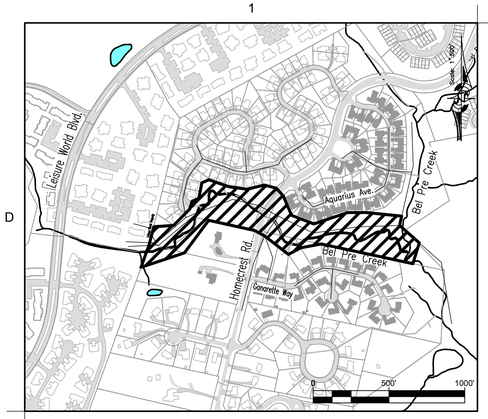
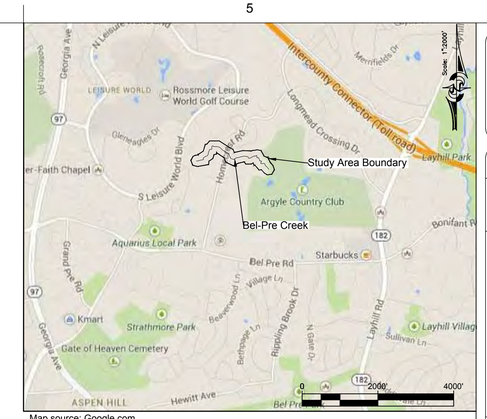
WRE 12
TASK ORDER 25
BEL-PRE STREAM RESTORATION

CONCEPT PLAN - NOT FOR CONSTRUCTION OR CONSTRUCTION DOCUMENTS



LOCATION MAP

1" = 500'



Map source: Google.com

VICINITY MAP

1:2000

INDEX TO DRAWINGS

SHEET NO.	TITLE	SHEET NAME
1.	COVER SHEET, INDEX OF DRAWING, LOCATION MAP AND VICINITY MAP	V-01
2.	MASTER LEGEND	ML-01
3.	SITE LAYOUT SHEET	SL-01
4.	EXISTING CONDITIONS/DEMOLITION PLAN/TREE REMOVALS	EC-01
5.	EXISTING CONDITIONS/DEMOLITION PLAN/TREE REMOVALS	EC-02
6.	EXISTING CONDITIONS/DEMOLITION PLAN/TREE REMOVALS	EC-03
7.	EXISTING CONDITIONS/DEMOLITION PLAN/TREE REMOVALS	EC-04
8.	EXISTING CONDITIONS TREE TABLES	EC-05
9.	GEOMETRY PLAN	GE-01
10.	GEOMETRY PLAN	GE-02
11.	GEOMETRY PLAN	GE-03
12.	GRADING PLAN	GR-01
13.	GRADING PLAN	GR-02
14.	GRADING PLAN	GR-03
15.	GRADING PLAN	GR-04
16.	EROSION AND SEDIMENT CONTROL PLAN	EP-01
17.	EROSION AND SEDIMENT CONTROL PLAN	EP-02
18.	EROSION AND SEDIMENT CONTROL PLAN	EP-03
19.	EROSION AND SEDIMENT CONTROL PLAN	EP-04
20.	FOREST RESOURCE PLAN	FR-01
21.	FOREST RESOURCE PLAN	FR-02
22.	FOREST RESOURCE PLAN	FR-03
23.	FOREST RESOURCE PLAN	FR-04
24.	PROFILES	PR-01
25.	PROFILES	PR-02
26.	PROFILES	PR-03
27.	CROSS SECTIONS	CS-01
28.	CROSS SECTIONS	CS-02
29.	CROSS SECTIONS	CS-03
30.	CROSS SECTIONS	CS-04
31.	CROSS SECTIONS	CS-05
32.	CROSS SECTIONS	CS-06
33.	CROSS SECTIONS	CS-07
34.	NON-STANDARD STRUCTURE DETAILS	DE-01
35.	NON-STANDARD STRUCTURE DETAILS	DE-02
36.	NON-STANDARD STRUCTURE DETAILS	DE-03
37.	NON-STANDARD STRUCTURE DETAILS/SEQUENCE OF CONSTRUCTION	DE-04
38.	STANDARD NOTES AND DETAILS	DE-05
39.	STANDARD NOTES AND DETAILS	ER-01
40.	LANDSCAPE PLAN	LS-01
41.	LANDSCAPE PLAN	LS-02
42.	LANDSCAPE PLAN	LS-03
43.	LANDSCAPE PLAN	LS-04
44.	LANDSCAPE PLAN NOTES & SCHEDULE	LS-05
45.	LANDSCAPE PLAN PLANTING DETAILS	LD-01

MS4 SUMMARY TABLE - STREAM RESTORATION

MS4 SUMMARY TABLE - STREAM RESTORATION

REACH ID	RESTORATION LENGTH (LF)	DRAINAGE AREA (AC)[1]	CREDITED IA (AC)[2]
1	1165.00	814.30	11.60
2	380.00	814.30	3.80
3	No Work Performed		
4	836	814.3	8.3
Total	2381.00	2442.90	23.70

1. DRAINAGE AREA IS THE TOTAL PHYSICAL DRAINAGE AREA TO THE REACH.
2. CREDITED IMPERVIOUS AREA IS THE CURRENTLY UNTREATED IMPERVIOUS AREA THAT FALLS WITHIN MONTGOMERY COUNTY'S MS4 JURISDICTION.
3. TREATMENT CREDIT = 1AC PER 100LF RESTORATION.

Benchmark Data Table

Benchmark	Northing	Easting	Elevation	Description
2	521711.80	1295171.32	393.81	TRV-R/C
3	521595.87	1295497.25	384.43	TRV-R/C
4	521871.81	1294957.36	398.03	TRV-R/C
6	521715.91	1294715.20	399.99	TRV-R/C
7	521547.60	1294502.72	400.14	TRV-R/C
8	521644.73	1295857.49	380.75	TRV-R/C
9	521650.88	1296110.04	380.88	TRV-R/C
10	521484.60	1296123.82	371.42	TRV-Nail

RELATED REQUIRED PERMITS

To be completed by the consultant and placed on the first sheet of the Sediment Control/Stormwater Management plan set for all projects

IT IS THE RESPONSIBLITY OF PERMITTEE/OWNER OF THIS SITE TO OBTAIN ALL REQUIRED PERMITS PRIOR TO ISSUANCE OF THE APPROVED SEDIMENT CONTROL PERMIT:

TYPE OF PERMIT	REQ'D	NOT REQ'D	PERMIT NO.	EXPIRATION DATE	WORK RESTRICTION DATES
MCDPS Floodplain district	X				
WATERWAYS/WETLAND(S)	X				March 1 - May 31
a. Corps of Engineers	X				
b. MDE	X				
c. MDE Water Quality Certification	X				
MDE Dam Safety		X			
NPDES NOTICE OF INTENT	X		NA	NA	DATE FILED
OTHERS (Please List):					
MNCPPC		X			
WSSC	X				
MC ROW	X				

MISS UTILITY

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.

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED IN ACCORDANCE WITH THE APPROVED CPJ QUALITY ASSURANCE AND QUALITY CONTROL PROCESSES AND STANDARDS.

JAMES FETCHU, CPJ ENVIRONMENTAL DIVISION MANAGER

HAZEN AND SAWYER
Environmental Engineers & Scientists
4011 WestChase Blvd, Raleigh, North Carolina 27607

SEAL:

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 #: MD PE #20207

EXPIRATION DATE: OCTOBER 6, 2015

MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES APPROVED FOR:

STORMWATER MANAGEMENT
REVIEWED DATE
APPROVED DATE
S.M.FILE NO.

SEDIMENT CONTROL TECHNICAL REQUIREMENTS:
REVIEWED DATE
APPROVED DATE

NOTE: MCDPS APPROVAL DOES NOT NEGATE THE NEED OF A MCDPS ACCESS PERMIT

ADMINISTRATIVE REQUIREMENTS:
REVIEWED DATE
SEDIMENT CONTROL PERMIT NO.

MCDPS APPROVAL OF THIS PLAN WILL EXPIRE ONE YEAR FROM THE DATE OF APPROVAL IF THE PROJECT HAS NOT STARTED, UNLESS THE PERMIT HAS BEEN EXTENDED.

Department of Environmental Protection
Montgomery County Maryland

MARK	DESCRIPTION	DATE	APPR.	MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: TES
DWN BY: GM/HT/SPT
CKD BY: JMF
SUBMITTED BY: GM
DATE: JUNE 2015
TASK ORDER NO.: WRE12-25
CONTRACT NO.:
FILE NUMBER:
PLOT SCALE: As Shown
PLOT DATE: 6/26/15
SIZE: ANSI D
FILE NAME: 25-CV.DWG

MR. CRAIG CARSON 240-777-7713
MONTGOMERY COUNTY DEPARTMENT OF ENVIRONMENTAL PROTECTION
255 ROCKVILLE PIKE
ROCKVILLE, MD 20850

WRE 12 - TASK ORDER 25
BEL-PRE STREAM RESTORATION
(13TH) ELECTION DISTRICT
MONTGOMERY COUNTY, MARYLAND

COVER SHEET

SHEET NO.
1 of 45

CV-01

Attached Xref: 25-G-BD00.dwg

ABBREVIATIONS

Ac.	ACRE(S)
ACI	American Concrete Institute
ASTM	American Society for Testing Materials
AHD	Ahead
APPROX.	Approximate
℄ or B/L	Baseline
BK	Back / Book
BIT.	Bituminous
B.C.	Bituminous Concrete
B.M.	Bench Mark
BOT.	Bottom
C/C	Center-to-Center
CF	Cubic Feet
cfs	Cubit Feet per Second
CPv	Channel Protection Volume
D	Depth
D50	50th Percentile of Diameter
D.I.P.	Ductile Iron Pipe
C.C.	Center of Curve
CAP	Corrugated Aluminum Pipe
CAPA	Corrugated Aluminum Pipe Arch
CATV	Cable Television
C/L	Centerline
CL.	Class
CLF	Chainlink Fence
CMP	Corrugated Metal Pipe
C.O.	Cleanout
COMB.	Combination
CONC.	Concrete
CONSTR.	Construction
COR.	Corner
CORR.	Correction
CPP-S	Corrugated Polyethylene Pipe - Type 'S'
CSP	Corrugated Steel Pipe - Aluminized Type 2
CSPA	Corrugated Steel Pipe Arch - Aluminized Type 2
DC	Degree of Curve
D.H.V.	Design Hourly Volume
D.I.	Drop Inlet
DIA.	Diameter
D.O.	Double Opening
E	East
E	Electric
EA	Each
ELEV	Elevation
ES	End Section
EX or EXIST	Existing
f.p.s.	Feet Per Second
FT	Feet
F or FL	Flowline
F.B.D.	Flat Bottom Ditch
FES	Flared End Section
F.H.	Fire Hydrant
FWD.	Forward
G	Gas
GALV.	Galvanized
G.V.	Gas Valve
H.B.	Handbox
H.D.P.E.	High Density Polyetheylene
HDWL.	Headwall
HGL	Hydraulic Grade Line
HSG	Hydrologic Soil Group
HERCP	Horizontal Ellipitical Reinforced Concrete Pipe
HP	High Point
IN	Inch
I.S.T	Inlet Sediment Trap
INV.	Invert
IPF	Iron Pipe Found
J.B.	Junction Box
K	K Inlet
L	Length
LF	Linear Feet
L.L.	Liquid Limit
LP	Low Point
L.P.	Light Pole
L.T.	Left
MAC.	Macadam
MAX.	Maximum
MOD.	Modified
MIN.	Minimum
MCDPS	Montgomery County Department of Permitting Services
MDE	Maryland Department of the Environment
MH	Manhole
MNCPPC	Maryland National Capital Park and Planning Commission
MSHA	Maryland State Highway Administration
NTS	Not To Scale
N	North
NB	Northbound
NE	Northeast
N.P.	Non-Plastic
O.C.	On Center
OHE	Overhead Electric

P	Pump
PAV'T.	Pavement
PC	Point of Curvature
PCC	Point of Compound Curvature
PCCP	Prestressed Cylinder Concrete Pipe
P/C	Point of Crown
P/GE	Profile Grade Elevation
P.G.E.	Profile Ground Elevation
P.G.L.	Profile Grade Line
P/GL	Profile Ground Line
P.I.	Plasticity Index
PI	Point of Intersection
POC	Point On Curve
POT	Point On Tangent
PPWP	Polyvinyl Chloride Profile Wall Pipe
PR or PROP	Proposed
PRC	Point of Reverse Curve
PT	Point
PT	Point of Tangency
PVC	Polyvinyl Chloride
R	Radius
R.F.	Rock Fragments
RT	Right
RW OR R/W	Right of Way
R.C.P.	Reinforced Concrete Pipe
RCPP	Reinforced Concrete Pressure Pipe
R.Q.D.	Rock Quality Designation
R.M.	Rootmat
RN	Rebar and Cap
S	South
SAN.	Sanitary Sewer
SB OR S/B	Southbound
SCE	Stabilized Construction Entrance
S.D.	Storm Drain
S.D.D.	Surface Drain Ditch
SF	Silt Fence
SF	Square Feet
SHT.	Sheet
S.P.T.	Standard Penetration Testing
SRP	Steel Spiral Rib Pipe - Aluminized Type 2
SRPA	Steel Spiral Rib Pipe arch - Aluminized Type 2
SSF	Super Silt Fence
S.S.	Side Slope
STD.	Standard
STA.	Station
SO.	Single Opening
SY	Square Yards
SWM	Stormwater Management
T	Tangent
T	Telephone
T.C.	Top of Cover
T.G.	Top of Grate
T OR TL	Traverse Line
T.M.	Top of Manhole
TRAV. or TRV	Traverse
TS	Temporary Swale
T.S.	Top of Slab
T.S.	Topsoil
TYP.	Typical
U.D.	Under Drain
U.G.	Underground
U.P.	Utility Pole
USDA	United States Department of Agriculture
v	Velocity
W	Water
W	West
WB	Westbound
WB	Wetland Buffer
W.M.	Water Meter
W.S.	Wrapped Steel
WSE	Water Surface Elevation
WSSC	Washington Suburban Sanitary Commission
WUS	Waters of the United States
W.V.	Water Valve
WQv	Water Quality Volume
XS	Geofluvial Cross Section
Ø	Diameter

STREAM RESTORATION LIST OF ABBREVIATIONS	
G	GLIDE
CV	CROSS VANE
P	POOL
R	RIFFLE
RU	RUN
JH	J-Hook
RGC	Riffle Grade Control

LEGEND

425	MAJOR CONTOURS
424	MINOR CONTOURS
	PROPOSED THALWEG
	WATER SURFACE
	TOP OF BANK
	EXISTING 100 YEAR FLOODPLAIN
100YR	PROPOSED 100 YEAR FLOODPLAIN
LOD LOD	LIMIT OF DISTURBANCE
SF SF SF	SILT FENCE
SSF SSF	SUPER SILT FENCE
TSF TSF	TRENCHLESS SILT FENCE
TSSF TSSF	TRENCHLESS SUPER SILT FENCE
SFOP SFOP	SILT FENCE ON PAVEMENT
TPF TPF	TREE PROTECTION FENCE
RP RP RP	ROOT PRUNING
BOF BOF	BLAZE ORANGE FENCE
	EXISTING SEWER EASEMENT
	PROPOSED EASEMENT
	EX. TREE TO BE REMOVED
	EX. TREE TO REMAIN
	CRITICAL ROOT ZONE
	STAGING AND STOCKPILING AREA
	MULCH ACCESS ROAD
SCE	STABILIZED CONSTRUCTION ENTRANCE
D	CURB INLET PROTECTION

452	EXISTING MAJOR CONTOUR
450	EXISTING MINOR CONTOUR
	EXISTING THALWEG
	PROPERTY LINE
SD SD SD	STORM DRAIN
SEW SEW	SANITARY SEWER
W W	WATER SUPPLY
UE UE	ELECTRIC/UNDERGROUND
OHE OHE	ELECTRIC/OVERHEAD
G G	GAS
C C	CABLE
T T T	TELEPHONE
FO FO FO	COMMUNICATIONS/FIBER OPTIC
	EXISTING SIDEWALK
	TREELINE
	FOREST LINE
SB SB	STREAM BUFFER
25	TRAVERSE POINT
TFP	TRAFFIC POLE
EJB	ELECTRIC JUNCTION BOX
D	STORMDRAIN MANHOLE
G	GAS METER
G	GAS VALVE
W	WATER METER
W	WATER VALVE
	FIRE HYDRANT
S	SEWER MANHOLE
S	SEWER CLEAN OUT
T	TELCO MANHOLE
TR/	TELCO RISER
	SIGN
	LIGHT POLE
	UTILITY POLE
	GUY WIRE
E	ELECTRIC MANHOLE
T	TRANSFORMER
TELP	TELEPHONE BOX
	CONCRETE SIDEWALK
HW	STRUCTURAL LABEL
3:1	DRAINAGE SLOPE
NWBP 201 75m	MOCO MONITORING STATION
	EXISTING FLARED END SECTION
	EXISTING BUILDING

	PROPOSED/EXISTING RIPRAP
	WOOD FENCE
X X X	CHAIN LINK FENCE
	GEOFLUVIAL CROSS SECTION
	PROPOSED/EXISTING CONCRETE ENCASEMENT
	RIFFLE GRADE CONTROL
	CROSS VANE (CV)
	J-HOOK (JH)
	STONE SILL
	WOOD TOE
	EROSION CONTROL MAT (ECM)
	TREE PLANKING
	PUMP AROUND PIPE
FB	FILTER BAG SYSTEM
P	PUMP
	COFFER DAM
	CASCADE
	LIVE STAKES
	TREE/SHRUB PLANTING AREA

SEAL:

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 #:

EXPIRATION DATE:

MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES APPROVED FOR:

STORMWATER MANAGEMENT

REVIEWED DATE

APPROVED DATE

S.M.FILE NO.

SEDIMENT CONTROL TECHNICAL REQUIREMENTS:

REVIEWED DATE

APPROVED DATE

NOTE: MCDPS APPROVAL DOES NOT NEGATE THE NEED OF A MCDPS ACCESS PERMIT

ADMINISTRATIVE REQUIREMENTS:

REVIEWED DATE

SEDIMENT CONTROL PERMIT NO.

MCDPS APPROVAL OF THIS PLAN WILL EXPIRE ONE YEAR FROM THE DATE OF APPROVAL, IF THE PROJECT HAS NOT STARTED, UNLESS THE PERMIT HAS BEEN EXTENDED.

Department of Environmental Protection
Montgomery County Maryland

MARK	DESCRIPTION	DATE	APPR.

MARK	DESCRIPTION	DATE	APPR.

MR. CRAIG CARSON 240-777-7713
MONTGOMERY COUNTY DEPARTMENT OF ENVIRONMENTAL PROTECTION
255 ROCKVILLE PIKE
ROCKVILLE, MD 20850

DESIGNED BY: TESS	DATE: JUNE 2015
DWN BY: GM/HT/SPT	CKD BY: JMF
SUBMITTED BY: GM	TASK ORDER NO.: WRE 12-25
PLOT SCALE: As Shown	PLOT DATE: 6/26/15
SIZE: ANSI D	FILE NAME: 25-GL0000.dwg
	CONTRACT NO.:
	FILE NUMBER:

WRE 12, TASK ORDER 25
BEL-PRE STREAM RESTORATION

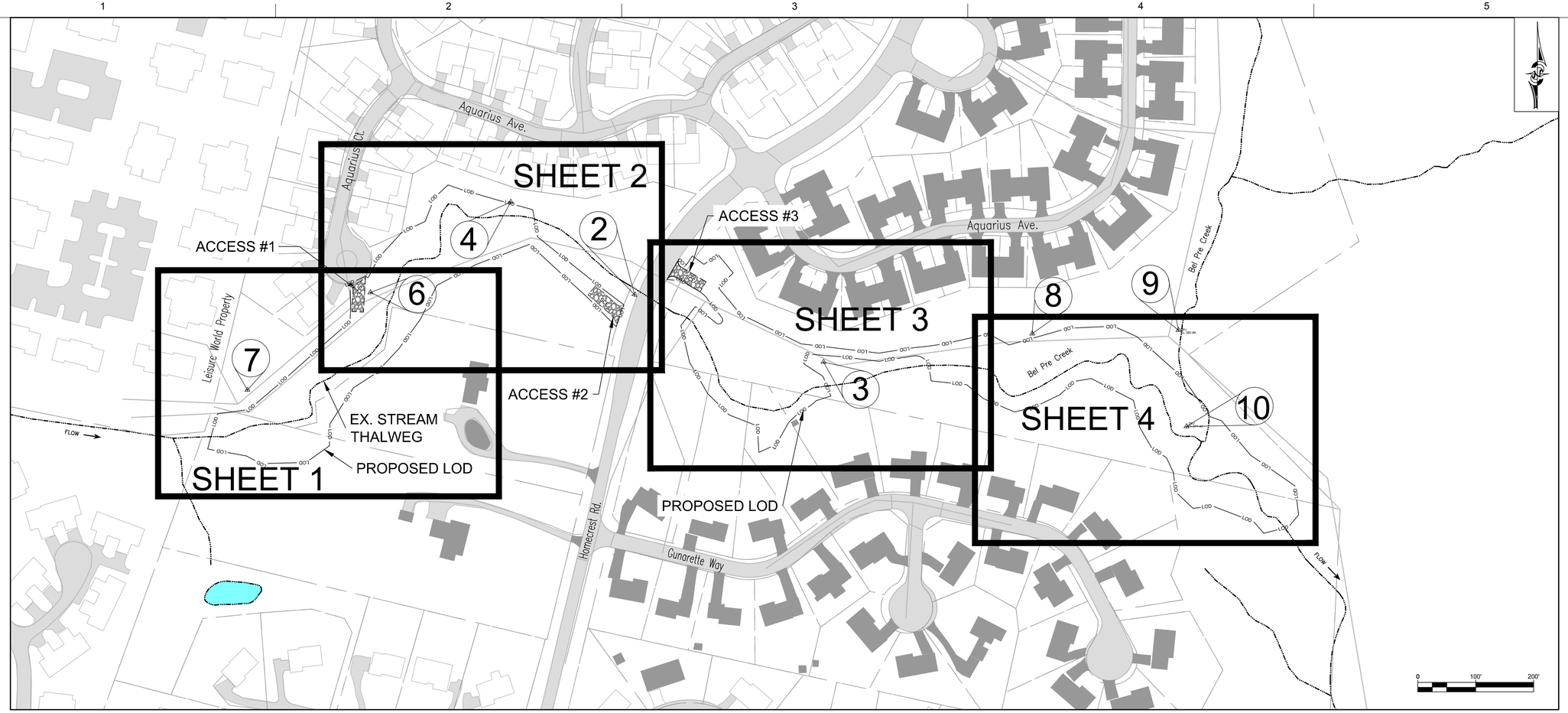
(13TH) ELECTION DISTRICT
MONTGOMERY COUNTY, MARYLAND

MASTER LEGEND

SHEET NO.
2 of 45

ML-01

Attached Xref: 25-G-B1000.dwg



GENERAL NOTES

1. Site topography taken from Kim Engineering dated June 2014.
2. Surrounding project topography taken from Montgomery County LIDAR 1 foot interval dated November 2008.
3. Horizontal and Vertical Datum using MD State Grid NAD 83 and NAVD 88.
4. There are no wetlands indicated on site. A wetland assessment was conducted through a combination of CPJ's field observations of vegetation, soils, and hydrology; information from National Wetlands Inventory Map #45066; and on hydric soils mapped in the soil survey. No jurisdictional determination was performed by MDE/ACOE to verify the delineation shown.
5. Waters of the US limits are from top of bank to top of bank.
6. The contractor shall notify "Miss Utility" at 1-800-257-7777 at least 48 hours prior to any excavation work.
7. All quantities hereon are estimates only, the contractor is responsible for verifying quantities through a field visit and his own quantity takeoffs.
8. ALL AREAS OF STREAM DISTURBANCE MUST BE STABILIZED AT THE END OF EACH WORK DAY.
9. These plans were prepared with the field information at the time of project survey. It is possible that field conditions as of the date of construction vary from these plans and it is the contractor's responsibility to verify field conditions such as elevations, depths, etc. prior to proceeding with work. It is the contractor's responsibility to verify with the supplier/manufacturer of any proprietary product that their product will function per the design for the field conditions at time of construction.
10. The Design Engineer should be notified immediately if any deviations from the design plan are found.
11. All specified and/or proprietary products shown hereon may be subject to substitution with other products recommended by the contractor, subject to written review and approval of the Design Engineer.
12. All disturbed areas must be topsoiled per the Montgomery County "Standards and Specification for Topsoil". See topsoil specifications in specification manual.
13. Professional Certification. I hereby certify that these documents were prepared or approved by me, Timothy Schueler, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. MD PE #20207, Expiration Date: 10/6/15.
14. All streams within the Montgomery County portion of the NW Branch watershed are use IV, recreational trout waters. In stream work may not be conducted March 1 - May 31, inclusive during any year.
15. Existing 100yr floodplain shown is per the HEC-RAS model performed by CPJ June 2015.

TRAVERSE CHART

TRAVERSE POINT	NORTHING	EASTING	ELEV.	DESCRIPTION
2	521711.80	1295171.32	393.81	TRV-R/C
3	521595.87	1295497.25	384.43	TRV-R/C
4	521871.81	1294957.36	398.03	TRV-R/C
6	521715.91	1294715.20	399.99	TRV-R/C
7	521547.60	1294502.72	400.14	TRV-R/C
8	521644.73	1295857.49	380.75	TRV-R/C
9	521650.88	1296110.04	380.88	TRV-R/C
10	521484.60	1296123.82	371.42	TRV-R/C

SPECIAL CONSTRUCTION REQUIREMENTS FOR WORK PERFORMED IN THE VICINITY OF THE EXISTING SEWER MAINS

1. Construction vehicles generating a load greater than an AASHTO HS20 and vibratory compaction equipment are not permitted within 10 feet clear of the existing sewer transmission main(s).
2. The Contractor shall submit construction vehicle specifications for all vehicles to be used closer than 10 feet clear or crossing of any existing PCCP main(s) to the WSSC Relocations Unit for WSSC approval prior to commencing work over the mains.
3. Stockpiling of soil or other material is not permitted within the existing WSSC right of way or within 10 feet clear of any PCCP sewer mains.
4. The contractor shall locate and stake out the existing mains and maintain the markers during construction.
5. The contractor shall use special care while performing work in the vicinity of any PCCP sewer as any damage that is required as result of their work over the mains shall be the full responsibility of the contractor.
6. Contractor to provide access to WSSC for sanitary sewer relining during in-stream work periods.
7. Contractor to adhere to WSSC Standard Details SC3.0 & SC3.1 for sewer utility crossings; see details.

ENVIRONMENTAL IMPACTS SUMMARY

Limits of Disturbance	4.15 AC.
Stream Disturbance	1600 LF
Temp. Wetland impact	0
Temp. Wetland Buffer Impact	0
New Wetland Created	0
Tree Removal (>=6")	192
Total Cut	TBD
Total Fill	TBD
Net	TBD

SEAL:

MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES APPROVED FOR:

STORMWATER MANAGEMENT
REVIEWED DATE
APPROVED DATE
S.M.FILE NO.

SEDIMENT CONTROL TECHNICAL REQUIREMENTS:
REVIEWED DATE
APPROVED DATE

NOTE: MCDPS APPROVAL DOES NOT NEGATE THE NEED OF A MCDPS ACCESS PERMIT

ADMINISTRATIVE REQUIREMENTS:
REVIEWED DATE
SEDIMENT CONTROL PERMIT NO.
MCDPS APPROVAL OF THIS PLAN WILL EXPIRE ONE YEAR FROM THE DATE OF APPROVAL. IF THE PROJECT HAS NOT STARTED, UNLESS THE PERMIT HAS BEEN EXTENDED.

Department of Environmental Protection
Montgomery County Maryland

MARK	DESCRIPTION	DATE	APPR.	MARK	DESCRIPTION	DATE	APPR.

MR. CRAIG CARSON 240-777-7713
MONTGOMERY COUNTY DEPARTMENT OF ENVIRONMENTAL PROTECTION
255 ROCKVILLE PIKE
ROCKVILLE, MD 20850

DESIGNED BY: TES
DWN BY: GM/MT/SPT
CKD BY: JMF/GM
SUBMITTED BY: GM
DATE: JUNE 2015
TASK ORDER NO.: WRE12-25
CONTRACT NO.:
PLOT SCALE: 1"=100'
PLOT DATE: 6/26/15
FILE NUMBER:
SIZE: ANSI D
FILE NAME: 25-SL01WS

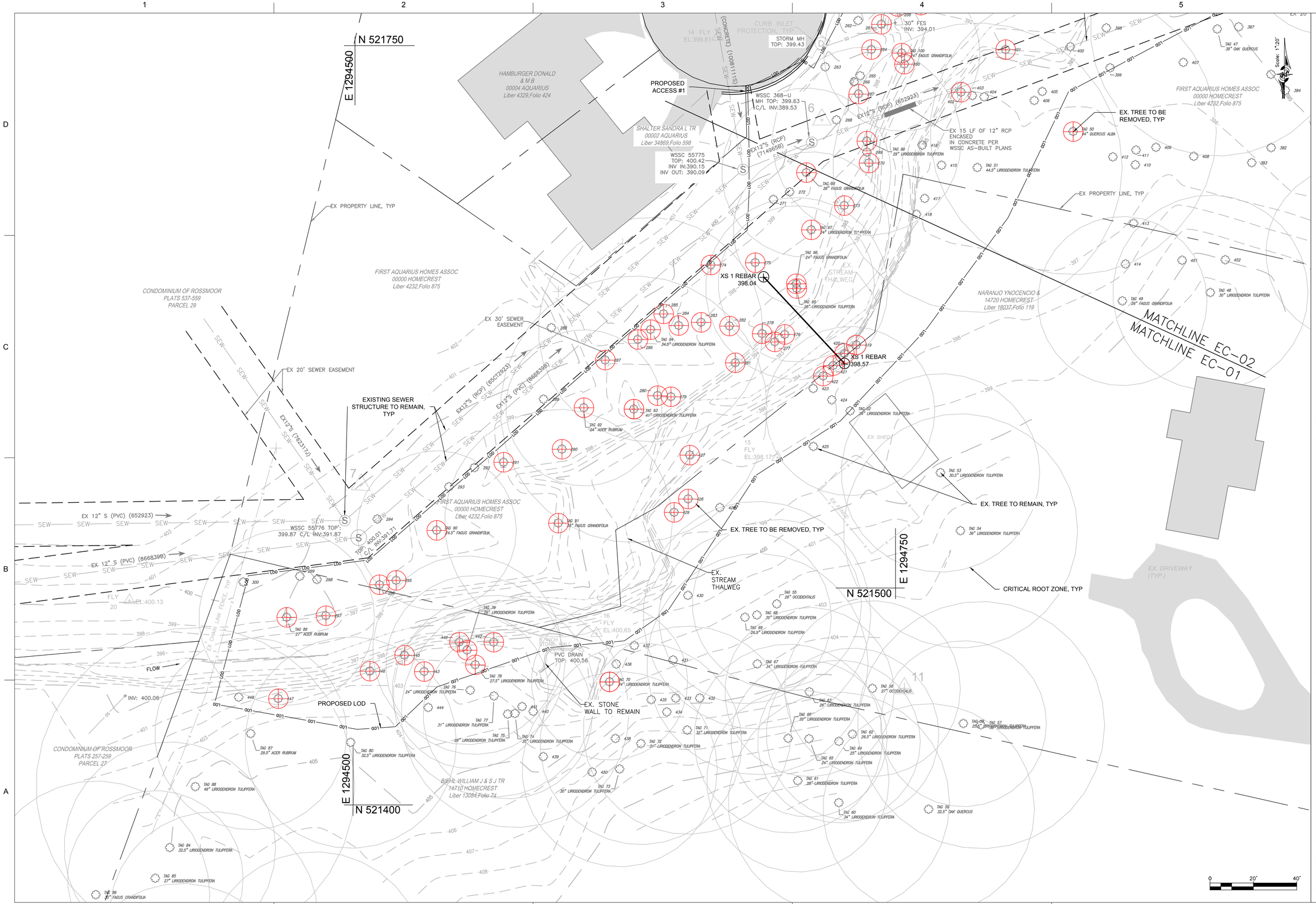
WRE 12 - TASK ORDER 25
BEL-PRE STREAM RESTORATION
(13TH) ELECTION DISTRICT
MONTGOMERY COUNTY, MARYLAND

SITE LAYOUT SHEET

SHEET NO.
3 of 45

SL-01

Attached Xref: 25-G-BD00.dwg
GIS BASE.dwg



Department of Environmental Protection
Montgomery County Maryland

Scale: 1"=20'

MARK	DESCRIPTION	DATE	APPR.	MARK	DESCRIPTION	DATE	APPR.

MR. CRAIG CARSON 240-777-7713
MONTGOMERY COUNTY DEPARTMENT OF ENVIRONMENTAL PROTECTION
255 ROCKVILLE PIKE
ROCKVILLE, MD 20850

DESIGNED BY: TESS
DWN BY: GM/HT/SPT
CKD BY: JMF
SUBMITTED BY: GM
DATE: JUNE 2015
TASK ORDER NO.: WRE12.25
CONTRACT NO.:
PLOT SCALE: 1"=20'
PLOT DATE: 6/26/2015
FILE NAME: FLV-01-25-EC.DWG
SIZE: ANSI D
FILE NUMBER:

WRE 12, TASK ORDER 25
BEL PRE - STREAM RESTORATION
PERMIT PLAN - NOT FOR CONSTRUCTION
(13TH) ELECTION DISTRICT
MONTGOMERY COUNTY, MARYLAND

EXISTING CONDITIONS/DEMOLITION PLAN REACH 1

SHEET NO.
4 of 45

EC-01

Attached Xref: 25-C-B000.dwg
Bel Pre_Filed Trees_14-1217.dwg
LIDAR_2013_Contours.dwg
DEMO TREE
bel_pre-trees_unlocked.dwg

Last Saved 6/26/2015 Last Plotted 6/26/2015 3:01 PM Sheet F:\43.560 BEL-PRE\DWG\03-V-01-25-EC

Department of Environmental Protection
Montgomery County Maryland

MARK	DESCRIPTION	DATE	APPR.	MARK	DESCRIPTION	DATE	APPR.

DATE: JUNE 2015
TASK ORDER NO.: WRE12-25
CONTRACT NO.:
FILE NUMBER:

DESIGNED BY: GM
DWN BY: GM/HT/SPT
CKD BY: JMF
SUBMITTED BY: GM
PLOT SCALE: 1"=20'
PLOT DATE: 6/26/2015
SIZE: ANSI D
FILE NAME: 03-V-01-25-EC.DWG

MR. CRAIG CARSON 240-777-7713
MONTGOMERY COUNTY DEPARTMENT OF ENVIRONMENTAL PROTECTION
255 ROCKVILLE PIKE
ROCKVILLE, MD 20850

WRE 12 - TASK ORDER 25
BEL-PRE STREAM RESTORATION
PERMIT PLAN NOT FOR CONSTRUCTION
(13TH) ELECTION DISTRICT
MONTGOMERY COUNTY, MARYLAND

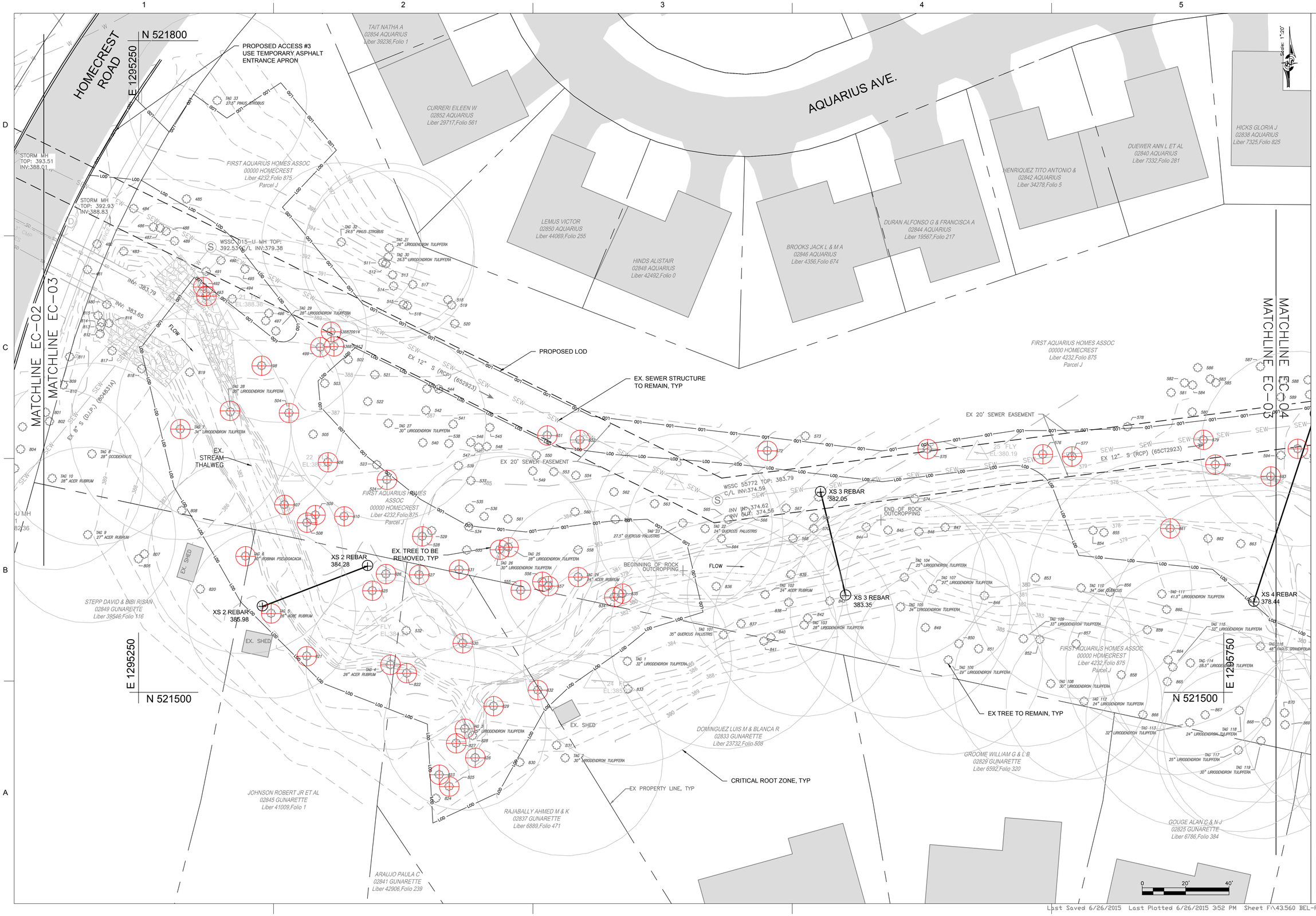
EXISTING CONDITIONS/DEMOLITION PLAN REACH 1

SHEET NO.
5 of 45

EC-02

Attached XrefF: 25-G-BIOD.dwg
Bel Pre_Filed Trees_14-1217.dwg
LIDTS_Sign_Post.dwg
IEWD TREE blocks.dwg
bel-pre-trees_unlocked.dwg

Last Saved 6/26/2015 Last Plotted 6/26/2015 3:28 PM Sheet F:\43.560 BEL-PRE\DWG\03-V-01-25-EC



Department of Environmental Protection
Montgomery County Maryland

MARK	DESCRIPTION	DATE	APPR.

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: TCS
DWN BY: GM/HT/SPT
CKD BY: JMF
SUBMITTED BY: GM
PLOT SCALE: 1"=20'
PLOT DATE: 6/26/2015
SIZE: ANSI D
FILE NAME: 03-V-01-25-EC.DWG
DATE: JUNE 2015
TASK ORDER NO.: WRE12-25
CONTRACT NO.:
FILE NUMBER:

MR. CRAIG CARSON 240-777-7713
MONTGOMERY COUNTY DEPARTMENT
OF ENVIRONMENTAL PROTECTION
255 ROCKVILLE PIKE
ROCKVILLE, MD 20850

WRE 12 - TASK ORDER 25
BEL-PRE STREAM RESTORATION
PERMIT PLAN -NOT FOR CONSTRUCTION
(13TH) ELECTION DISTRICT
MONTGOMERY COUNTY, MARYLAND

EXISTING CONDITIONS/DEMOLITION PLAN
REACH 2 AND 4

SHEET NO.
6 of 45

EC-03

Attached Xref: 25-G-BD00.dwg
Bel Pre_Filled Trees_14-1217.dwg
LOTS_REV1.dwg
DEMO TREE block.dwg
belpre-trees_unlocked.dwg

Last Saved 6/26/2015 Last Plotted 6/26/2015 3:52 PM Sheet F:\43.560 BEL-PRE\DWG\03-V-01-25-EC

MATCHLINE EC-03

MATCHLINE EC-04

FIRST AQUARIUS HOMES ASSOC
00000 HOMECREST
Liber 4232,Folio 875
Parcel J

EX. SEWER STRUCTURE TO REMAIN, TYP

EX. RIPRAP

EX 20' SEWER EASEMENT

EX 10' S (652923)

FIRST AQUARIUS HOMES ASSOC
00000 HOMECREST
Liber 4232,Folio 875
P/O Parcel J

ARGYLE COUNTRY CLUB
ARGYLE LAND CO.
1004/155
144.55 AC.
P. 83

N 521600

E 1296250

XS 4 REBAR
378.54

WSSC 55771 TOP: 376.61
C.O. INV:370.3

EX 18" S (RCP) (65CT2923)

WSSC 55769 TOP: 373.95 C/L
INV:366.70

EX. TREE TO BE REMOVED, TYP

FLOW

XS 4 REBAR
378.44

E 1296000

N 521500

EX TRIBUTARY

EX 20' SEWER EASEMENT

E 1296250

N 521450

NWBP 201
75m

NWBP 201
75m

NWBP 201
0m

NWBP 201
0m

EX. STREAM THALWEG

FIRST AQUARIUS HOMES ASSOC
00000 HOMECREST
Liber 4232,Folio 875
Parcel J

WICKRAMASINGHE HASITHA M &
02821 GUNARETTE
Liber 23249,Folio 342

EX TREE TO REMAIN, TYP

PRAGER GEORGE A & M L
02817 GUNARETTE
Liber 9374,Folio 94

CRITICAL ROOT ZONE, TYP

EX PROPERTY LINE, TYP

MILLER LEWIS S & C E
02813 GUNARETTE
Liber 18612,Folio 95

HOMECREST HOA INC
00000 GUNARETTE
Liber 6569,Folio 6

HADDAD JIHAD I & OULA J
02809 GUNARETTE
Liber 20226,Folio 342

GUNARETTE WAY

Scale: 1"=20'

0 20' 40'

Department of Environmental Protection
Montgomery County Maryland

MARK	DESCRIPTION	DATE	APPR.	MARK	DESCRIPTION	DATE	APPR.

DATE: JUNE 2015

DESIGNED BY: TES

DWN BY: GMH/TFS/PT

CKD BY: JMF

SUBMITTED BY: GM

TASK ORDER NO.: WRE12-25

CONTRACT NO.:

PLOT SCALE: 1"=20'

PLOT DATE: 6/26/2015

FILE NUMBER:

SIZE: ANSI D

FILE NAME: EX-PROPSEC.DWG

MR. CRAIG CARSON 240-777-7713
MONTGOMERY COUNTY DEPARTMENT OF ENVIRONMENTAL PROTECTION
255 ROCKVILLE PIKE
ROCKVILLE, MD 20850

WRE 12, TASK ORDER 25
BEL PRE STREAM RESTORATION
PERMIT PLAN - NOT FOR CONSTRUCTION
(13TH) ELECTION DISTRICT
MONTGOMERY COUNTY, MARYLAND

EXISTING CONDITIONS/DEMOLITION PLAN
REACH 4

SHEET NO.
7 of 45

EC-04

Attached Xref 25-G-B000.dwg
Bel Pre_Fixed
LTS_EX-Trees_14-1217.dwg
DEMO TREE blockdwg
belpre-trees_unlocked.dwg

Last Saved 6/26/2015 Last Plotted 6/26/2015 4:20 PM Sheet F\43.560 BEL-PRE\DWG\03-V-01-25-EC

EXISTING TREE < 24" (dbh) TABLE

NUMBER	COMMON NAME	SCIENTIFIC NAME	DBH (in)	CONDITION
201	Beech	Fagus grandifolia	13.5	Good
202	Poplar	Lirodendron tulipfera	21.5	Good
203	Red Maple	Acer rubrum	14	Fair, leaning into storm drain outfall
204	Poplar	Lirodendron tulipfera	13.5	Good
205	Poplar	Lirodendron tulipfera	16.5	Good
206	Red Oak	Quercus rubra	14	Good, twin stream erosion of roots
207	Beech	Fagus grandifolia	6	Good, growning with #206
208	Beech	Fagus grandifolia	6	Good. Twin
209	White Oak	Quercus alba	6	Good, growning on stream bank
210	Poplar	Lirodendron tulipfera	7.5	Good
211	Poplar	Lirodendron tulipfera	15	Good
212	Red Maple	Acer rubrum	6.5	Good
213	Red Maple	Acer rubrum	18	Fair
214	Poplar	Lirodendron tulipfera	14	Good
215	Poplar	Lirodendron tulipfera	12.5	Good
216	Poplar	Lirodendron tulipfera	19.5	Good
217	Red Maple	Acer rubrum	11.5	Good
218	Poplar	Lirodendron tulipfera	18	Good
219	Poplar	Lirodendron tulipfera	8	Good
220	Red Maple	Acer rubrum	6.5	Good
221	Red Maple	Acer rubrum	10.5	Good
222	Poplar	Lirodendron tulipfera	18	Good
223	Poplar	Lirodendron tulipfera	12	Good
224	Poplar	Lirodendron tulipfera	12.5	Good
225	Poplar	Lirodendron tulipfera	8.5	Good
226	Poplar	Lirodendron tulipfera	18.5	Good
227	Poplar	Lirodendron tulipfera	15.5	Good
228	Poplar	Lirodendron tulipfera	16.5	Good
229	Red Maple	Acer rubrum	16.5	Good
230	Red Maple	Acer rubrum	7.5	Good
231	Poplar	Lirodendron tulipfera	19	Good
232	Poplar	Lirodendron tulipfera	17.5	Good
233	Poplar	Lirodendron tulipfera	17	Good
234	Red Maple	Acer rubrum	10	Fair, main leader broken off
235	Poplar	Lirodendron tulipfera	14	Good
236	Red Maple	Acer rubrum	12.5	Good
237	Red Maple	Acer rubrum	9.5	Good
238	Red Maple	Acer rubrum	7.5	Good
239	Red Maple	Acer rubrum	8.5	Good
240	Red Maple	Acer rubrum	14	Fair, leaning 45*
241	Poplar	Lirodendron tulipfera	22	Fair, Leaning 60*
242	Beech	Fagus grandofolia	22.5	Good
243	Poplar	Lirodendron tulipfera	10	Dead
244	Red Maple	Acer rubrum	10	Good
245	Poplar	Lirodendron tulipfera	10	Good
246	Red Maple	Acer rubrum	9	Good
247	Poplar	Lirodendron tulipfera	13.5	Good
248	Red Maple	Acer rubrum	14	Good
249	Poplar	Lirodendron tulipfera	21.5	Good
250	Red Maple	Acer rubrum	10.5	Good
251	Poplar	Lirodendron tulipfera	13.5	Good
252	Red Maple	Acer rubrum	6	Good
253	Red Maple	Acer rubrum	13.5	Good
254	Red Maple	Acer rubrum	7	Good
255	Red Maple	Acer rubrum	12	Good
256	Red Maple	Acer rubrum	8	Good
257	Poplar	Lirodendron tulipfera	18	Good
258	Poplar	Lirodendron tulipfera	12	Good
259	Red Maple	Acer rubrum	13	Good
260	Beech	Fagus grandofolia	7	Good
261	Poplar	Lirodendron tulipfera	18	Good
262	White Pine	Pinus strobus	19.5	Good
263	White Pine	Pinus strobus	20	Good
264	Red Maple	Acer rubrum	7	Good
265	Red Maple	Acer rubrum	6	Good
266	Cherry	Prunus serotina	6.5	Poor, leaning
267	White Oak	Quercus alba	7	Good
268	Serviceberry	Amelanchier canadensis	7	Fair
269	Beech	Fagus grandofolia	15	Good
270	Beech	Fagus grandofolia	9	Good
271	Cherry	Prunus serotina	7.5	Poor, divided trunk
272	Cherry	Prunus serotina	9	Poor, leaning 45*
273	Red Maple	Acer rubrum	10	Good
274	Red Maple	Acer rubrum	14	Good
275	Poplar	Lirodendron tulipfera	23	Good
276	Beech	Fagus grandofolia	8	Good
277	Beech	Fagus grandofolia	9.5	Good
278	Red Maple	Acer rubrum	16	Good
279	Beech	Fagus grandofolia	16	Good
280	Beech	Fagus grandofolia	13	Good
281	Beech	Fagus grandofolia	22.5	Good
282	Beech	Fagus grandofolia	16	Good
283	Poplar	Lirodendron tulipfera	23.5	Good
284	Beech	Fagus grandofolia	10	Good
285	Red Maple	Acer rubrum	8.5	Fair, triple. 8.5, 8.5, 4
286	Red Maple	Acer rubrum	17	Good
287	Poplar	Lirodendron tulipfera	17	Good
288	Black Locust	Robinia pseudoacacia	10.5, 8	Good, Twin
289	Beech	Fagus grandofolia	15.5	Good
290	Black Locust	Robinia pseudoacacia	9.5	Good
291	Red Maple	Acer rubrum	18	Fair, Twin, half dead
292	Red Oak	Quercus rubra	11.5	Good
293	Beech	Fagus grandofolia	19	Good
294	Poplar	Lirodendron tulipfera	8	Good
295	Beech	Fagus grandofolia	9	Fair
296	Red Oak	Quercus rubra	19	Fair. Leaning
297	Red Maple	Acer rubrum	6.5, 2	Good
298	Ash	Fraxinus pennsylvanica	11.5	Good
299	Poplar	Lirodendron tulipfera	23	Good
300	Poplar	Lirodendron tulipfera	21	Good
301	Poplar	Lirodendron tulipfera	16	Poor, split
302	Red Maple	Acer rubrum	6.5	Good
303	Poplar	Lirodendron tulipfera	12.5	Goof
304	Red Maple	Acer rubrum	5,8.5,9.5	Triple, Good
305	Poplar	Lirodendron tulipfera	16	Good
306	Sycamore	Platanus occidentalis	16	Good
307	Poplar	Lirodendron tulipfera	19.5	Good
308	Poplar	Lirodendron tulipfera	10.5	Good, also 8" twin dead
309	Poplar	Lirodendron tulipfera	13.5.	Good
310	Poplar	Lirodendron tulipfera	14	Good
311	Poplar	Lirodendron tulipfera	21	Good
312	Poplar	Lirodendron tulipfera	14	Good
313	Poplar	Lirodendron tulipfera	10	Good
314	Poplar	Lirodendron tulipfera	17	Good
315	Poplar	Lirodendron tulipfera	10	Good
316	Poplar	Lirodendron tulipfera	9	Good
317	Poplar	Lirodendron tulipfera	9.5, 11	Good, twin
318	Poplar	Lirodendron tulipfera	8.5	Good
319	Poplar	Lirodendron tulipfera	9	Good
320	Red Maple	Acer rubrum	11	Poor, leaning 90°
321	Poplar	Lirodendron tulipfera	15	Good
322	Poplar	Lirodendron tulipfera	15	Good
323	Red Maple	Acer rubrum	17	Good
324	Red Maple	Acer rubrum	11	Good
325	Poplar	Lirodendron tulipfera	22	Good, at edge of stream bank
326	Beech	Fagus grandofolia	9	Good
327	Red Oak	Quercus rubra	6.5	Good
328	Red Oak	Quercus rubra	15.5	Good, Twin 6 feet up
329	Red Oak	Quercus rubra	12	Fair, leaning 60°
330	Beech	Fagus grandofolia	7	Poor, mostly dead
331	Black Walnut	Juglans nigra	15	Good
332	Serviceberry	Amelanchier canadensis	9, 5, 4, 4	Good, Quad
333	Beech	Fagus grandofolia	15	Good
334	Beech	Fagus grandofolia	18	Good
335	Ash	Fraxinus pennsylvanica	9	Good, Roots eroded
336	Cherry	Prunus serotina	7	Fair, leaning 45°
337	Ash	Fraxinus pennsylvanica	12	Good, stream edge
338	Ash	Fraxinus pennsylvanica	9	Good
339	Ash	Fraxinus pennsylvanica	12	Good, stream edge
340	Poplar	Lirodendron tulipfera	8	Good
341	Poplar	Lirodendron tulipfera	18	Good
342	Black Walnut	Juglans nigra	12	Good
343	Poplar	Lirodendron tulipfera	6	Good
344	Poplar	Lirodendron tulipfera	10	Good
345	Poplar	Lirodendron tulipfera	15	Good
346	Poplar	Lirodendron tulipfera	7.5	Good
347	Poplar	Lirodendron tulipfera	19	Good
348	Box Elder	Acer nugundo	10	Good
349	Elm	Ulmus americana	8.5	Good
350	Ash	Fraxinus pennsylvanica	8.5	Good
351	Black Walnut	Juglans nigra	12	Good
352	Poplar	Lirodendron tulipfera	9	Good
353	Poplar	Lirodendron tulipfera	16/14	Good, Twin
354	Box Elder	Acer negundo	15.5	Good
355	Poplar	Lirodendron tulipfera	18	Good
356	Poplar	Lirodendron tulipfera	14	Good
357	Poplar	Lirodendron tulipfera	8	Good
358	Red Oak	Quercus rubra	16	Good
359	Red Maple	Acer rubrum	22	Good
360	Red Maple	Acer rubrum	15.5	Good
361	Red Maple	Acer rubrum	6.5	Good
362	Ash	Fraxinus pennsylvanica	12	Good
363	Ash	Fraxinus pennsylvanica	8	Good
364	Red Maple	Acer rubrum	6	Good
365	White Oak	Quercus alba	18	Good
366	White Oak	Quercus alba	20	Good
367	Poplar	Lirodendron tulipfera	19	Good, leaning
368	Poplar	Lirodendron tulipfera	13	Good
369	Ash	Fraxinus pennsylvanica	6.5	Good
370	Poplar	Lirodendron tulipfera	17	Good
371	Poplar	Lirodendron tulipfera	12	Good
372	Ash	Fraxinus pennsylvanica	6.5	Good
373	Ash	Fraxinus pennsylvanica	12.5	Good
374	Poplar	Lirodendron tulipfera	12	Good
375	Poplar	Lirodendron tulipfera	12.5	Good
376	Ash	Fraxinus pennsylvanica	9	Good
377	White Oak	Quercus alba	23.5	Good
378	White Oak	Quercus alba	15	Fair, bark peeling off
379	White Oak	Quercus alba	15	Fair, trunk is split
380	Beech	Fagus grandofolia	8.5	Good
381	White Oak	Quercus alba	9	Good
382	Ash	Fraxinus pennsylvanica	13	Good
383	White Oak	Quercus alba	9	Poor, leader broken off
384	White Oak	Quercus alba	9	Good
385	White Oak	Quercus alba	18.5	Good
386	White Oak	Quercus alba	20	Fair
387	Beech	Fagus grandofolia	12.5	Good
388	Beech	Fagus grandofolia	12.5	Good
389	Beech	Fagus grandofolia	7	Good
390	White Oak	Quercus alba	15	Good
391	White Oak	Quercus alba	19.5	Good
392	Beech	Fagus grandofolia	16.5	Good
393	Beech	Fagus grandofolia	14.5	Good
394	Red Maple	Acer rubrum	3, 5, 5, 7.5	Good, quad
395	Cherry	Prunus serotina	6, 9, 5	Good, triple
396	Sycamore	Platanus occidentalis	8.5	Good
397	Poplar	Lirodendron tulipfera	14, 6.5, 13.5	Fair, 6.5 leader dead
398	Poplar	Lirodendron tulipfera	16	Good, a lot of ivy on trunk
399	Poplar	Lirodendron tulipfera	12	Good, a lot of ivy on trunk
400	Red Maple	Acer rubrum	8	Fair, roots eroded by stream
401	Red Oak	Quercus rubra	12	Fair, roots eroded by stream
402	Hornbeam	Carpinus carolina	7.5	Fair
403	Poplar	Lirodendron tulipfera	16.5	Good
404	Hornbeam	Carpinus carolina	7.5	Good
405	Sycamore	Platanus occidentalis	6	Good, a lot of ivy on trunk
406	Red Oak	Quercus rubra	10	Good, a lot of ivy on trunk
407	Beech	Fagus grandofolia	21	Good
408	Beech	Fagus grandofolia	15	Good
409	White Oak	Quercus alba	8.5	Good, a lot of ivy on trunk
410	Beech	Fagus grandofolia	9	Good
411	Beech	Fagus grandofolia	9.5	Good
412	Beech	Fagus grandofolia	17.5	Good
413	Beech	Fagus grandofolia	10	Good
414	Red Maple	Acer rubrum	18	Fair, bark peeling off
415	White Pine	Pinus strobus	11	Good
416	Amelanchier	Serviceberry	9	Good
417	White Pine	Pinus strobus	11	Good
418	White Pine	Pinus strobus	16, 8	Good, twin
419	Mulberry	Morus alba	10	Fair leaning
420	White Pine	Pinus strobus	12	Poor
421	White Pine	Pinus strobus	6	Good
422	White Pine	Pinus strobus	11	Good
423	White Pine	Pinus strobus	12	Good
424	Poplar	Lirodendron tulipfera	21	Good
425	Poplar	Lirodendron tulipfera	16.5	Poor, top dead
426	Red Maple	Acer rubrum	20	Good
427	Red Oak	Quercus rubra	16	Good
428	Red Oak	Quercus rubra	13	Good
429	Red Maple	Acer rubrum	9	Good
430	Poplar	Lirodendron tulipfera	23	Good
431	Sycamore	Platanus occidentalis	16.5	Good
432	Poplar	Lirodendron tulipfera	16.5	Good
433	Poplar	Lirodendron tulipfera	10	Poor, mostly dead
434	Poplar	Lirodendron tulipfera	15	Good
435	Poplar	Lirodendron tulipfera	20	Good
436	Poplar	Lirodendron tulipfera	23	Good
437	Poplar	Lirodendron tulipfera	21	Good
438	Poplar	Lirodendron tulipfera	23	Good
439	Cherry	Prunus serotina	8	Poor
440	Red Oak	Quercus rubra	14	Good
441	Poplar	Lirodendron tulipfera	14	Poor
442	Beech	Fagus grandofolia	6	Good, roots exposed, edge of bark
443	Poplar	Lirodendron tulipfera	8	Fair, main leader broken off
444	Red Oak	Quercus rubra	6	Good
445	Poplar	Lirodendron tulipfera	22	Fair, main leader broken off
446	Red Maple	Acer rubrum	15	Fair, leaning 60°
447	Beech	Fagus grandofolia	22	Good, edge of bark
448	Beech	Fagus grandofolia	16.5	Fair, edge of bark
449	Red Maple	Acer rubrum	12	Poor, leader broken off, edge of bark
450	Red Oak	Quercus rubra	17	Dead?
451	Beech	Fagus grandofolia	11	Good
452	White Oak	Quercus alba	13	Fair, leaning 75°, one sided branching
453	Ash	Fraxinus pennsylvanica	23	Poor, top leader broken off
454	Ash	Fraxinus pennsylvanica	14, 20	Poor, top leader broken off, twin
455	Ash	Fraxinus pennsylvanica	20/17	Poor, leaning 75°, leader broken off, twin
456	Poplar	Lirodendron tulipfera	7	Poor, half of trunk damaged
457	Cherry	Prunus serotina	9	Poor
458	Mulberry	Morus alba	9	Fair
459	Poplar	Lirodendron tulipfera	10	Good
460	Red Oak	Quercus rubra	23	Good
461	Poplar	Lirodendron tulipfera	10.5, 7, 13	Fair, leaning 75°
462	Red Maple	Acer rubrum	13	Fair
463	Ash	Fraxinus pennsylvanica	18	Good
464	Poplar	Lirodendron tulipfera	14	Good
465	Ash	Fraxinus pennsylvanica	8	Poor, main leader broken off
466	Poplar	Lirodendron tulipfera	11	Fair
467	Ash	Fraxinus pennsylvanica	7	Fair, main leader broken off
468	Ash	Fraxinus pennsylvanica	6	Poor, leaning
469	Red Maple	Acer rubrum	7	Poor, main leader broken off
470	Poplar	Lirodendron tulipfera	7	Fair, leaning 70°, at storm drain outfall
471	Poplar	Lirodendron tulipfera	13	Good
472	Poplar	Lirodendron tulipfera	9	Good
473	Cherry	Prunus serotina	6	Poor
474	Black Walnut	Juglans nigra	10	Good
475	Poplar	Lirodendron tulipfera	12	Good
476	Poplar	Lirodendron tulipfera	7	Poor, main leader broken off
477	Poplar	Lirodendron tulipfera	15	Good
478	Black Walnut	Juglans nigra	10	Good
479	Black Walnut	Juglans nigra	10	Good
480	Sycamore	Platanus occidentalis	18.5	Good, on top of ex. Storm drain culvert
481	Cherry	Prunus serotina	11	Good
482	Cherry	Prunus serotina	8	Fair, leaning
483	Poplar	Lirodendron tulipfera	18, 12.5	Fair, Twin, half dead
484	Cherry	Prunus serotina	6	Poor, leaning 45°
485	White Pine	Pinus strobus	12	Poor
486	Poplar	Lirodendron tulipfera	14	Fair, main trunk cracked
487	Poplar	Lirodendron tulipfera	11	Poor, main leader broken off
488	Poplar	Lirodendron tulipfera	10	Fair, vines many broken branches
489	Poplar	Lirodendron tulipfera	13	Poor, leaning, many broken branches
490	Ash	Fraxinus pennsylvanica	7	Fair
491	Ash	Fraxinus pennsylvanica	10	Fair
492	Poplar	Lirodendron tulipfera	11	Good
493	Poplar	Lirodendron tulipfera	13	Good
494	Ash	Fraxinus pennsylvanica	10	Good
495	Ash	Fraxinus pennsylvanica	13	Fair, leaning
496	Ash	Fraxinus pennsylvanica	7	Fair
497	Poplar	Lirodendron tulipfera	9	Fair
498	Elm	Ulmus americana	18	Fair, many broken branches
499	Red Maple	Acer rubrum	8	Fair
500	Red Maple	Acer rubrum	19	Good
501	Poplar	Lirodendron tulipfera	13	Good
502	Poplar	Lirodendron tulipfera	12	Good
503	Ash	Fraxinus pennsylvanica	14	Good
504	Red Maple	Acer rubrum	9, 20	Good, Twin
505	Red Maple	Acer rubrum	16, 9, 9, 6	Good, quad
506	Red Maple	Acer rubrum	8, 7, 6	Fair, triple, 6 dead
507	Ash	Fraxinus pennsylvanica	15, 12	Fair, twin, leaning over stream
508	Red Maple	Acer rubrum	12	Fair, leaning
509	Red Maple	Acer rubrum	8	Fair, L shaped leader
510	Red Maple	Acer rubrum	8	Fair, side leader broken off
511	Red Maple	Acer rubrum	10	Good
512	Poplar	Lirodendron tulipfera	6	Poor, main leader broken off
513	Poplar	Lirodendron tulipfera	14	Poor, main leader broken off
514	Red Oak	Quercus rubra	9	Good
515	Red Maple	Acer rubrum	9, 8	Good, twin
516	Red Maple	Acer rubrum	6	Good
517	Red Maple	Acer rubrum	13	Poor
518	Red Maple	Acer rubrum	13	Fair, branches one side only
519	Red Maple	Acer rubrum	10, 6	Good Twin
520	Ash	Fraxinus pennsylvanica	7	Good
521	Poplar	Lirodendron tulipfera	12	Good
522	Poplar	Lirodendron tulipfera	12, 14	Good, Twin
523	Red Maple	Acer rubrum	11.5, 6	Fair, 6 dead
524	Red Maple	Acer rubrum	17	Good
525	Mulberry	Morus alba	6	Poor, leaning and bent leader
526	Red Maple	Acer rubrum	15	Poor, leaning
527	Red Maple	Acer rubrum	6	Fair, damaged trunk
528	Red Maple	Acer rubrum	13.5	Fair, leaning
529	Poplar	Lirodendron tulipfera	20	Good
530	Red Maple	Acer rubrum	9	Mostly dead
531	Red Maple	Acer rubrum	13.5	Fair barbed wire damage to trunk
532	Red Maple	Acer rubrum	8, 7	Poor, one leader dead, on edge of stream
533	Poplar	Lirodendron tulipfera	8, 6	Good, twin
534	Poplar	Lirodendron tulipfera	13.5	Good
535	Poplar	Lirodendron tulipfera	17.5, 10	Good, twin
536	Poplar	Lirodendron tulipfera	13.5	Good
537	Poplar	Lirodendron tulipfera	16	Good
538	Poplar	Lirodendron tulipfera	14	Good
539	Ash	Fraxinus pennsylvanica	6.5	Good
540	Ash	Fraxinus pennsylvanica	7	Fair
541	Poplar	Lirodendron tulipfera	16	Good
542	Red Maple	Acer rubrum	8	Good
543	Red Maple	Acer rubrum	11	Good
544	Red Maple	Acer rubrum	14	Good
545	Poplar	Lirodendron tulipfera	14, 12	Good Twin, Poplar/Maple
546	Red Maple	Acer rubrum	6	Fair
547	Poplar	Lirodendron tulipfera	11.5	Good
548	Red Maple	Acer rubrum	11	Good
549	Red Maple	Acer rubrum	8, 8	Good Twin
550	Ash	Fraxinus pennsylvanica	14, 10	Good, twin
551	Red Oak	Quercus rubra	7.5	Good
552	Red Oak	Quercus rubra	7.5	Good
553	Ash	Fraxinus pennsylvanica	10.5	Good
554	Red Maple	Acer rubrum	6	Poor, mostly dead
555	Ash	Fraxinus pennsylvanica	14	Fair, leaning
556	Ash	Fraxinus pennsylvanica	10.5	Poor, main leader broken off
557	Ash	Fraxinus pennsylvanica	12	Fair
558	Red Maple	Acer rubrum	6	Good
559	Red Oak	Quercus rubra	18.5	Poor, partially dead
560	Beech	Fraxinus pennsylvanica	6	Good
561	Red Oak	Quercus rubra	6	Good
562	Red Oak	Quercus rubra	10.5	Good
563	Red Oak	Quercus rubra	12	Good
564	Red Oak	Quercus rubra	10.5	Poor, leaning mostly dead
565	White Oak	Quercus alba	8.5	Good
566	Red Oak	Quercus rubra	11, 9	Good, twin
567	Red Oak	Quercus rubra	9	Good
568	Red Oak	Quercus rubra	13	Fair, leaning over stream, roots eroded
569	Ash	Fraxinus pennsylvanica	14	Good
570	Red Oak	Quercus rubra	11	Fair, roots eroded by stream
571	Poplar	Lirodendron tulipfera	13, 7.5	Poor, twin. Leaning 60°
572	Red Oak	Quercus rubra	12, 6	Fair, twin
573	Sycamore	Platanus occidentalis	18	Fair, main leader curved
574	White Oak	Quercus alba	20	Poor, roots exposed/eroded by stream
575	White Oak	Quercus alba	18	Fair
576	Red Oak	Quercus rubra	7	Good
577	Red Oak	Quercus rubra	10	Good
578	Red Oak	Quercus rubra	12	Good
579	Ash	Fraxinus pennsylvanica	22	Fair
580	Ash	Fraxinus pennsylvanica	10	Fair, leaning 75°
581	Ash	Fraxinus pennsylvanica	7	Fair, leaning, second leader dead
582	Red Oak	Quercus rubra	6	Good
583	Poplar	Lirodendron tulipfera	16	Good
584	Red Oak	Quercus rubra	6	Good
585	Red Oak	Quercus rubra	8	Poor, mostly dead
586	Red Oak	Quercus rubra	9	Good
587	Red Maple	Acer rubrum	9	Good
588	Poplar	Lirodendron tulipfera	16	Good
589	Poplar	Lirodendron tulipfera	13	Good
590	Poplar	Lirodendron tulipfera	13.5	Good
591	Red Oak	Quercus rubra	9	Good
592	Red Oak	Quercus rubra	11.5	Good
593	Beech	Fagus grandofolia	9	Fair, leaning over stream, roots eroded
594	Poplar	Lirodendron tulipfera	14.5	Good
595	Red Oak	Quercus rubra	11	Poor, partially dead
596	Ash	Fraxinus pennsylvanica	7	Good
597	Poplar	Lirodendron tulipfera	20	Good
598	Red oak	Quercus rubra	8	Fair
599	Ash	Fraxinus pennsylvanica	20	Fair,leaning over stream, roots eroded
600	Red Oak	Quercus rubra	20	Poor,leaning over stream, leader broken off
601	Red Oak	Quercus rubra	9.5	Poor, leaning
602	Ash	Fraxinus pennsylvanica	14	Poor, leader broken off, edge of bark
603	Ash	Fraxinus pennsylvanica	8, 12	Fair, twin
604	Red Oak	Quercus rubra	22	Good
605	Red Oak	Quercus rubra	22	Fair, leaning
606	Elm/Red Oak	mus americana/Quercus rut	23, 20	Good, two trees growing together
607	Hickory	Carya tomentosa	23	Good
608	Red Oak	Quercus rubra	11	Fair
609	Red Oak	Quercus rubra	23	Fair, leaning
610	Red Oak	Quercus rubra	7	Fair, triple
611	Red Oak	Quercus rubra	10, 11, 5	Good, triple
612	Red Oak	Quercus rubra	14	Fair, leaning
613	Ash	Fraxinus pennsylvanica	6	Good
614	Red Oak	Quercus rubra	11, 7	Poor, twin
615	Red Oak	Quercus rubra	9	Fair
616	Red Oak	Quercus rubra	21	Good
617	Red Maple	Acer rubrum	9, 11, 5	Poor, triple, trunk damage
618	Red Oak	Quercus rubra	7, 5	Poor, twin, trunk damage
619	Red Oak	Quercus rubra	24	Dead
620	Red Oak	Quercus rubra	8, 12	Good, twin
621	Red Oak	Quercus rubra	17	Poor, leaning over stream
622	Red Oak	Quercus rubra	14, 9, 11	Fair, triple
623	Red Oak	Quercus rubra	17, 7	Good, twin
624	Red Oak	Quercus rubra	11	Good
625	Red Oak	Quercus rubra	17	Good
626	Red Oak	Quercus rubra	16	Good
627	Cherry	Prunus serotina	6	Poor
628	Cherry	Prunus serotina	6	Poor
629	Poplar	Lirodendron tulipfera	16	Good
630	Ash	Fraxinus pennsylvanica	9	Good
631	Cherry	Prunus serotina	6	Poor, leaning 45°
632	Poplar	Lirodendron tulipfera	14	Good
633	Cherry	Prunus serotina	7	Poor, angled trunk, 90°
634	Ash	Fraxinus pennsylvanica	6	Fair
635	Red Oak	Quercus rubra	15	Fair, trunk damaged
636	Red Oak	Quercus rubra	6	Fair
637	Cherry	Prunus serotina	6	Fair, many broken branches
638	Red Oak	Quercus rubra	19	Fair, edge of bank, leaning
639	Red Oak	Quercus rubra	18	Poor, edge of stream, roots eroded
640	Cherry	Prunus serotina	6	Poor
641	Red Oak	Quercus rubra	23.5	Good
642	Red Oak	Quercus rubra	16	Good
643	Red Oak	Quercus rubra	10	Fair, not many branches
644	Poplar	Lirodendron tulipfera	15	Good
645	Red Oak	Quercus rubra	20	Good
646	Red Oak	Quercus rubra	22, 10	Fair, twin, edge of stream, leaning
647	Red Oak	Quercus rubra	19	Good
648	Red Oak	Quercus rubra	9	Fair, edge of bark
649	Black Locust	Robinia pseudoacacia	6	Poor, broken leader 20ft up
650	Poplar	Lirodendron tulipfera	25.5	Good
651	Cherry	Prunus serotina	8	Poor
652	Poplar	Lirodendron tulipfera	10	Good
653	Mulberry	Morus alba	8	Good
654	Cherry	Prunus serotina	11	Fair
655	Cherry	Prunus serotina	8.5	Poor, trunk bent at 90°
656	Cherry	Prunus serotina	6	Poor, trunk bent
657	Mulberry	Morus alba	10	Fair, main leader bent
658	Ash	Fraxinus pennsylvanica	20	Fair, edge of stream, roots eroded
659	Red Oak	Quercus rubra	6	Poor, trunk damaged
660	Cherry	Prunus serotina	8	Poor, over stream, roots exposed
661	Cherry	Prunus serotina	7	Poor, trunk broken off 15 feet up
662	Red Oak	Quercus rubra	21	Good
663	Red Maple	Acer rubrum	16	Fair
664	Red Oak	Quercus rubra	21	Fair, roots eroded by stream
665	Ash	Fraxinus pennsylvanica	18, 16	Fair, Twin, roots eroded by stream
666	Red Oak	Quercus rubra	22	Good
667	Red Oak	Quercus rubra	21	Poor, hole in trunk
668	Red Oak	Quercus rubra	23	Good
669	Mulberry	Morus alba	8, 8	Fair, twin
670	Poplar	Lirodendron tulipfera	16	Fair
671	Poplar	Lirodendron tulipfera	8	Poor, trunk cracked
672	Poplar	Lirodendron tulipfera	9.5	Good
673	Poplar	Lirodendron tulipfera	16	Good
674	Hickory	Carya tomentosa	9.5	Good
675	Hickory	Carya tomentosa	20	Good
676	Hickory	Carya tomentosa	22	Good
677	Poplar	Lirodendron tulipfera	14	Good
678	Poplar	Lirodendron tulipfera	17	Good
679	Poplar	Lirodendron tulipfera	15	Good
680	Poplar	Lirodendron tulipfera	13	Fair, leaning
681	Poplar	Lirodendron tulipfera	20	Fair, over stream, roots exposed
682	Elm	Ulmus americana	13	Fair, not many branches
683	Ash	Fraxinus pennsylvanica	16	Fair
684	Poplar	Lirodendron tulipfera	18	Fair, edge of stream, roots eroded
685	Poplar	Lirodendron tulipfera	12	Good
686	Poplar	Lirodendron tulipfera	8.5	Good
687	Poplar	Lirodendron tulipfera	15	Good
688	Poplar	Lirodendron tulipfera	18	Good
689	Poplar	Lirodendron tulipfera	13	Good
690	Red Maple	Acer rubrum	7.5	Good
691	Poplar	Lirodendron tulipfera	13	Fair
692	Poplar	Lirodendron tulipfera	16	Good
693	Poplar	Lirodendron tulipfera	14	Good
694	Poplar	Lirodendron tulipfera	8	Good
695	Poplar	Lirodendron tulipfera	13	Fair, trunk cracked
696	Poplar	Lirodendron tulipfera	23	Good
697	Black Locust	Robinia pseudoacacia	9	Fair, not many branches
698	Poplar	Lirodendron tulipfera	12	Poor, stream bank erosion, roots exposed
699	Poplar	Lirodendron tulipfera	14, 9	Poor, twin, roots exposed/eroded by stream
700	Ash	Fraxinus pennsylvanica	13	Poor, roots exposed/eroded by stream
702	Beech	Fagus grandofolia	14	Good
703	Beech	Fagus grandofolia	9	Good
704	Poplar	Lirodendron tulipfera	14	Good
705	Beech	Fagus grandofolia	9	Good
706	Ash	Fraxinus pennsylvanica	12	Good
707	Red Maple	Acer rubrum	10	Poor, leaning 45°, in stream, roots exposed
708	Ash	Fraxinus pennsylvanica	10	Fair, one sided branching
709	Red Oak	Quercus rubra	11	Good
710	Ash	Fraxinus pennsylvanica	13	Good
711	Beech	Fagus grandofolia	10	Good
712	Beech	Fagus grandofolia	6	Good
713	Ash	Fraxinus pennsylvanica	13	Good
714	Beech	Fagus grandofolia	9	Good
715	Beech	Fagus grandofolia	6	Fair, main leader broken off
716	Poplar	Lirodendron tulipfera	23	Good
717	Red Oak	Quercus rubra	7	Poor, broken off 8 feet up
718	Red Maple	Acer rubrum	6	Fair
720	Ash	Fraxinus pennsylvanica	16	Good
721	Red Maple	Acer rubrum	14	Good
722	Red Oak	Quercus rubra	17	Good
723	Red Oak	Quercus rubra	9	Good
724	Red Oak	Quercus rubra	13	Poor, partially dead
725	Red Maple	Acer rubrum	10	Fair, 2 leaders 15 feet up
726	Cherry	Prunus serotina	9	Fair
727	Red Oak	Quercus rubra	9	Good
728	Red Oak	Quercus rubra	6	Good
729	Red Oak	Quercus rubra	7	Fair
730	Ash	Fraxinus pennsylvanica	10	Good
731	Ash	Fraxinus pennsylvanica	13	Fair
732	Red Oak	Quercus rubra	12	Good
733	Ash	Fraxinus pennsylvanica	16, 16	Good, Twin
734	Cherry	Prunus serotina	7	Fair
735	White Oak	Quercus alba	15	Good
736	Ash	Fraxinus pennsylvanica	23	Good
737	Red Maple	Acer rubrum	11	Poor
738	Red Oak	Quercus rubra	18	Fair, leaning
739	Red Oak	Quercus rubra	12	Fair, one sided branching
740	Poplar	Lirodendron tulipfera	9, 10	Poor, twin, 9 , leaning, Dead 10
741	Red Oak	Quercus rubra	15	Fair, leaning not many branches, on island
742	Ash	Fraxinus pennsylvanica	7	Fair, on island
743	Red Maple	Acer rubrum	13, 10	Fair,twin, broken off and leaning, on island
744	Red Oak	Quercus rubra	7.5	Poor, leader bent at 90°
745	Black Walnut	Juglans nigra	12	Good, edge of bank
746	Red Oak	Quercus rubra	18	Good
747	Red Oak	Quercus rubra	20	Good
748	Red Oak	Quercus rubra	15, 4	Good, twin
749	Hickory	Carya tomentosa	6.5	Good
750	Red Oak	Quercus rubra	14.5	Good
751	Red Oak	Quercus rubra	8.5	Good
752	Poplar	Lirodendron tulipfera	18	Good
753	Poplar	Lirodendron tulipfera	13	Good
754	Red Oak	Quercus rubra	12.5	Good
755	Poplar	Lirodendron tulipfera	19.5	Fair, leaning
756	Red Oak	Quercus rubra	6	Good
757	Poplar	Lirodendron tulipfera	15	Good
758	Cherry	Prunus serotina	6	Poor, leaning
759	Poplar	Lirodendron tulipfera	16	Fair, leaning
760	Red Oak	Quercus rubra	17	Good
761	Poplar	Lirodendron tulipfera	19	Good
762	Red Oak	Quercus rubra	6	Good
763	Red Oak	Quercus rubra	7	Good
764	Red Oak	Quercus rubra	6	Good
765	Red Oak	Quercus rubra	6.5	Good
766	Beech	Fagus grandofolia	6.5	Poor, leaning, broken leader
767	Cherry	Prunus serotina	9	Poor, leaning, broken leader
768	Poplar	Lirodendron tulipfera	19	Good, roots eroded on bark
769	Poplar	Lirodendron tulipfera	7.5	Fair, leaning, leader bent at 90°
770	Poplar	Lirodendron tulipfera	15	Good
771	Ash	Fraxinus pennsylvanica	9.5	Good
772	Poplar	Lirodendron tulipfera	14.5	Good
773	Poplar	Lirodendron tulipfera	18	Good
774	Poplar	Lirodendron tulipfera	6.5	Good
775	Poplar	Lirodendron tulipfera	8	Good
776	Red Oak	Quercus rubra	8.5	Good
777	Red Oak	Quercus rubra	17, 7	Good, twin
778	Poplar	Lirodendron tulipfera	9	Good
779	Red Oak	Quercus rubra	18	Good
780	Red Oak	Quercus rubra	15	Good
781	Poplar	Lirodendron tulipfera	7	Good
782	Ash	Fraxinus pennsylvanica	8	Good
783	Red Maple	Acer rubrum	6.5	Good
801	Ash	Fraxinus pennsylvanica	8	Good
802	Cherry	Prunus serotina	8	Fair
803	Ash	Fraxinus pennsylvanica	11	Good
804	Cherry	Prunus serotina	8	Poor
805	Black Walnut	Juglans nigra	12	Poor, top broken off
806	Hickory	Carya tomentosa	13	Good
807	Hickory	Carya tomentosa	14	Good, twin
808	Ash	Fraxinus pennsylvanica	12	Fair, leaning
809	Poplar	Lirodendron tulipfera	13	Good
810	Poplar	Lirodendron tulipfera	13	Good
811	Red Oak	Quercus rubra	11	Good
812	Red Oak	Quercus rubra	7	Fair
813	Red Oak	Quercus rubra	8	Fair
814	Poplar	Lirodendron tulipfera	22	Fair
815	Red Maple	Acer rubrum	6	Fair
816	Ash	Fraxinus pennsylvanica	10	Fair
817	Poplar	Lirodendron tulipfera	6	Fair
818	Poplar	Lirodendron tulipfera	12	Good
818	Poplar	Liriodendron tulipfera	12	Good
819	Cherry	Prunus serotina	12	Fair. roots eroded by stream
820	Mulberry	Morus alba	8	Fair. leaning 75°
821	Red Oak	Quercus rubra	13	Good
822	Black Locust	Robinia pseudoacacia	15	Good. roots eroded
823	Cherry	Prunus serotina	9	Fair. leaning
824	Red Maple	Acer rubrum	6	Fair. twisted trunk
825	Red Oak	Quercus rubra	10	Good
826	Red Cedar	Juniperus virginiana	8	Poor
827	Cherry	Prunus serotina	6	Poor. leaning
828	Mulberry	Morus alba	8	Poor
829	Mulberry	Morus alba	7. 7	Fair. twin. leaning
830	Poplar	Liriodendron tulipfera	14. 20	Good. twin
831	Poplar	Liriodendron tulipfera	16	Good
832	Red Oak	Quercus rubra	10	Fair
833	Red Oak	Quercus rubra	17	Good
834	Ash	Fraxinus pennsylvanica	17	Fair. edge of stream. roots eroded
835	Red Maple	Acer rubrum	11	Fair. edge of stream. roots eroded
836	Ash	Fraxinus pennsylvanica	8	Poor. main leader broken off
837	Beech	Fagus grandifolia	7	Good
838	Red Oak	Quercus rubra	17	Fair. trunk damaged
839	Red Oak	Quercus rubra	11	Fair. edge of stream. roots eroded
840	Red Oak	Quercus rubra	9	Poor. twisted trunk
841	Red Oak	Quercus rubra	21	Poor. trunk rotten
842	Beech	Fagus grandifolia	11	Good
843	Beech	Fagus grandifolia	6	Good
844	Ash	Fraxinus pennsylvanica	12	Poor. edge of stream. roots eroded
845	Ash	Fraxinus pennsylvanica	15	Poor. edge of stream. roots eroded
846	Beech	Fagus grandifolia	12	Fair. edge of stream. roots eroded
847	Red Oak	Quercus rubra	14	Poor. roots exposed/eroded by stream
848	Red Oak	Quercus rubra	12	Fair
849	Red Oak	Quercus rubra	10	Good
850	Poplar	Liriodendron tulipfera	6	Fair. bent leader
851	Poplar	Liriodendron tulipfera	11	Good
852	Cherry	Prunus serotina	9	Good
853	Beech	Fagus grandifolia	15	Good
854	Ash	Fraxinus pennsylvanica	17	Good. edge of bank. roots eroded
855	Cherry	Prunus serotina	10	Fair. leaning. edge of bank
856	Beech	Fagus grandifolia	9	Good
857	Poplar	Liriodendron tulipfera	13	Good
858	Poplar	Liriodendron tulipfera	8	Good
859	Beech	Fagus grandifolia	21	Good
860	Beech	Fagus grandifolia	22	Good
861	Red Oak	Quercus rubra	12	Good. edge of bank
862	Red Oak	Quercus rubra	16	Fair
863	Ash	Fraxinus pennsylvanica	17	Fair
864	Beech	Fagus grandifolia	9	Good
865	Poplar	Liriodendron tulipfera	22	Good
866	Red Oak	Quercus rubra	11	Fair
867	Red Oak	Quercus rubra	14	Fair. leaning
868	Poplar	Liriodendron tulipfera	16	Good
869	Poplar	Liriodendron tulipfera	20	Fair. leaning
870	Beech	Fagus grandifolia	7	Good
871	Poplar	Liriodendron tulipfera	18	Good
872	Beech	Fagus grandifolia	9	Good
873	Poplar	Liriodendron tulipfera	22	Good
874	Poplar	Liriodendron tulipfera	22	Fair. one sided branching
875	Poplar	Liriodendron tulipfera	22	Fair. one sided branching. leaning
876	Red Maple	Acer rubrum	7.5	Good
877	Poplar	Liriodendron tulipfera	14	Fair. one sided branching
878	Beech	Fagus grandifolia	8	Good
879	Beech	Fagus grandifolia	6	Good
880	Poplar	Liriodendron tulipfera	21	Fair. one sided branching
881	Beech	Fagus grandifolia	6. 4	Good. twin
882	Poplar	Liriodendron tulipfera	19	Good
883	Poplar	Liriodendron tulipfera	12	Good
884	Poplar	Liriodendron tulipfera	17	Good
885	Poplar	Liriodendron tulipfera	9	Good
886	Beech	Fagus grandifolia	14	Good
887	Cherry	Prunus serotina	6	Fair
888	Red Oak	Quercus rubra	10	Good
889	Poplar	Liriodendron tulipfera	20	Good
890	Poplar	Liriodendron tulipfera	14	Good
891	Poplar	Liriodendron tulipfera	17	Fair. one sided branching
892	Poplar	Liriodendron tulipfera	23.5	Good
893	Poplar	Liriodendron tulipfera	18	Good
894	Ash	Fraxinus pennsylvanica	8	Fair
895	Red Oak	Quercus rubra	20	Good
896	Beech	Fagus grandifolia	6	Good
897	Poplar	Liriodendron tulipfera	23	Good
898	Poplar	Liriodendron tulipfera	16	Fair. minimal branches
899	Poplar	Liriodendron tulipfera	8	Fair. leaning
900	Poplar	Liriodendron tulipfera	23	Good
905	Red Oak	Quercus rubra	U	Good

SIGNIFICANT AND SPECIMEN TREE REMOVAL TABLE

NUMBER	COMMON NAME	SCIENTIFIC NAME	DBH (in)
3	POPLAR	LIRIODENDRON TULIPFERA	25
4	RED MAPLE	ACER RUBRUM	26
5	RED MAPLE	ACRE RUBRUM	26
6	BLACK LOCUST	ROBINIA PSEUDOACACIA	30
7	POPLAR	LIRIODENDRON TULIPFERA	34
11	POPLAR	LIRIODENDRON TULIPFERA	24
13	WHITE ASH	FRAXINUS AMERICANA	29
19	POPLAR	LIRIODENDRON TULIPFERA	24
21	RED MAPLE	ACER RUBRUM	30
24	RED MAPLE	ACER RUBRUM	24
25	POPLAR	LIRIODENDRON TULIPFERA	28
26	POPLAR	LIRIODENDRON TULIPFERA	30
28	POPLAR	LIRIODENDRON TULIPFERA	35
39	POPLAR	LIRIODENDRON TULIPFERA	24
40	POPLAR	LIRIODENDRON TULIPFERA	27.5
43	BEECH	FAGUS GRANDIFOLIA	24
46	BEECH	FAGUS GRANDIFOLIA	32
76	POPLAR	LIRIODENDRON TULIPFERA	24
78	POPLAR	LIRIODENDRON TULIPFERA	27.5
79	POPLAR	LIRIODENDRON TULIPFERA	29
89	RED MAPLE	ACER RUBRUM	27
90	POPLAR	FAGUS GRANDIFOLIA	24.5
91	BEECH	FAGUS GRANDIFOLIA	35
92	RED MAPLE	ACER RUBRUM	24
93	POPLAR	LIRIODENDRON TULIPFERA	41
94	POPLAR	LIRIODENDRON TULIPFERA	34.5
95	POPLAR	LIRIODENDRON TULIPFERA	28
96	BEECH	FAGUS GRANDIFOLIA	24
97	POPLAR	LIRIODENDRON TULIPFERA	24
98	BEECH	FAGUS GRANDIFOLIA	26
99	POPLAR	LIRIODENDRON TULIPFERA	29
100	BEECH	FAGUS GRANDIFOLIA	24
124	POPLAR	LIRIODENDRON TULIPFERA	30
192	RED OAK	QUERCUS RUBRA	34
194	RED OAK	QUERCUS RUBRA	27

Department of Environmental Protection
Montgomery County Maryland

MARK	DESCRIPTION	DATE	APPR.

MARK	DESCRIPTION	DATE	APPR.

MR. CRAIG CARSON 240-777-7713
MONTGOMERY COUNTY DEPARTMENT OF ENVIRONMENTAL PROTECTION
255 ROCKVILLE PIKE
ROCKVILLE, MD 20850

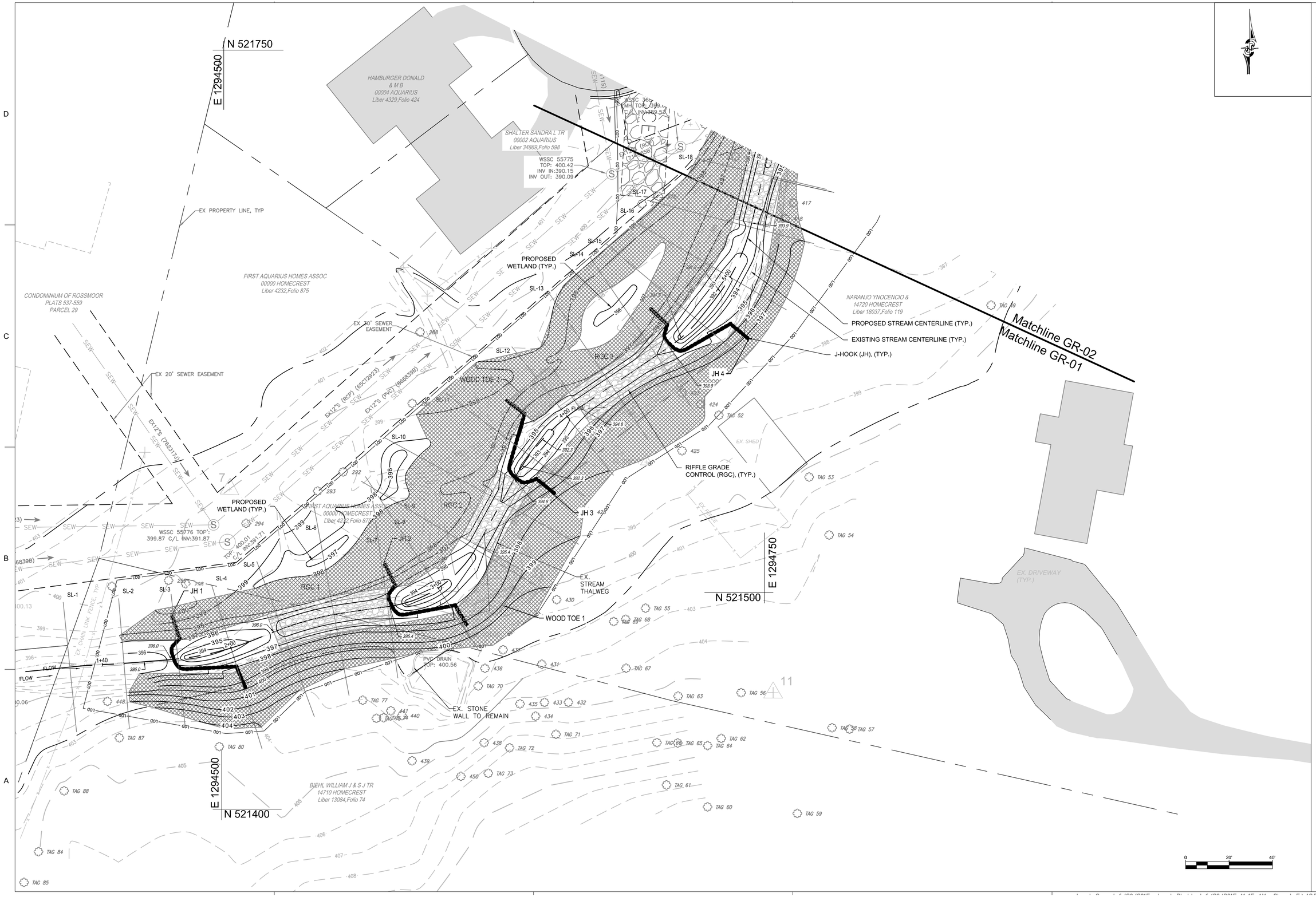
DESIGNED BY: TCS
DWN BY: GM/HT/SPT
CKD BY: JMF
SUBMITTED BY: GM
PLOT SCALE: 1"=20'
PLOT DATE: 6/26/2015
SIZE: ANSI D
FILE NAME: 03-V-01-25-EC.DWG
DATE: JUNE 2015
TASK ORDER NO.: WRE12-25
CONTRACT NO.:
FILE NUMBER:

WRE 12 - TASK ORDER 25
BEL-PRE STREAM RESTORATION
PERMIT PLAN -NOT FOR CONSTRUCTION
(13TH) ELECTION DISTRICT
MONTGOMERY COUNTY, MARYLAND

TREE TABLES
EXISTING CONDITIONS/DEMOLITION PLAN

SHEET NO.
8 of 45
EC-05

Attached Xref: 25-G-BD00.dwg
Bel Pre_Filed Trees_14-1217.dwg
LOTS_REV1.dwg
DEMO TREE block.dwg
belpre-trees_unlocked.dwg



Department of Environmental Protection
Montgomery County Maryland

MARK	DESCRIPTION	DATE	APPR.	MARK	DESCRIPTION	DATE	APPR.

MR. CRAIG CARSON 240-777-7713
MONTGOMERY COUNTY DEPARTMENT OF ENVIRONMENTAL PROTECTION
255 ROCKVILLE PIKE
ROCKVILLE, MD 20850

DESIGNED BY: GM
DWN BY: GM/HTS/PT
CKD BY: JF
SUBMITTED BY: GM
PLOT SCALE: 1" = 20'
PLOT DATE: 6/28/15
SIZE: ANSI D
FILE NAME: 25-GR-01.DWG
DATE: JUNE 2015
TASK ORDER NO.: WRE12-25
CONTRACT NO.:
FILE NUMBER:

WRE 12 - TASK ORDER 25
BEL-PRE STREAM RESTORATION
(13TH) ELECTION DISTRICT
MONTGOMERY COUNTY, MARYLAND

GRADING PLAN
REACH 1

SHEET NO.
12 of 45

GR-01

Attached Xref: 25-G-BD00.dwg
LOTS_REV.dwg
BSM4 Aerial.dwg
2015.02.21 Construction Plan.dwg

Department of Environmental Protection
Montgomery County Maryland

MARK	DESCRIPTION	DATE	APPR.	MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: TES
DWN BY: GMHT/SPT
CKD BY: JF
SUBMITTED BY: GM
DATE: JUNE 2015
TASK ORDER NO.: WRE12.25
CONTRACT NO.:
FILE NUMBER:
PLOT SCALE: 1" = 20'
PLOT DATE: 6/26/15
SIZE: ANSI D
FILE NAME: 25-GR-B000

MR. CRAIG CARSON 240-777-7713
MONTGOMERY COUNTY DEPARTMENT
OF ENVIRONMENTAL PROTECTION
255 ROCKVILLE PIKE
ROCKVILLE, MD 20850

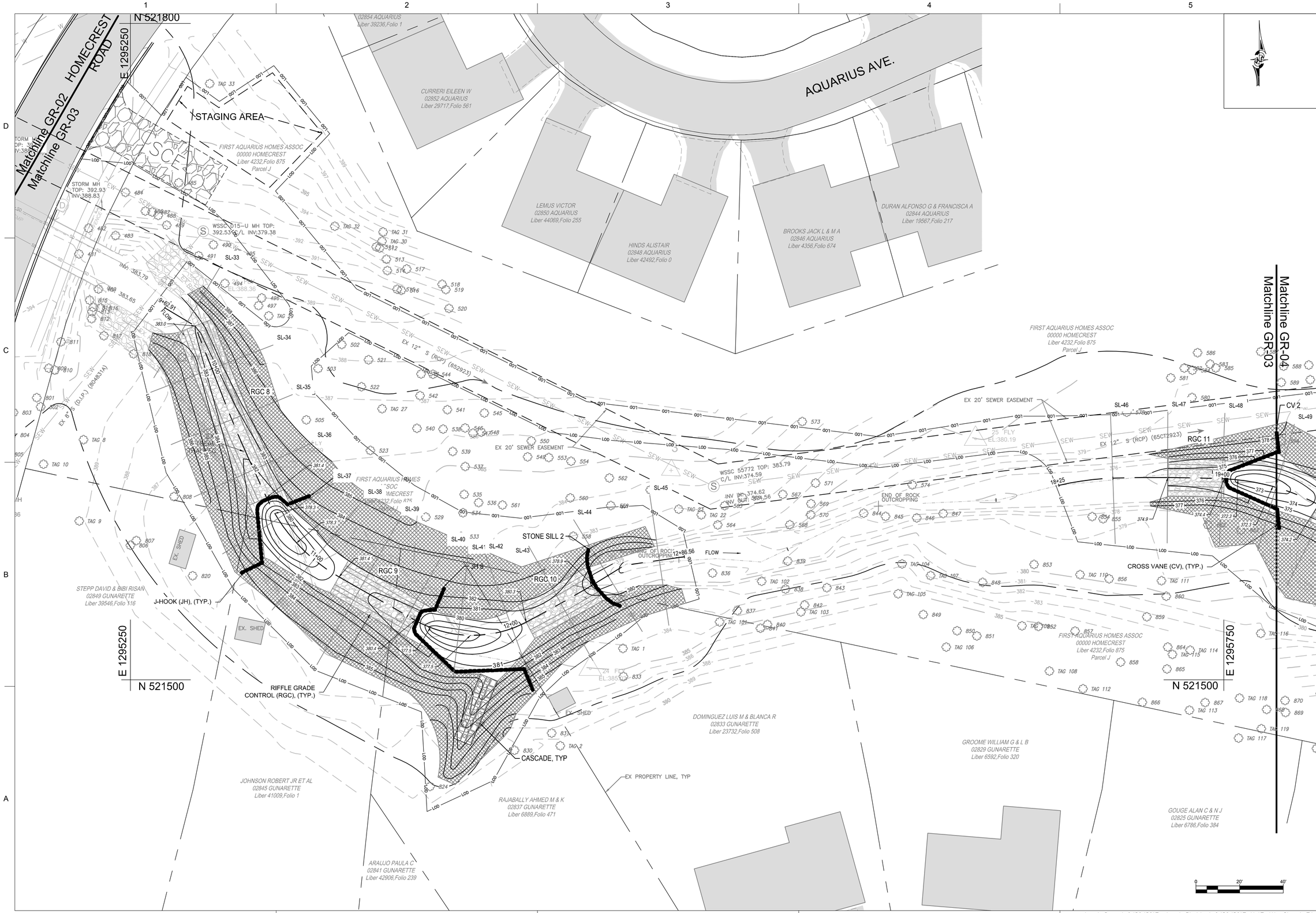
WRE 12. TASK ORDER 25
BEL-PRE STREAM RESTORATION
(13TH) ELECTION DISTRICT
MONTGOMERY COUNTY, MARYLAND

GRADING PLAN
REACH 1

SHEET NO.
13 of 45
GR-02

Attached Xref: 25-C-B000.dwg
LOTS_REV.dwg
SITE_Aerial_Base_L.dwg
2015.02.20 Grading-Interim submittal.dwg
03-V-01-05-EC.dwg

Last Saved 6/30/2015 Last Plotted 6/30/2015 11:45 AM Sheet F:\43.560 BEL-PRE\DWG\25-GR



Department of Environmental Protection
Montgomery County Maryland

MARK	DESCRIPTION	DATE	APPR.	MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: TCS
DWN BY: GM/HTSPT
SUBMITTED BY: GM
PLOT SCALE: 1" = 20'
SIZE: ANSI D
CKD BY: JF
TASK ORDER NO.: WRE12-25
CONTRACT NO.:
PLOT DATE: 6/26/15
FILE NAME: 25-GR1.DWG
DATE: JUNE 2015
FILE NUMBER:

MR. CRAIG CARSON 240-777-7713
MONTGOMERY COUNTY DEPARTMENT OF ENVIRONMENTAL PROTECTION
255 ROCKVILLE PIKE
ROCKVILLE, MD 20850

WRE 12 - TASK ORDER 25
BEL-PRE STREAM RESTORATION
(13TH) ELECTION DISTRICT
MONTGOMERY COUNTY, MARYLAND

GRADING PLAN
REACH 2 & REACH 4

SHEET NO.
14 of 45
GR-03

Attached Xref: 25-G-B000.dwg
LBTX_REV.lisp
SAV_Layers.lisp
2015.02.20 Grading-Interim submittal.dwg
03-V-01-25-EC.dwg

Last Saved 6/30/2015 Last Plotted 6/30/2015 11:45 AM Sheet F:\43.560 BEL-PRE\DWG\25-GR

Matchline GR-03

Matchline GR-04

FIRST AQUARIUS HOMES ASSOC
00000 HOMECREST
Liber 4232,Folio 875
Parcel J

FIRST AQUARIUS HOMES ASSOC
00000 HOMECREST
Liber 4232,Folio 875
P/O Parcel J

WICKRAMASINGHE HASITHA M &
02821 GUNARETTE
Liber 23249,Folio 342

PRAGER GEORGE A & M L
02817 GUNARETTE
Liber 9374,Folio 94

MILLER LEWIS S & C E
02813 GUNARETTE
Liber 18612,Folio 95

HOMECREST HOA INC
00000 GUNARETTE
Liber 6569,Folio 6

HADDAD JIHAD I & OULA J
02809 GUNARETTE
Liber 20226,Folio 342

GUNARETTE WAY

EX 20' SEWER EASEMENT

EX TRIBUTARY

EX PROPERTY LINE, TYP

EX RIPRAP

WSSC 55771 TOP: 376.61 C/L INV:370.3

WSSC 55769 TOP: 373.95 C/L

CV 2 CV 3 CV 4

JH 9 JH 10 JH 11 JH 12

RGC 12 RGC 13 RGC 14 RGC 15 RGC 16 RGC 17 RGC 18

STONE SILL 3

E 1296000 N 521500

E 1296250 N 521450

0 20' 40'

Department of Environmental Protection
Montgomery County Maryland

MARK	DESCRIPTION	DATE	APPR.	MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: TES | CKD BY: JF | DWN BY: GMW/TJ/SPT | TASK ORDER NO.: WRE12-25 | SUBMITTED BY: GM | CONTRACT NO.: | PLOT SCALE: 1" = 20' | PLOT DATE: 6/26/15 | FILE NAME: 25-GR01.DWG | FILE NUMBER: | SIZE: ANSI D | DATE: JUNE 2015

MR. CRAIG CARSON 240-777-7713
MONTGOMERY COUNTY DEPARTMENT OF ENVIRONMENTAL PROTECTION
255 ROCKVILLE PIKE
ROCKVILLE, MD 20850

WRE 12 - TASK ORDER 25
BEL-PRE STREAM RESTORATION

(13TH) ELECTION DISTRICT
MONTGOMERY COUNTY, MARYLAND

GRADING PLAN
REACH 4

SHEET NO.
15 of 45

GR-04

Attached Xref: 25-G-B000.dwg
13TS_REV1.dwg
9.5.14 Aerial Base ALL.dwg
2015.02.20 Grading-Interim submittal.dwg
03-V-01-25-EC.dwg

Last Saved 6/30/2015 Last Plotted 6/30/2015 11:45 AM Sheet F:\43.560 BEL-PRE\DWG\25-GR