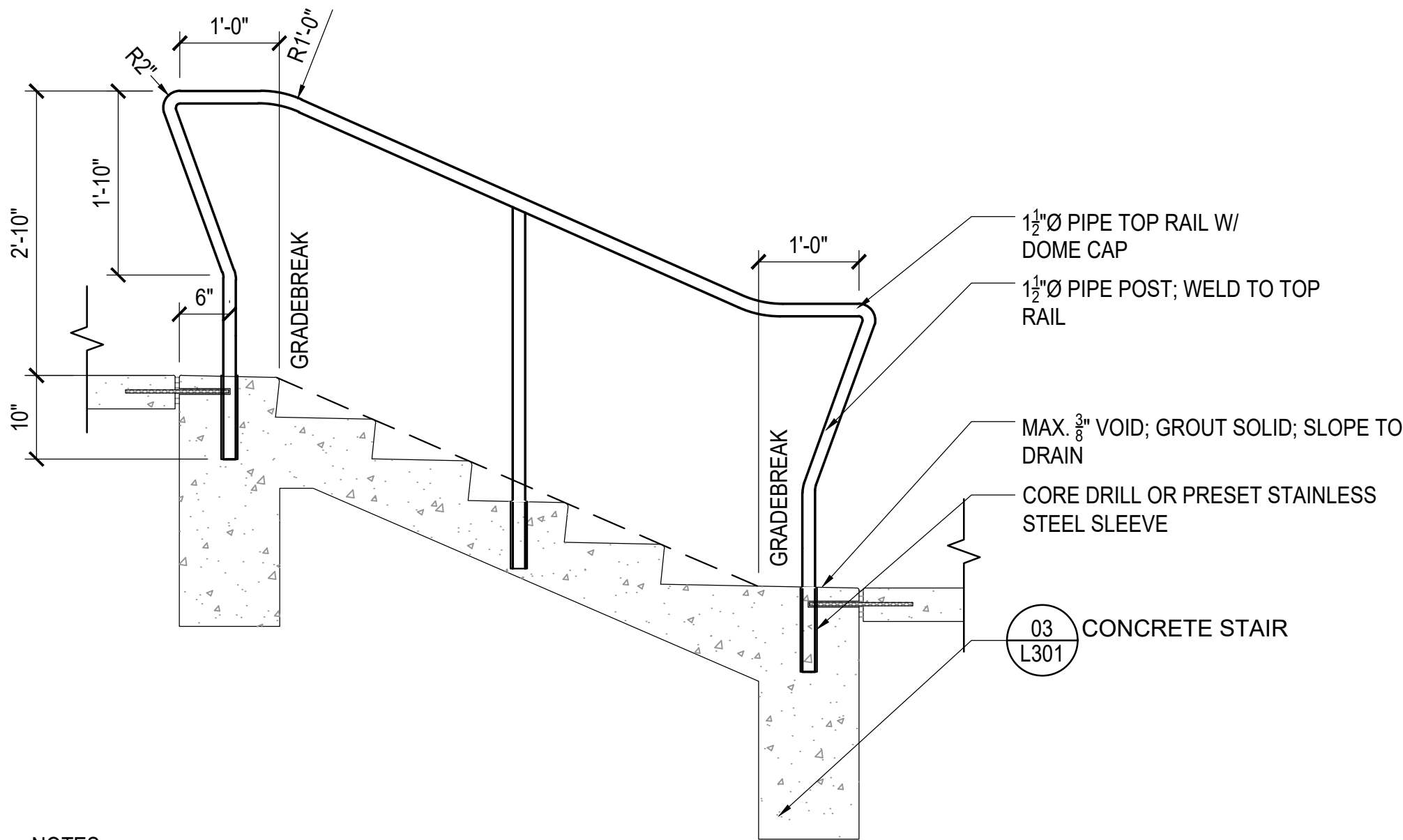


3 SECTION - NORTH WEST WALL
1/4" = 1' 0"



PLAN
1" = 20'-0"

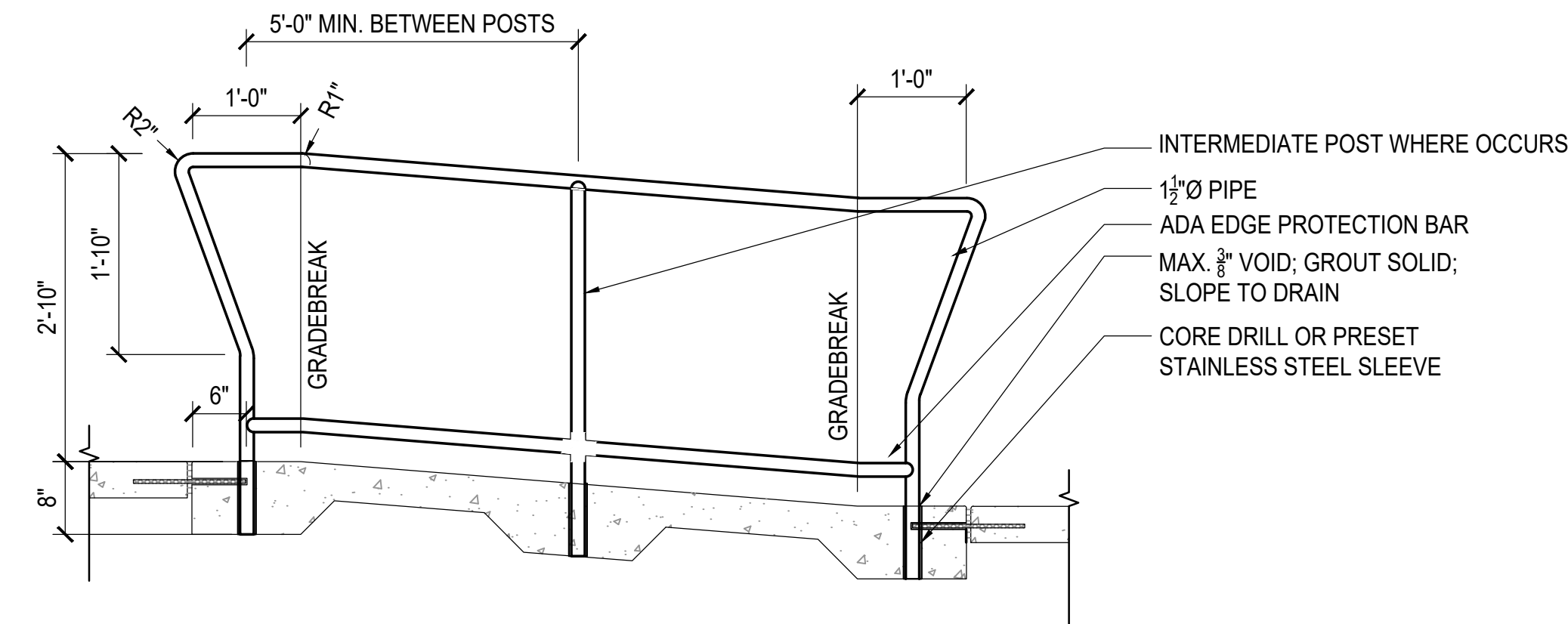
LSG LANDSCAPE ARCHITECTURE		DESIGN		Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License No. _____ Expiration Date _____	 <div>The Maryland-National Capital Park and Planning Commission Montgomery County Department of Parks 9500 Brunett Avenue Silver Spring, Maryland 20901 (301) 495-2535</div>	REVIEW AND APPROVAL		ISSUED FOR PROCUREMENT ON _____		SILVER SPRING INTERMEDIATE NEIGHBORHOOD PARK Elevations SCALE: AS SHOWN PLAN NUMBER: 42019125E TAX MAP: JN342 WSSC GRID: 209NW01	L103 SHT. # 13 OF 18	
Designer's Name DAVE NORDEN	Landscape Architect	Date	Checked By:			REVISIONS						
Address 1775 GREENSBORO STATION PLACE, SUITE 110	Architect	Date	Checked By:			Rev. No.	Date	Description				
City/State/Zip TYSONS, VIRGINIA, 22102	Engineer	Date	Checked By:			1	12/20/18	Design Development				
Telephone Number 703-821-2045	Drawn by	Date	Checked By:			2	05/08/19	Rev. Simplified NRI and FC Exemption				
						3	06/04/19	Final Design Development				



- NOTES:
1. WELD AND GRIND SMOOTH ALL JOINTS. MATCH ADJACENT FINISH.
 2. STAIR DIMENSIONS AND ELEVATIONS VARY PER CASE. REFER TO AS-BUILT CONDITIONS.
 3. PROVIDE NON-SHRINK GROUT, FULLY COMPATIBLE W/ INSTALLED MATERIALS.
 4. ALL METAL IS POWDERCOATED STEEL, UNLESS OTHERWISE INDICATED; FINISHED PER SPECIFICATIONS.

HAND RAIL - STAIRS

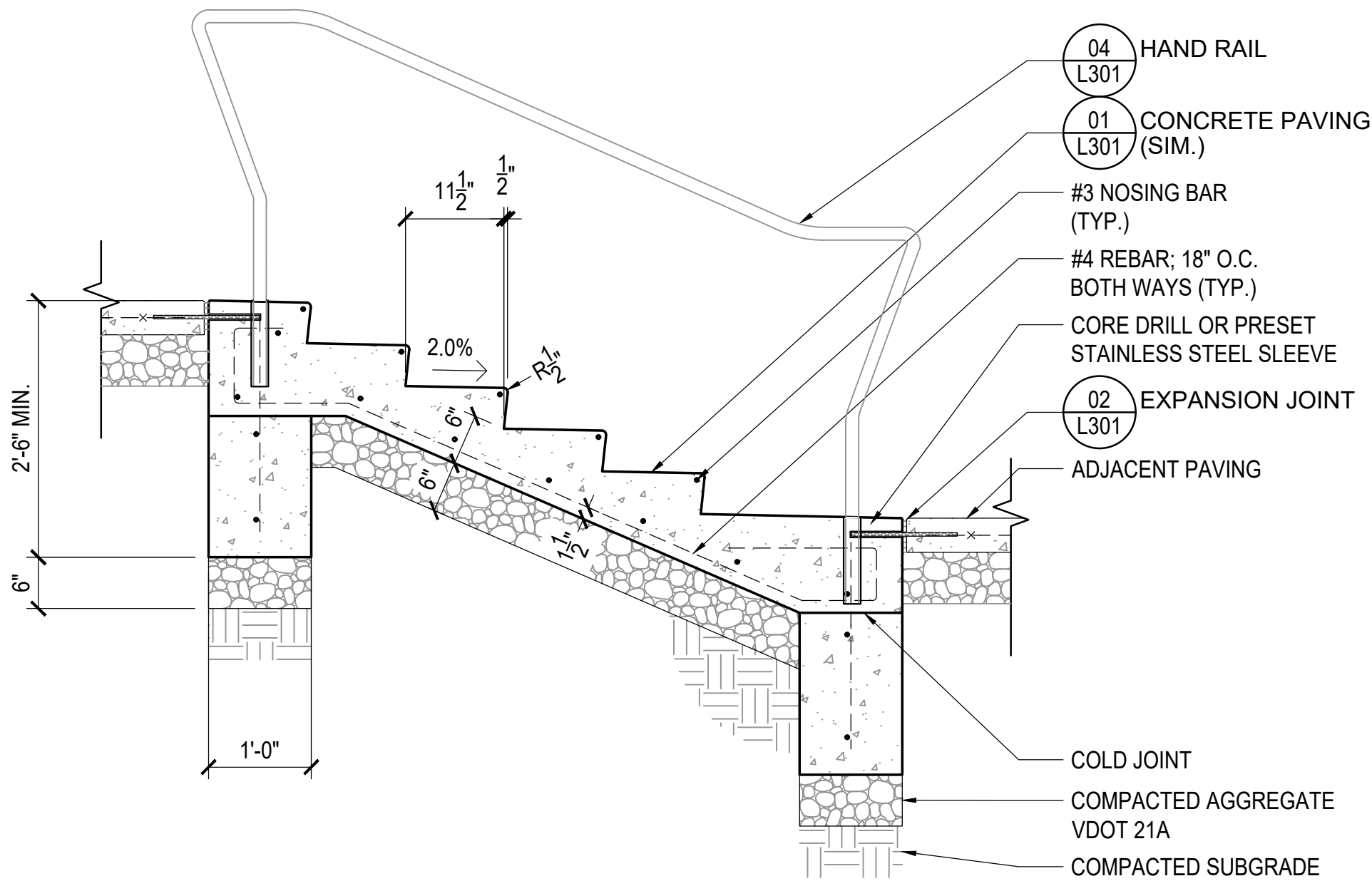
3/4" = 1' - 0"



- NOTES:
1. WELD AND GRIND SMOOTH ALL JOINTS. MATCH ADJACENT FINISH.
 2. STAIR DIMENSIONS AND ELEVATIONS VARY PER CASE. REFER TO AS-BUILT CONDITIONS.
 3. PROVIDE NON-SHRINK GROUT, FULLY COMPATIBLE W/ INSTALLED MATERIALS.
 4. ALL METAL IS POWDERCOATED STEEL, UNLESS OTHERWISE INDICATED; FINISHED PER SPECIFICATIONS.

HAND RAIL - RAMP

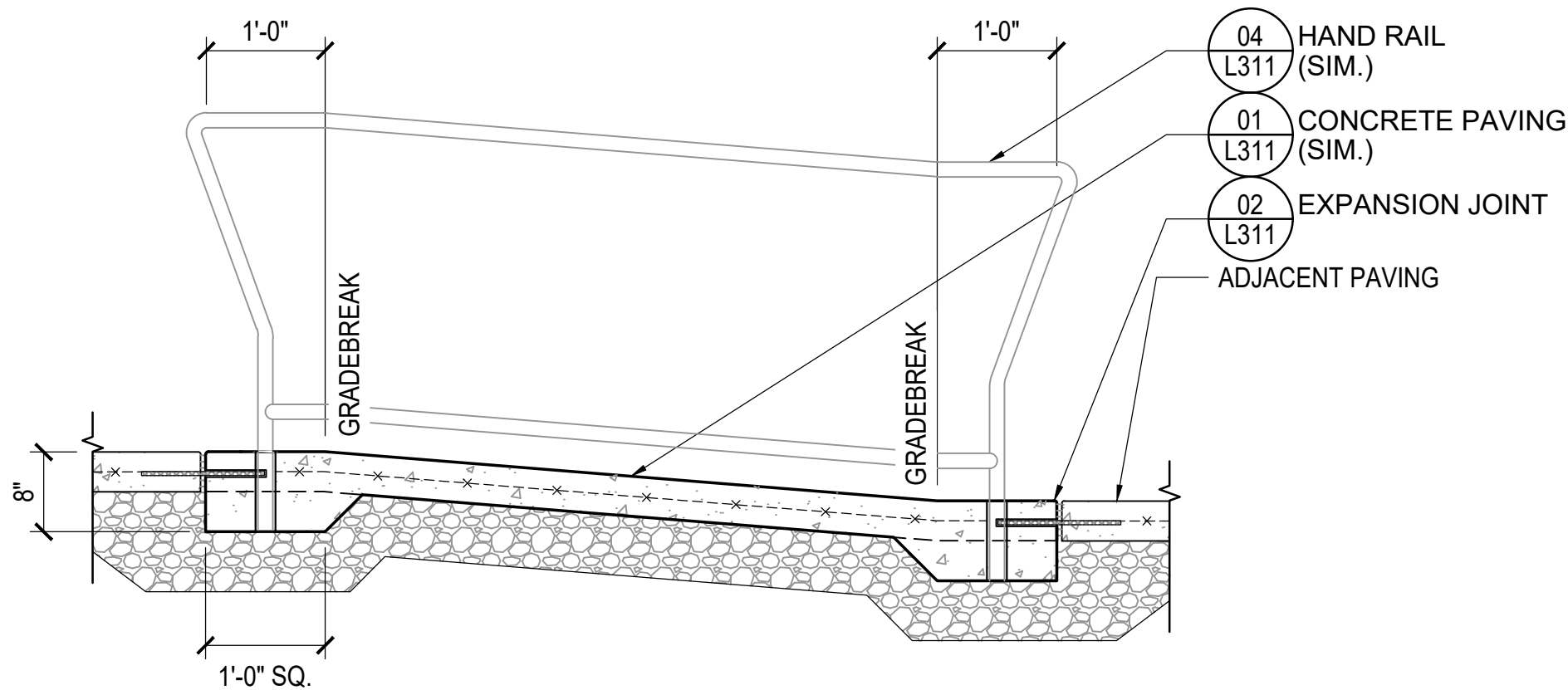
3/4" = 1' - 0"



- NOTES:
1. RISER COUNT AND RISER HEIGHT VARIES PER STAIR CASE. REFER TO GRADING PLAN.
 2. COORDINATE W/ HAND RAIL FABRICATION.

CONCRETE STAIR

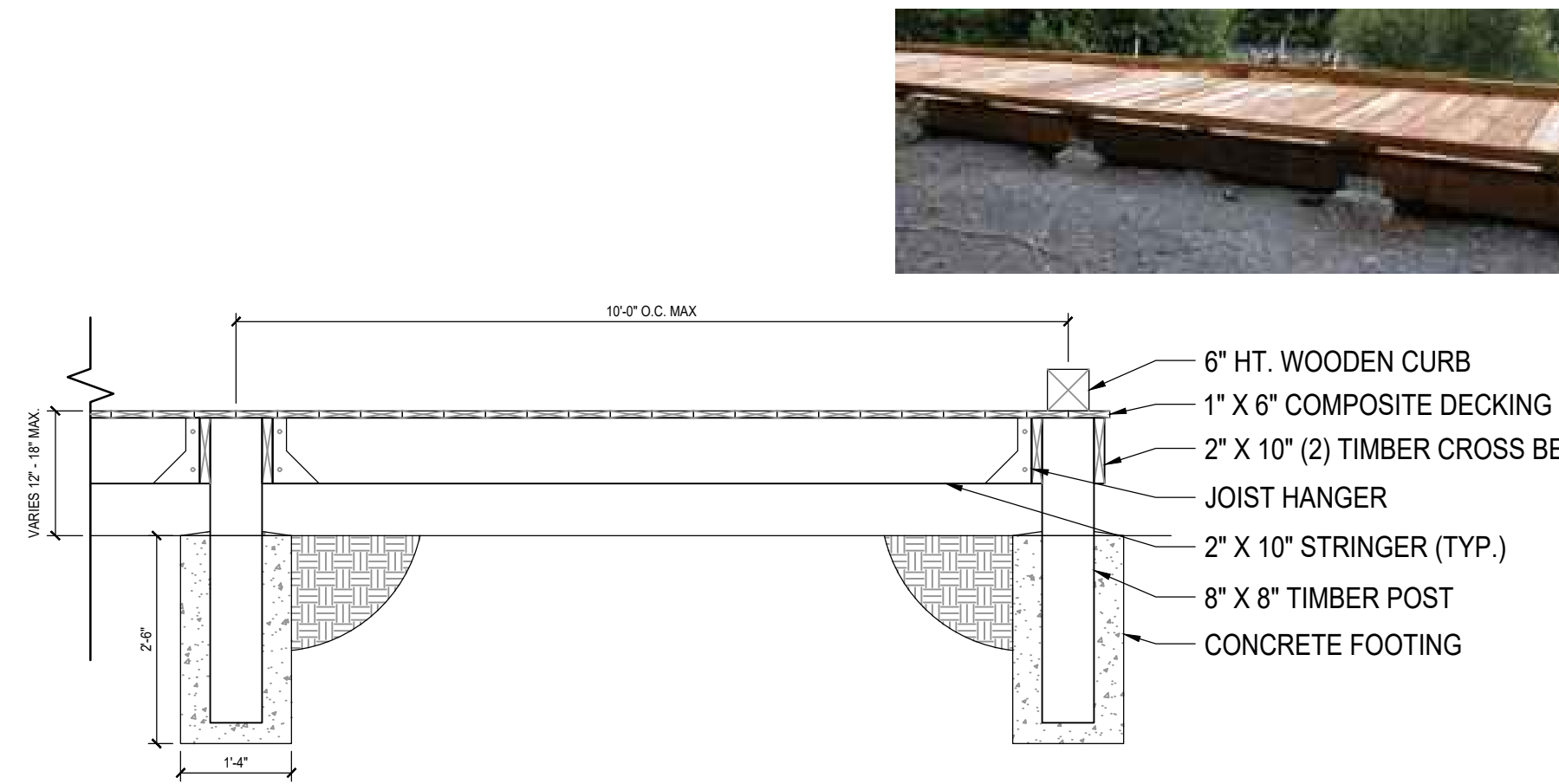
3/4" = 1' - 0"



- NOTES:
1. RAMP SLOPE & DIMENSIONS VARY. REFER TO PLANS.
 2. COORDINATE W/ HAND RAIL FABRICATION.

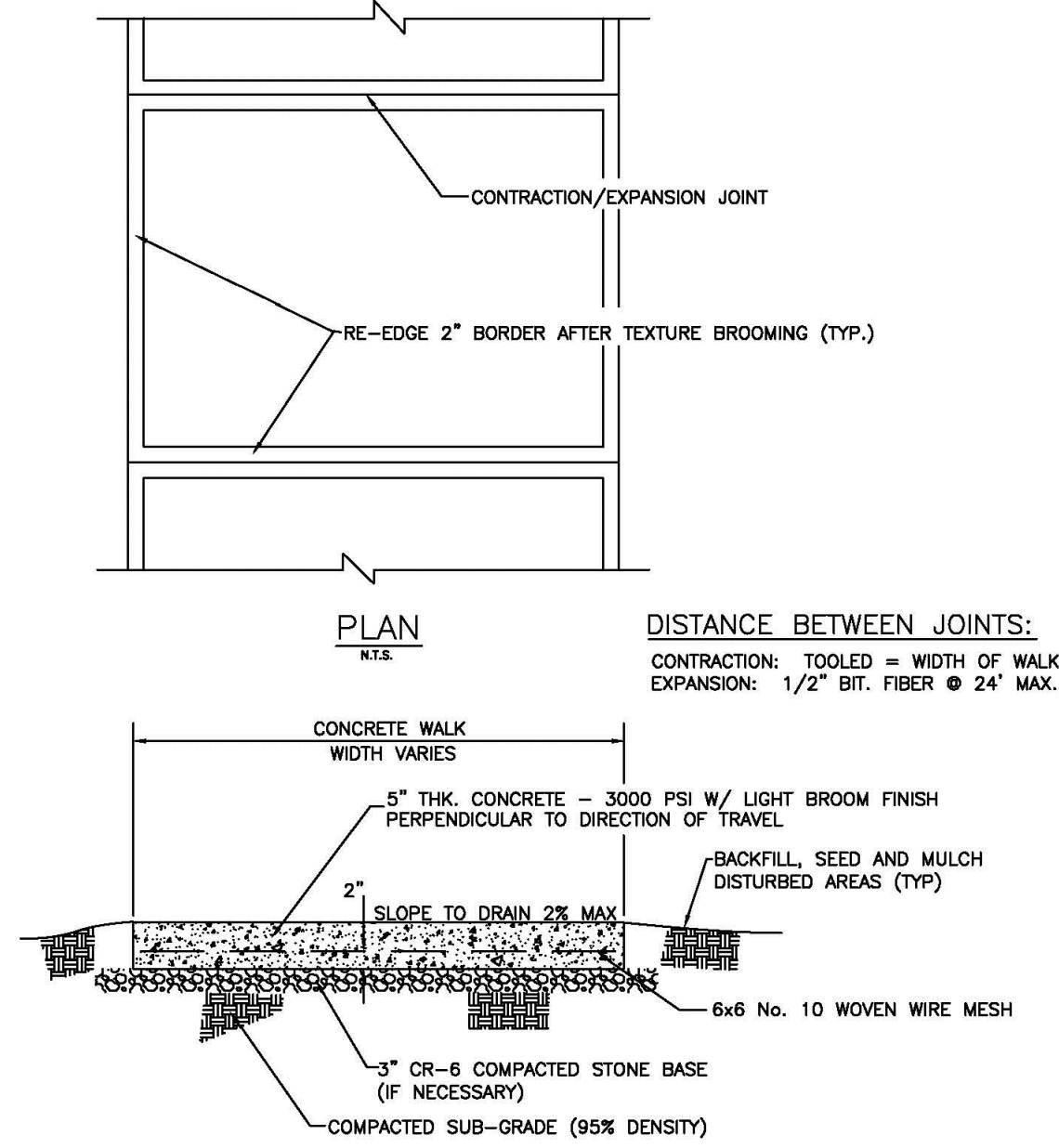
RAMP

3/4" = 1' - 0"



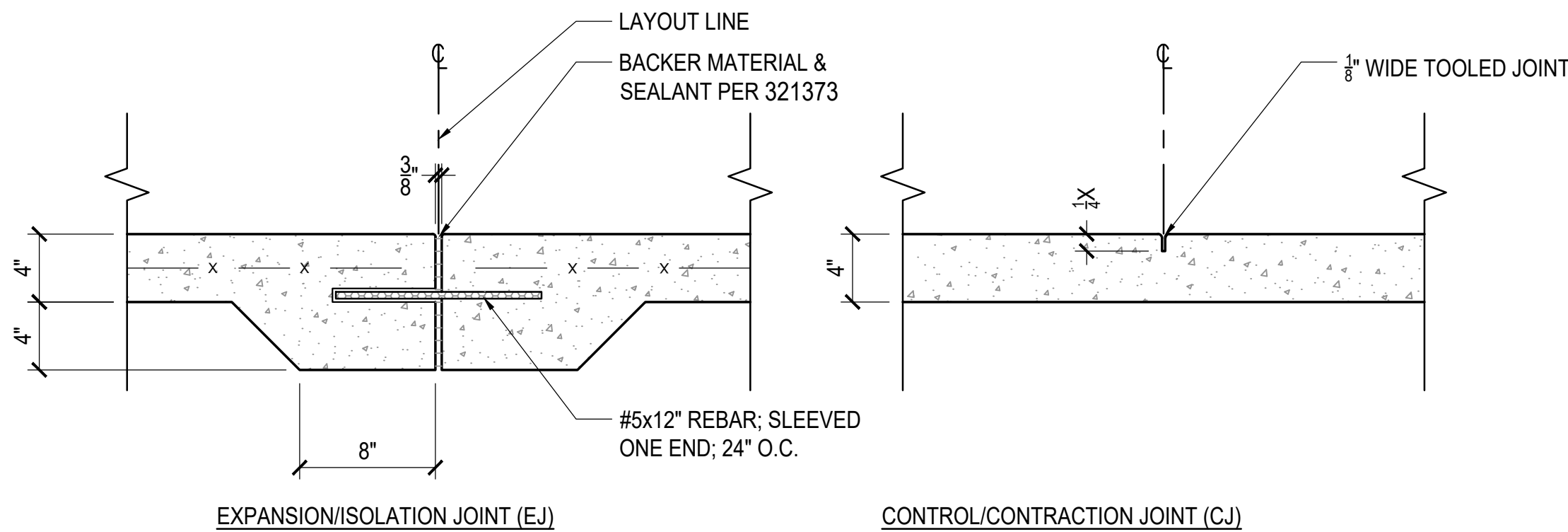
TIMBER BOARDWALK

1/2" = 1' - 0"



CONCRETE WALK

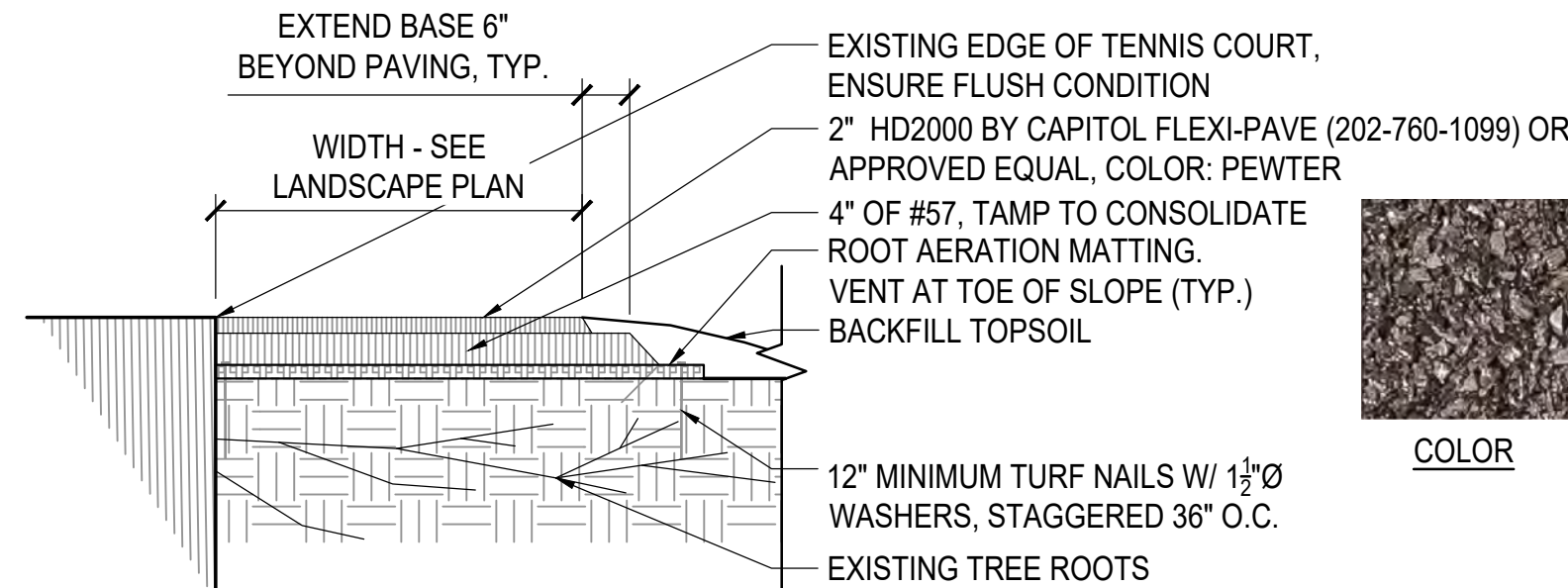
1



- NOTES:
1. INSTALL CONTROL JOINTS AT EQUAL INTERVALS OF 5'-0" EACH WAY UNLESS OTHERWISE INDICATED.
 2. INSTALL EXPANSION JOINTS @ 20'-0" INTERVALS MAX. EACH WAY, UNLESS OTHERWISE INDICATED, AND WHERE SLAB MEETS ANY ADJACENT STRUCTURE.
 3. TOOL ALL EXPOSED EDGES W/ 3/8" RADIUS.
 4. INSTALL SELF-LEVELING SEALANT AT EJ'S OR TOOL PER 321373 FLUSH W/ ADJACENT FG.
 5. SAWCUT JOINTS ARE PROHIBITED.

CONCRETE JOINTING

1 1/2" = 1' - 0"



- NOTES:
1. FOR ALL OTHER WORK WITHIN TREE PROTECTION ZONES, REFER TO L002 AND SPECIFICATIONS.
 2. SANDWICH ROOT AERATION MATTING BETWEEN 2 LAYERS OF CLASS F SILT FABRIC (NOT SHOWN).

FLEXIBLE POROUS PAVING

1/2" = 1' - 0"

LSG LANDSCAPE ARCHITECTURE

Designer's Name	DAVE NORDEN		
Address	1775 GREENSBORO STATION PLACE, SUITE 110		
City/State/Zip	TYSONS, VIRGINIA, 22102		
Telephone Number	703-821-2045		

DESIGN

Landscape Architect	Date	Checked By:
Architect	Date	Checked By:
Engineer	Date	Checked By:
Drawn by	Date	Checked By:

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.

License No. _____

Expiration Date _____



The Maryland-National Capital Park and Planning Commission

Montgomery County Department of Parks
9500 Brunett Avenue
Silver Spring, Maryland 20901
(301) 495-2535

REVIEW AND APPROVAL

Project Manager	Date
Construction Manager	Date
Park Manager	Date

ISSUED FOR PROCUREMENT ON

REVISIONS		
Rev. No.	Date	Description
1	12/20/18	Design Development
2	05/08/19	Rev. Simplified NRI and FC Exemption
3	06/04/19	Final Design Development

SILVER SPRING INTERMEDIATE NEIGHBORHOOD PARK Construction Details

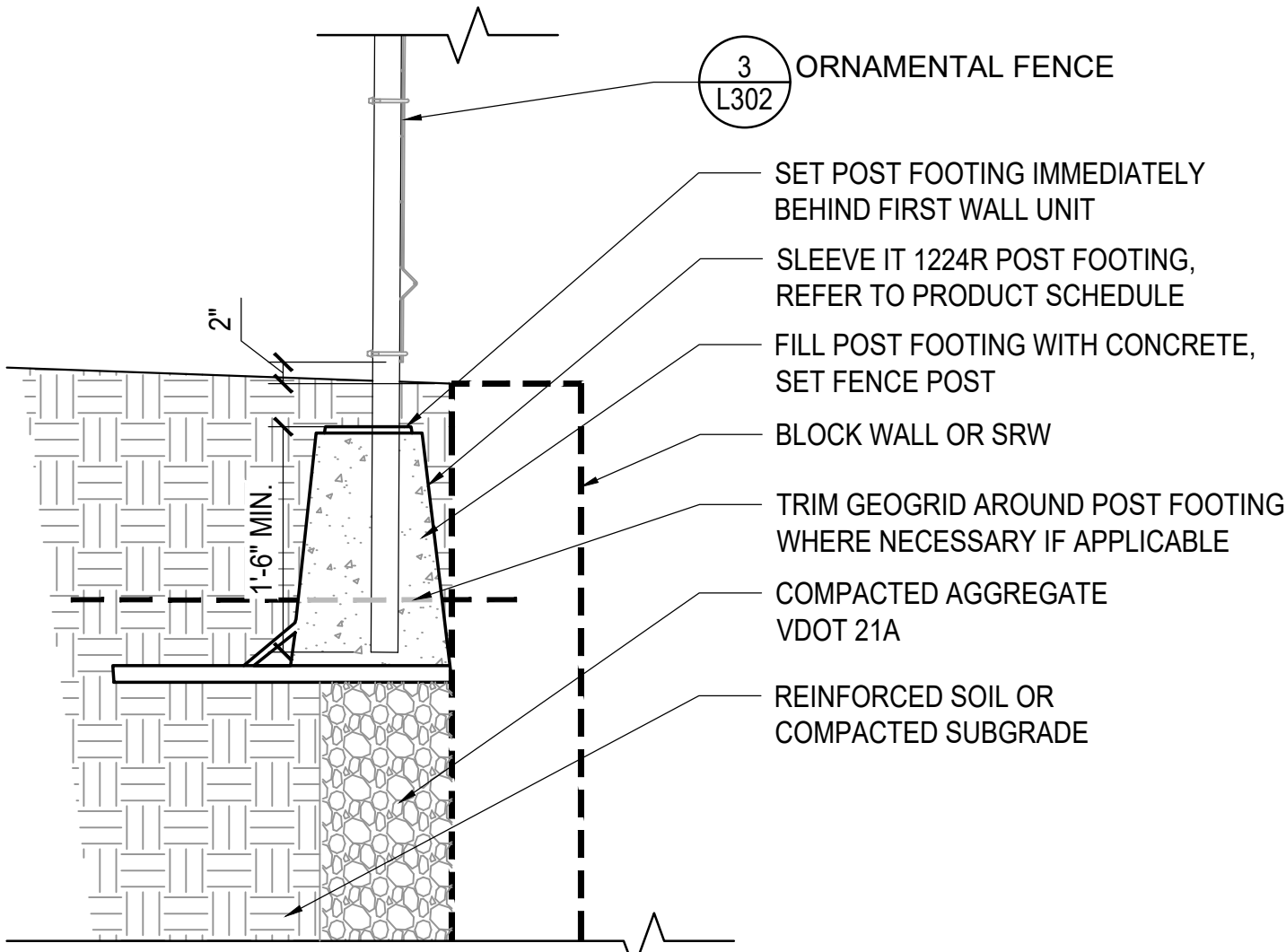
SCALE: AS SHOWN

PLAN NUMBER: 42019125E
TAX MAP: JN342
WSSC GRID: 209NW01

L301

SHT. # 14 OF 18

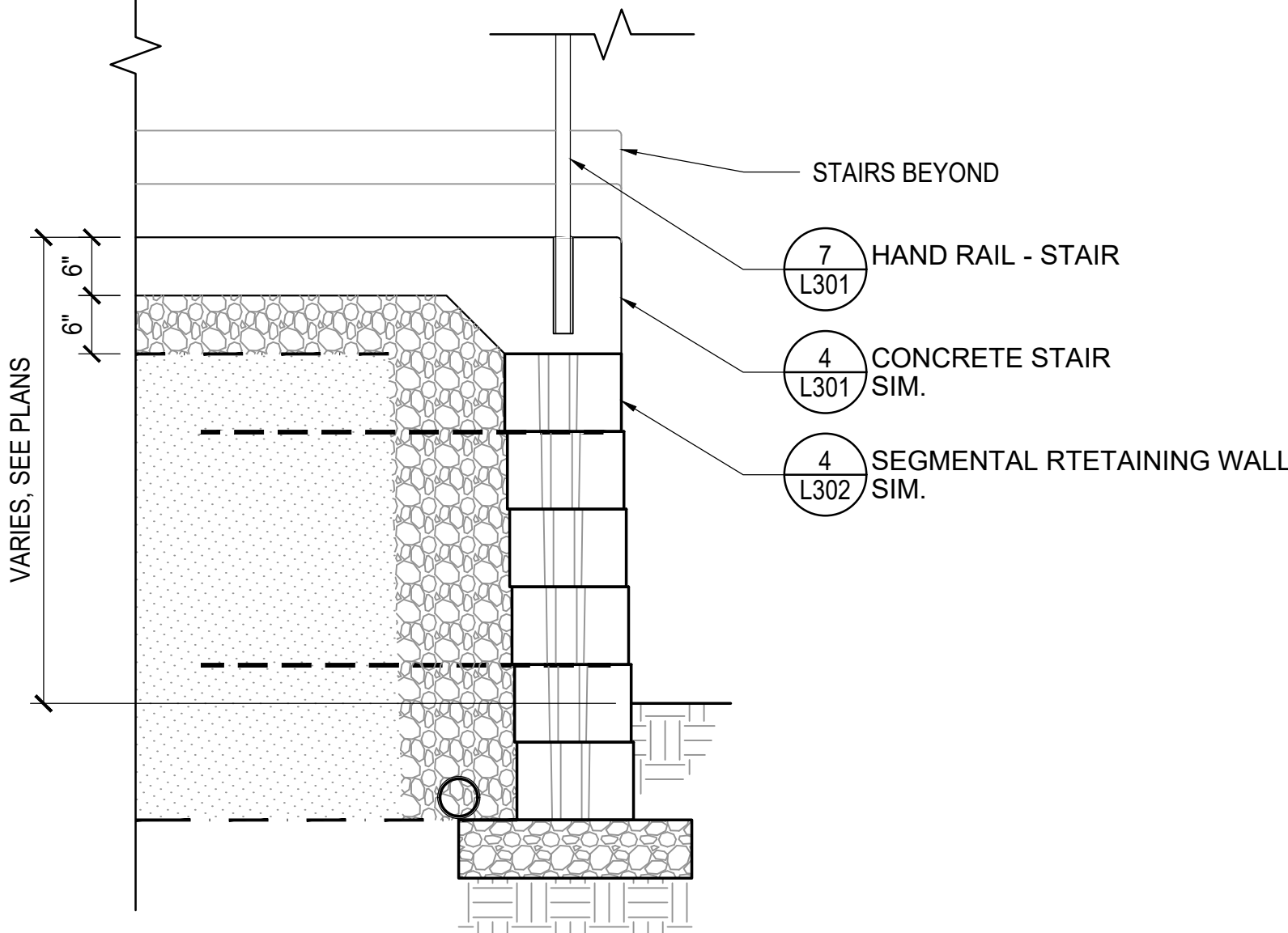
FINAL SCANNED: PLAN SCANNED: C10 PARK CODE: C10 Plotted By: Matthew Stowell, 6/7/2019 9:56 AM, ---- G:\2012\12136-06 - Silver Spring Intermediate Neighborhood Park\01_Caddos\1301_LSNP.dwg L302



- NOTES:
1. INSTALL PER MANUFACTURERS SPECIFICATIONS.
 2. 8' O.C. MAXIMUM DISTANCE BETWEEN POST FOOTINGS.

POST FOOTING

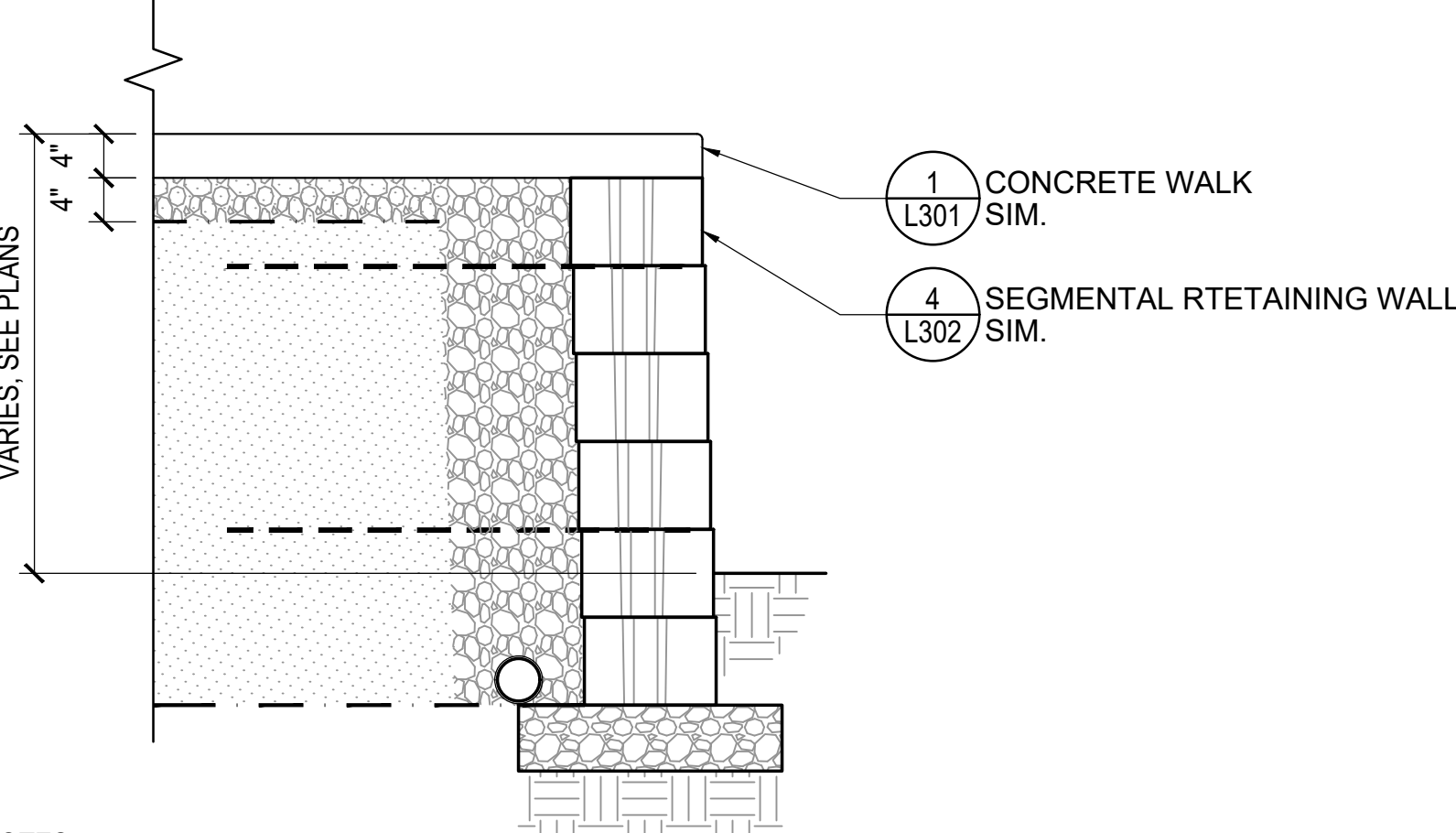
3/4" = 1'-0"



- NOTES:
1. REFER TO STRUCTURAL DETAILS FOR GEOGRID, REINFORCED SOIL, AND ADDITIONAL REQUIREMENTS.

SEGMENTAL RETAINING WALL AT STAIRS

3/4" = 1'-0"

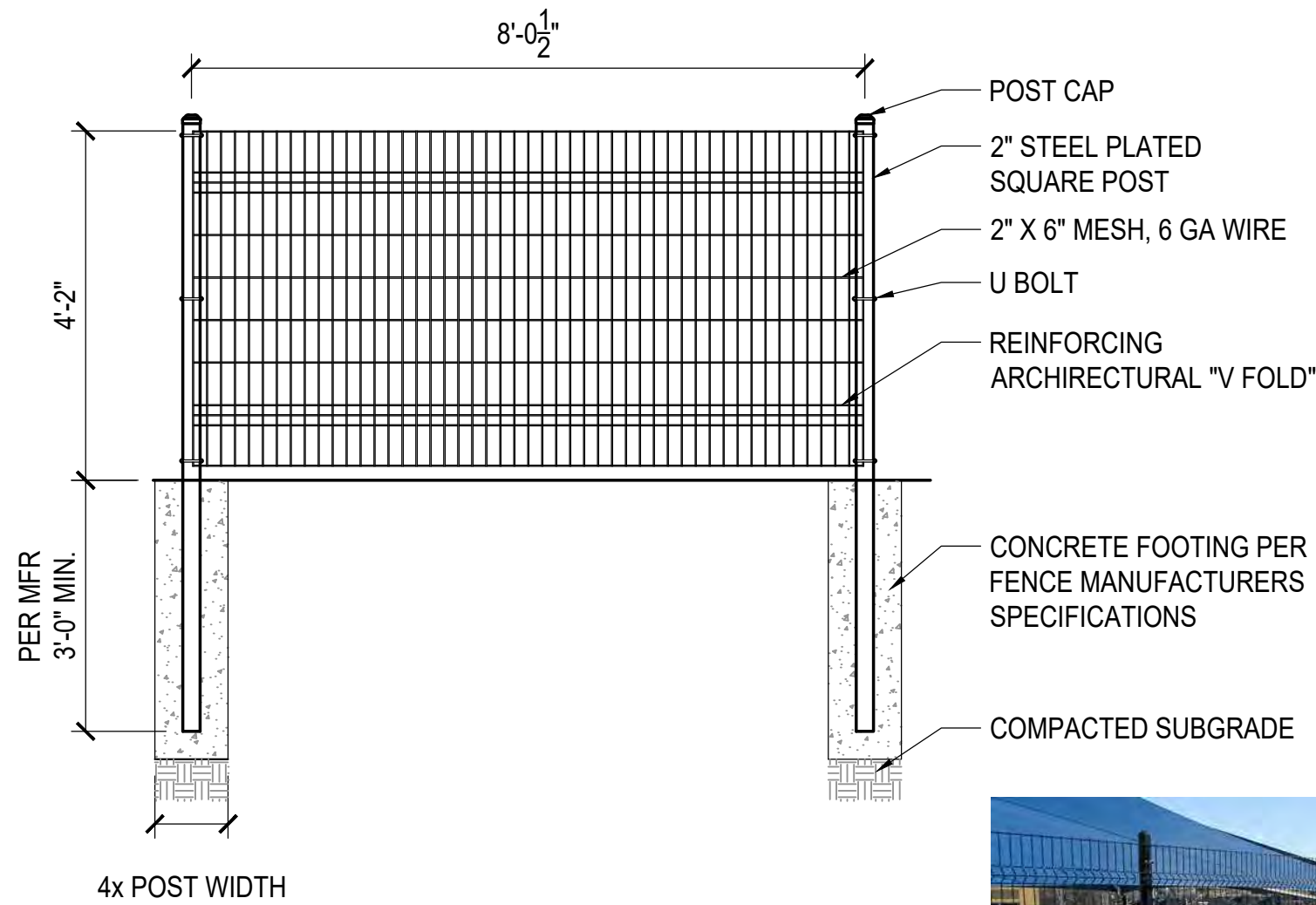


- NOTES:
1. REFER TO STRUCTURAL DETAILS FOR GEOGRID, REINFORCED SOIL, AND ADDITIONAL REQUIREMENTS.

SEGMENTAL RETAINING WALL AT WALK

3/4" = 1'-0"

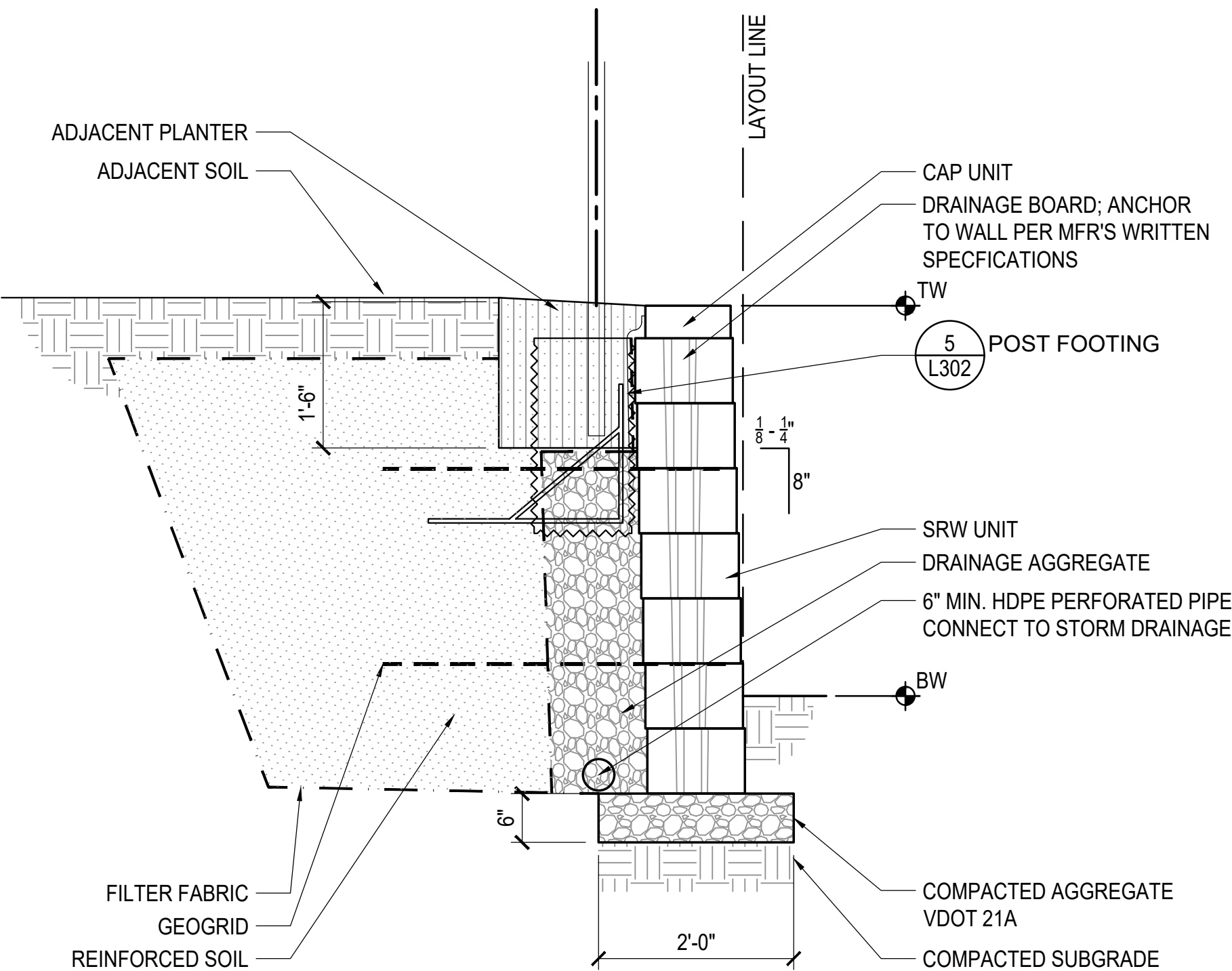
BLOCK RETAINING WALL



- NOTES:
1. REFER TO PRODUCT SCHEDULE.
 2. INSTALL PER MANUFACTURERS SPECIFICATIONS
 3. FINISH IS POLYESTER POWDERCOAT COLOR BLACK

ORNAMENTAL FENCE

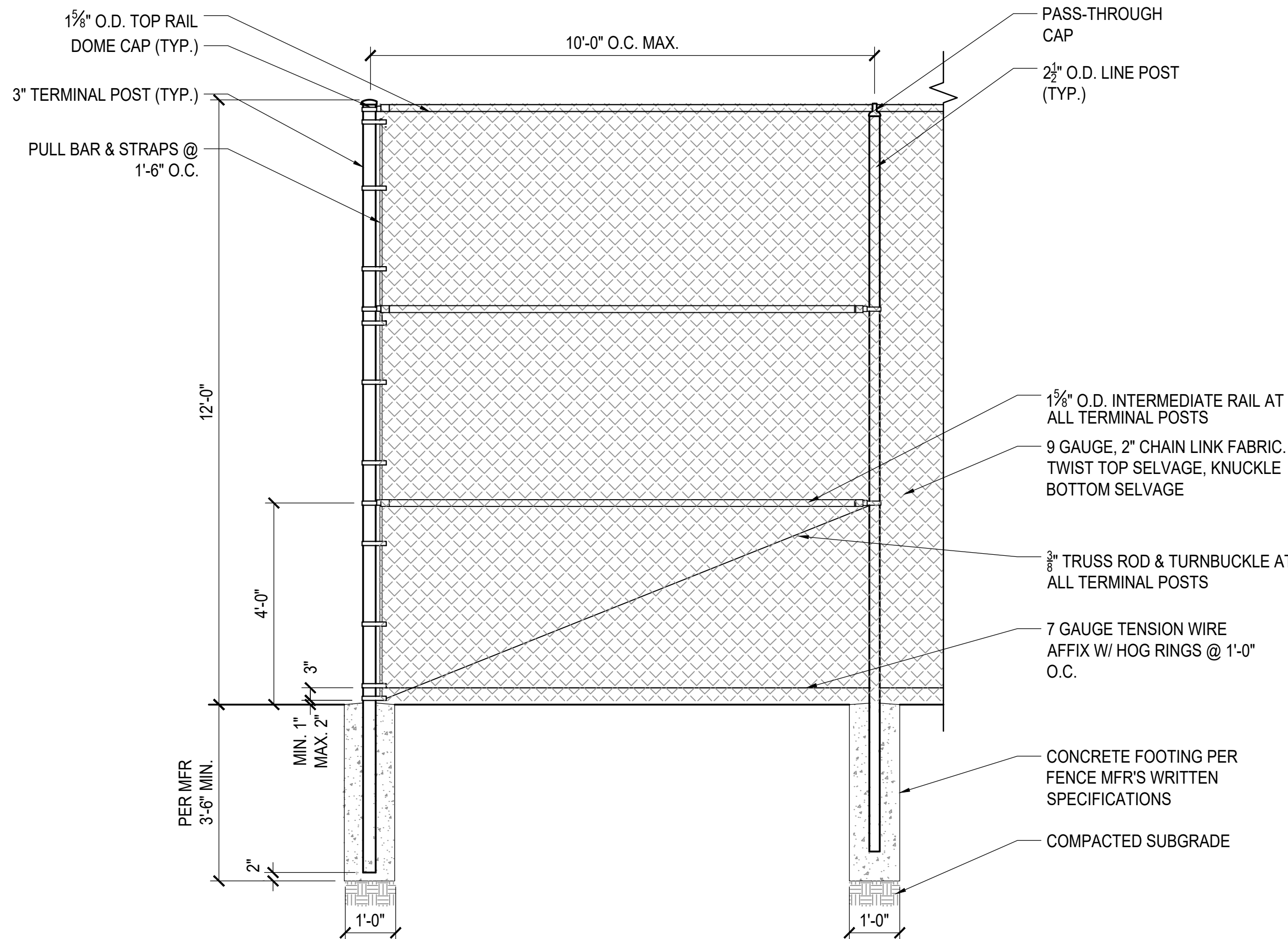
1/2" = 1'-0"



- NOTES:
1. REFER TO STRUCTURAL DETAILS FOR GEOGRID, REINFORCED SOIL, AND ADDITIONAL REQUIREMENTS.

SEGMENTAL RETAINING WALL

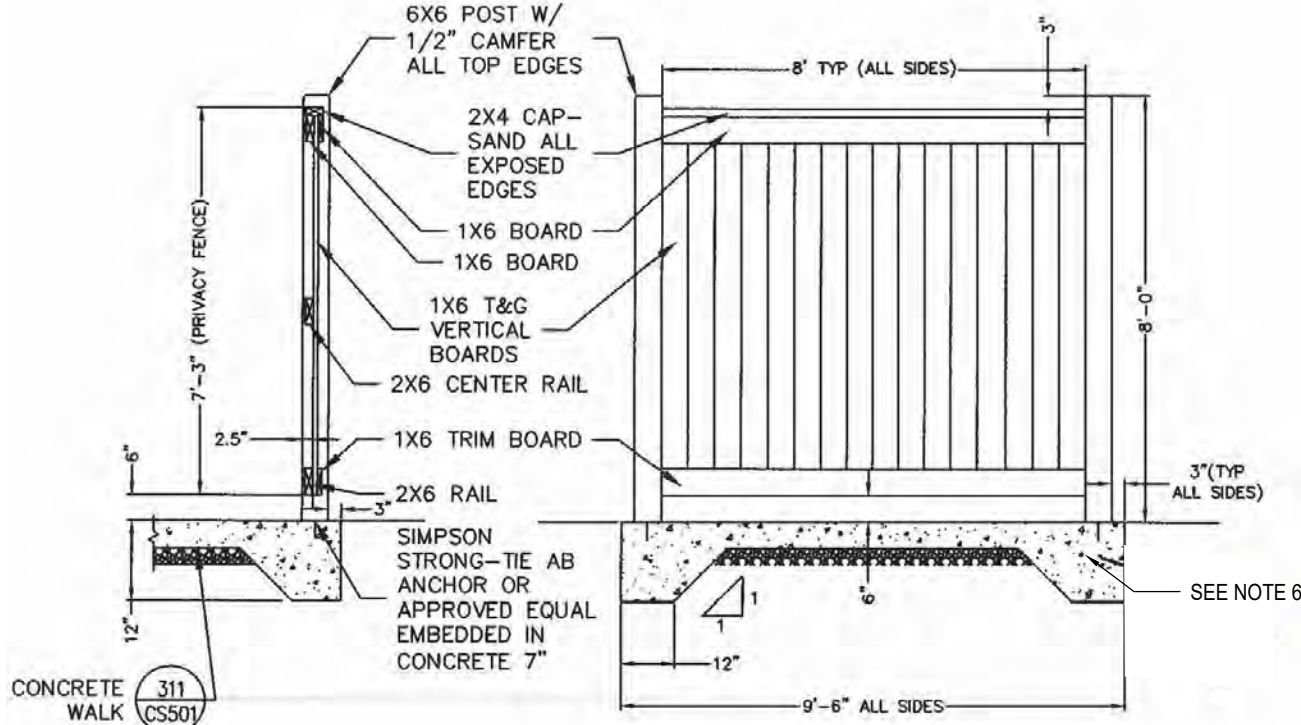
3/4" = 1'-0"



- NOTES:
1. AFFIX FABRIC TO POSTS W/ 9 GAUGE TIE WIRES @ 1'-0" O.C. AND TO RAILS AT 1'-6" O.C.
 2. METAL: ALL COMPONENTS SHALL BE HOT-DIPPED GALVANIZED STEEL UNLESS OTHERWISE INDICATED.
 3. FINISH: VINYL COAT PER SPECIFICATIONS.
 4. GROUND FENCE RUNS PER SPECIFICATIONS.

CHAIN LINK FENCE

1/2" = 1'-0"



- NOTE:
1. PROVIDE 2"X6" HINGED RAIL TO PREVENT TIPPING. HEIGHT TO ALLOW FOR OPENING OF THE PORTA POTTY DOOR (84").
 2. FASTENERS TO BE COORDINATED WITH CONSTRUCTION MANAGER.
 3. PRESSURE TREATED WOOD (#1 PINE) FOR 6"X6" POSTS. ALL OTHER WOOD TO BE CLEAR CEDAR BOARDS TYPE - SDRS - 5/4 X 2 X 6.
 4. GRADE TO MAINTAIN POSITIVE DRAINAGE ACROSS SLAB (1.5% MAX; MIN. 0.75%).
 5. ALLOW CLEAR SPACE ON WALK SIDE FOR ACCESS TO PORTABLE TOILET. FENCE TO BE PROVIDED ON 3 SIDES ONLY.
 6. THICKENED SLAB REQUIRED IN CORNERS ONLY.

PORT-A-JOHN FENCE SCREEN

2

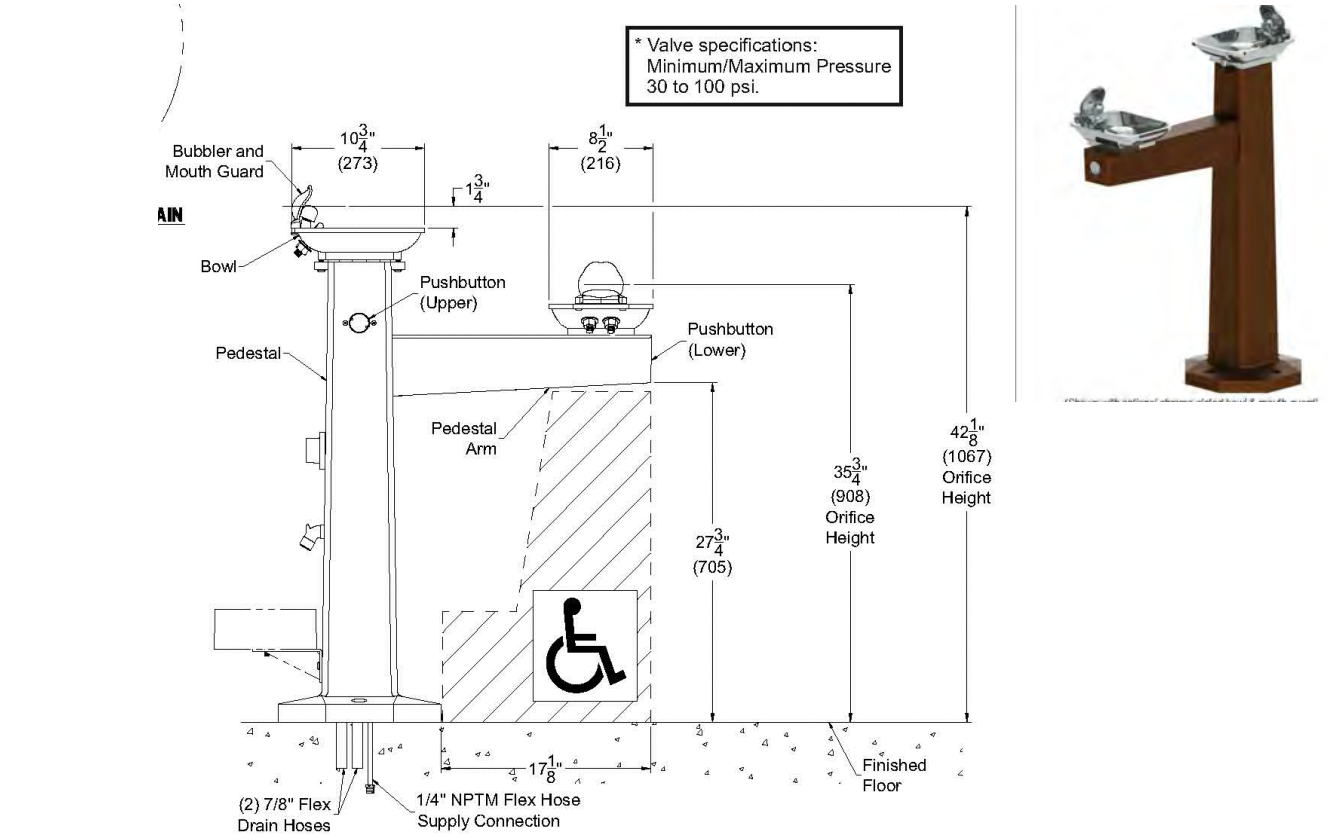
LSG LANDSCAPE ARCHITECTURE		DESIGN		<p>Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.</p> <p>License No. _____</p> <p>Expiration Date _____</p>	 <p>The Maryland-National Capital Park and Planning Commission</p> <p>Montgomery County Department of Parks 9500 Brunett Avenue Silver Spring, Maryland 20901 (301) 495-2535</p>	REVIEW AND APPROVAL		ISSUED FOR PROCUREMENT ON _____			<p>SILVER SPRING INTERMEDIATE NEIGHBORHOOD PARK</p> <p>Construction Details</p> <p>SCALE: AS SHOWN</p> <p>PLAN NUMBER: 42019125E TAX MAP: JN342 WSSC GRID: 209NW01</p>		<p>L302</p> <p>SHT. # 15 OF 18</p>			
Designer's Name DAVE NORDEN		Landscape Architect				Date	Checked By:			REVISIONS						
Address 1775 GREENSBORO STATION PLACE, SUITE 110		Architect				Date	Checked By:			Rev. No.					Date	Description
City/State/Zip TYSONS, VIRGINIA, 22102		Engineer				Date	Checked By:			1					12/20/18	Design Development
Telephone Number 703-821-2045		Drawn by				Date	Checked By:			2					05/08/19	Rev. Simplified NRI and FC Exemption
										3					06/04/19	Final Design Development

FINAL SCANNED:

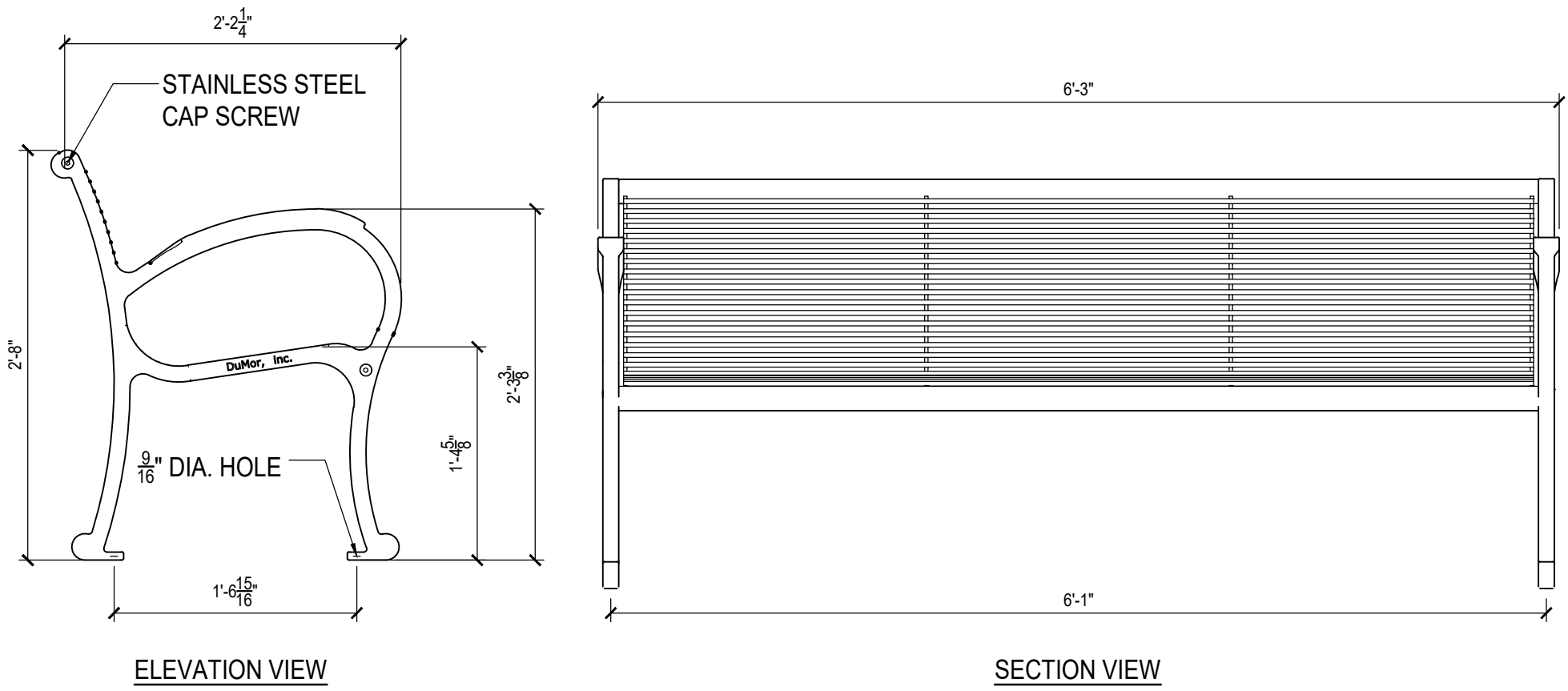
PLAN SCANNED:

PARK CODE: C10

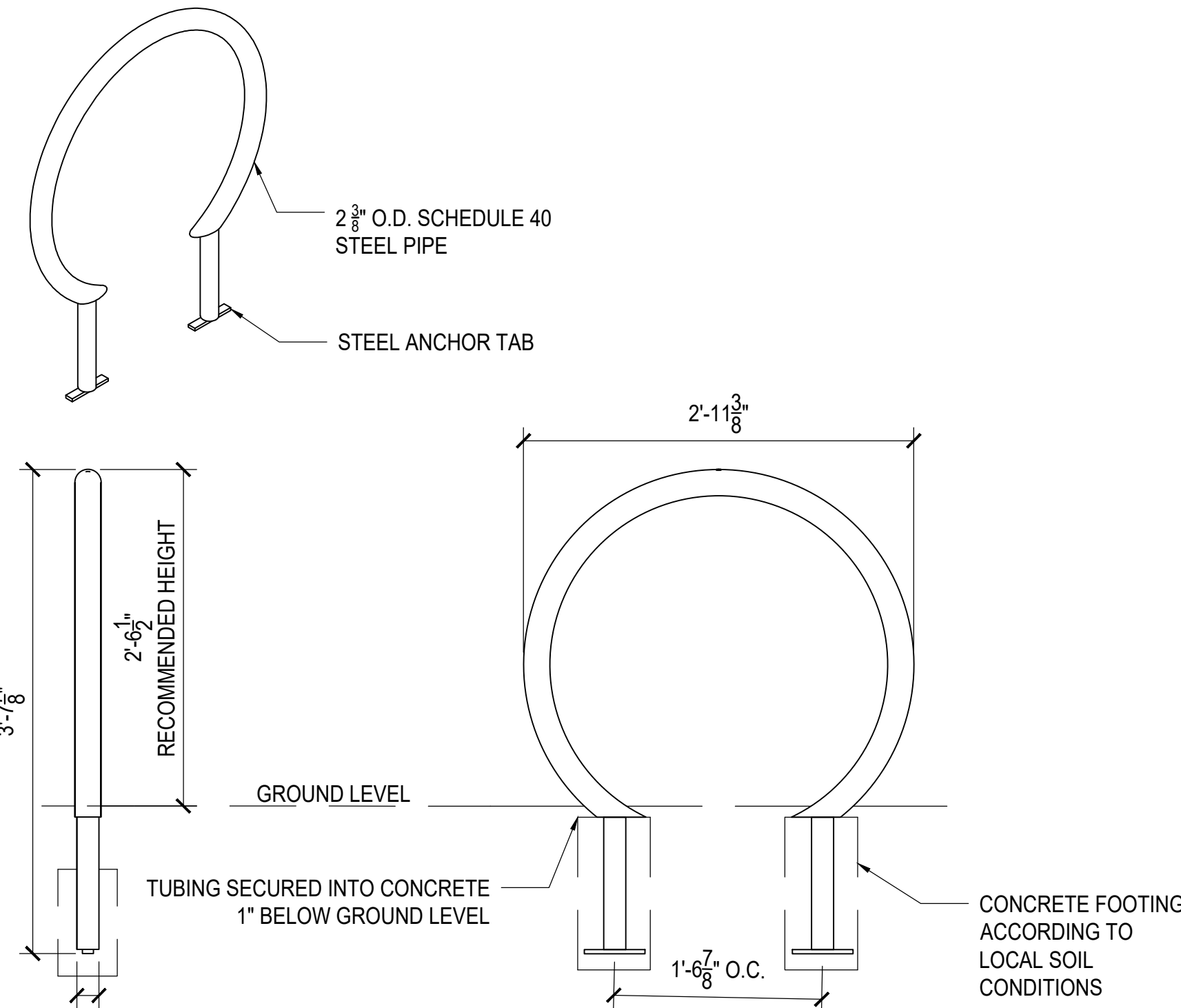
Q:\2012\12136.06 - Silver Spring Intermediate Neighborhood Park\01_Caddos\1301_LSSIN.dwg L303 Plotted By: Matthew Stowell, 6/7/2019 9:57 AM, -----



5 DRINKING FOUNTAIN



6 BENCH B
1' = 1' 0"

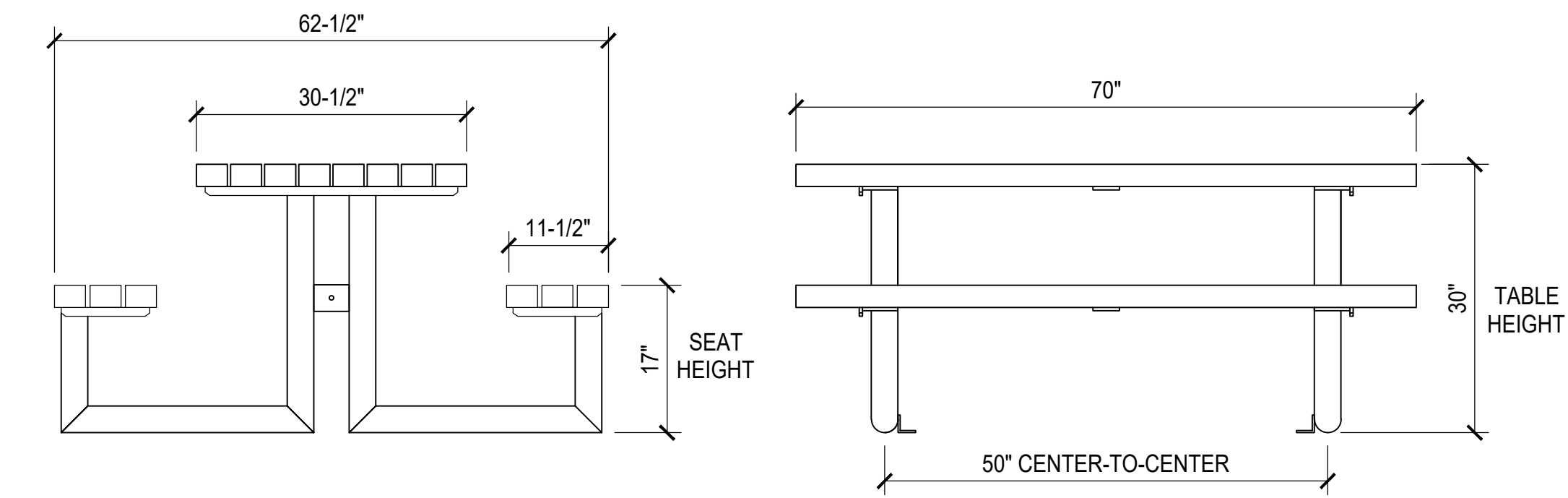


4 BIKE RACK
1' = 1' 0"

SITE FURNISHINGS						
TYPE	MANUFACTURER	MODEL	SIZE	FINISH	COLOR	OTHER
ACCESSIBLE PICNIC TABLE	VICTOR STANLEY; (301) 855-8300	PARSONS PT-2 ADA	62-1/2" x 94"	MFRS STANDARD	REFER TO PARKS STAFF	SURFACE MOUNT; PROVIDE MFRS OPTIONAL UMBRELLA HOLE
PICNIC TABLE		PARSONS PT-2	62-1/2" x 70"			SURFACE MOUNT; PROVIDE MFRS OPTIONAL GAMEBOARD
BENCH A		RBW-28	70" X 30" X 23 5/8"			DIRECT EMBED
BIKE RACK		BRHS-101	2' 1-3/8" X 2' 7-7/8"			SURFACE MOUNT
BENCH B	DUMOR (800) 598-4018	BENCH 168	2' 8" X 2' 2 1/4" X 6' 3"	POWDER COAT	BRONZE	
ORNAMENTAL FENCE	AMERISTAR FENCE PRODUCTS; (888) 333-3422	WIREFWORKS PLUS	48" H & 72" H	MFRS STANDARD	REFER TO PARKS STAFF	DIRECT EMBED
DRINKING FOUNTAIN	MURDOCK; (800) 453-7465	M-23B	42" HEIGHT	ENAMEL	BLACK	SURFACE MOUNT
TRASH RECEPTACLE	VICTOR STANLEY; (301) 855-8300	TH-24	24 1/2" W X 27 1/2" H	WOOD	BLACK	RAIN BONNET LID
SURFACING						
FILLER COURSE	SPORTMASTER; (800) 395-7325	ACRYLIC RESURFACER WITH SAND (CMT-33)	-	SANDED, ACRYLIC	BLACK	INSTALLATION PER MANUFACTURERS INSTRUCTION AND RECOMMENDATIONS
COLOR COATING		COLOR CONCENTRATE WITH SAND (CMT-2)	-	SANDED, ACRYLIC	LIGHT GREEN	
WHITE LINE PAINT		T/C TEXTURED WHITE LINE PAINT	-	SANDED, ACRYLIC	WHITE	

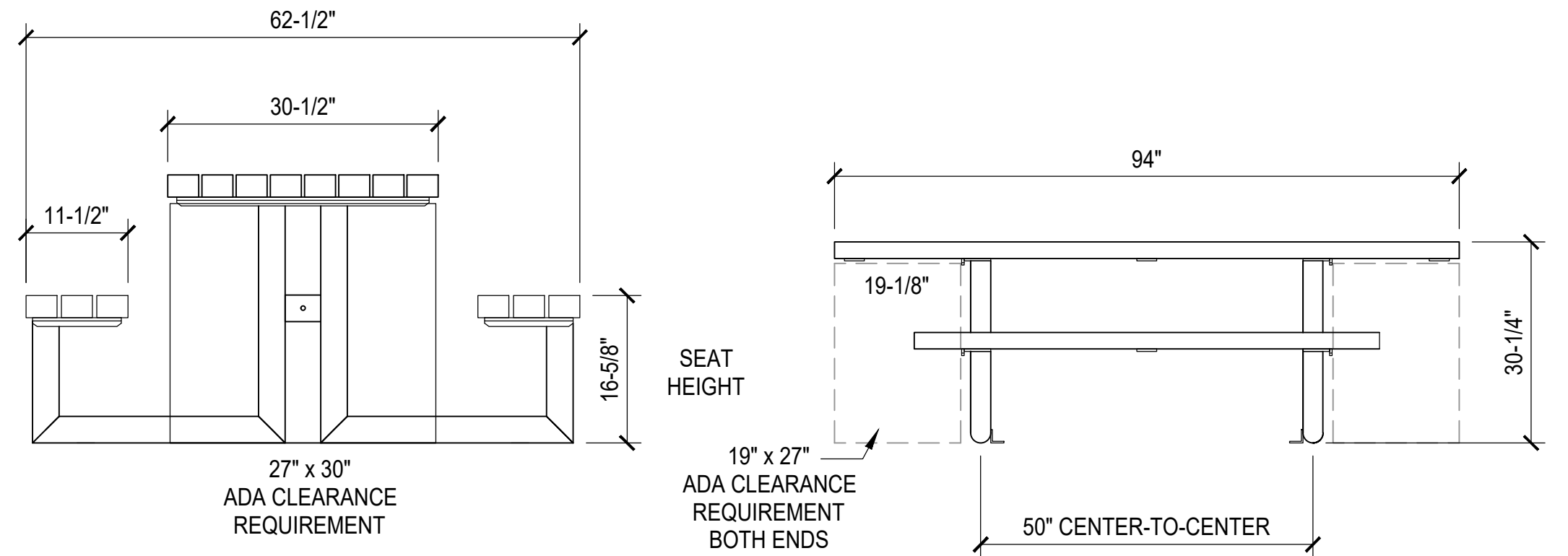
- NOTES:
1. ALL PRODUCTS ARE LISTED AS THE BASIS OF DESIGN. OR EQUAL SUBSTITUTION MUST BE APPROVED IN WRITING.

PRODUCT SCHEDULE

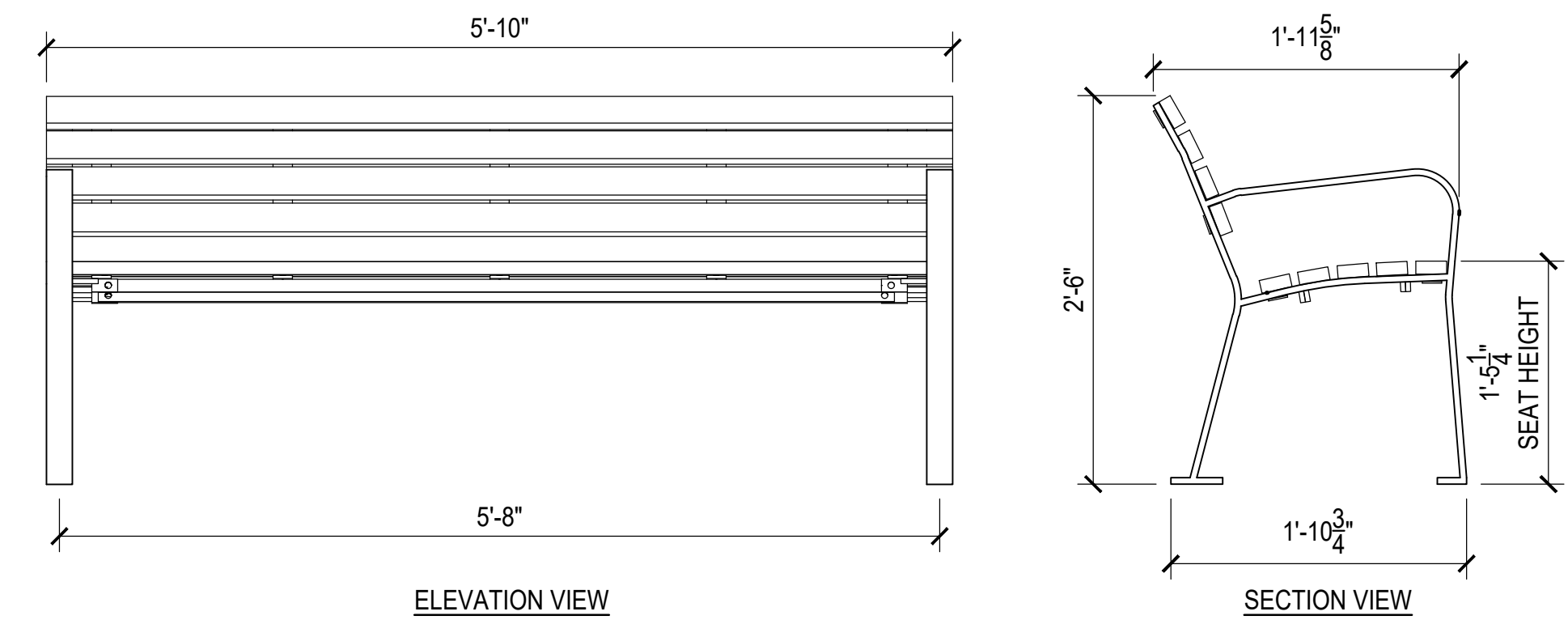


- NOTES:
1. INSTALLATION PER MANUFACTURER'S SPECIFICATIONS.

1 PICNIC TABLE
NTS



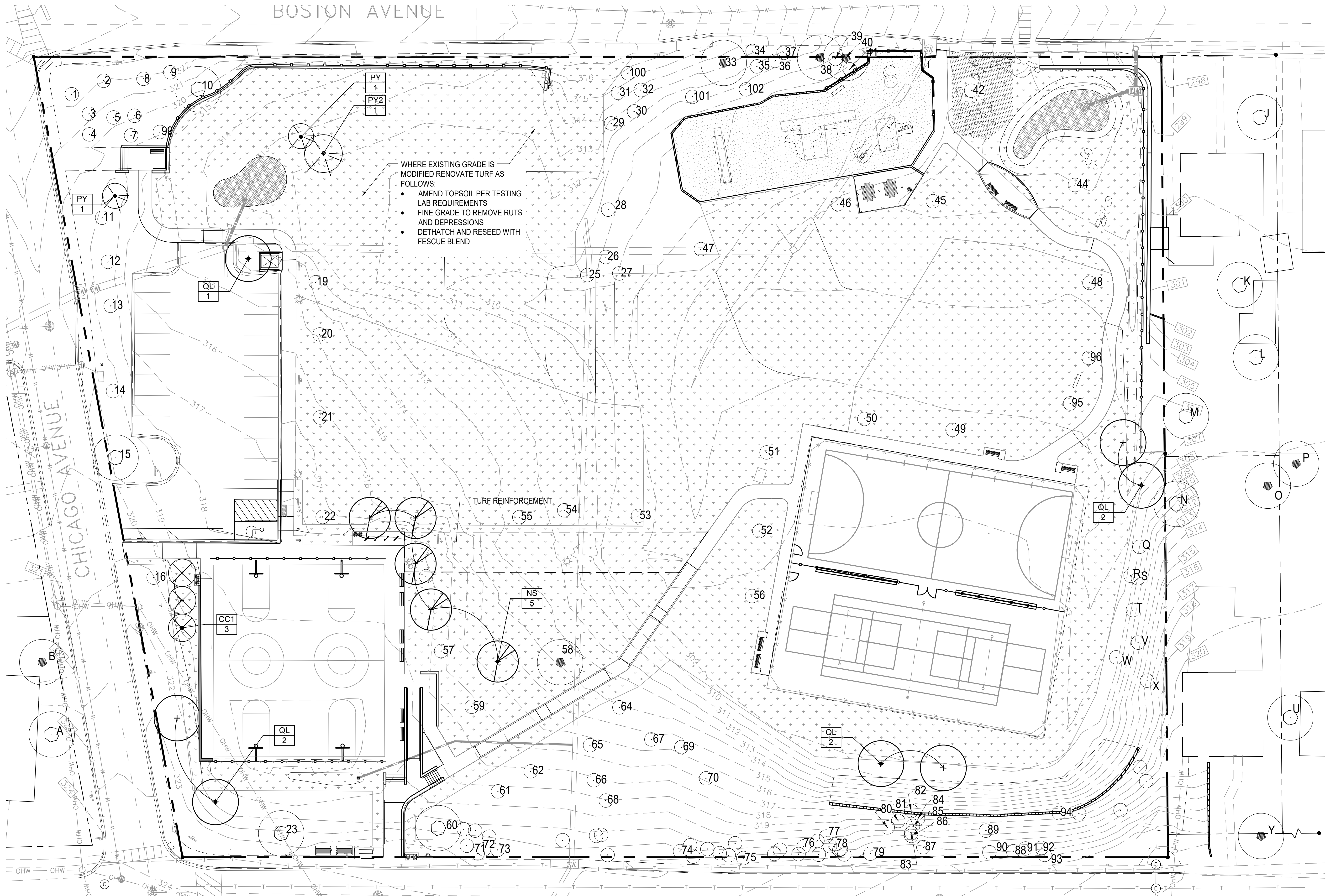
2 ADA PICNIC TABLE
NTS



- NOTE:
1. REFER TO PRODUCT SCHEDULE

3 BENCH A
1' = 1' 0"

LSG LANDSCAPE ARCHITECTURE		DESIGN			Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License No. _____ Expiration Date _____	 The Maryland-National Capital Park and Planning Commission Montgomery County Department of Parks 9500 Brunett Avenue Silver Spring, Maryland 20901 (301) 495-2535	REVIEW AND APPROVAL		ISSUED FOR PROCUREMENT ON _____			SILVER SPRING INTERMEDIATE NEIGHBORHOOD PARK Construction Details SCALE: AS SHOWN PLAN NUMBER: 42019125E TAX MAP: JN342 WSSC GRID: 209NW01	L303 SHT. # 16 OF 18
Designer's Name DAVE NORDEN		Landscape Architect	Date	Checked By:			REVISIONS						
Address 1775 GREENSBORO STATION PLACE, SUITE 110		Architect	Date	Checked By:			Rev. No.	Date	Description				
City/State/Zip TYSONS, VIRGINIA, 22102		Engineer	Date	Checked By:			1	12/20/18	Design Development				
Telephone Number 703-821-2045		Drawn by	Date	Checked By:			2	05/08/19	Rev. Simplified NRI and FC Exemption				
							3	06/04/19	Final Design Development				

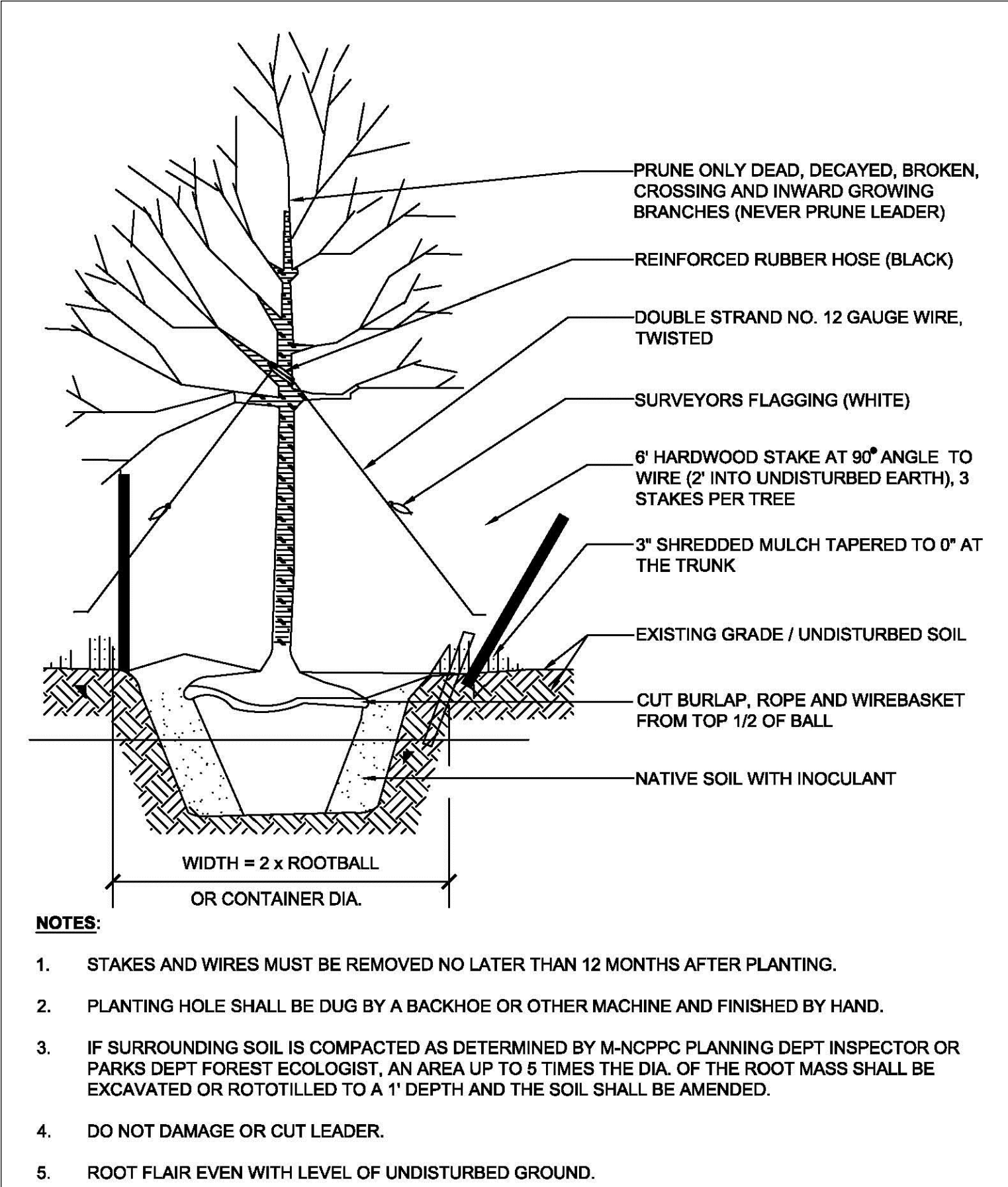


PLANT SCHEDULE							
CANOPY TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	TYPE	SPACING	REMARKS
NS	5	NYSSA SYLVATICA	BLACK GUM	3" CAL	B&B	AS SHOWN	MATCHED SPECIMENS, BALANCED CANOPY
QL	7	QUERCUS LYRATA	OVERCUP OAK	3" CAL	B&B	AS SHOWN	MATCHED SPECIMENS, BALANCED CANOPY
ORNAMENTAL TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	TYPE	SPACING	REMARKS
CC1	3	CERCIS CANADENSIS 'ALBA'	WHITE EASTERN RED BUD	8' HT.	B&B	AS SHOWN	MULTI STEM, 3 - 5 STEMS, MATCHED SPECIMENS, BALANCED CANOPY
PY2	1	PRUNUS X YEDOENSIS 'YOSHINO'	JAPANESE FLOWERING CHERRY	14' HT	B&B	AS SHOWN	MATCHED SPECIMENS, BALANCED CANOPY
PY	2	PRUNUS X YEDOENSIS 'YOSHINO'	JAPANESE FLOWERING CHERRY	8' HT.	B&B	AS SHOWN	MATCHED SPECIMENS, BALANCED CANOPY
GROUND COVERS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	TYPE	SPACING	REMARKS
TRF	81,280 SF	TURF SEED		FLAT			

- NOTES:
- REFER TO SPECIFICATIONS FOR SUBMITTAL REQUIREMENTS INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING: SOIL ANALYSES AND AMENDMENT RECOMMENDATIONS; SOURCE LIST AND PHOTOGRAPHS FOR INITIAL SELECTION; PHOTOGRAPHS FOR VERIFICATION.
 - REFER TO SPECIFICATIONS FOR TREE TAGGING REQUIREMENTS.
 - REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
 - MEET REQUIREMENTS OF ANSI Z60.1, LATEST ADDITION, FOR ALL PLANT MATERIAL.
 - QUANTITIES GIVEN ARE FOR INFORMATION ONLY. CONTRACTOR IS RESPONSIBLE FOR MEETING THE DESIGN INTENT, AS INDICATED ON PLANTING PLANS.
 - ALL PLANTS ARE TO BE HEALTHY, FULL, BALANCED, AND EXCEPTIONALLY HEAVY.
 - PROVIDE TURF PER SPECIFICATIONS IN ALL DISTURBED AREAS NOT OTHERWISE PLANTED OR PAVED.

3

PLANT SCHEDULE



1

DECIDUOUS TREE

2

ORNAMENTAL TREE

NTS

LSG LANDSCAPE ARCHITECTURE			DESIGN			<div>Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.</div> <div><div></div><div>The Maryland-National Capital Park and Planning Commission</div><div>Montgomery County Department of Parks 9500 Brunett Avenue Silver Spring, Maryland 20901 (301) 495-2535</div></div>			REVIEW AND APPROVAL			ISSUED FOR PROCUREMENT ON _____			<div>SILVER SPRING INTERMEDIATE NEIGHBORHOOD PARK</div> <div>Planting Details</div> <div>SCALE: AS SHOWN</div> <div>PLAN NUMBER: 42019125E TAX MAP: JN342 WSSC GRID: 209NW01</div> <div>SHT. # 18 OF 18</div>		
Designer's Name DAVE NORDEN			Landscape Architect						Date	Checked By:	REVISIONS						
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									3			06/04/19	Final Design Development				