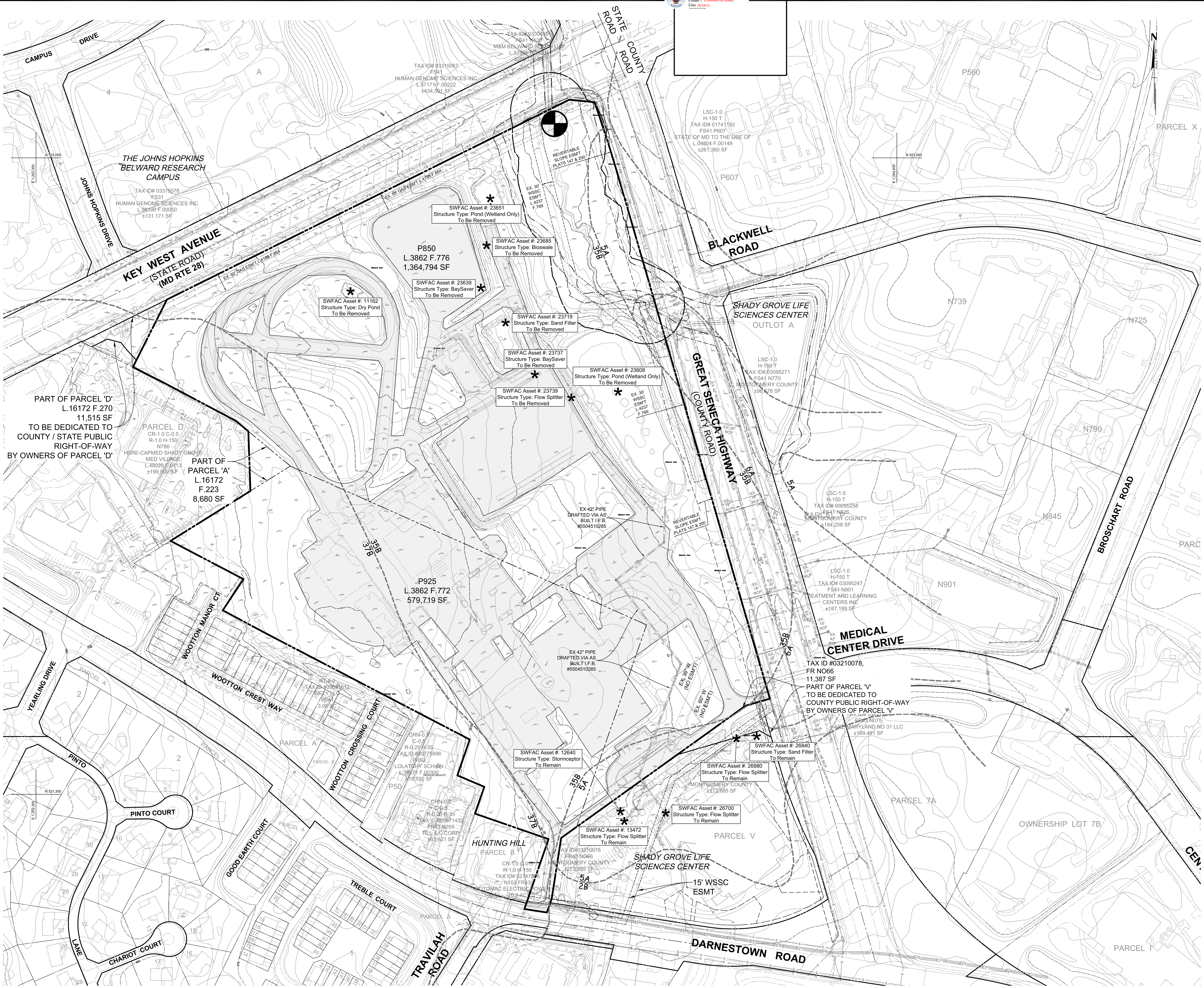
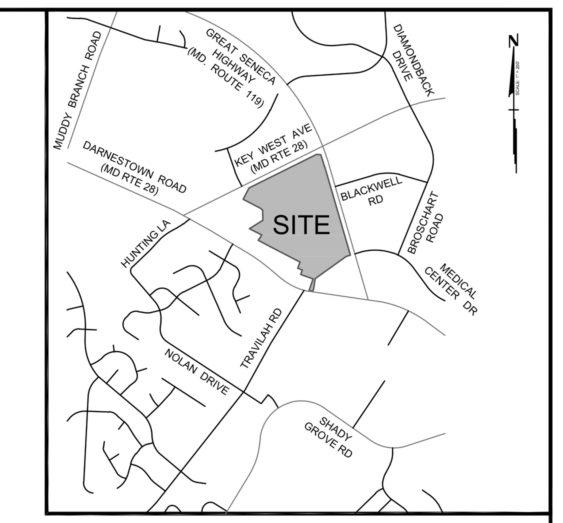




VICINITY MAP
1" = 2,000'

PRELIMINARY NOT FOR CONSTRUCTION

LEGEND

- SITE LIMITS
- EXISTING STORM DRAIN
- EXISTING CONTOURS
- STREAMS, PONDS
- 100 YR FLOODPLAIN (PERMIT #FLDSTUDY-286994)
- 25' FLOODPLAIN SETBACK
- STREAM VALLEY BUFFER (SVB)
- 6A HYDROLOGIC SOIL GROUP
- STUDY POINT
- EXISTING IMPERVIOUS AREA

GRAPHIC SCALE

1 INCH = 100 FT

PROFESSIONAL CERTIFICATION

"I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 50010, Expiration Date: 7/09/22."

STATE OF MARYLAND PROFESSIONAL ENGINEER 50010 6/22/21

REVISION	DATE	REVISION	DATE	REVISION	DATE

APPLICANT:
THE ELMS AT PSTA, LLC
ATTN: KATHRYN KUBIT
1355 BEVERLY ROAD, SUITE 240
McLEAN, VA 22101
PHONE: (703) 734-9730
EMAIL: KKUBIT@ELMSTREETDEV.COM

OWNER:
MONTGOMERY COUNTY
EOB 101 MONROE STREET
ROCKVILLE, MD 20850
ATTN: RONNIE WARNER
PHONE: (240) 777-2550
EMAIL: RONNIE.WARNER@MONTGOMERYCOUNTYMD.GOV

PSTA SITE

9710 GREAT SENECA HWY, ROCKVILLE, MD 20850
PARCEL 850 L.3862 F.776; PARCEL 925 L. 3862 F. 772; PART OF PARCEL 'A' L.3862 F. 772;
PART OF PARCEL 'D' L.16172 F.223; PART OF PARCEL 'V' L.16172 F.270 TAX ID #03210078
ELECTION DISTRICT No. 9
MONTGOMERY COUNTY, MARYLAND

RODGERS CONSULTING
19847 Century Boulevard, Suite 200, Germantown, Maryland 20874
Ph: 301.948.4700 Fx: 301.948.6256 www.rodgers.com

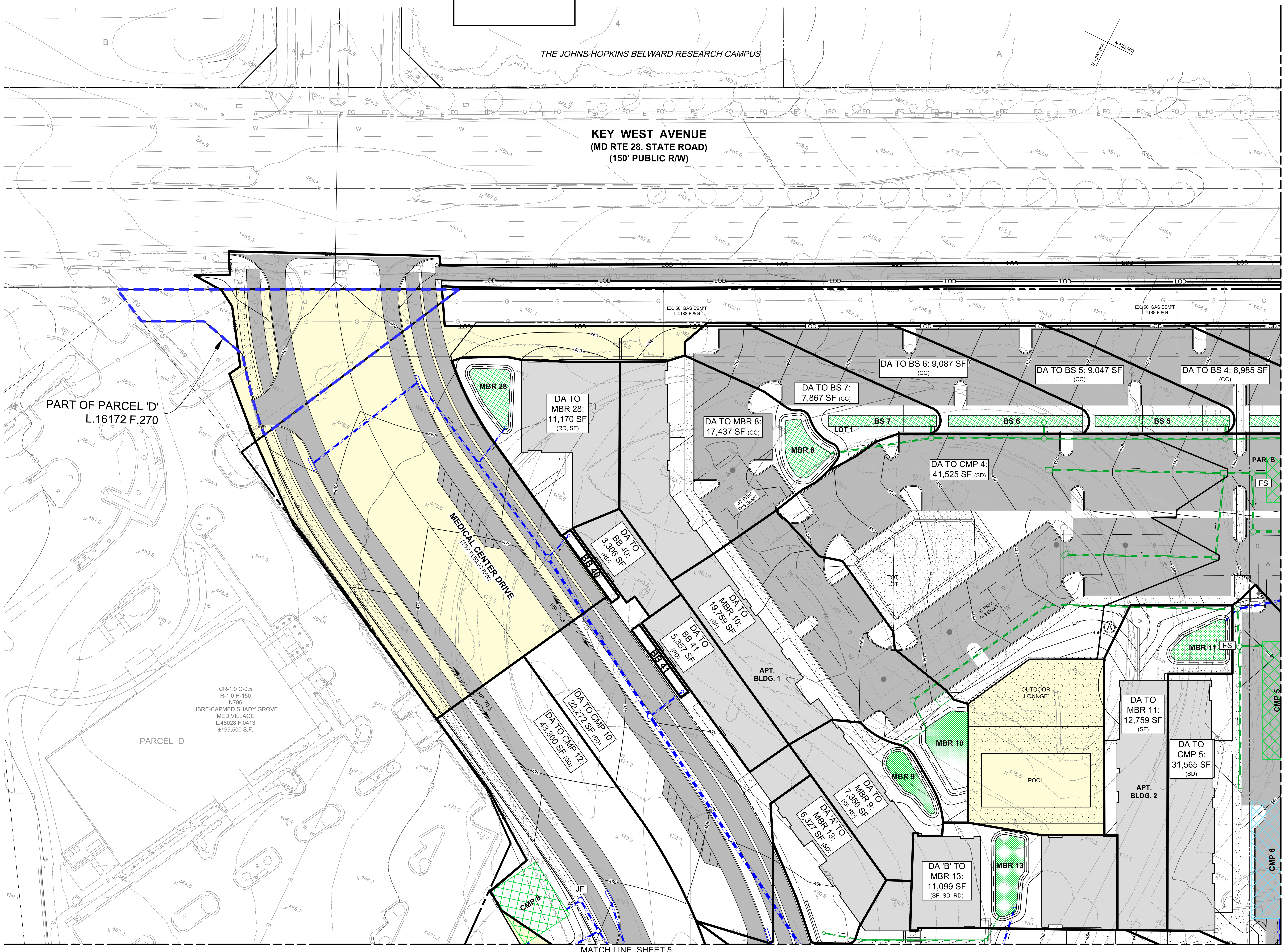
	BY	DATE
BASE DATA		
DESIGNED		
DRAWN		
REVIEWED		
RODGERS CONTACT:		

RELEASE FOR
BY ____ DATE ____

EXISTING CONDITIONS BASE MAP

SCALE: 1" = 100'
JOB No. 0643T
DATE: JUNE, 2021
SHEET No. 2A OF 9

PRELIMINARY NOT FOR CONSTRUCTION



LEGEND

- SWM STRUCTURE (PUBLIC TREATMENT)
- SWM STRUCTURE (PRIVATE TREATMENT)
- ESD FACILITY (PUBLIC TREATMENT)
- ESD FACILITY (PRIVATE TREATMENT)
- (CC, SD, SF, RD) — METHOD WATER ENTERS ESD FACILTY: CURB CUTS, STORM DRAIN PIPES, SHEET FLOW, ROOF DRAIN
- UNTREATED DRAINAGE AREAS
- ASPHALT PAVING
- CONCRETE PAVING
- BUILDINGS
- SITE LIMITS
- DRAINAGE AREA
- PROPOSED PUBLIC STORM DRAIN
- PROPOSED PRIVATE STORM DRAIN
- FS JF — FLOW SPLITTER STRUCTURE, JELLYFISH (OR EQUIVALENT) TREATMENT STRUCTURE
- EXISTING STORM DRAIN
- S — PROPOSED SEWER
- W — PROPOSED WATER MAIN
- S — EXISTING SEWER MAIN
- W — EXISTING WATER MAIN
- G — EXISTING GAS MAIN
- FO — EXISTING FIBER OPTIC LINE
- E — EXISTING ELECTRIC LINE
- 300 298 — EXISTING CONTOURS
- 298 300 — PROPOSED CONTOURS
- PROPOSED RETAINING WALLS
- LOD — LIMIT OF DISTURBANCE
- STREAMS, PONDS
- WETLANDS
- WETLAND BUFFER
- STREAM VALLEY BUFFER (SVB)
- 100 YR FLOODPLAIN
- FLOODPLAIN SETBACK
- ADJACENT PROPERTY AREAS TO BE DEDICATED TO MEDICAL CENTER DRIVE'S PUBLIC RIGHT-OF-WAY

GRAPHIC SCALE

1 INCH = 30 FT

SHEET KEY

1" = 2,000'

NOTE: FINAL LOT SIZES AND DIMENSIONS TO BE DETERMINED AT SITE PLAN.

NOTE: ARCHITECTURAL FOOTPRINTS ARE SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. FINAL ARCHITECTURES AND BUILDING HEIGHT SHALL BE DETERMINED AT BUILDING PERMIT.

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STATE OF MARYLAND THOMAS N. ... PROFESSIONAL ENGINEER 50010 6/8/21

REVISION	DATE	REVISION	DATE	REVISION	DATE

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	BY	DATE
BASE DATA		
DESIGNED		
DRAWN		
REVIEWED		

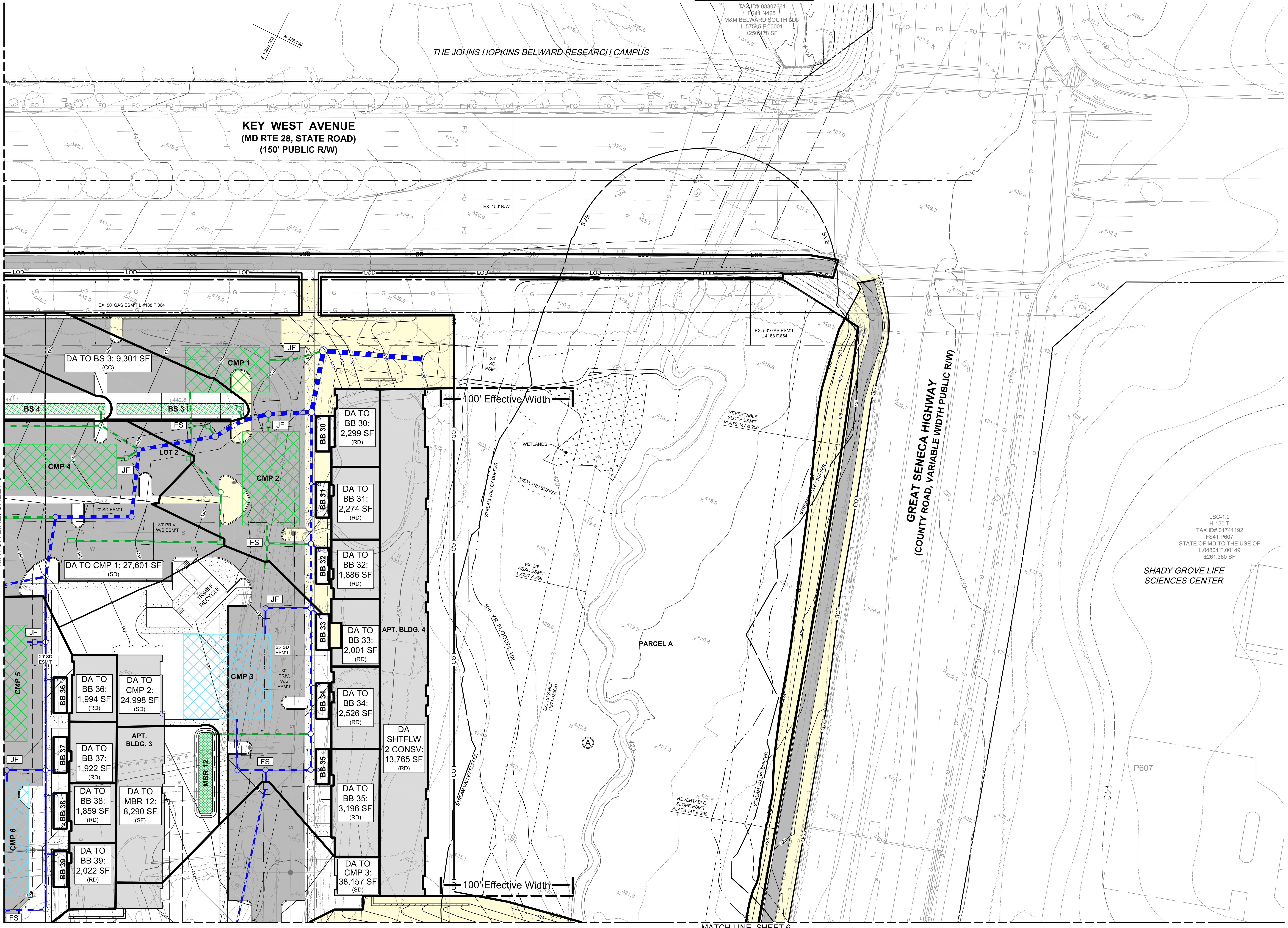
RODGERS CONTACT:

RELEASE FOR ______ BY______ DATE ____

STORMWATER MANAGEMENT CONCEPT PLAN

SCALE: 1" = 30'
JOB No. 0643T
DATE: JUNE, 2021
SHEET No. 3 OF 9

PRELIMINARY NOT FOR CONSTRUCTION



LEGEND

	SWM STRUCTURE (PUBLIC TREATMENT)
	SWM STRUCTURE (PRIVATE TREATMENT)
	ESD FACILITY (PUBLIC TREATMENT)
	ESD FACILITY (PRIVATE TREATMENT)
(CC, SD, SF, RD)	METHOD WATER ENTERS ESD FACILTY: CURB CUTS, STORM DRAIN PIPES, SHEET FLOW, ROOF DRAIN
	UNTREATED DRAINAGE AREAS
	ASPHALT PAVING
	CONCRETE PAVING
	BUILDINGS
	SITE LIMITS
	DRAINAGE AREA
	PROPOSED PUBLIC STORM DRAIN
	PROPOSED PRIVATE STORM DRAIN
FS JF	FLOW SPLITTER STRUCTURE, JELLYFISH (OR EQUIVALENT) TREATMENT STRUCTURE
	EXISTING STORM DRAIN
S	PROPOSED SEWER
W	PROPOSED WATER MAIN
S	EXISTING SEWER MAIN
W	EXISTING WATER MAIN
G	EXISTING GAS MAIN
FO	EXISTING FIBER OPTIC LINE
E	EXISTING ELECTRIC LINE
300 298	EXISTING CONTOURS
300 298	PROPOSED CONTOURS
	PROPOSED RETAINING WALLS
LOD	LIMIT OF DISTURBANCE
	STREAMS, PONDS
	WETLANDS
	WETLAND BUFFER
	STREAM VALLEY BUFFER (SVB)
	100 YR FLOODPLAIN
	FLOODPLAIN SETBACK
	ADJACENT PROPERTY AREAS TO BE DEDICATED TO MEDICAL CENTER DRIVE'S PUBLIC RIGHT-OF-WAY

SHEET KEY
1" = 2,000'

NOTE: FINAL LOT SIZES AND DIMENSIONS TO BE DETERMINED AT SITE PLAN.

NOTE: ARCHITECTURAL FOOTPRINTS ARE SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. FINAL ARCHITECTURES AND BUILDING HEIGHT SHALL BE DETERMINED AT BUILDING PERMIT.

NOTE: UTILITIES SHOWN ARE FOR INFORMATIONAL PURPOSES AND ARE SUBJECT TO CHANGE AT FINAL ENGINEERING.

GRAPHIC SCALE
30' 0 15' 30' 60' 120'
1 INCH = 30 FT

PROFESSIONAL CERTIFICATION

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STATE OF MARYLAND PROFESSIONAL ENGINEER 50010
6/8/21

REVISION	DATE	REVISION	DATE	REVISION	DATE

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	BY	DATE
BASE DATA		
DESIGNED		
DRAWN		
REVIEWED		

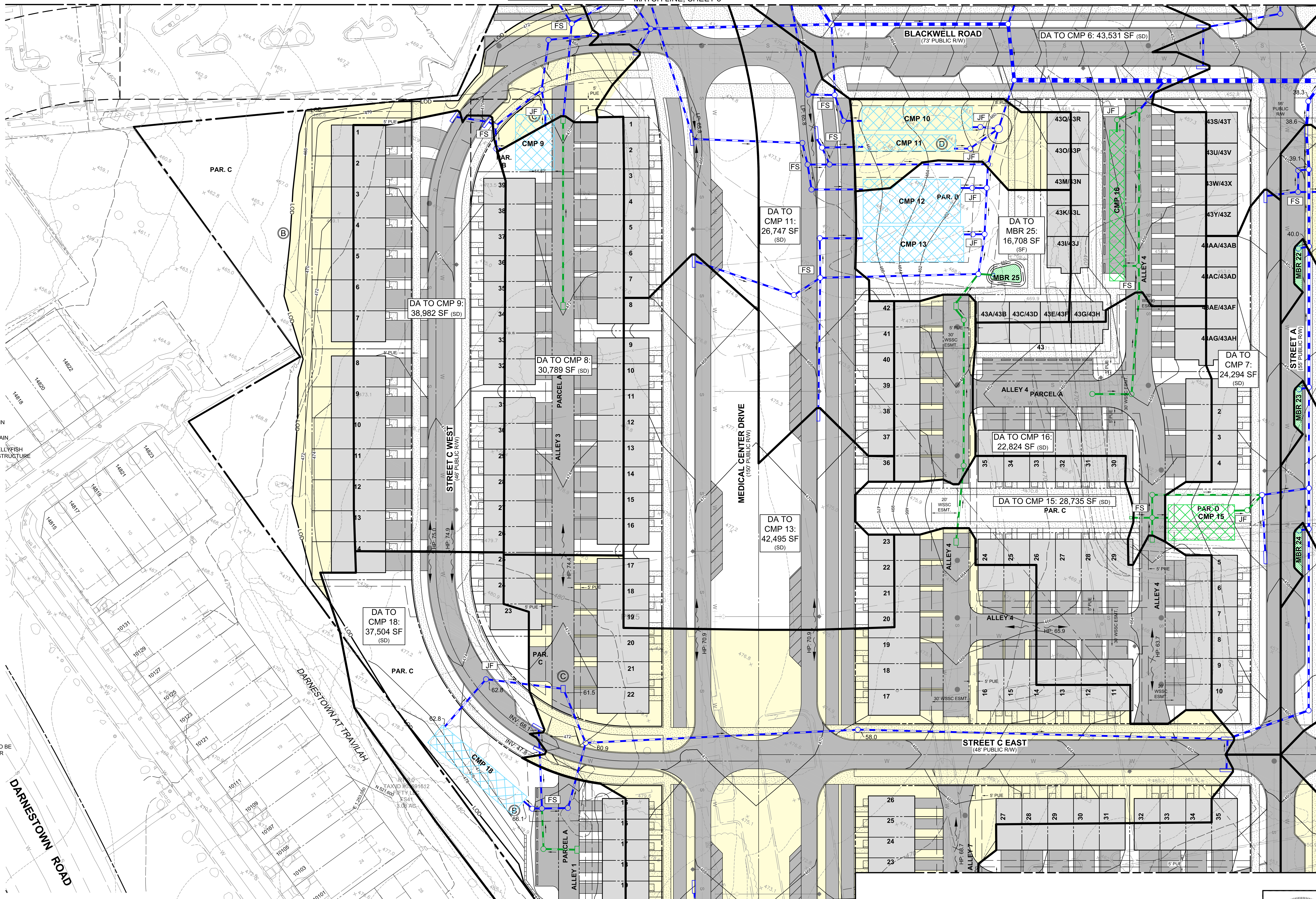
RODGERS CONTACT:
RELEASE FOR ______
BY______ DATE ____

STORMWATER MANAGEMENT CONCEPT PLAN

SCALE: 1" = 30'
JOB No. 0643T
DATE: JUNE, 2021
SHEET No. 4 OF 9

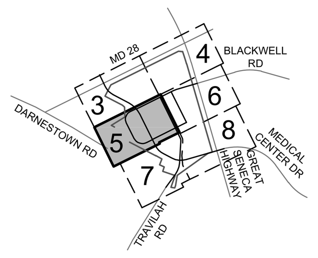
APPROVED
Department of Permitting Services
Permit # STORMWATER-285681
Date 06/24/21
Stamped By: Mark Etheridge

PRELIMINARY NOT FOR CONSTRUCTION



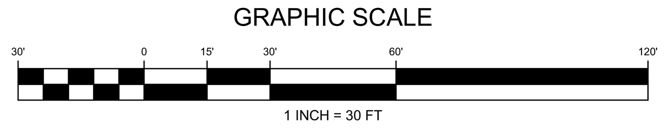
LEGEND

- SWM STRUCTURE (PUBLIC TREATMENT)
- SWM STRUCTURE (PRIVATE TREATMENT)
- ESD FACILITY (PUBLIC TREATMENT)
- ESD FACILITY (PRIVATE TREATMENT)
- (CC, SD, SF, RD) METHOD WATER ENTERS ESD FACILITY: CURB CUTS, STORM DRAIN PIPES, SHEET FLOW, ROOF DRAIN
- UNTREATED DRAINAGE AREAS
- ASPHALT PAVING
- CONCRETE PAVING
- BUILDINGS
- SITE LIMITS
- DRAINAGE AREA
- PROPOSED PUBLIC STORM DRAIN
- PROPOSED PRIVATE STORM DRAIN
- FS JF FLOW SPLITTER STRUCTURE, JELLYFISH (OR EQUIVALENT) TREATMENT STRUCTURE
- EXISTING STORM DRAIN
- S PROPOSED SEWER
- W PROPOSED WATER MAIN
- S EXISTING SEWER MAIN
- W EXISTING WATER MAIN
- G EXISTING GAS MAIN
- FO EXISTING FIBER OPTIC LINE
- E EXISTING ELECTRIC LINE
- 298 300 EXISTING CONTOURS
- 298 300 PROPOSED CONTOURS
- PROPOSED RETAINING WALLS
- LOD LIMIT OF DISTURBANCE
- STREAMS, PONDS
- WETLANDS
- WETLAND BUFFER
- STREAM VALLEY BUFFER (SVB)
- 100 YR FLOODPLAIN
- FLOODPLAIN SETBACK
- ADJACENT PROPERTY AREAS TO BE DEDICATED TO MEDICAL CENTER DRIVE'S PUBLIC RIGHT-OF-WAY



SHEET KEY
1" = 2,000'

GRAPHIC SCALE



1 INCH = 30 FT

NOTE: FINAL LOT SIZES AND DIMENSIONS TO BE DETERMINED AT SITE PLAN.

NOTE: ARCHITECTURAL FOOTPRINTS ARE SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. FINAL ARCHITECTURES AND BUILDING HEIGHT SHALL BE DETERMINED AT BUILDING PERMIT.

NOTE: UTILITIES SHOWN ARE FOR INFORMATIONAL PURPOSES AND ARE SUBJECT TO CHANGE AT FINAL ENGINEERING.

PROFESSIONAL CERTIFICATION

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STATE OF MARYLAND THOMAS ... PROFESSIONAL ENGINEER 50010 6/8/21

REVISION	DATE	REVISION	DATE	REVISION	DATE

APPLICANT:
THE ELMS AT PSTA, LLC
ATTN: KATHRYN KUBIT
1355 BEVERLY ROAD, SUITE 240
McLEAN, VA 22101
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EMAIL: KKUBIT@ELMSTREETDEV.COM

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PSTA SITE

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PART OF PARCEL 'D' L.16172 F.223; PART OF PARCEL 'V' L.16172 F.270 TAX ID #03210078
ELECTION DISTRICT No. 9
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Ph: 301.948.4700 Fx: 301.948.6256 www.rodgers.com

	BY	DATE
BASE DATA		
DESIGNED		
DRAWN		
REVIEWED		
RODGERS CONTACT:		

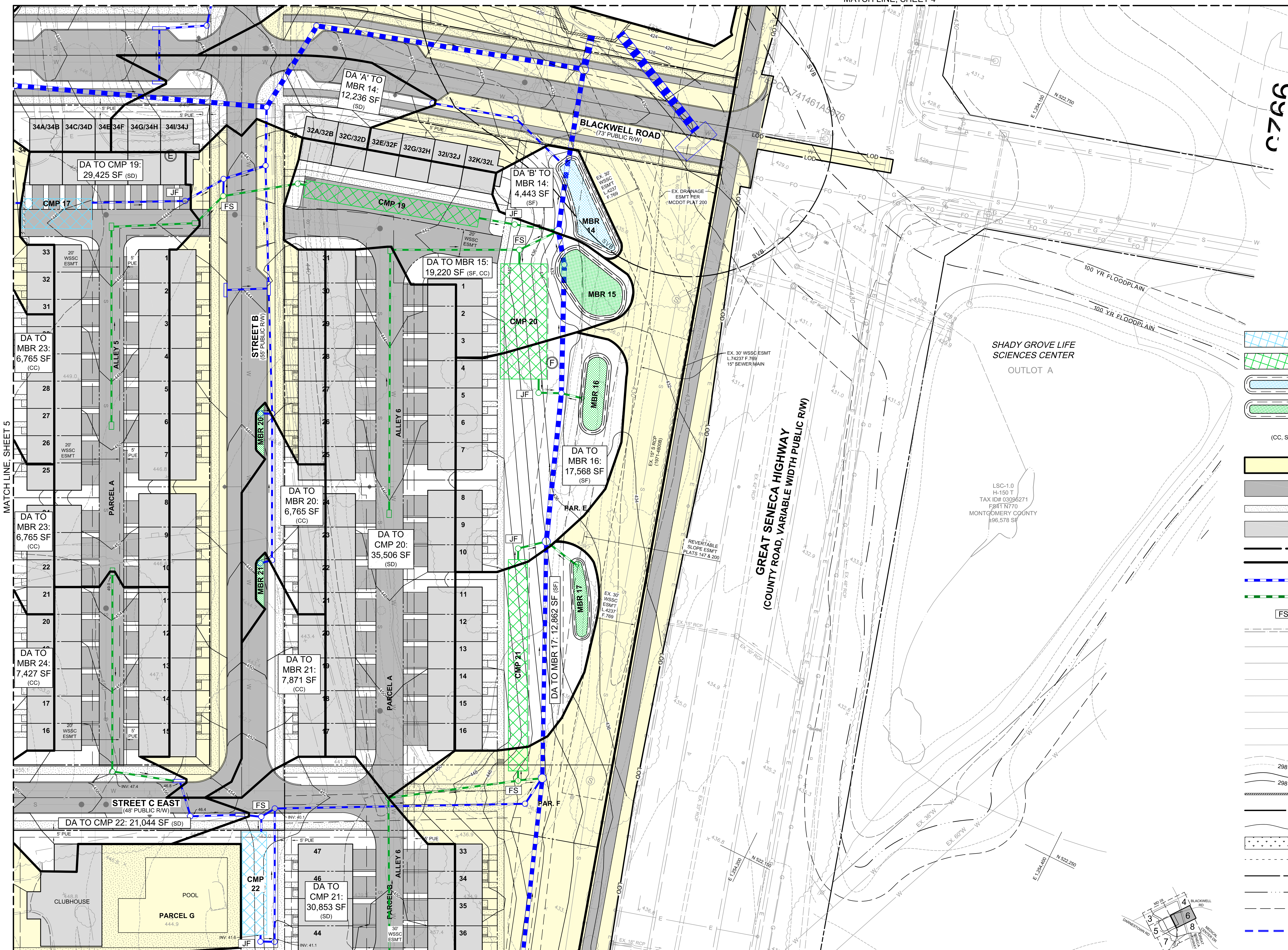
RELEASE FOR
BY____ DATE ____

STORMWATER MANAGEMENT CONCEPT PLAN

SCALE: 1" = 30'
JOB No. 0643T
DATE: JUNE, 2021
SHEET No. 5 OF 9

N:\MD-Montgomery\PSTA\autocad\Plot Plans\SWM Concept (#285681)\SWM Concept - Plan Views.dwg 05 Jun 08, 2021, 1:45pm

PRELIMINARY NOT FOR CONSTRUCTION



LEGEND

	SWM STRUCTURE (PUBLIC TREATMENT)
	SWM STRUCTURE (PRIVATE TREATMENT)
	ESD FACILITY (PUBLIC TREATMENT)
	ESD FACILITY (PRIVATE TREATMENT)
(CC, SD, SF, RD)	METHOD WATER ENTERS ESD FACILITY: CURB CUTS, STORM DRAIN PIPES, SHEET FLOW, ROOF DRAIN
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	ASPHALT PAVING
	CONCRETE PAVING
	BUILDINGS
	SITE LIMITS
	DRAINAGE AREA
	PROPOSED PUBLIC STORM DRAIN
	PROPOSED PRIVATE STORM DRAIN
FS JF	FLOW SPLITTER STRUCTURE, JELLYFISH (OR EQUIVALENT) TREATMENT STRUCTURE
	EXISTING STORM DRAIN
S	PROPOSED SEWER
W	PROPOSED WATER MAIN
S	EXISTING SEWER MAIN
W	EXISTING WATER MAIN
G	EXISTING GAS MAIN
FO	EXISTING FIBER OPTIC LINE
E	EXISTING ELECTRIC LINE
298 300	EXISTING CONTOURS
298 300	PROPOSED CONTOURS
	PROPOSED RETAINING WALLS
LOD	LIMIT OF DISTURBANCE
	STREAMS, PONDS
	WETLANDS
	WETLAND BUFFER
	STREAM VALLEY BUFFER (SVB)
	100 YR FLOODPLAIN
	FLOODPLAIN SETBACK
	ADJACENT PROPERTY AREAS TO BE DEDICATED TO MEDICAL CENTER DRIVE'S PUBLIC RIGHT-OF-WAY

SHEET KEY
1" = 2,000'

NOTE: FINAL LOT SIZES AND DIMENSIONS TO BE DETERMINED AT SITE PLAN.

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GRAPHIC SCALE

30' 0 15' 30' 60' 120'

1 INCH = 30 FT

PROFESSIONAL CERTIFICATION

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STATE OF MARYLAND
THOMAS BLANC
50010
PROFESSIONAL ENGINEER
6/8/21

REVISION	DATE	REVISION	DATE	REVISION	DATE

APPLICANT:
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ATTN: KATHRYN KUBIT
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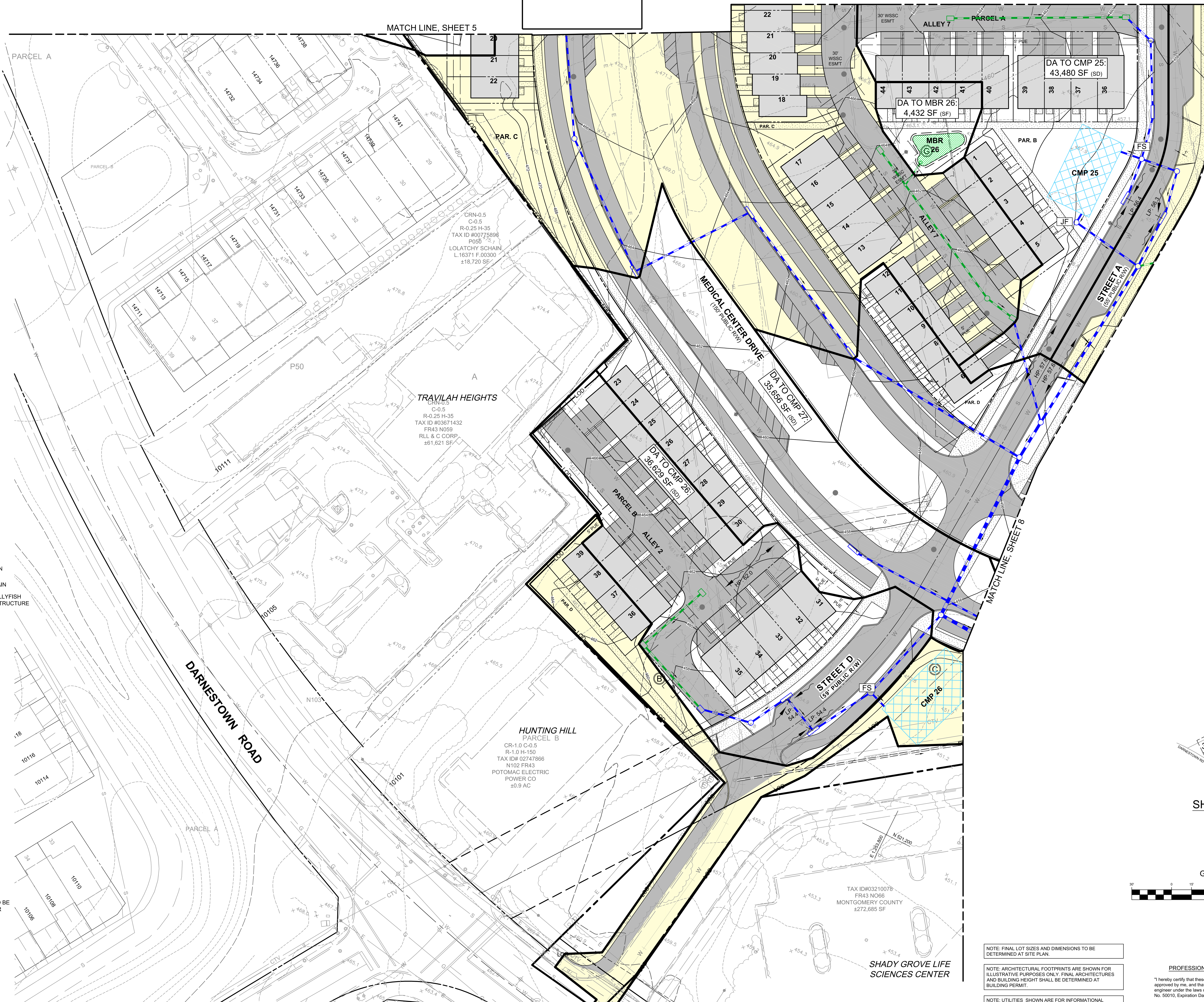
RODGERS CONTACT:		

RELEASE FOR
BY____ DATE ____

STORMWATER MANAGEMENT CONCEPT PLAN

SCALE: 1" = 30'
JOB No. 0643T
DATE: JUNE, 2021
SHEET No. 6 OF 9



LEGEND

- SWM STRUCTURE (PUBLIC TREATMENT)
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GRAPHIC SCALE
30' 0 15' 30' 60' 120'
1 INCH = 30 FT

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STATE OF MARYLAND THOMAS N. BRANC PROFESSIONAL ENGINEER 50010 6/8/21

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	BY	DATE
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RODGERS CONTACT:		

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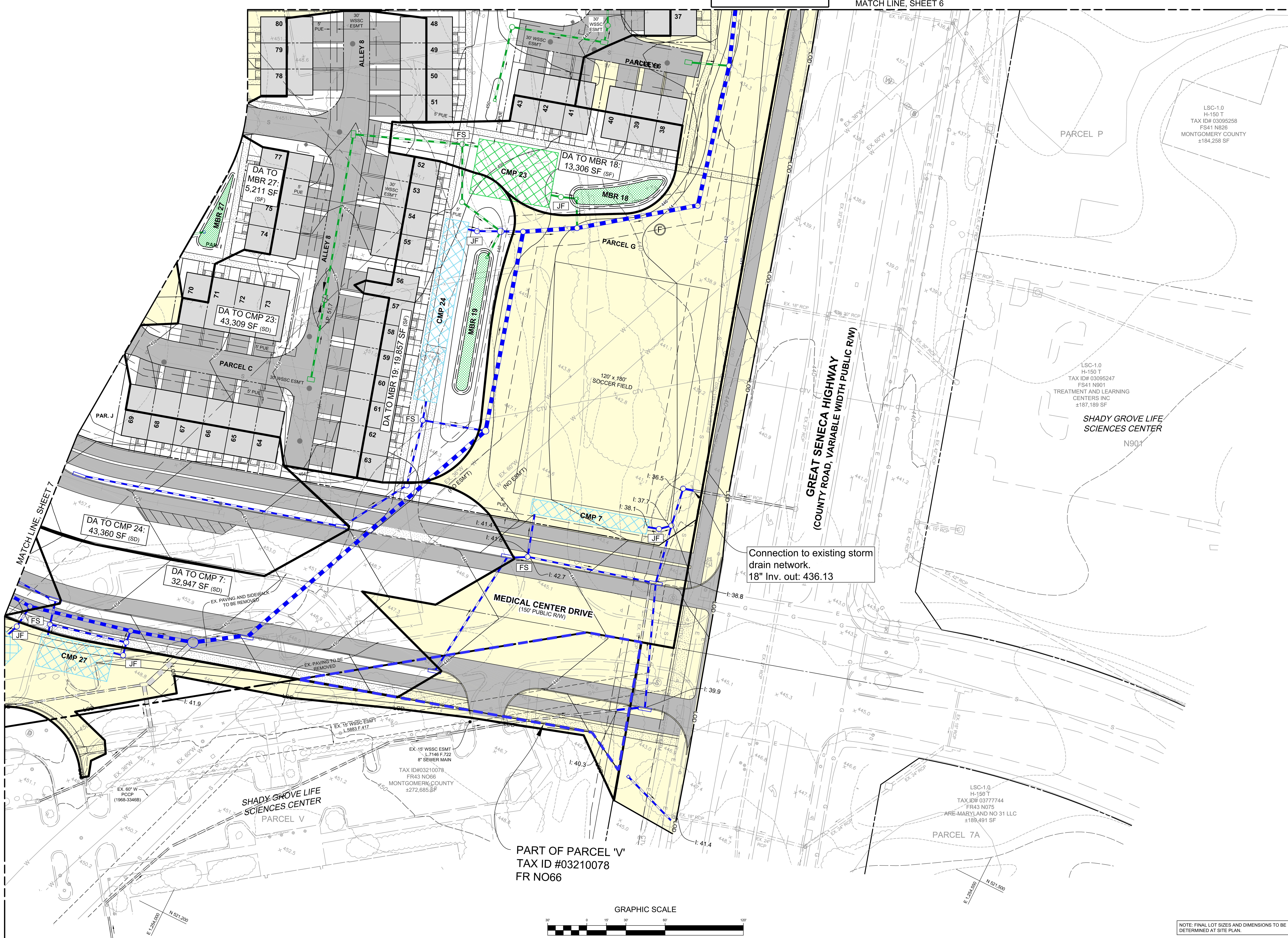
BY ____ DATE ____

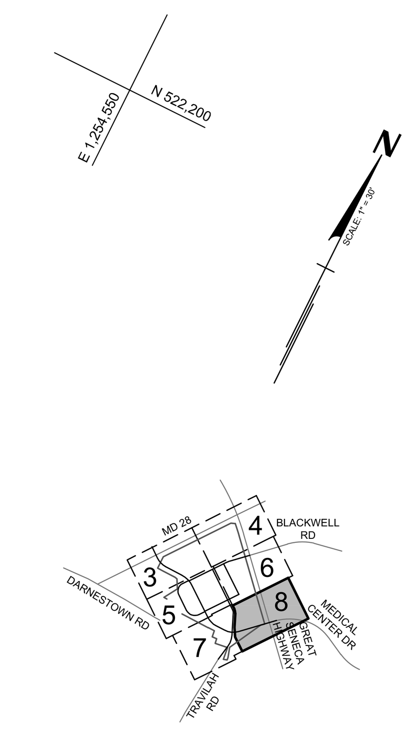
STORMWATER MANAGEMENT CONCEPT PLAN

SCALE: 1" = 30'
JOB No. 0643T
DATE: JUNE, 2021
SHEET No. 7 OF 9

PRELIMINARY NOT FOR CONSTRUCTION

MATCH LINE, SHEET 6





LEGEND

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- SWM STRUCTURE (PRIVATE TREATMENT)
- ESD FACILITY (PUBLIC TREATMENT)
- ESD FACILITY (PRIVATE TREATMENT)
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- ASPHALT PAVING
- CONCRETE PAVING
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- WETLANDS
- WETLAND BUFFER
- STREAM VALLEY BUFFER (SVB)
- 100 YR FLOODPLAIN
- FLOODPLAIN SETBACK
- ADJACENT PROPERTY AREAS TO BE DEDICATED TO MEDICAL CENTER DRIVE'S PUBLIC RIGHT-OF-WAY

NOTE: FINAL LOT SIZES AND DIMENSIONS TO BE DETERMINED AT SITE PLAN.

NOTE: ARCHITECTURAL FOOTPRINTS ARE SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. FINAL ARCHITECTURES AND BUILDING HEIGHT SHALL BE DETERMINED AT BUILDING PERMIT.

PROFESSIONAL CERTIFICATION

"I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 50010, Expiration Date: 7/09/22."

STATE OF MARYLAND THOMAS N. BRAVO 50010 PROFESSIONAL ENGINEER 6/8/21

REVISION	DATE	REVISION	DATE	REVISION	DATE

APPLICANT:
THE ELMS AT PSTA, LLC
ATTN: KATHRYN KUBIT
1355 BEVERLY ROAD, SUITE 240
McLEAN, VA 22101
PHONE: (703) 734-9730
EMAIL: KKUBIT@ELMSTREETDEV.COM

OWNER:
MONTGOMERY COUNTY
EOB 101 MONROE STREET
ROCKVILLE, MD 20850
ATTN: RONNIE WARNER
PHONE: (240) 777-2550
EMAIL: RONNIE.WARNER@MONTGOMERYCOUNTYMD.GOV

PSTA SITE

9710 GREAT SENECA HWY, ROCKVILLE, MD 20850
PARCEL 850 L.3862 F.776; PARCEL 925 L. 3862 F. 772; PART OF PARCEL 'A' L.3862 F. 772;
PART OF PARCEL 'D' L.16172 F.223; PART OF PARCEL 'V' L.16172 F.270 TAX ID #03210078
ELECTION DISTRICT No. 9
MONTGOMERY COUNTY, MARYLAND

RODGERS CONSULTING
19847 Century Boulevard, Suite 200, Germantown, Maryland 20874
Ph: 301.948.4700 Fx: 301.948.6256 www.rodgers.com

	BY	DATE
BASE DATA		
DESIGNED		
DRAWN		
REVIEWED		

RODGERS CONTACT:
RELEASE FOR
BY: DATE

STORMWATER MANAGEMENT CONCEPT PLAN

SCALE: 1" = 30'
JOB No. 0643T
DATE: JUNE, 2021
SHEET No. 8 OF 9

APPROVED
Department of Permitting Services

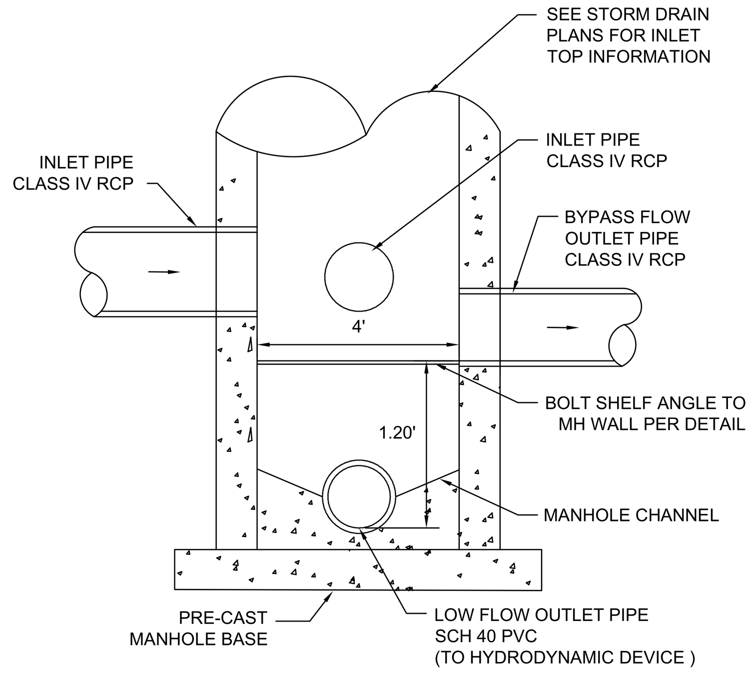
PRELIMINARY NOT FOR CONSTRUCTION

NOTES:

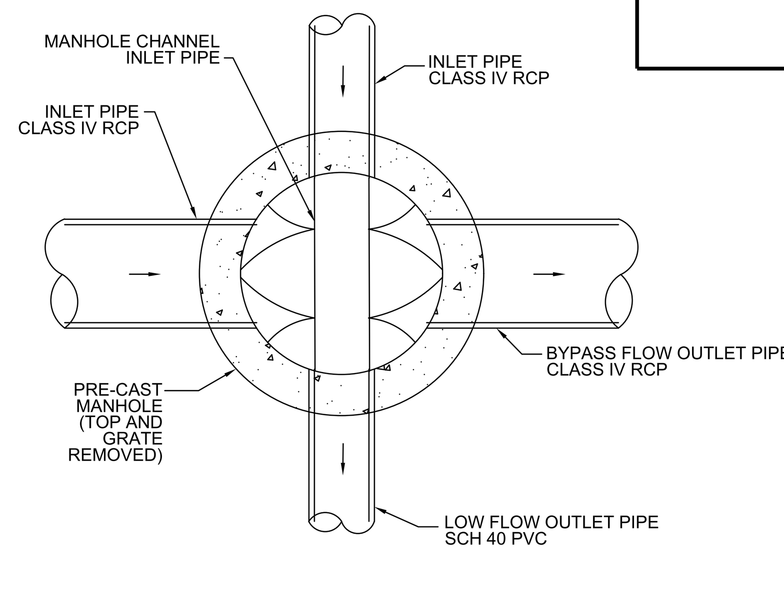
1. STRUCTURE TO BE PRECAST. SHOP DRAWINGS MUST BE APPROVED BY THE ENGINEER AND ACCEPTED BY MCDPS PRIOR TO FABRICATION.
2. CONCRETE DESIGN SHALL MEET THE REQUIREMENTS OF ACI 350, ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES, WITH FREEZING AND THAWING EXPOSURES. CONCRETE SHALL BE A TYPE II OR IIA CEMENT, WITH A 28 DAY COMPRESSIVE STRENGTH OF 4500 PSI FOR CAST IN PLACE AND 5000 PSI FOR PRE-CAST STRUCTURES. CONCRETE SHALL ALSO MEET THE REQUIREMENTS OF MARYLAND DEPARTMENT OF TRANSPORTATION, STATE HIGHWAY ADMINISTRATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, SECTION 420, MIX NO. 6.
3. PRIOR TO BACKFILLING AROUND THE STRUCTURE VERIFY ALL INVERT AND DIMENSIONS, AND NOTIFY THE DESIGN ENGINEER IMMEDIATELY IF THERE ARE ANY DISCREPANCIES.
4. PRIOR TO BACKFILLING AROUND THE STRUCTURE THE ELEVATION DIFFERENCE BETWEEN THE LOW FLOW OUTLET PIPE AND THE BYPASS FLOW OUTLET PIPE INVERTS MUST BE VERIFIED AND ACCEPTED BY THE COUNTY INSPECTOR.
5. CONTRACTOR TO SUBMIT SHOP DRAWINGS TO ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION. STRUCTURE TO BE PRE-CAST.
6. SEE STORM DRAIN PLANS FOR EXACT PIPE ANGLES AND LOCATIONS

FLOW SPLITTER DETAIL
N.T.S.

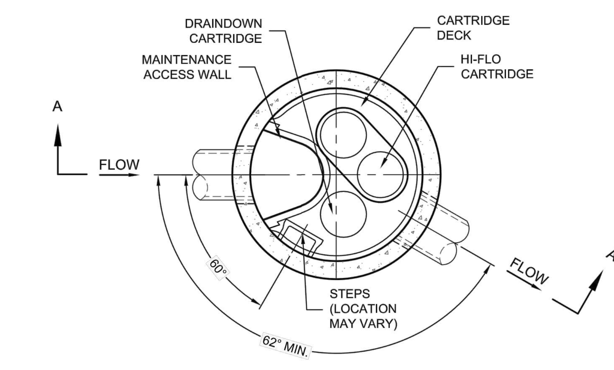
(MANHOLE TOP NOT SHOWN)



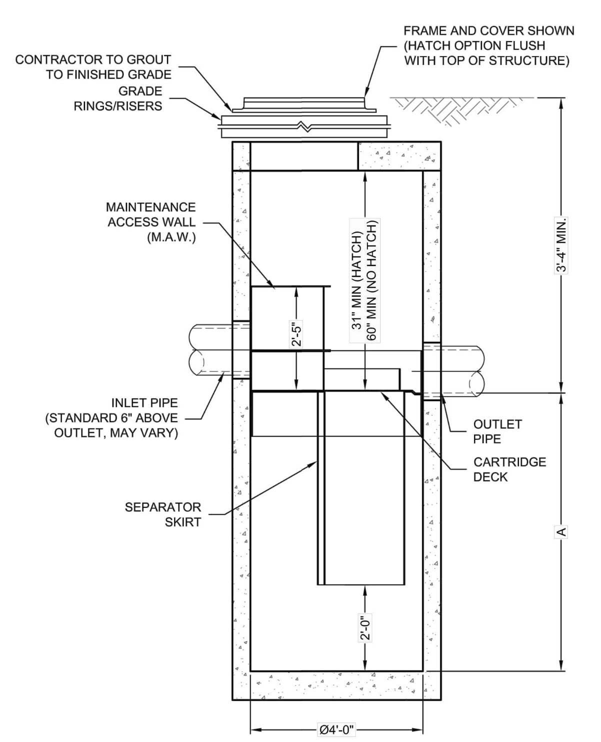
SECTION



PLAN VIEW



PLAN VIEW



SECTION A-A

Jellyfish® Filter

JELLYFISH DESIGN NOTES

JELLYFISH TREATMENT CAPACITY IS A FUNCTION OF THE CARTRIDGE SELECTION AND THE NUMBER OF CARTRIDGES. THE STANDARD MANHOLE STYLE IS SHOWN. Ø48" MANHOLE JELLYFISH PEAK TREATMENT CAPACITY IS 0.45 CFS. IF THE SITE CONDITIONS EXCEED 0.45 CFS AN UPSTREAM BYPASS STRUCTURE IS REQUIRED.

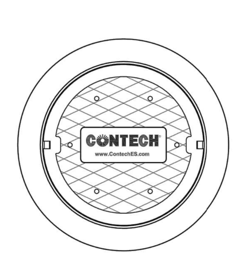
CARTRIDGE SELECTION

CARTRIDGE DEPTH	54"	40"	27"	15"
OUTLET INVERT TO STRUCTURE INVERT (A)	6'-5"	5'-3"	4'-2"	3'-2"
FLOW RATE HIGH-FLO / DRAINDOWN (cfs) (per cart)	0.18 / 0.09	0.13 / 0.065	0.09 / 0.045	0.05 / 0.025
MAX. CARTS HIGH-FLO / DRAINDOWN	2 / 1			

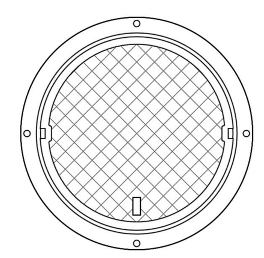
SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID	*		
WATER QUALITY FLOW RATE (cfs)	*		
PEAK FLOW RATE (cfs)	*		
RETURN PERIOD OF PEAK FLOW (yrs)	*		
# OF CARTRIDGES REQUIRED (HF / DD)	* / *		
CARTRIDGE SIZE	*		
PIPE DATA:	I.E.	MATERIAL	DIAMETER
INLET PIPE #1	*	*	*
INLET PIPE #2	*	*	*
OUTLET PIPE	*	*	*
RIM ELEVATION	*		
ANTI-FLOTATION BALLAST	WIDTH	HEIGHT	
	*	*	
NOTES/SPECIAL REQUIREMENTS:			

* PER ENGINEER OF RECORD



FRAME AND COVER
(DIAMETER VARIES)
N.T.S.



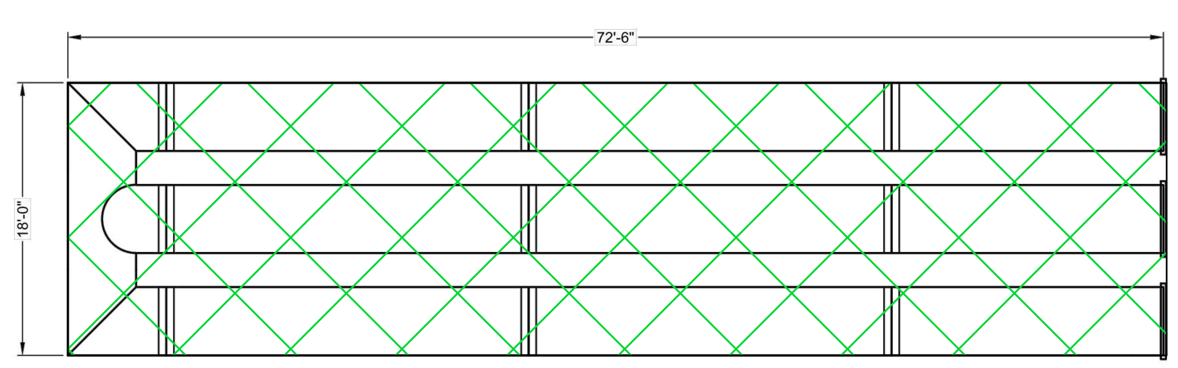
HATCH
(Ø36" CAST INTO SLAB)
N.T.S.

GENERAL NOTES:
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS REPRESENTATIVE. www.ContechES.com
3. JELLYFISH WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
4. STRUCTURE SHALL MEET AASHTO HS-20 OR PER APPROVING JURISDICTION REQUIREMENTS, WHICHEVER IS MORE STRINGENT, ASSUMING EARTH COVER OF 0' - 3', AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 LOAD RATING AND BE CAST WITH THE CONTECH LOGO.
5. STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C-478 AND AASHTO LOAD FACTOR DESIGN METHOD.
6. NO PRODUCT SUBSTITUTIONS SHALL BE ACCEPTED UNLESS SUBMITTED 10 DAYS PRIOR TO PROJECT BID DATE, OR AS DIRECTED BY THE ENGINEER OF RECORD.

INSTALLATION NOTES
A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STRUCTURE (LIFTING CLUTCHES PROVIDED)
C. CONTRACTOR WILL INSTALL AND LEVEL THE STRUCTURE, SEALING THE JOINTS, LINE ENTRY AND EXIT POINTS (NON-SHRINK GROUT WITH APPROVED WATERSTOP OR FLEXIBLE BOOT)
D. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM CONSTRUCTION-RELATED EROSION RUNOFF.
E. CARTRIDGE INSTALLATION, BY CONTECH, SHALL OCCUR ONLY AFTER SITE HAS BEEN STABILIZED AND THE JELLYFISH UNIT IS CLEAN AND FREE OF DEBRIS. CONTACT CONTECH TO COORDINATE CARTRIDGE INSTALLATION WITH SITE STABILIZATION AT (866) 740-3318.

CONTECH® ENGINEERED SOLUTIONS LLC
www.ContechES.com
9025 Centre Pointe Dr., Suite 400, West Chester, OH 45069
800-338-1122 513-645-7000 513-645-7993 FAX

JELLYFISH JF4
STANDARD DETAIL
OFFLINE CONFIGURATION



ASSEMBLY
SCALE: 1" = 10'

NOTE: CMP SYSTEMS SHOWN IN PLAN VIEW HAVE BEEN DRAWN AT DIMENSIONS TO ACCOMODATE DESIGN VOLUMES AND REPRESENT FULL EXTENTS NECESSARY.

NOTE: TYPICAL ASSEMBLY. SIZE VARIES. DETAIL PROVIDED FOR REFERENCE PURPOSES ONLY.

PROJECT SUMMARY

CALCULATION DETAILS
- LENGTH PER BARREL = 68 FT
- LENGTH PER HEADER = 18 FT
- LOADING = H20 & H25
- APPROX. CMP FOOTAGE = 222 FT

STORAGE SUMMARY
- STORAGE VOLUME REQUIRED 3,500 CF
- PIPE STORAGE = 3,530 CF
- STRUCTURAL BACKFILL STORAGE = 0 CF
- TOTAL STORAGE PROVIDED = 3,530 CF

PIPE DETAILS
- DIAMETER = 54 IN
- CORRUGATION = 5" X 1" OR 3" X 1"
- GAGE = 16
- COATING = ALUMINIZED STEEL TYPE 2 (ALT2)
- WALL TYPE = SOLID
- BARREL SPACING = 27 IN

BACKFILL DETAILS
- WIDTH AT ENDS = 12 IN
- ABOVE PIPE = 0 IN
- WIDTH AT SIDES = 12 IN
- BELOW PIPE = 6 IN

NOTES
- ALL RISER AND STUB DIMENSIONS ARE TO CENTERLINE. ALL ELEVATIONS, DIMENSIONS, AND LOCATIONS OF RISERS AND INLETS, SHALL BE VERIFIED BY THE ENGINEER OF RECORD PRIOR TO RELEASING FOR FABRICATION.
- ALL FITTINGS AND REINFORCEMENT COMPLY WITH ASTM A998.
- ALL RISERS AND STUBS ARE 2⅔" x ½" CORRUGATION AND 16 GAGE UNLESS OTHERWISE NOTED.
- RISERS TO BE FIELD TRIMMED TO GRADE.
- QUANTITY OF PIPE SHOWN DOES NOT PROVIDE EXTRA PIPE FOR CONNECTING THE SYSTEM TO EXISTING PIPE OR DRAINAGE STRUCTURES. OUR SYSTEM AS DETAILED PROVIDES NOMINAL INLET AND/OR OUTLET PIPE STUB FOR CONNECTION TO EXISTING DRAINAGE FACILITIES. IF ADDITIONAL PIPE IS NEEDED IT IS THE RESPONSIBILITY OF THE CONTRACTOR.
- BAND TYPE TO BE DETERMINED UPON FINAL DESIGN.
- THE PROJECT SUMMARY IS REFLECTIVE OF THE DYODS DESIGN, QUANTITIES ARE APPROX. AND SHOULD BE VERIFIED UPON FINAL DESIGN AND APPROVAL. FOR EXAMPLE, TOTAL EXCAVATION DOES NOT CONSIDER ALL VARIABLES SUCH AS SHORING AND ONLY ACCOUNTS FOR MATERIAL WITHIN THE ESTIMATED EXCAVATION FOOTPRINT.

NOTE:
THESE DRAWINGS ARE FOR CONCEPTUAL PURPOSES AND DO NOT REFLECT ANY LOCAL PREFERENCES OR REGULATIONS. PLEASE CONTACT YOUR LOCAL CONTECH REP FOR MODIFICATIONS.

MARK	DATE	REVISION DESCRIPTION	BY

CONTECH® ENGINEERED SOLUTIONS LLC
www.ContechES.com
9025 Centre Pointe Dr., Suite 400, West Chester, OH 45069
800-338-1122 513-645-7000 513-645-7993 FAX

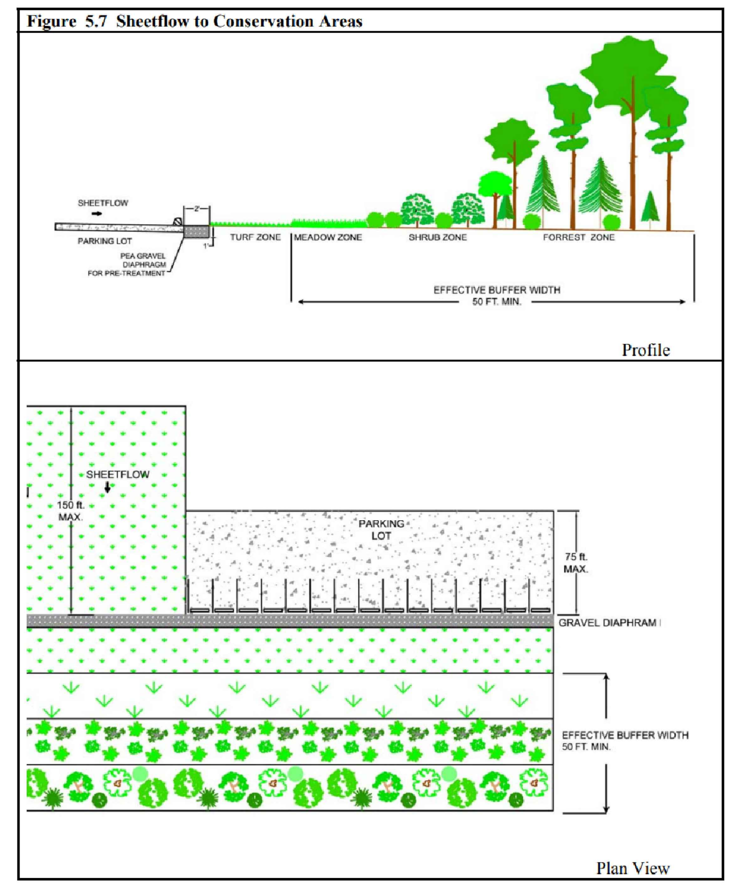
CONTECH® CMP DETENTION SYSTEMS
CONTECH DYODS DRAWING

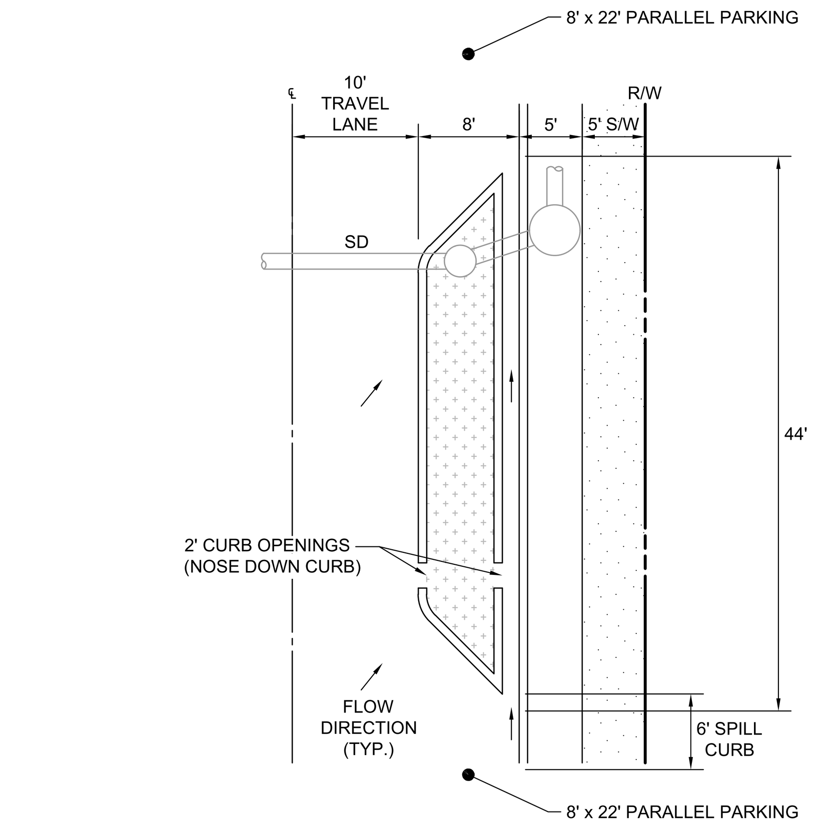
DYODS - 13688-1-0
PROJECT NAME: Great Key/PSTA Site
Rockville, MD
DESCRIPTION: CMP SYSTEM

PROJECT No.:	SEQ. No.:	DATE:
13688-1	0	1/2/2020
DESIGNED: DYODS	DRAWN: DYODS	
CHECKED:	APPROVED:	
SHEET NO.: D1		

Applicable Facilities
CMP 1
CMP 2
CMP 3
CMP 4
CMP 5
CMP 6
CMP 7
CMP 8
CMP 9
CMP 10
CMP 11
CMP 12
CMP 13
CMP 14
CMP 15
CMP 16
CMP 17
CMP 18
CMP 19
CMP 20
CMP 21
CMP 22
CMP 23
CMP 24
CMP 25
CMP 26
CMP 27

Figure 5.7 Sheetflow to Conservation Areas

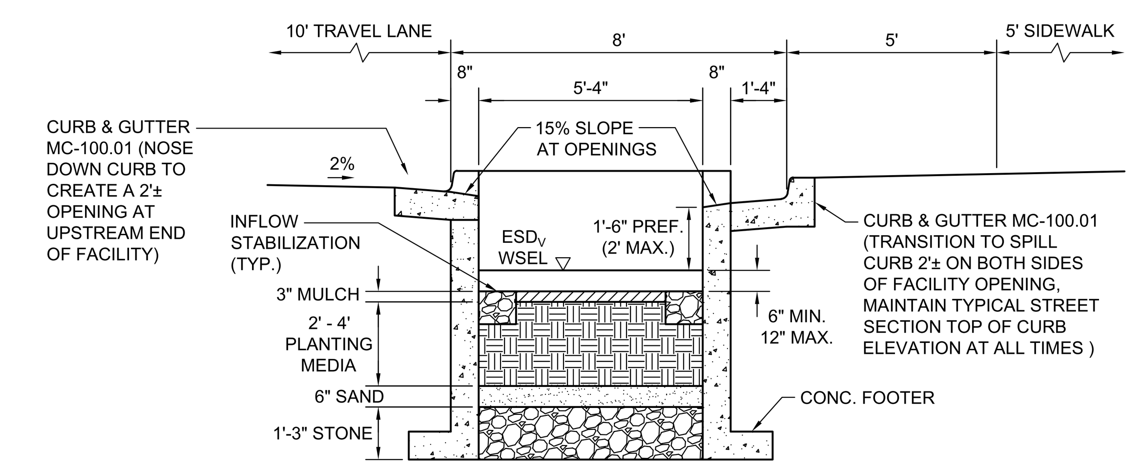




PLAN
1" = 10'

NOTE: ROADWAY PLANTER BOX A-TYPICAL DESIGN TO BE COORDINATED WITH MCDOT AND MCDPS

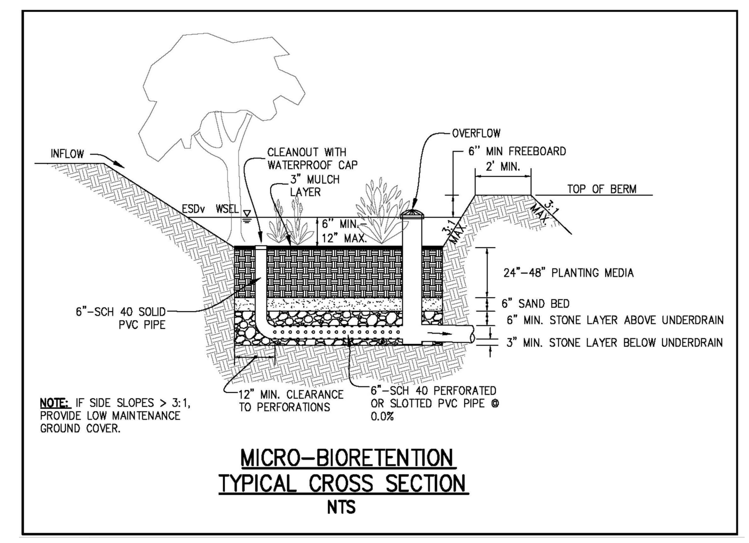
Applicable Facilities
MBR 20
MBR 21
MBR 22
MBR 23
MBR 24



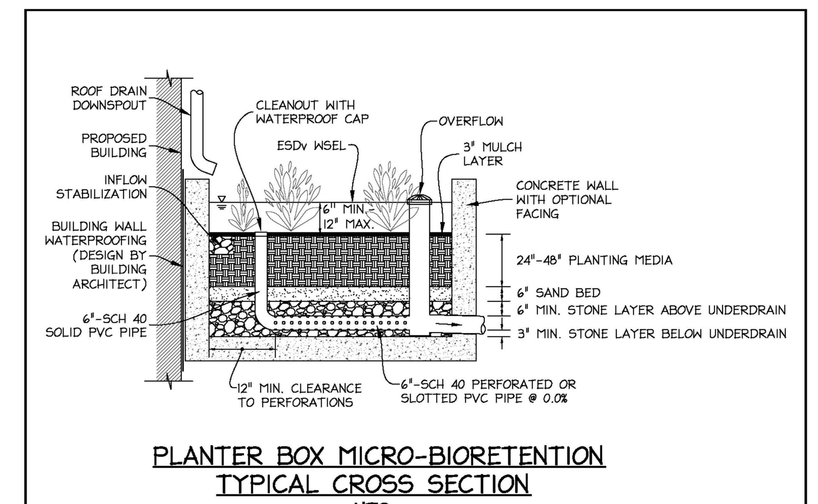
SECTION THROUGH CURB OPENINGS
1" = 3'

TYPICAL ON-STREET SWM FACILITY

Applicable Facilities
MBR 8
MBR 9
MBR 10
MBR 11
MBR 12
MBR 13
MBR 14
MBR 15
MBR 16
MBR 17
MBR 18
MBR 19
MBR 25
MBR 26
MBR 27
MBR 28



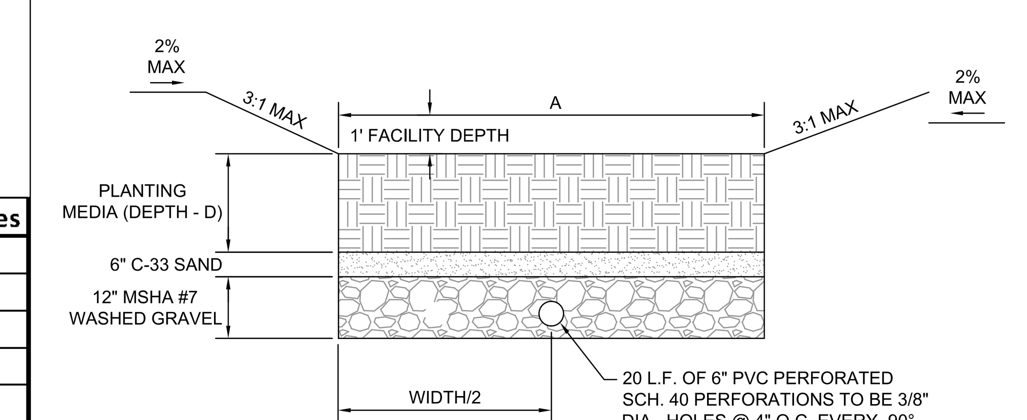
MICRO-BIORETENTION
TYPICAL CROSS SECTION
NTS



PLANTER BOX MICRO-BIORETENTION
TYPICAL CROSS SECTION
NTS

Applicable Facilities
BB 30
BB 31
BB 32
BB 33
BB 34
BB 35
BB 36
BB 37
BB 38
BB 39
BB 40
BB 41

Applicable Facilities
BS-3
BS-4
BS-5
BS-6
BS-7



BIOSWALE SECTION
N.T.S.

PROFESSIONAL CERTIFICATION

"I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 50010, Expiration Date: 7/09/22."

STATE OF MARYLAND
PROFESSIONAL ENGINEER
50010
6/8/21

REVISION	DATE	REVISION	DATE	REVISION	DATE

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	BY	DATE
BASE DATA		
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DRAWN		
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RODGERS CONTACT:		

RELEASE FOR ________
BY________ DATE ____

STORMWATER MANAGEMENT CONCEPT DETAILS

SCALE: AS SHOWN
JOB No. 0643T
DATE: JUNE, 2021
SHEET No. 9 OF 9