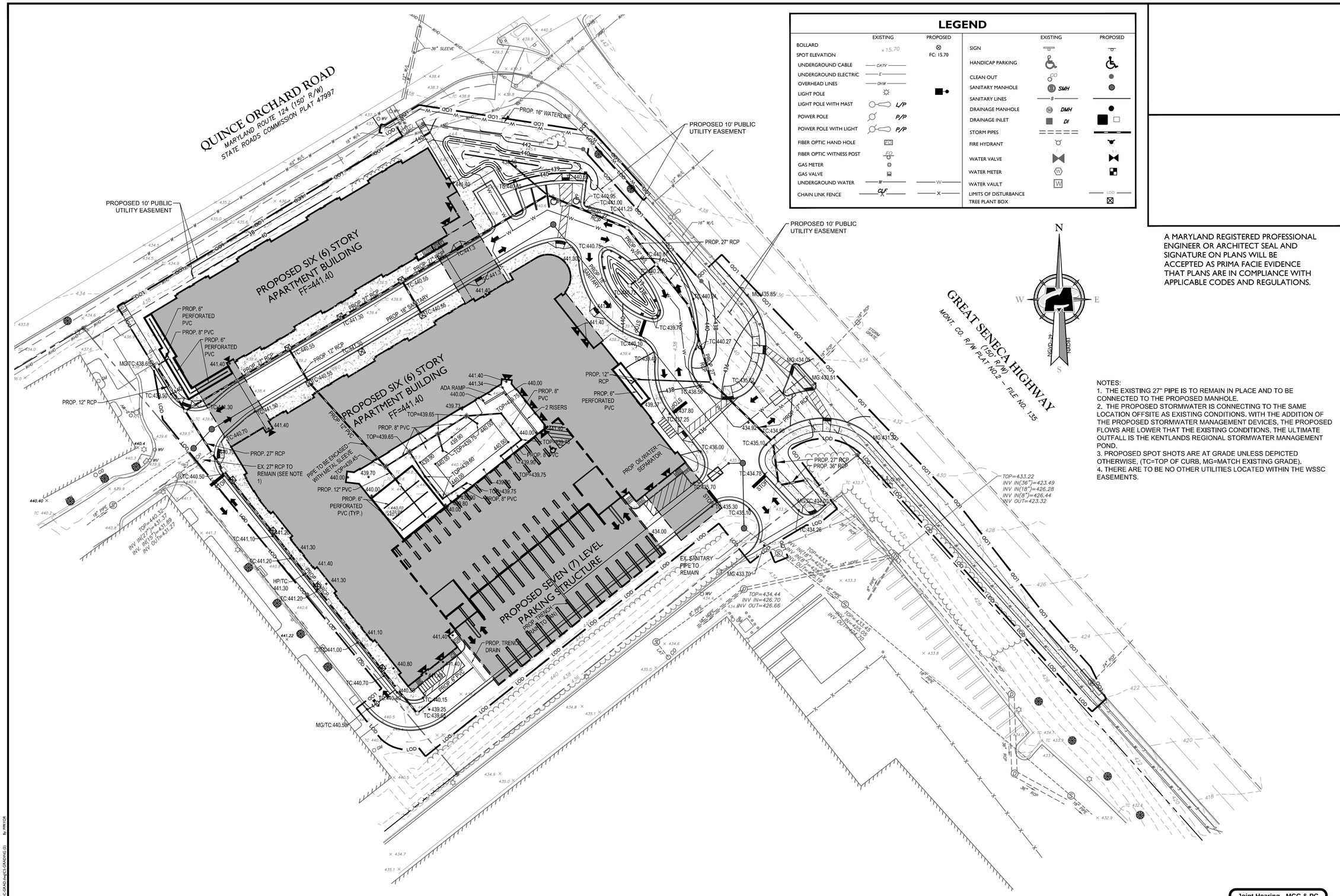

LEGEND

	EXISTING	PROPOSED
BOLLARD		
SPOT ELEVATION	× 15.70	FC: 15.70
UNDERGROUND CABLE	CATV	
UNDERGROUND ELECTRIC	E	
OVERHEAD LINES	OHW	
LIGHT POLE		
LIGHT POLE WITH MAST	L/P	
POWER POLE	P/P	
POWER POLE WITH LIGHT	P/P	
FIBER OPTIC HAND HOLE	FO	
FIBER OPTIC WITNESS POST	FO	
GAS METER		
GAS VALVE		
UNDERGROUND WATER	W	W
CHAIN LINK FENCE	CLF	X

	EXISTING	PROPOSED
SIGN		
HANDICAP PARKING		
CLEAN OUT	CO	
SANITARY MANHOLE	SMH	
SANITARY LINES	S	
DRAINAGE MANHOLE	DMH	
DRAINAGE INLET	DI	
STORM PIPES		
FIRE HYDRANT		
WATER VALVE	V	V
WATER METER	W	
WATER VAULT	W	
LIMITS OF DISTURBANCE		LOD
TREE PLANT BOX		

A MARYLAND REGISTERED PROFESSIONAL ENGINEER OR ARCHITECT SEAL AND SIGNATURE ON PLANS WILL BE ACCEPTED AS PRIMA FACIE EVIDENCE THAT PLANS ARE IN COMPLIANCE WITH APPLICABLE CODES AND REGULATIONS.

NOTES:
1. THE EXISTING 27" PIPE IS TO REMAIN IN PLACE AND TO BE CONNECTED TO THE PROPOSED MANHOLE.
2. THE PROPOSED STORMWATER IS CONNECTING TO THE SAME LOCATION OFFSITE AS EXISTING CONDITIONS. WITH THE ADDITION OF THE PROPOSED STORMWATER MANAGEMENT DEVICES, THE PROPOSED FLOWS ARE LOWER THAT THE EXISTING CONDITIONS. THE ULTIMATE OUTFALL IS THE KENTLANDS REGIONAL STORMWATER MANAGEMENT POND.
3. PROPOSED SPOT SHOTS ARE AT GRADE UNLESS DEPICTED OTHERWISE. (TC=TOP OF CURB, MG=MATCH EXISTING GRADE).
4. THERE ARE TO BE NO OTHER UTILITIES LOCATED WITHIN THE WSSC EASEMENTS.

Joint Hearing - MCC & PC
SDP-7362-2016
Exhibit #6

30 24 18 12 6 0 15 30 60
SCALE : 1" = 30'

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FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT: WWW.CALL811.COM

REV	DATE	DRAWN BY	DESCRIPTION
1	10/11/16	PAP	PLANS REVISED PER COMMENTS RECEIVED 10/23/16.

STATE OF MARYLAND
EDUARDO J. INTRIAGO
No. 46513
PROFESSIONAL ENGINEER
10/11/16

EDUARDO J. INTRIAGO
MARYLAND PROFESSIONAL ENGINEER - LICENSE NUMBER: 46513

SCHEMATIC DEVELOPMENT PLAN

FOR

S & T KENTLANDS, LLC

BLOCK "Q"
PARCEL 1 DEED BOOK 24204 AT PAGE 59
PARCEL J DEED BOOK 27103 AT PAGE 189

CITY OF GAITHERSBURG
MARYLAND

STERLING OFFICE
22375 Broderick Drive
Suite 110
Sterling, VA 20166
Phone: 703.430.4330
Fax: 703.430.4339

SCALE:	DATE:	DRAWN BY:	CHECKED BY:
	11/16/15	CME	EI

PROJECT NUMBER:	DRAWING NAME:
15000252A	C-GRAD

SHEET TITLE:
PROPOSED GRADING PLAN

SHEET NUMBER:
C5

15000252A/Engineering Drawings/Engineering/Site Plan/C-GRAD.dwg/C5-GRADING (2) By: PRINTOR

B-1 STANDARDS AND SPECIFICATIONS

FOR

STABILIZED CONSTRUCTION ENTRANCE

Definition

A layer of aggregate that is underlain with nonwoven geotextile at points of ingress and egress of the construction site.

Purpose

To reduce tracking of sediment onto roadways and provide a stable area for entrance to or exit from the construction site.

Conditions Where Practice Applies

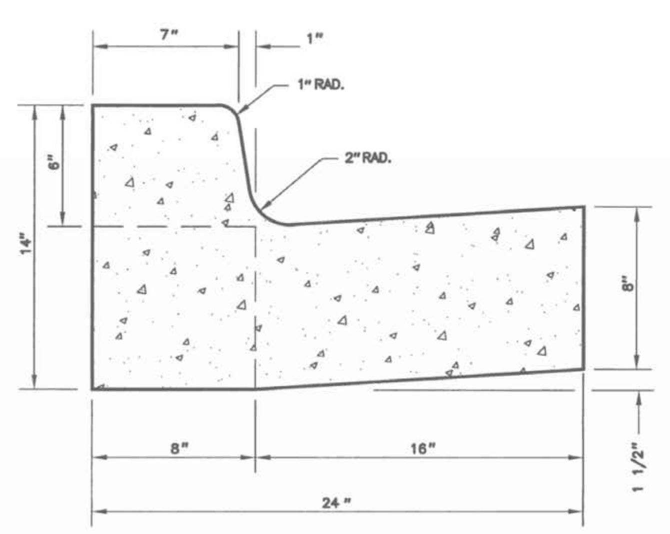
Stabilized construction entrances must be located at all points of construction ingress and egress.

Design Criteria

1. Where possible, locate the stabilized construction entrances at the high side of the project area.
2. For single family residential lots, locate the entrance at the permanent driveway.
3. Stabilized construction entrances cannot be installed over pavement.
4. Minimum length is 50 feet (30 feet for single family residential lots).
5. Minimum width is 10 feet. Flare entrance 10 feet minimum at the existing road to provide a turning radius.
6. The orientation of the stabilized construction entrance may vary from a straight line to a curve or "T" shape depending on the topography and right-of-way.
7. All surface water flowing to or diverted toward the stabilized construction entrance (SCE) must be piped under the entrance. Size the pipe to convey the runoff generated by the 2-year, 24-hour frequency storm at minimum. The minimum permissible pipe size is 6 inches. When the entrance is located at a high spot and has no drainage to convey, a pipe is not necessary.

Maintenance

The SCE must be maintained in a condition that minimizes tracking of sediment. This may require adding stone or making other repairs as conditions demand to maintain a clean surface, the mountable berm, and the specified dimensions. All stone or sediment spilled, dropped, or tracked onto the adjacent roadway must be removed immediately by vacuuming, scraping, and/or sweeping. Washing the roadway to remove mud tracked onto pavement is not acceptable unless the wash water is directed to an approved sediment control practice.



GENERAL NOTES

1. REFER TO MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION SPECIFICATIONS FOR MATERIALS, METHODS OF CONSTRUCTION AND EXPANSION JOINT LOCATIONS.
2. THIS STANDARD SHALL BE USED ON PRIMARY RESIDENTIAL, ARTERIAL AND BUSINESS DISTRICT ROADS AS WELL AS CURB RETURNS AND INLET THROATS.
3. WHENEVER STANDARD MC-101.01 CURB IS USED IN CONJUNCTION WITH THIS STANDARD, A TEN FOOT TRANSITION SHALL BE PROVIDED FROM STANDARD MC-100.01 TO STANDARD MC-101.01 FOR CURB RETURNS AND CURB SECTIONS WHICH INCLUDE INLETS.
4. THE STANDARD DISTANCE BETWEEN JOINTS SHALL BE TEN FEET (MAXIMUM AND MINIMUM DISTANCES SHALL BE THIRTEEN FEET AND FIVE FEET RESPECTIVELY).
5. EXPANSION JOINT MATERIAL SHALL BE 1/2 INCH PREFORMED CORK, TRIMMED AND SEALED WITH NON-STAINING TWO-COMPONENT POLYSULFIDE OR POLYURETHANE ELASTOMERIC TYPE SEALANT COMPLYING WITH ASTM-C920. ⚠1

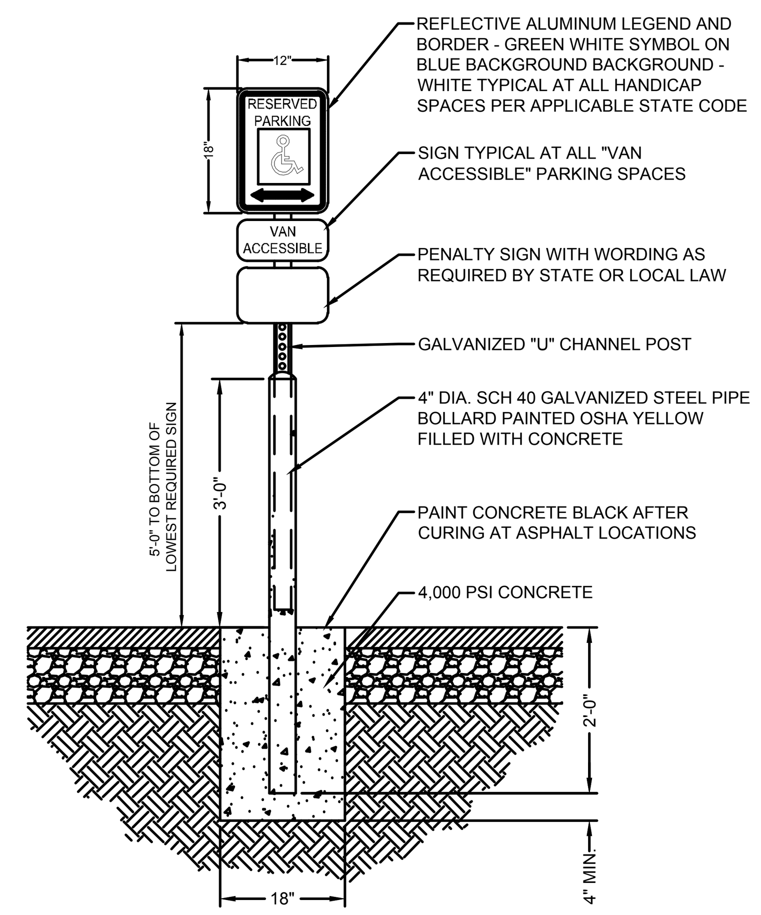
APPROVED 14 APR '06 DATE
DIRECTOR, DEPT. OF PUBLIC WORKS & TRANSPORTATION
for CHIEF, DIV. OF CAP. DEV.

REVISED
⚠1 ASTM-C920 4/2006

MONTGOMERY COUNTY DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION

COMBINATION CONCRETE CURB AND GUTTER TYPE A

STANDARD NO. MC-100.01



NOTE:
ONE AT EACH HANDICAP SPACE. WHERE HANDICAP SPACES FACE EACH OTHER WITHOUT WALKWAY, THERE SHALL BE ONE POST WITH SIGNS MOUNTED BOTH SIDES

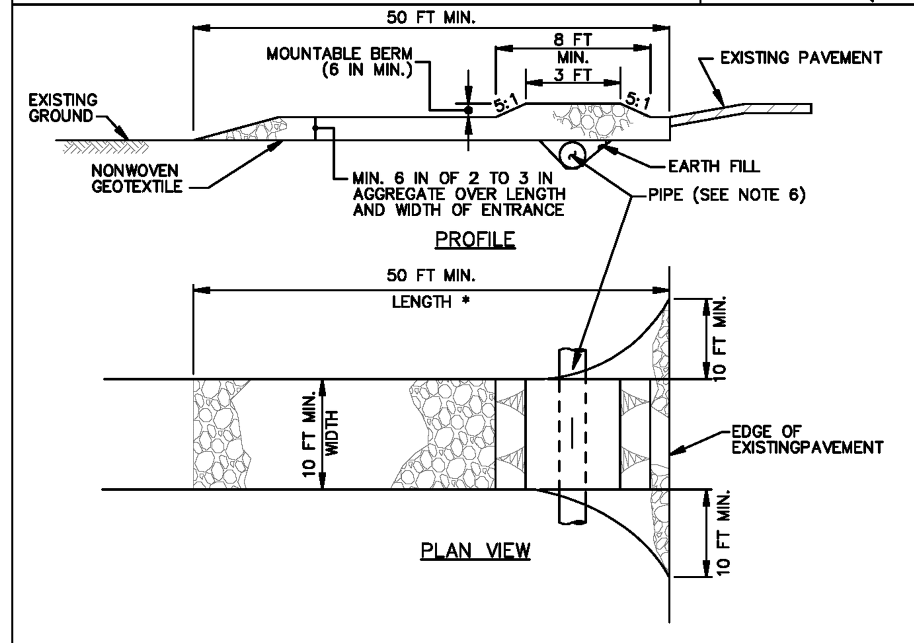
HANDICAP PARKING SIGN DETAIL

N.T.S.

15000252A\Engineering Drawings\Engineering\Site Plans\C-CVER.dwg\C10-DETAILS (2) By: PPRYOR

DETAIL B-1 STABILIZED CONSTRUCTION ENTRANCE

STANDARD SYMBOL
SCE



CONSTRUCTION SPECIFICATIONS

1. PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SCE. USE MINIMUM LENGTH OF 50 FEET (*30 FEET FOR SINGLE RESIDENCE LOT). USE MINIMUM WIDTH OF 10 FEET. FLARE SCE 10 FEET MINIMUM AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
2. PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SCE UNDER THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE. PROTECT PIPE INSTALLED THROUGH THE SCE WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND A MINIMUM OF 12 INCHES OF STONE OVER THE PIPE. PROVIDE PIPE AS SPECIFIED ON APPROVED PLAN. WHEN THE SCE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY, A PIPE IS NOT NECESSARY. A MOUNTABLE BERM IS REQUIRED WHEN SCE IS NOT LOCATED AT A HIGH SPOT.
3. PREPARE SUBGRADE AND PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS.
4. PLACE CRUSHED AGGREGATE (2 TO 3 INCHES IN SIZE) OR EQUIVALENT RECYCLED CONCRETE (WITHOUT REBAR) AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE SCE.
5. MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT. ADD STONE OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAN SURFACE, MOUNTABLE BERM, AND SPECIFIED DIMENSIONS. IMMEDIATELY REMOVE STONE AND/OR SEDIMENT SPILLED, DROPPED, OR TRACKED ONTO ADJACENT ROADWAY BY VACUUMING, SCRAPING, AND/OR SWEEPING. WASHING ROADWAY TO REMOVE MUD TRACKED ONTO PAVEMENT IS NOT ACCEPTABLE UNLESS WASH WATER IS DIRECTED TO AN APPROVED SEDIMENT CONTROL PRACTICE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

E-2 STANDARDS AND SPECIFICATIONS

FOR

SILT FENCE ON PAVEMENT

Definition

A temporary barrier of woven geotextile used to intercept, retain, and filter surface runoff from disturbed areas.

Purpose

To intercept sediment-laden sheet flow runoff allowing the deposition of sediment transported from upslope. Silt fence is not to be used where it will intercept concentrated flow.

Conditions Where Practice Applies

Silt fence on pavement is limited to intercepting sheet flow runoff from small disturbed areas when standard silt fence cannot be used. The use of silt fence on pavement is based on the slope length and steepness of the contributing drainage area.

Design Criteria

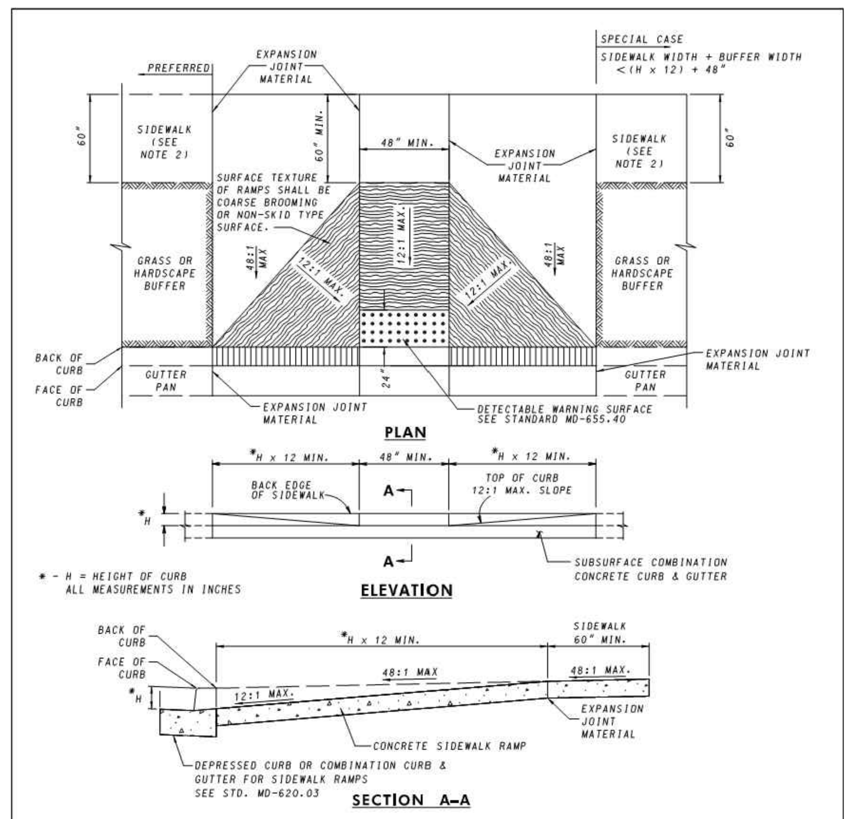
Table E.2: Silt Fence on Pavement Design Constraints

Average Slope Steepness	Maximum Slope Length	Maximum Silt Fence Length
Flatter than 50:1 (<2%)	250 feet	500 feet
50:1 to 10:1 (2-10%)	125 feet	250 feet
<10:1 to 5:1 (>10-20%)	100 feet	200 feet

1. Silt fence on pavement must be placed on the contour.
2. The use of silt fence on pavement must conform to the design constraints listed in Table E.2 above.

Maintenance

Accumulated sediment and debris must be removed when bulges develop in the silt fence or when sediment reaches 25 percent of the fence height. The geotextile must be replaced if torn. The water tight seal along the bottom must be maintained and the stone replaced if displaced.



NOTES

1. TO BE USED ON WIDE SIDEWALKS OR SIDEWALKS WITH SIGNIFICANT SEPARATION FROM THE ROADWAY WHERE THE GEOMETRY SPECIFIED IN THE DETAILS ABOVE CAN BE SATISFIED. MAY BE MODIFIED TO SUIT A PARTICULAR LOCATION.
2. WHERE 60" SIDEWALK CAN NOT BE PROVIDED, A DESIGN WAIVER MUST BE REQUESTED
3. NO TRAVERSABLE SLOPE ON THE RAMP OR SIDEWALK SHALL EXCEED 12:1 IN THE DIRECTION OF PEDESTRIAN TRAVEL, OR 48:1 PERPENDICULAR TO THE DIRECTION OF PEDESTRIAN TRAVEL.
4. EXPANSION JOINT MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH STD. MD-655.01.
5. SIDEWALK RAMPS TO BE SHOWN ON PLANS SYMBOLICALLY AND REFERENCED WITH THE CENTER OF THE RAMP ALIGNED TO A STATION ON THE CONSTRUCTION CENTERLINE. SEPARATE DETAILS SHALL BE SHOWN WHERE PROPOSED RAMP VARIES FROM STANDARD CASES.
6. TRANSITION PANELS TO TIE INTO EXISTING SIDEWALK MUST BE A MINIMUM OF 5' IN LENGTH.

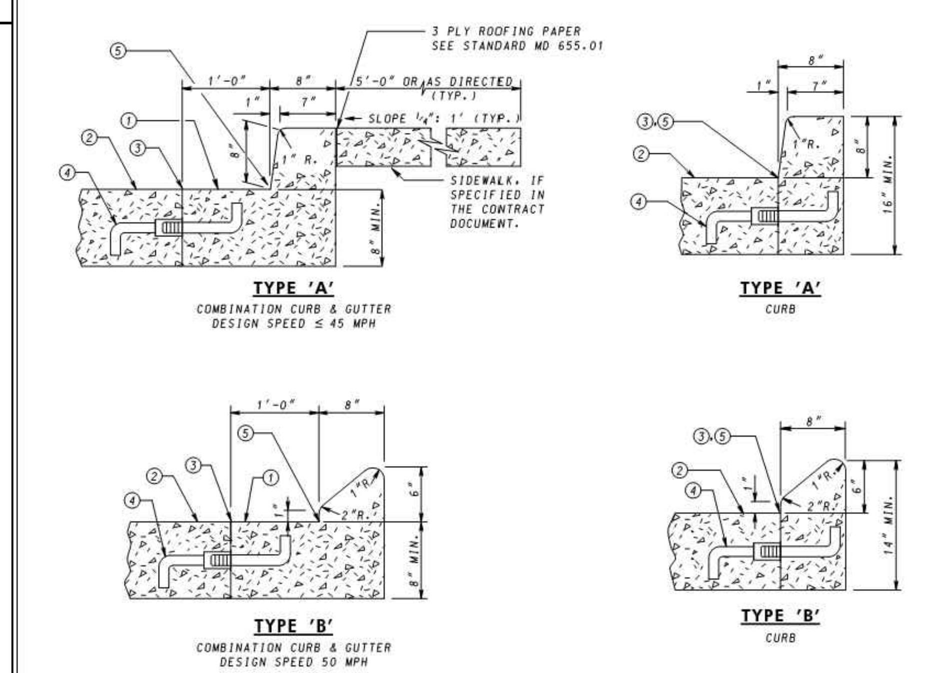
SPECIFICATION 603 & 611 | CATEGORY CODE ITEMS | APPROVED | DIRECTOR – OFFICE OF HIGHWAY DEVELOPMENT

APPROVAL • SHA REVISIONS		APPROVAL • FEDERAL HIGHWAY ADMINISTRATION	
APPROVAL	2-10-04	APPROVAL	3-31-04
REVISED	3-25-08	REVISED	4-5-06
REVISED	6-2-14	REVISED	5-20-14
REVISED		REVISED	

Maryland Department of Transportation
STATE HIGHWAY ADMINISTRATION
STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES

SIDEWALK RAMPS PERPENDICULAR

STANDARD NO. MD 655.11



① SLOPE GUTTER PAN 1/2" PER FOOT TOWARD FLOW LINE ON ALL ROADWAYS INCLUDING SUPERELEVATED SECTIONS, EXCEPT INTERCHANGE RAMPS.
② ROADWAY PAVEMENT SLOPE.
③ ROADWAY PAVEMENT CONSTRUCTION JOINT.
④ PROVIDE LONGITUDINAL TIE DEVICE "J" BAR MODIFIED. REFER TO STANDARD NO MD 572.61.
⑤ FLOW LINE.

NOTES

A. RIGID PAVEMENT ROADWAY ADJACENT TO COMBINATION CURB AND GUTTER AND CLOSED SECTION ROADWAY USING RIGID PAVEMENT WITH COMBINATION CURB AND GUTTER SHALL BE TIED AT THE ROADWAY PAVEMENT CONSTRUCTION JOINT. REFER TO STANDARD MD 572.61 FOR METHOD OF LONGITUDINAL TIE DEVICES. SPACING OF THE TIE BARS SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS. RIGID PAVEMENT AND CURB SHALL BE CONSTRUCTED AS INDICATED. TIE DEVICES ARE NOT REQUIRED WHEN USING FLEXIBLE PAVEMENT FOR ROADWAY.
B. MAXIMUM JOINT SPACING FOR CONCRETE CURB AND COMBINATION CURB & GUTTER IS 10'. SEE SPECIFICATION FOR LOCATIONS AND DESCRIPTION OF TREATMENT FOR THE TYPES OF JOINTS USED.
C. TYPE A OR B COMBINATION CURB AND GUTTER SHALL BE USED FOR ALL APPLICABLE NEW CONSTRUCTION AND IN THOSE AREAS WHERE THE COMBINATION CURB AND GUTTER IS TO BE REPLACED IN KIND.
D. TYPE A OR B CURB SHALL BE USED FOR THE REPLACEMENT OF LIKE KIND OF CURB ONLY. NOT TO BE USED FOR NEW CONSTRUCTION EXCEPT WHERE INDICATED ON APPROPRIATE INLET STANDARDS.

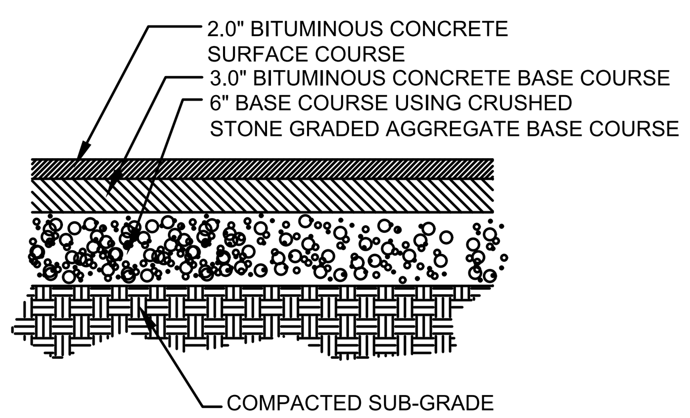
SPECIFICATION 602 | CATEGORY CODE ITEMS | APPROVED | DIRECTOR – OFFICE OF HIGHWAY DEVELOPMENT

APPROVAL • SHA REVISIONS		APPROVAL • FEDERAL HIGHWAY ADMINISTRATION	
APPROVAL	2-10-04	APPROVAL	3-31-04
REVISED	2-25-16	REVISED	2-23-16
REVISED		REVISED	
REVISED		REVISED	

Maryland Department of Transportation
STATE HIGHWAY ADMINISTRATION
STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES

STANDARD TYPES A & B CONCRETE CURB AND COMBINATION CONCRETE CURB & GUTTER

STANDARD NO. MD 620.02

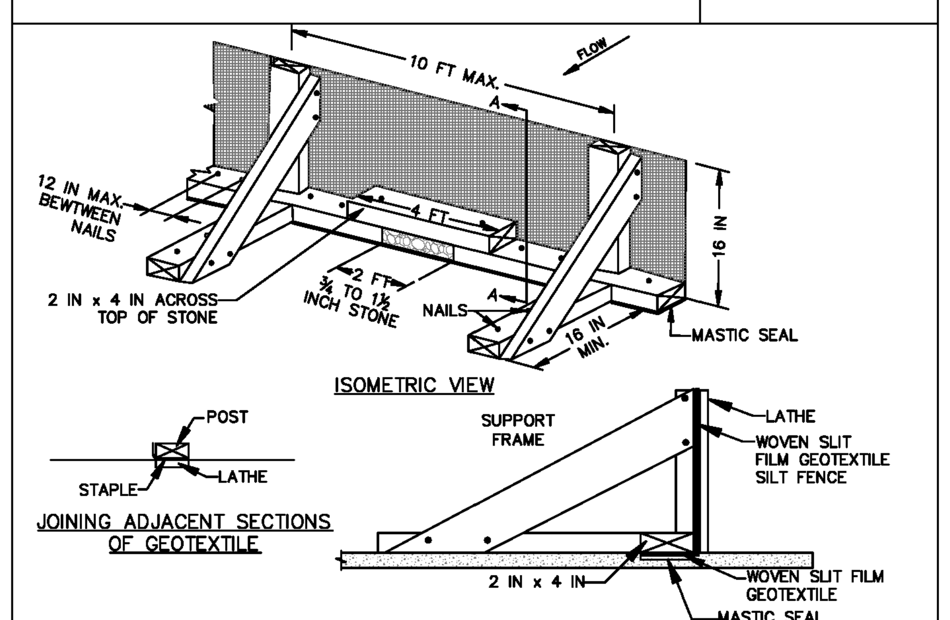


HEAVY DUTY ASPHALT PAVING

NOT TO SCALE

DETAIL E-2 SILT FENCE ON PAVEMENT

STANDARD SYMBOL
SFOP

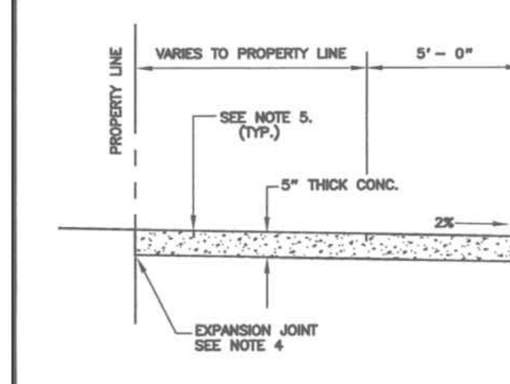


CONSTRUCTION SPECIFICATIONS

1. USE NOMINAL 2 INCH X 4 INCH LUMBER.
2. USE WOVEN SLIT FILM GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS.
3. PROVIDE MANUFACTURER CERTIFICATION TO THE AUTHORIZED REPRESENTATIVE OF THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT THE GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS.
4. SPACE UPRIGHT SUPPORTS NO MORE THAN 10 FEET APART.
5. PROVIDE A TWO FOOT OPENING BETWEEN EVERY SET OF SUPPORTS AND PLACE STONE IN THE OPENING OVER GEOTEXTILE.
6. KEEP SILT FENCE TAUT AND SECURELY STAPLE TO THE UPSLOPE SIDE OF UPRIGHT SUPPORTS. EXTEND GEOTEXTILE UNDER 2x4.
7. WHERE TWO SECTIONS OF GEOTEXTILE ADJOIN: OVERLAP, FOLD, AND STAPLE TO POST IN ACCORDANCE WITH THIS DETAIL. ATTACH LATHE.
8. PROVIDE A MASTIC SEAL BETWEEN PAVEMENT, GEOTEXTILE, AND 2x4 TO PREVENT SEDIMENT-LADEN WATER FROM ESCAPING BENEATH SILT FENCE INSTALLATION.
9. SECURE BOARDS TO PAVEMENT WITH 40D 5 INCH MINIMUM LENGTH NAILS.
10. REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN SILT FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. MAINTAIN WATER TIGHT SEAL ALONG BOTTOM. REPLACE STONE IF DISPLACED.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION



GENERAL NOTES

1. REFER TO MARYLAND STATE HIGHWAY ADMINISTRATION SPECIFICATIONS FOR MATERIALS AND METHODS OF CONSTRUCTION.
2. REFER TO MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DESIGN STANDARD No. MC-302.01 FOR DETAILS AT A DRIVEWAY.
3. 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.
4. 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 ASTM-C920. ⚠1
5. SCORE THE CONCRETE TO A DEPTH OF 1/3 THE SLAB THICKNESS TO PROVIDE WEAKENED PLANE TRANSVERSE JOINTS AT 5' – 0" INTERVALS PARALLEL WITH AND PERPENDICULAR TO THE CURBING.

APPROVED 14 APR-06 DATE
DIRECTOR, DEPT. OF PUBLIC WORKS & TRANSPORTATION
for CHIEF, DIV. OF CAP. DEV.

REVISED
⚠1 ASTM-C920 4/2006

MONTGOMERY COUNTY DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION

BUSINESS DISTRICT SIDEWALK

STANDARD NO. MC-111.01

DETAIL E-1 SILT FENCE

STANDARD SYMBOL
SF

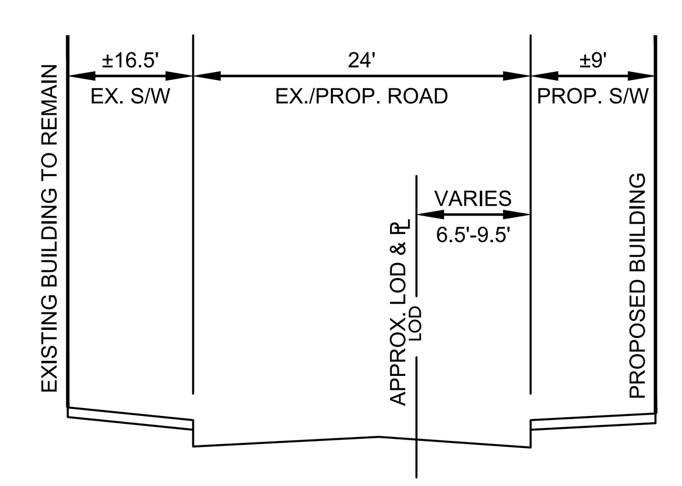
CONSTRUCTION SPECIFICATIONS

1. USE WOOD POSTS 1¾ X 1¾ ± 1/16 INCH (MINIMUM) SQUARE CUT OF SOUND QUALITY HARDWOOD. AS AN ALTERNATIVE TO WOODEN POST USE STANDARD "T" OR "U" SECTION STEEL POSTS WEIGHING NOT LESS THAN 1 POUND PER LINEAR FOOT.
2. USE 36 INCH MINIMUM POSTS DRIVEN 16 INCH MINIMUM INTO GROUND NO MORE THAN 6 FEET APART.
3. USE WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS AND FASTEN GEOTEXTILE SECURELY TO UPSLOPE SIDE OF FENCE POSTS WITH WIRE TIES OR STAPLES AT TOP AND MID-SECTION.
4. PROVIDE MANUFACTURER CERTIFICATION TO THE AUTHORIZED REPRESENTATIVE OF THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT THE GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS.
5. EMBED GEOTEXTILE A MINIMUM OF 8 INCHES VERTICALLY INTO THE GROUND. BACKFILL AND COMPACT THE SOIL ON BOTH SIDES OF FABRIC.
6. WHERE TWO SECTIONS OF GEOTEXTILE ADJOIN: OVERLAP, TWIST, AND STAPLE TO POST IN ACCORDANCE WITH THIS DETAIL.
7. EXTEND BOTH ENDS OF THE SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SILT FENCE.
8. REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN SILT FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. IF UNDERMINING OCCURS, REINSTALL FENCE.

2 OF 2

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION



CROSS SECTION OF EXISTING ROAD ALONG WESTERN PROPERTY LINE

NOT TO SCALE

NOTE: LOD AND PROPERTY LINE (℗) DISTANCE VARY ALONG DRIVE AISLE

B-4-8 STANDARDS AND SPECIFICATIONS

FOR

STOCKPILE AREA

Definition

A mound or pile of soil protected by appropriately designed erosion and sediment control measures.

Purpose

To provide a designated location for the temporary storage of soil that controls the potential for erosion, sedimentation, and changes to drainage patterns.

Conditions Where Practice Applies

Stockpile areas are utilized when it is necessary to salvage and store soil for later use.

Criteria

1. The stockpile location and all related sediment control practices must be clearly indicated on the erosion and sediment control plan.
2. The footprint of the stockpile must be sized to accommodate the anticipated volume of material and based on a side slope ratio no steeper than 2:1. Benching must be provided in accordance with Section B-3 Land Grading.
3. Runoff from the stockpile area must drain to a suitable sediment control practice.
4. Access the stockpile area from the upgrade side.
5. Clear water runoff into the stockpile area must be minimized by use of a diversion device such as an earth dike, temporary swale or diversion fence. Provisions must be made for discharging concentrated flow in a non-erosive manner.
6. Where runoff concentrates along the toe of the stockpile fill, an appropriate erosion/sediment control practice must be used to intercept the discharge.
7. Stockpiles must be stabilized in accordance with the 3/7 day stabilization requirement as well as Standard B-4-1 Incremental Stabilization and Standard B-4-4 Temporary Stabilization.
8. If the stockpile is located on an impervious surface, a liner should be provided below the stockpile to facilitate cleanup. Stockpiles containing contaminated material must be covered with impermeable sheeting.

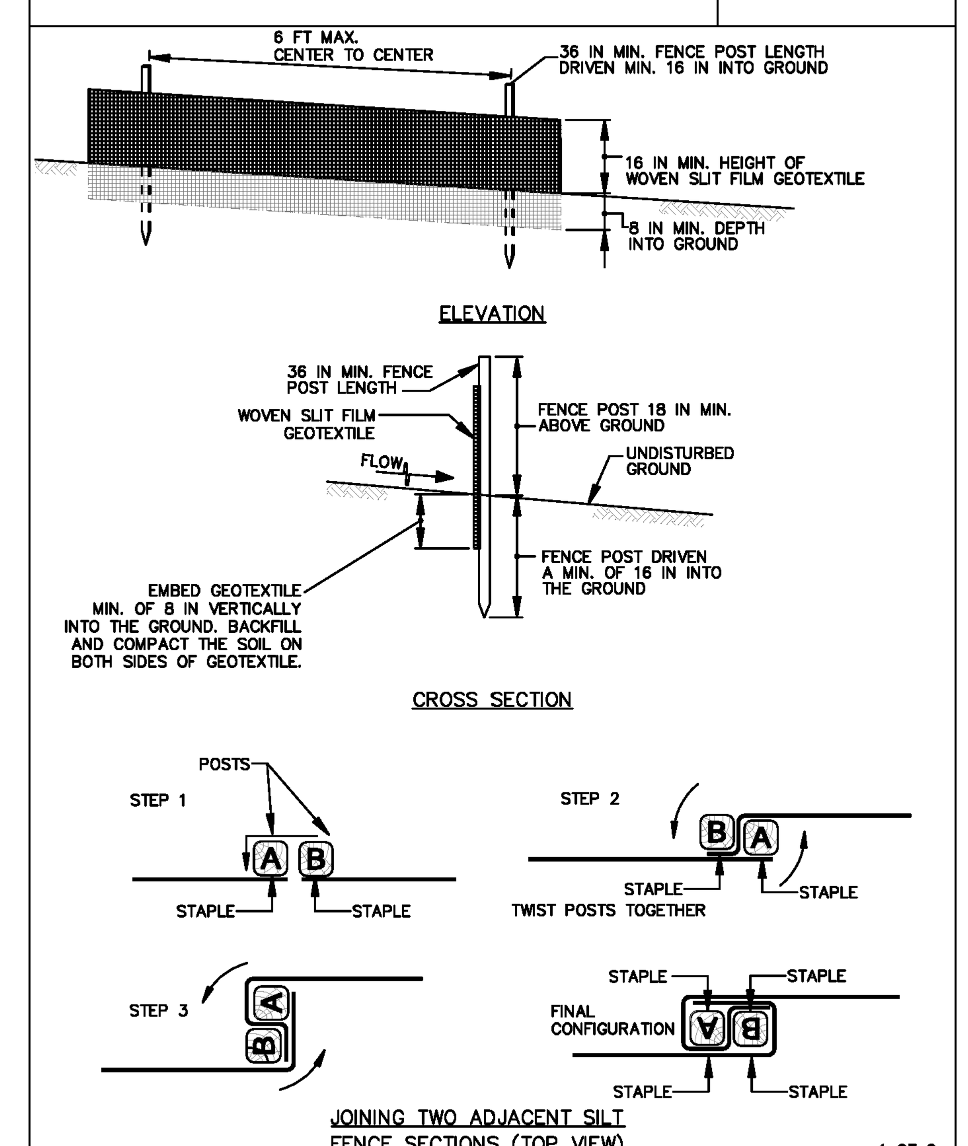
Maintenance

The stockpile area must continuously meet the requirements for Adequate Vegetative Establishment in accordance with Section B-4 Vegetative Stabilization. Side slopes must be maintained at no steeper than a 2:1 ratio. The stockpile area must be kept free of erosion. If the vertical height of a stockpile exceeds 20 feet for 2:1 slopes, 30 feet for 3:1 slopes, or 40 feet for 4:1 slopes, benching must be provided in accordance with Section B-3 Land Grading.

A MARYLAND REGISTERED PROFESSIONAL ENGINEER OR ARCHITECT SEAL AND SIGNATURE ON PLANS WILL BE ACCEPTED AS PRIMA FACIE EVIDENCE THAT PLANS ARE IN COMPLIANCE WITH APPLICABLE CODES AND REGULATIONS.

DETAIL E-1 SILT FENCE

STANDARD SYMBOL
SF



1 OF 2

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

Joint Hearing - MCC & PC
SDP-7362-2016
Exhibit #7

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1	10/11/16	PAP	PLANS REVISED PER COMMENTS RECEIVED 09/23/16.

STATE OF MARYLAND ★ EDUARDO J. INTRIAGO ★ No. 46513 PROFESSIONAL ENGINEER

09/16/16
EDUARDO J. INTRIAGO
MARYLAND PROFESSIONAL ENGINEER - LICENSE NUMBER: 46513

SCHEMATIC DEVELOPMENT PLAN

FOR

S & T KENTLANDS, LLC

BLOCK "Q"
PARCEL 1 DEED BOOK 24204 AT PAGE 59
PARCEL J
DEED BOOK 27103 AT PAGE 189

CITY OF GAITHERSBURG MARYLAND

STERLING OFFICE
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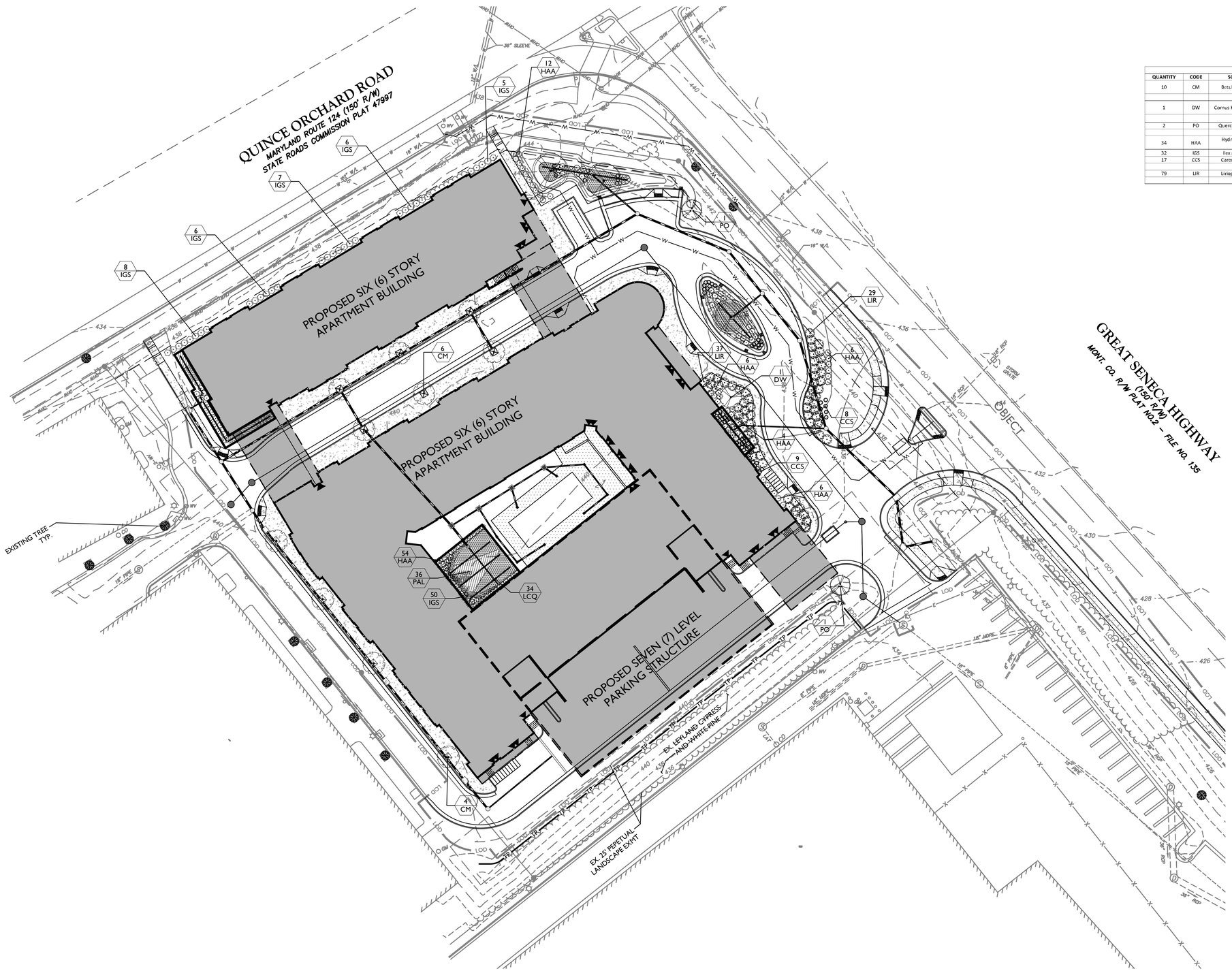
Suite 110
Sterling, VA 20166
Phone: 703.430.4330
Fax: 703.430.4339

SCALE:	DATE: 11/16/15	DRAWN BY: CME	CHECKED BY: EI
PROJECT NUMBER: 15000252A	DRAWING NAME: C-CVER		

SHEET TITLE: NOTES & DETAILS

SHEET NUMBER: C10



NOTES:

1. SEE SHEET C9 FOR PLANTER BOX PLANTING DETAIL.
2. SEE SHEET C8 FOR BIORETENTION PLANTING DETAIL.

SITE LANDSCAPE TABLE

QUANTITY	CODE	SCIENTIFIC NAME	COMMON NAME	SIZE	B & B/CONT.	REMARKS
10	CM	Betula "Crimson Forest"	Crape Myrtle	2 – 2 ½" Cal	B & B	Multi Stem (3 Min.)
1	DW	Cornus Kousa/Kousa Dogwood	Dogwood	2" Cal	B & B	Single Trunk
2	PO	Quercus Palustrus/Pin Oak	Pin Oak	3 ½" Cal	B & B	
34	HAA	Hydrangea Arborescens "Annabelle"	Smooth Hydrangea	24 – 30" HT.	3 gal	Full
32	IGS	Ilex glabra "Shamrock"	Inkberry	24-30" HT.	3 gal	Full
17	CCS	Carex conica "Snowline"	Sedge		#1 Cont	24" O.C.
79	LIR	Liriope Muscari/Lily Turf	Liriope		1 GAL	12" O.C.

LEGEND

- PAL - PENNISETUM ALOPECUROIDES "LITTLE BUNNY"
- PPD - PHLOX PANICULATA "GRENADINE DREAM"
- PROPOSED CONCRETE
- ▲ PROPOSED DOOR LOCATION

N
W E
S
NAD 27 STATE PLANE
NAD83

30 24 18 12 6 0 15 30 60
SCALE : 1" = 30'

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Joint Hearing - MCC & PC
SDP-7362-2016
Exhibit #8

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1	10/11/16	PAP	PLANS REVISED PER COMMENTS RECEIVED 10/2/16.

STATE OF MARYLAND
JONATHAN M. JOLLEY
NO. 3497
LANDSCAPE ARCHITECT
10/11/16
JONATHAN JOLLEY
MARYLAND LICENSED
LANDSCAPE ARCHITECT - LICENSE NUMBER: 3497

SCHEMATIC DEVELOPMENT PLAN
FOR
S & T KENTLANDS, LLC
BLOCK "Q"
PARCEL 1 DEED BOOK 24204 AT PAGE 59
PARCEL J DEED BOOK 27103 AT PAGE 189
CITY OF GAITHERSBURG MARYLAND

STERLING OFFICE
22375 Broderick Drive
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Sterling, VA 20166
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Fax: 703.430.4339

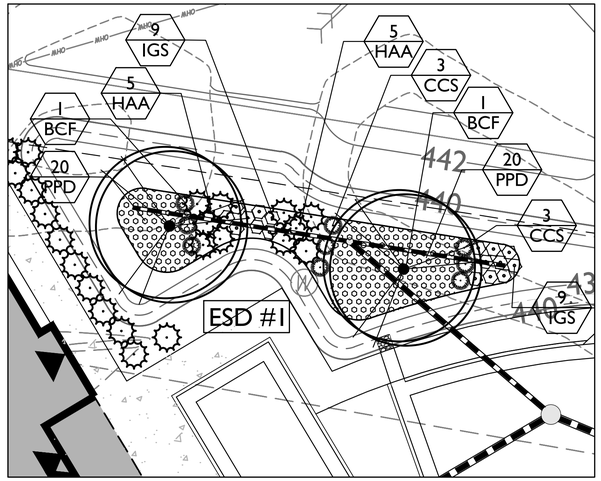
SCALE:	DATE:	DRAWN BY:	CHECKED BY:
	11/16/15	CME	EI

PROJECT NUMBER:	DRAWING NAME:
15000252A	C-LAND

SHEET TITLE: LANDSCAPE PLAN

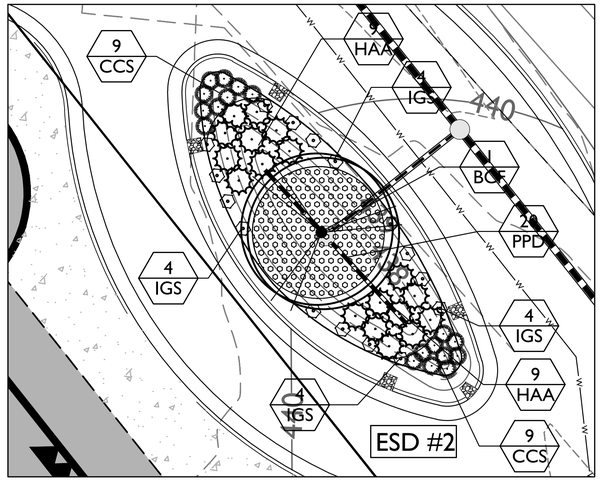
SHEET NUMBER: C7

15000252A\Engineering\Drawings\Engineering\Site Plan\C-LAND.dwg\C7-LANDSCAPE (2) By: PRYCOR



ESD #1 (MICRO BIO-RETENTION #1)

MICRO-BIORETENTION #1 LANDSCAPE PLANT LIST							
TYPE	QUANTITY	CODE	SCIENTIFIC NAME	COMMON NAME	SIZE	B & B/CONT.	REMARKS
Deciduous Trees	2	BCF	Betula "Crimson Forest"	Birch	2 – 2 ½" Cal	B & B	Multi Stem (3 Min.)
Evergreen Shrubs	17	IGS	Ilex glabra "Shamrock"	Inkberry	24 – 30" HT.	3 gal	Full
Deciduous Shrubs	10	HAA	Hydrangea Arborescens "Anhnabelle"	Smooth Hydrangea	24 – 30" HT.	3 gal	Full
Grasses	9	CCS	Carex conica "Snowline"	Sedge		#1 Cont	24" O.C.
Groundcover	40	PPD	Phlox paniculata "Grenadine Dream"	Garden Phlox		#1 Cont	18" O.C.

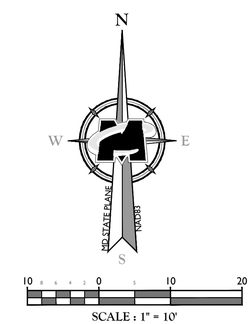


ESD #2 (MICRO BIO-RETENTION #2)

MICRO-BIORETENTION #2 LANDSCAPE PLANT LIST							
TYPE	QUANTITY	CODE	SCIENTIFIC NAME	COMMON NAME	SIZE	B & B/CONT.	REMARKS
Deciduous Trees	1	BCF	Betula "Crimson Forest"	Birch	2 – 2 ½" Cal	B & B	Multi Stem (3 Min.)
Evergreen Shrubs	16	IGS	Ilex glabra "Shamrock"	Inkberry	24 – 30" HT.	3 gal	Full
Deciduous Shrubs	32	HAA	Hydrangea Arborescens "Anhnabelle"	Smooth Hydrangea	24 – 30" HT.	3 gal	Full
Grasses	18	CCS	Carex conica "Snowline"	Sedge		#1 Cont	24" O.C.
Groundcover	20	PPD	Phlox paniculata "Grenadine Dream"	Garden Phlox		#1 Cont	18" O.C.

LEGEND

PPD - PHLOX PANICULATA "GRENADINE DREAM"



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STATE OF MARYLAND JONATHAN M. JOLLEY NO. 3497 LANDSCAPE ARCHITECT

10/11/16

JONATHAN JOLLEY
MARYLAND LICENSED
LANDSCAPE ARCHITECT - LICENSE NUMBER: 3497

SCHEMATIC DEVELOPMENT PLAN

FOR

S & T KENTLANDS, LLC

BLOCK "Q"
PARCEL 1 DEED BOOK 24204 AT PAGE 59
PARCEL J DEED BOOK 27103 AT PAGE 189

CITY OF GAITHERSBURG MARYLAND

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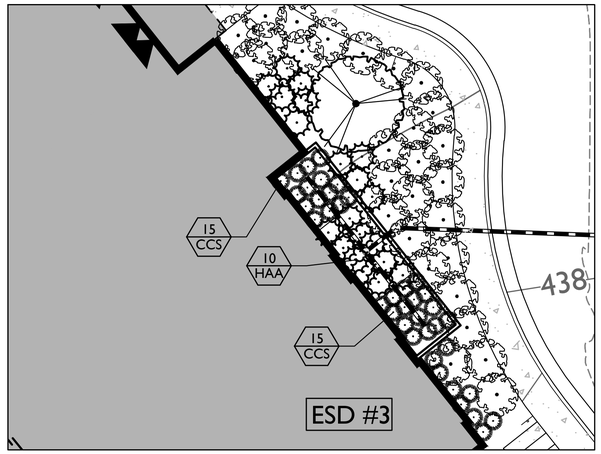
SCALE:	DATE:	DRAWN BY:	CHECKED BY:
	11/16/15	CME	EI
PROJECT NUMBER: 15000252A	DRAWING NAME: C-LAND		

SHEET TITLE: LANDSCAPE PLAN

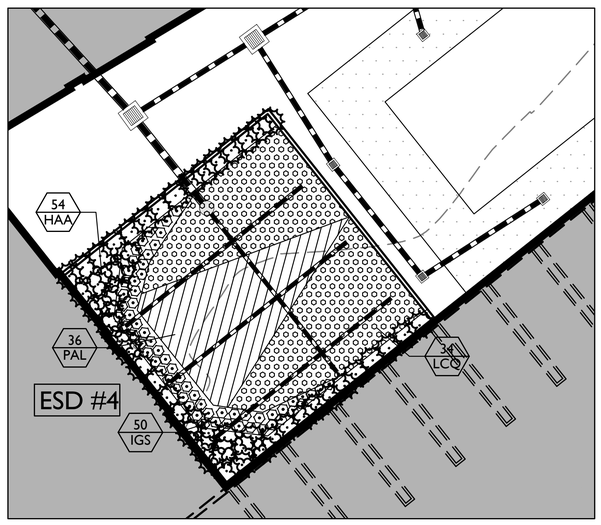
SHEET NUMBER: C8

15000252A\Engineering Drawings\Engineering\Site Plan\C-LAND.dwg\C8-LANDSCAPE (MICRO BIO 2) By: PRYYOR



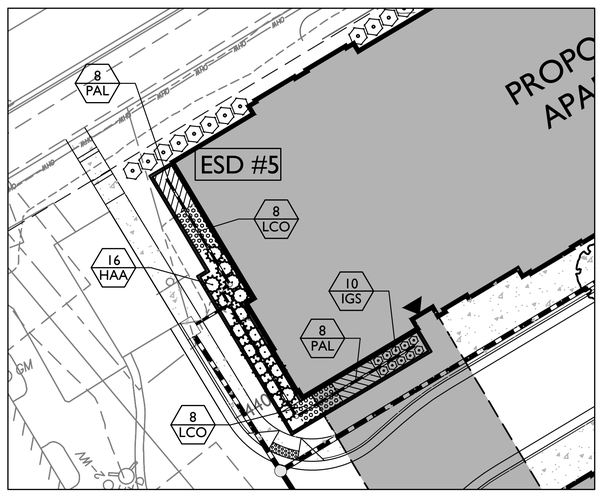
ESD #3 (PLANTER BOX #1)

PLANTER BOX #1 LANDSCAPE PLANT LIST							
TYPE	QUANTITY	CODE	SCIENTIFIC NAME	COMMON NAME	SIZE	B & B/CONT.	REMARKS
Deciduous Shrubs	10	HAA	Hydrangea Arborescens "Anhnabelle"	Smooth Hydrangea	24 – 30" HT.	3 gal	Full
Grasses	30	CCS	Carex conica "Snowline"	Sedge		#1 Cont	24" O.C.



ESD #4 (PLANTER BOX #2)

PLANTER BOX #2 LANDSCAPE PLANT LIST							
TYPE	QUANTITY	CODE	SCIENTIFIC NAME	COMMON NAME	SIZE	B & B/CONT.	REMARKS
Evergreen Shrubs	50	IGS	Ilex glabra "Shamrock"	Inkberry	24 – 30" HT.	3 gal	Full
Deciduous Shrubs	54	HAA	Hydrangea Arborescens "Anhnabelle"	Smooth Hydrangea	24 – 30" HT.	3 gal	Full
Grasses	36	PAL	Pennisetum alopecuroides "Little Bunny"	Fountain Grass		#1 Cont	24" O.C.
Groundcover	34	LCO	Lobeliacardinalis "Queen Victoria"	Cardinal Flower		#1 Cont	30" O.C.



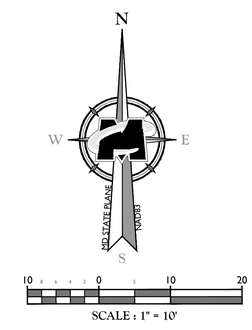
ESD #5 (PLANTER BOX #3)

PLANTER BOX #3 LANDSCAPE PLANT LIST							
TYPE	QUANTITY	CODE	SCIENTIFIC NAME	COMMON NAME	SIZE	B & B/CONT.	REMARKS
Evergreen Shrubs	10	IGS	Ilex glabra "Shamrock"	Inkberry	24 – 30" HT.	3 gal	Full
Deciduous Shrubs	16	HAA	Hydrangea Arborescens "Anhnabelle"	Smooth Hydrangea	24 – 30" HT.	3 gal	Full
Grasses	16	PAL	Pennisetum alopecuroides "Little Bunny"	Fountain Grass		#1 Cont	24" O.C.
Groundcover	16	LCO	Lobeliacardinalis "Queen Victoria"	Cardinal Flower		#1 Cont	30" O.C.

LEGEND

PAL - PENNISETUM ALOPECUROIDES "LITTLE BUNNY"

PPD - PHLOX PANICULATA "GRENADINE DREAM"



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STATE OF MARYLAND JONATHAN M. JOLLEY NO. 3497 LANDSCAPE ARCHITECT

10/11/16

JONATHAN JOLLEY
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LANDSCAPE ARCHITECT - LICENSE NUMBER: 3497

SCHEMATIC DEVELOPMENT PLAN

FOR

S & T KENTLANDS, LLC

BLOCK "Q"
PARCEL 1 DEED BOOK 24204 AT PAGE 59
PARCEL J DEED BOOK 27103 AT PAGE 189

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PROJECT NUMBER: I50000252A	DRAWING NAME: C-LAND		

SHEET TITLE: LANDSCAPE PLAN

SHEET NUMBER: C9

I:\50000252A\Engineering\Drawings\Engineering\Site Plan\C-LAND.dwg\C9-LANDSCAPE PLANTER AREAS (2) By: PRYOR

WB-50

	feet		
Tractor Width	: 8.00	Lock to Lock Time	: 6.0
Trailer Width	: 8.50	Steering Angle	: 17.7
Tractor Track	: 8.00	Articulating Angle	: 70.0
Trailer Track	: 8.50		

50 40 30 20 10 0 25 50 100

SCALE : 1" = 50'

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SDP-7362-2016
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STATE OF MARYLAND
EDUARDO J. INTRIAGO
No. 46513
PROFESSIONAL ENGINEER

10/11/16

EDUARDO J. INTRIAGO
MARYLAND PROFESSIONAL
ENGINEER - LICENSE NUMBER: 46513

SCHEMATIC
DEVELOPMENT PLAN

FOR

S & T
KENTLANDS, LLC

BLOCK "Q"
PARCEL 1 DEED BOOK
24204 AT PAGE 59
PARCEL J
DEED BOOK 27103
AT PAGE 189

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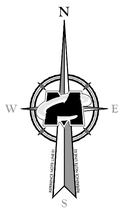
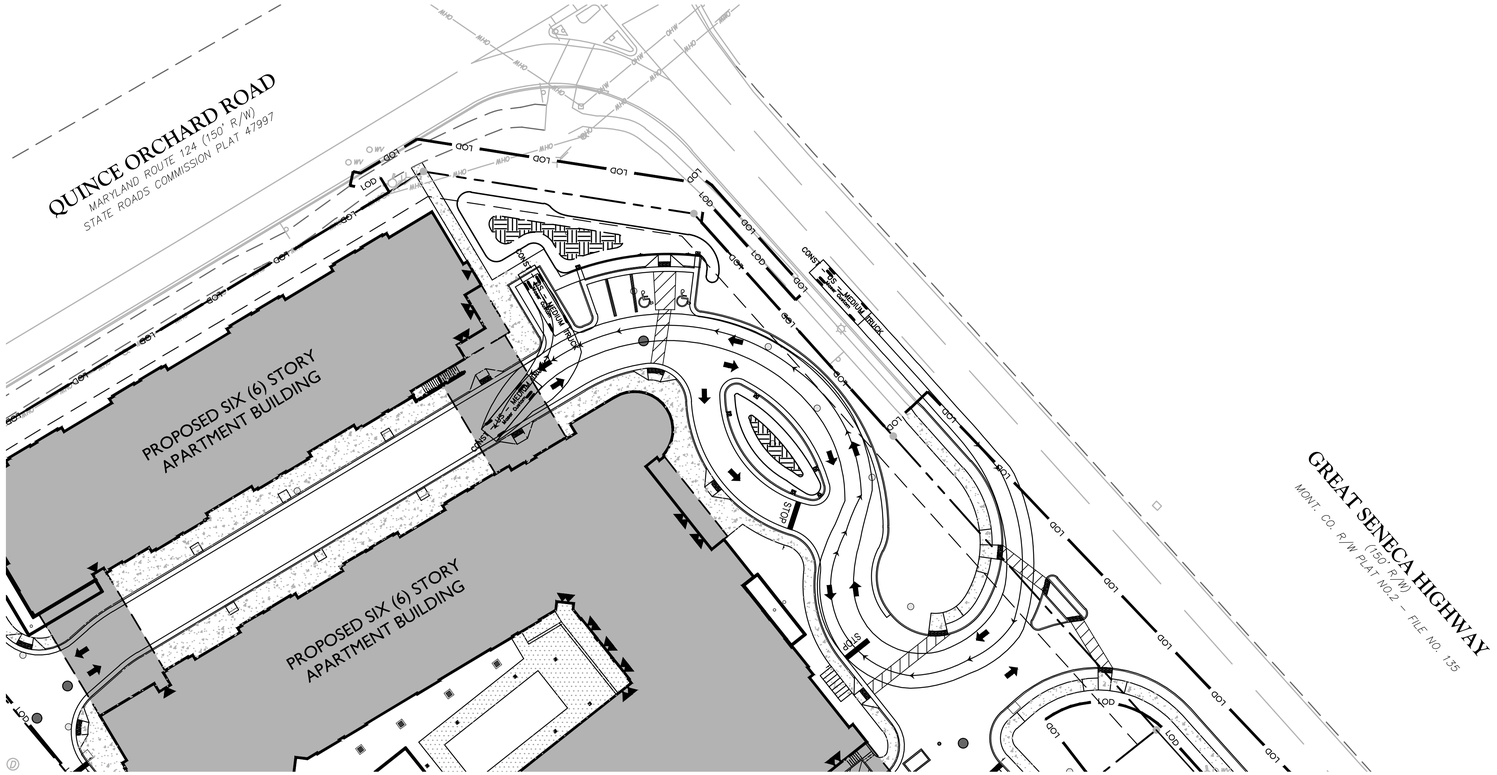
	11/16/15	CME	EI
PROJECT NUMBER: 15000252A	DRAWING NAME: C-DEMO		

SHEET TITLE:
CONSTRUCTION ENTRANCE TRUCK TURN

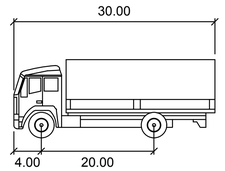
SHEET NUMBER:
C10

15000252A\Engineering\Drawings\Engineering\Site Plan\C-DEMO.dwg\C10-Truck Turn (2) By: PRYOR



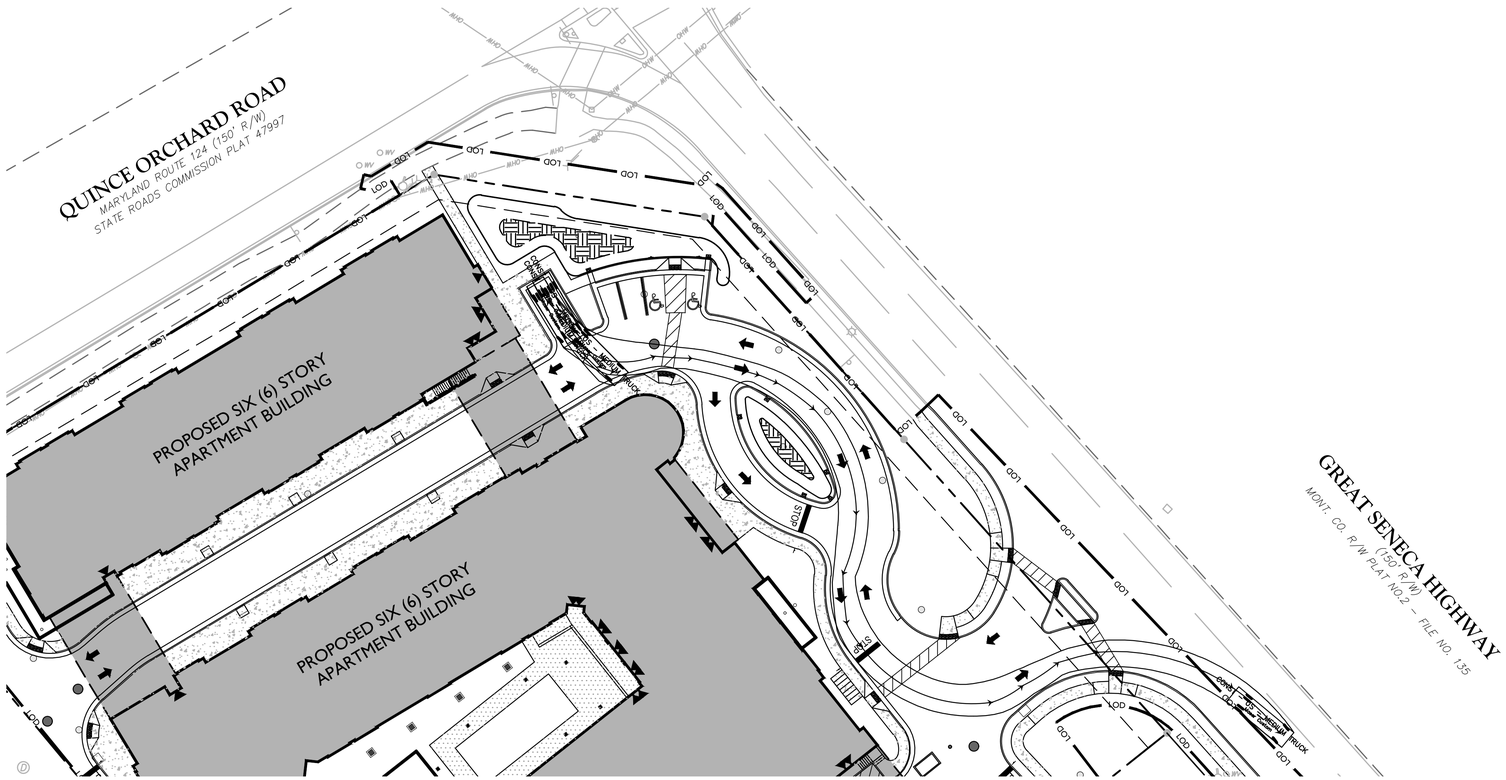


TRUCK MOVEMENT - IN



CONST - US - MEDIUM TRUCK
feet

Width	:	8.00
Track	:	8.00
Lock to Lock Time	:	6.0
Steering Angle	:	31.8



TRUCK MOVEMENT - OUT

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Joint Hearing - MCC & PC
SDP-7362-2016
Exhibit #10

30 24 18 12 6 0 15 30 60
SCALE : 1" = 30'

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PROFESSIONAL ENGINEER
10/11/16

EDUARDO J. INTRIAGO
MARYLAND PROFESSIONAL ENGINEER - LICENSE NUMBER: 46513

SCHEMATIC DEVELOPMENT PLAN
FOR
S & T KENTLANDS, LLC

BLOCK "Q"
PARCEL 1 DEED BOOK 24204 AT PAGE 59
PARCEL J DEED BOOK 27103 AT PAGE 189

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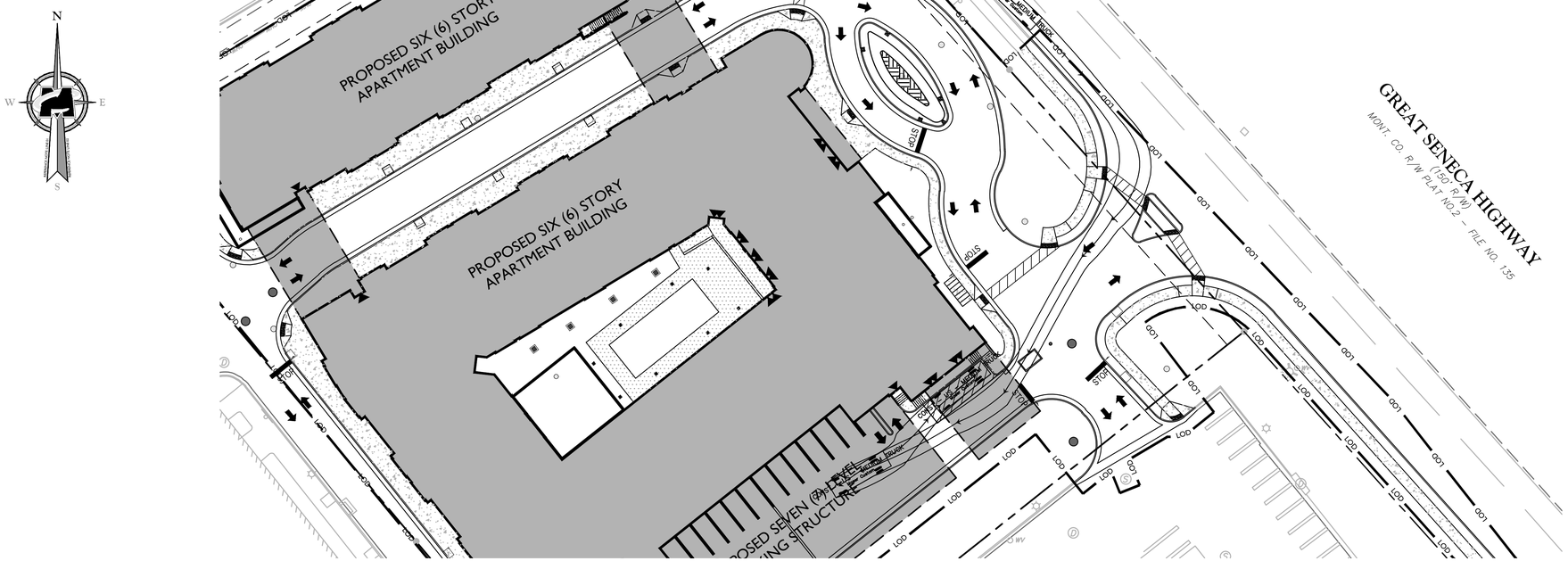
	11/16/15	CME	EI
PROJECT NUMBER: I5000252A	DRAWING NAME: C-LAYT		

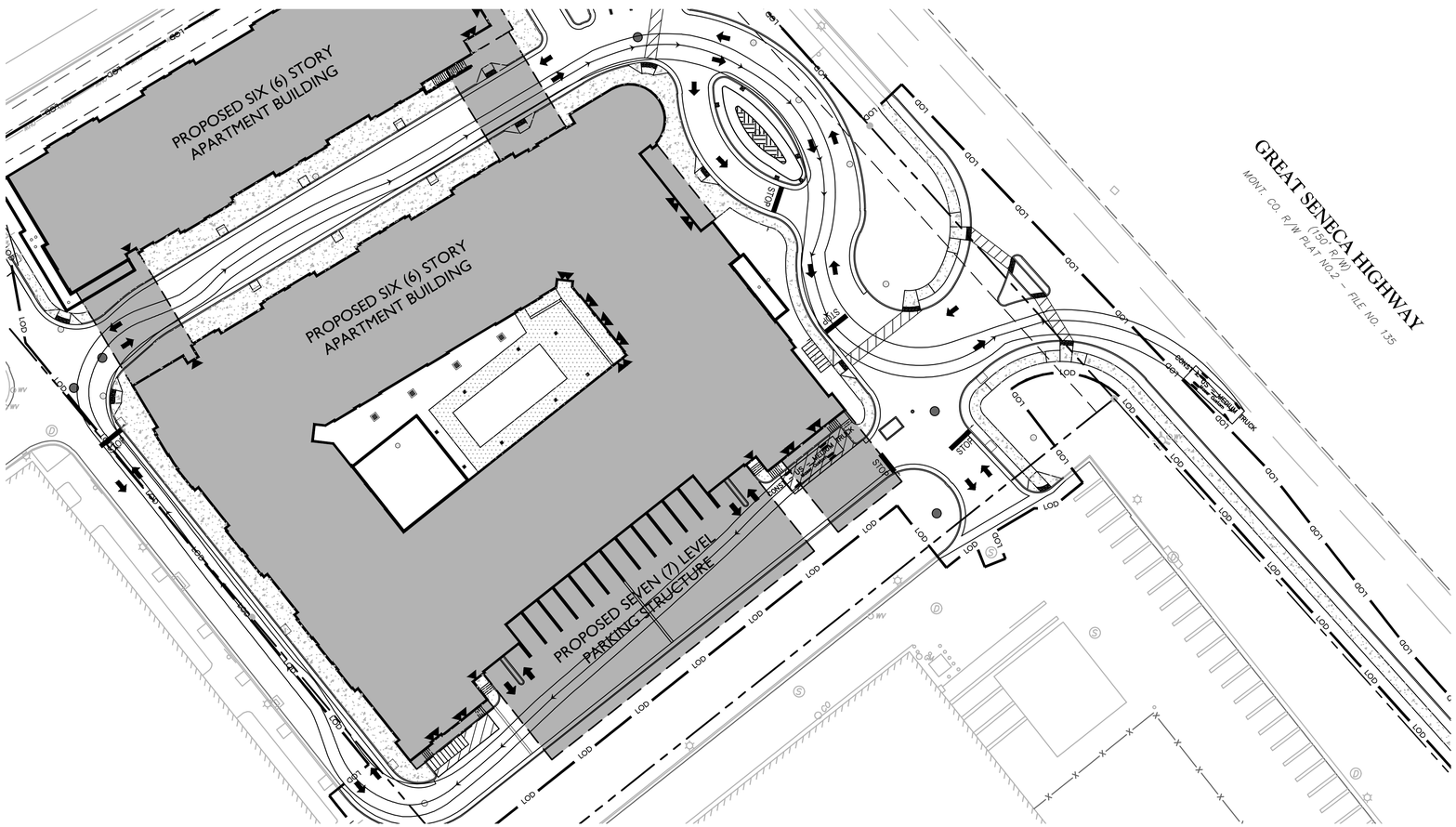
SHEET TITLE:
DELIVERY TRUCK TURN

SHEET NUMBER:
C11

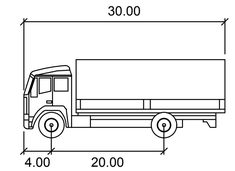
I5000252A\Engineering Drawings\Engineering\Site Plans\C-LAYT.dwg\C11-Truck Turn (2) By: PRYOR



TRUCK MOVEMENT - IN



TRUCK MOVEMENT - OUT



CONST - US - MEDIUM TRUCK
feet

Width	:	8.00
Track	:	8.00
Lock to Lock Time	:	6.0
Steering Angle	:	31.8

A MARYLAND REGISTERED PROFESSIONAL ENGINEER OR ARCHITECT SEAL AND SIGNATURE ON PLANS WILL BE ACCEPTED AS PRIMA FACIE EVIDENCE THAT PLANS ARE IN COMPLIANCE WITH APPLICABLE CODES AND REGULATIONS.

30 24 18 12 6 0 15 30 60

SCALE : 1" = 30'

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REV	DATE	DRAWN BY	DESCRIPTION
1	10/11/16	PAP	PLANS REVISED PER COMMENTS RECEIVED 10/2/16.

STATE OF MARYLAND
EDUARDO J. INTRIAGO
No. 46513
PROFESSIONAL ENGINEER

10/11/16

EDUARDO J. INTRIAGO
MARYLAND PROFESSIONAL
ENGINEER - LICENSE NUMBER: 46513

SCHEMATIC
DEVELOPMENT PLAN

FOR

S & T
KENTLANDS, LLC

BLOCK "Q"
PARCEL 1 DEED BOOK
24204 AT PAGE 59
PARCEL J
DEED BOOK 27103
AT PAGE 189

CITY OF GAITHERSBURG
MARYLAND

STERLING OFFICE
22375 Broderick Drive
Suite 110
Sterling, VA 20166
Phone: 703.430.4330
Fax: 703.430.4339

SCALE:	DATE:	DRAWN BY:	CHECKED BY:
	11/16/15	CME	EI

PROJECT NUMBER:	DRAWING NAME:
15000252A	C-LAYT

SHEET TITLE:

DELIVERY TRUCK TURN

SHEET NUMBER:

C12

15000252A\Engineering\Drawings\Engineering\Site Plan\C-LAYT.dwg\C12-Truck Turn By: PRYCER