MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION

BOYDS TRANSIT IMPROVEMENTS

C. I. P. PROJECT 509337

ALL REQUIRED PERMITS PRIOR TO ISSUANCE OF APPROVED SEDIMENT CONTROL PERMIT:					
TYPE OF PERMIT	REQD	NOT REQD	PERMIT NO.	EXPIRATION DATE	WORK RESTRICTION DATE
M.C.D.E.P. Floodplain District		Х			
WATERWAY/WETLANDS					
a. Corps of Engineers		X			
b. M.D.E.		X			
c. M.D.E. Water Quality Certification		X			
M.D.E. Dam Safety		X			
DNR Roadside Tree Care Permit	X				
DPS Roadside Tree Protection Plan	X				
N.P.D.E.S. NOTICE OF INTENT	X				
M.C.D.P.S. STORMWATER MANAGEMENT	Х			_	
M.C.D.P.S. SEDIMENT CONTROL	X				

DEVELOPER'S/BUILDER'S CERTIFICATION

I HEREBY CERTIFY THAT ALL CLEARING, GRADING, CONSTRUCTION AND/OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS PLAN AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE OF A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING

DATE	

TIMOTHY H. CUPPLES, P.E., CHIEF DIVISION OF TRANSPORTATION ENGINEERING

DESIGN CERTIFICATION

I HEREBY CERTIFY THAT THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE "2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL", MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES EXECUTIVE REGULATIONS 5-90, 7-02AM AND 36-90, AND MONTGOMERY COUNTY DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION "STORM DRAIN DESIGN CRITERIA" DATED JUNE, 2014.

DATE	

PAMELA H. DESTINO, P.E. MD REGISTRATION NO. 42708

CERTIFICATION OF QUANTITIES

I FURTHER CERTIFY THAT THE TOTAL AMOUNTS OF EXCAVATION AND FILL AS SHOWN ON THESE PLANS HAVE BEEN COMPUTED TO BE 2.820 CUBIC YARDS OF EXCAVATION AND 570 CUBIC YARDS OF FILL AND THAT THE TOTAL AREA TO BE DISTURBED AS SHOWN ON THESE PLANS HAS BEEN DETERMINED TO BE A MAXIMUM OF 51,378 SQUARE FEET OR 1.18 ACRES.

Exempt: Yes No lf exempt under Sapplicable exemption category below.	ection 55-5 of the Code, please check the
Total Property Area	Total Disturbed Area
square feet	square feet
Shade Trees Required	Shade Trees Proposed to be Planted
"	
Fee in Lieu	
(Trees Required – Trees Planted) x \$250	\$
Required Number	of Shade Trees
Area (sq. ft.) of the Limits	Number of Shade
of Disturbance	Trees Required
FROM TO	
1 6,000	3
6,001 8,000	6
8,001 12,000	9
12,001 14,000	12
14,001 40,000	15
If the square footage of the limits of dis	sturbance is more than 40,000, then the
number of shade trees required must be cal	

intenance has obtained all required permits; 55-5(h) any stream restoration project if the

55-5(i) cutting or clearing any tree to comply with

applicable provisions of any federal, state, or local law

OTHER: Specify per Section 55-5 of the Code.

erson performing the work has obtained all

verning safety of dams;

55-5(a) any activity that is subject to Article II of

arvesting operation with an approved exemption fro

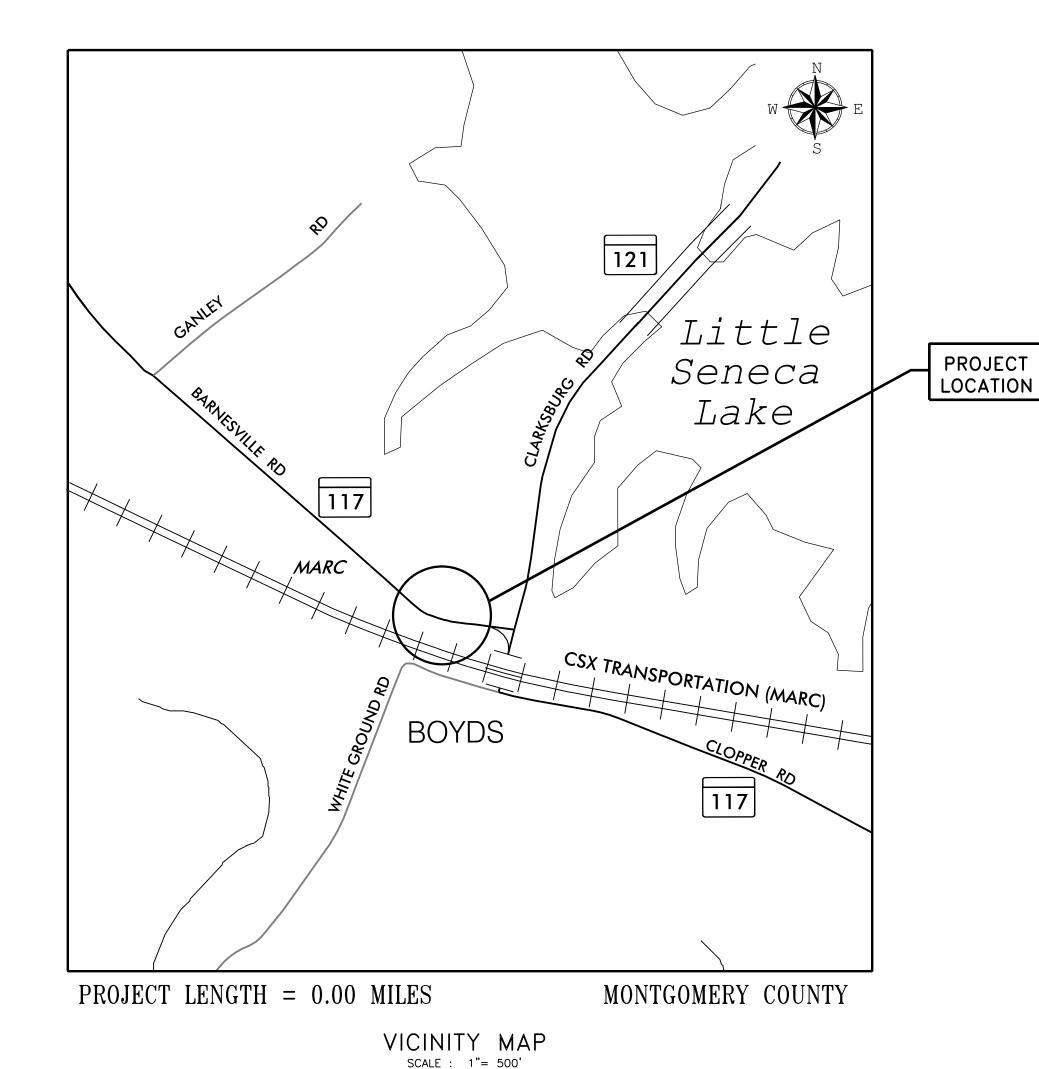
55-5(f) any activity conducted by the County Parl

55-5(g) routine or emergency maintenance of an

55-5(b) any commercial logging or timber

Article II of Chapter 22A;

PAMELA H. DESTINO, P.E. MD REGISTRATION NO. 42708



GENERAL NOTES

- 1. THE SPECIFICATIONS FOR THIS CONTRACT WILL BE THOSE OF THE MARYLAND STATE HIGHWAY ADMINISTRATION DATED JULY 2008, ALL ERRATA AND ADDENDA THERETO. THE MARYLAND STATE HIGHWAY ADMINISTRATION BOOK OF STANDARDS FOR HIGHWAY AND INCIDENTAL STRUCTURES, WASHINGTON SUBURBAN SANITARY COMMISSION (W.S.S.C.) STANDARDS, MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION STANDARDS, AND SOIL CONSERVATION SERVICE POND CONSTRUCTION SPECIFICATIONS FOR MARYLAND.
- 2. HORIZONTAL DATUM: NAD 83(1991) VERTICAL DATUM: NAVD 88.
- 3. TYPES OF STORM DRAIN STRUCTURES REFER TO THE "DESIGN STANDARDS" OF MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION, UNLESS OTHERWISE NOTED.
- 4. WHEN THE DROP ON THE MAIN LINE THROUGH A STORM DRAIN STRUCTURE CAN BE ACCOMMODATED BY AN INVERT SLOPE OF 1.5:1 OR FLATTER, A ROUNDED CHANNEL LINED WITH SEWER BRICK ON EDGE SHALL BE BUILT TO THE CROWN OF THE PIPES. WHEN THE INVERT SLOPES WOULD BE GREATER THAN 1.5:1 A SPECIAL INVERT SHALL BE CONSTRUCTED AS NOTED.
- 5. ALL STORM DRAIN PIPE SHALL BE INSTALLED WITH CLASS "C" BEDDING UNLESS OTHERWISE SPECIFIED.
- 6. THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS TO STORM DRAIN STRUCTURES, WHEN NECESSARY, TO MEET EXISTING CONDITIONS, AS APPROVED BY MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION'S PROJECT INSPECTOR.
- 7. INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS, BUT THE CONTRACTOR MUST DETERMINE THE EXACT LOCATIONS AND ELEVATIONS OF THE LINES BY DIGGING TEST PITS BY HAND AT ALL UTILITY CROSSINGS, WELL IN ADVANCE OF TRENCHING. IF CLEARANCES ARE LESS THAN SHOWN OR SIX (6) INCHES, WHICHEVER IS LESS, CONTACT MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION'S PROJECT INSPECTOR AND THE APPROPRIATE UTILITY OWNER BEFORE PROCEEDING WITH CONSTRUCTION.
- 8. REPAIRS TO UTILITIES OR PROPERTY DAMAGE AS A RESULT OF THE CONTRACTOR'S NEGLIGENCE OR METHOD OF OPERATION MUST BE MADE AT THE CONTRACTOR'S EXPENSE BEFORE PROCEEDING WITH CONSTRUCTION.
- 9. CLEARING IS TO BE LIMITED TO THE "LIMIT OF GRADING" AS SHOWN ON THE PLANS.

10. ALL GRADING SHALL BE DONE IN SUCH A MANNER AS TO PROVIDE POSITIVE DRAINAGE.

- 11. DISTURBED AREAS ADJACENT TO ESTABLISHED LAWNS SHALL BE SODDED. OTHER DISTURBED AREAS SHALL BE SEEDED AND MULCHED.
- 12. THE CONTRACTOR SHALL OBTAIN A ROADSIDE TREE PERMIT FOR ANY MAINTENANCE, TREATMENT, PLANTING, REMOVAL, OR ROOT CUTTING ON TREES WITHIN THE PUBLIC RIGHT OF WAY. PERMIT REQUIREMENTS MAY BE OBTAINED FROM THE DEPARTMENT OF NATURAL RESOURCES. MARYLAND FOREST, PARK AND WILDLIFE SERVICE, TELEPHONE 301-854-6060.
- 13. CONTACT THE WASHINGTON SUBURBAN SANITARY COMMISSION SYSTEM MAINTENANCE ENGINEER BEFORE EXCAVATING BENEATH OR IN THE VICINITY OF EXISTING WATER OR SEWER LINES. BACKFILL TO BE DONE UNDER SUPERVISION OF CALL 301-206-9772
- 14. ALL UTILITY POLES NOTED FOR RELOCATION SHALL BE PERFORMED BY OTHERS.
- 15. PRIOR TO VEGETATIVE STABILIZATION, ALL DISTURBED AREAS MUST BE TOPSOILED PER THE MONTGOMERY COUNTY "STANDARDS AND

16. CALL "MISS UTILITY" AT 1-800-257-7777 48 HOURS PRIOR TO THE START OF WORK. THE EXCAVATOR MUST NOTIFY ALL PUBLIC UTILITY COMPANIES WITH UNDERGROUND FACILITIES IN THE AREA OF PROPOSED EXCAVATION AND HAVE THOSE FACILITIES LOCATED BY UTILITY COMPANIES PRIOR TO COMMENCING EXCAVATION. THE EXCAVATOR IS RESPONSIBLE FOR COMPLIANCE WITH REQUIREMENTS OF CHAPTER 36A OF THE MONTGOMERY COUNTY CODE.

		MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES APPROVED FOR:	
OWNER/ADDRESS: MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION	STORMWATER MANAGEMENT	SEDIMENT CONTROL TECHNICAL REQUIREMENTS Reviewed Date Approved Date	MCDPS ACCESS PERMIT. ADMINISTRATIVE REQUIREMENTS Reviewed Date
100 EDISON PARK DRIVE, 4TH FLOOR GAITHERSBURG, MD 20878	Approved Date S.M. FILE NO.		MCDPS APPROVAL OF THIS PLAN WILL EXPIRE ONE YEAR FRO THE DATE OF APPROVAL IF THE PROJECT HAS NOT STARTEI UNLESS THE PERMIT HAS BEEN EXTENDED

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

240-777-7263

REBECCA PARK, P.E.

WRA)		
Whitman, Requardt & Associates, LLP		
301 South Caroline Street, Baltimore, Maryland 21231		
	NO	PEVISION

MONTGOMERY COUNTY DEPARTMENT OF TRANSPOR GAITHERSBURG, MARYLA	RTATION	
ECOMMENDED FOR APPROVAL		
nief, Transportation Planning and Design Section PPROVED	Date	
nief, Division of Transportation Engineering	Date	SCA
designed by PHD Drawn by KHI	Checked by JAG	Pro

BOYDS TRANSIT

TI-01 TITLE SHEET

IMPROVEMENTS

MCDPS-SC/SWM SHEET NO. 1 OF 9

existing stormwater management facility, including ar OF MARYLAND, LICENSE NO. existing access road, if the person performing the ALE : NTS OCTOBER 2019 EXPIRATION DATE:_ SHEET ____1 of ___17 Designed by: PHD Drawn by: KHL Checked by: <u>JAG</u>

INDEX OF SHEETS

SHEET NO.	SC/SWM NO.	DRAWING DESCRIPTION
1	1	TITLE SHEET
2	2	INDEX OF SHEETS, LEGEND, AND ABBREVIATIONS
3		GS-01 - GEOMETRIC LAYOUT SHEET
4	3	HT-01 - TYPICAL SECTIONS
5	4	HT-02 - TYPICAL SECTIONS
6	5	HT-03 - TYPICAL SECTIONS
7		PD-01 - PAVEMENT DETAILS
8	6	HD-01 - ROADWAY PLAN
9		HP-01 - ROADWAY PROFILE
10		HP-02 - ROADWAY PROFILE
11	7	GR-01 - SITE GRADING PLAN
12		TCP-A - TRAFFIC CONTROL PLAN GENERAL NOTES
13		TCP-01 - TRAFFIC CONTROL PLAN
14		SN-2.01 - SIGNING AND MARKING PLAN
15	8	FI-01 - FOREST IMPACT PLAN
16	9	LD-01 - LANDSCAPE PLANS
17	10	LD-02 - LANDSCAPE DETAILS

LEGEND

T	TELEPHONE MANHOLE		EVICTING W DEAM
WM	WATER METER		EXISTING W-BEAM
\bowtie	WATER VALVE		PROPOSED W-BEAM
(SS)	SEWER MANHOLE	—— WB ——	WETLAND BUFFER
(D)	STORM DRAIN MANHOLE	<u> </u>	WETLAND
		- x x -	PROPOSED FENCE
(c) •	GAS VALVE	-x x	EXISTING CHAINLINK FENCE
⊙ 	SIGN		INDEX CONTOUR
*	LIGHT POLE	— — 300 — -	INTERVAL CONTOUR
Ø	UTILITY POLE		
\bowtie	FIRE HYDRANT	— — C — →	
	PARKING METER	⊢ F	TOE OF FILL
(,,,)	TREE		EXISTING RIGHT OF WAY LINE
		—— LOD ——	LIMIT OF DISTURBANCE
	BORING	——ТСЕ——	TEMPORARY CONSTRUCTION EASEMEN
	INLET	— — PE — —	PERPETUAL EASEMENT
MH	MANHOLE		

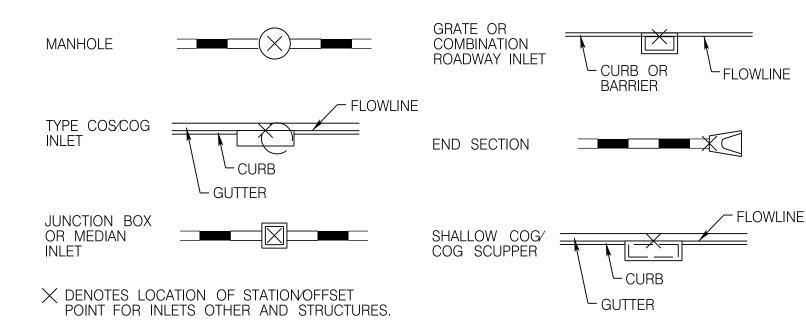
TIBBIVE VIIII

A.A.S.H.T.O	American Association of State Highway
	Transportation Officials Approximate
APPROX	<u>- Approximate</u>
3 or B/L	Baseline
C.C	.Center of Curve
C or C/L	. Centerline
C.I.P	Cast Iron Pipe
C.M.P	Baseline Center of Curve Centerline Cast Iron Pipe Corrugated Metal Pipe
0.0	Cleanout
COMB	Combination
CONC	Concrete
CONSTR	Construction
) P P	Construction Corrugated Polyethylene Pipe Diameter Breast Height
) R H	Niameter Breast Height
),D.11,	Degree of Curve
ノし)	Design Hourly Volume
), <u>,</u>	Drop Inlat
ノ, I ,	Diameter
)IA	Double Opening
<u> </u>	Double Opening East Electric External Distance
=	. EUSl
	Liectric
 - ^	. External Distance
A	. Each
B	Lastbound.
LLEV	Eastbound. Elevation Elliptical Reinforced Cement
R.C.C.P	Elliptical Reinforcea Cement
-0	Concrete Pipe End Section
<u>.</u> S	End Section
X. or EXIST	<u>- Existing</u>
T	<u>f</u> eet
or FL	. Flowline
-MD	.Forward
or FL WD Э	Gas
H.E.R.C.P	Horizontal Elliptical Reinforced
	Concrete Pipe
HP	. High Point
HMA	.Hot Mix Asphalt
√T	. Height
N	. Inch
NV	. Invert
	. Lenath
_ANDSC	Landscaped
F	Linear Feet

<u>ABBREVIATIONS</u>

. =	5
LP	
LT	
MAX	
MOD	
MIN	
N	
NE	Northbound
	Not To Scale
0.C	
	Point of Curvature
P C C	Point of Compound Curve
P/C	Point of Crown
	Profile Grade Elevation
	Profile Ground Elevation
	Profile Grade Line
	Profile Ground Line
P/R	Point of Rotation
	Point of Intersection
P.O.C	Point on Curve
	Point on Tangent.
PROP	Proposed
PT,	Point
P.T	Point of Tangency Point of Vertical Curve
P.V.C	Point of Vertical Curve
PVC	Polyvinyl Chloride
PVI	Point of Intersection
R	
REI. WALL	Retaining Wall
RT	Right
RW or R/W.	Right of Way Reinforced Cement Pipe
K.C.P	Reinforced Cement Pipe
	Reinforced Cement Concrete Pipe
S	
SAIVI	Superpave Asphalt Mix Southbound
2D	Storm Drain
S.D	Superelevation
SF	Silt Fence
S F	Square Feet
SS	Sanitary Sewer
SSD	Stopping Sight Distance
SSF	Stopping Sight Distance Super Silt Fence
STD	Standard
J. J.	2.333

DRAINAGE STRUCTURE STAKEOUT LOCATION



T.C DENOTES TOP OF COVER

T.G DENOTES TOP OF GRATE

DRAINAGE BUBBLES (SAMPLES)

(SAIVIF LLS)				
INLET				
MANHOLE	MH 1			
JUNCTION BOX	JB 1			
FIELD CONNECTION	$\frac{\mathbb{C}}{1}$			
BEND	B 1			
END SECTION	ES 1			
END WALL	EW 1			
ADJUST EX. STRUCTURE	$\begin{pmatrix} A \\ 1 \end{pmatrix}$			

MCDPS-SC/SWM SHEET NO. 2 OF 9

...Station ...Single Opening ...Square Yards ...Storm Water Management

Tangent
Telephone
Terra Cotta Pipe

...Varies ...Vertical Curve Length

Typical
Utility Pole

...Westbound

..Water ..West

WB..

MONTGOMERY COUNTY DE PERMITTING SERVICES API		NOTE: MCDPS APPROVAL DOES NOT NEGATE THE NEED FOR A MCDPS ACCESS PERMIT.
STORMWATER MANAGEMENT	SEDIMENT CONTROL TECHNICAL REQUIREMENTS	ADMINISTRATIVE REQUIREMENTS
ESDS AND WAIVERS		
Reviewed Date	Reviewed Date Approved Date	Reviewed Date XXXXX SEDIMENT CONTROL PERMIT NO.
Approved Date XXXXXX S.M. FILE NO.		MCDPS APPROVAL OF THIS PLAN WILL EXPIRE TWO YEAR FROM THE DATE OF APPROVAL IF THE PROJECT HAS NOT STARTED UNLESS THE PERMIT HAS BEEN EXTENDED

PROVAL OF A SEDIMENT CONTROL OR STORMWATER MANAGEMENT PLAN IS FOR DEMONSTRATED COMPLIANCE WITH MINIMUM ENVIRONMENTAL RUNOFF TREATMENT RDS AND DOES NOT CREATE OR IMPLY ANY RIGHT TO DIVERT OR CONCENTRATE RUNOFF ONTO ANY ADJACENT PROPERTY WITHOUT THAT PROPERTY OWNER'S SION. IT DOES NOT RELIEVE THE DESIGN ENGINEER OR OTHER RESPONSIBLE PERSON OF PROFESSIONAL LIABILITY OR ETHICAL RESPONSIBILITY FOR THE CY OF THE DRAINAGE DESIGN AS IT AFFECTS UPHILL OR DOWNHILL PROPERTIES

PROFESSIONAL CERTIFICATION.
I HEREBY CERTIFY THAT THESE DOCUMENTS
WERE PREPARED OR APPROVED BY ME, AND
THAT I AM A DULY LICENSED PROFESSIONAL
ENGINEER UNDER THE LAWS OF THE STATE
OF MARYLAND, LICENSE NO.
EXPIRATION DATE:

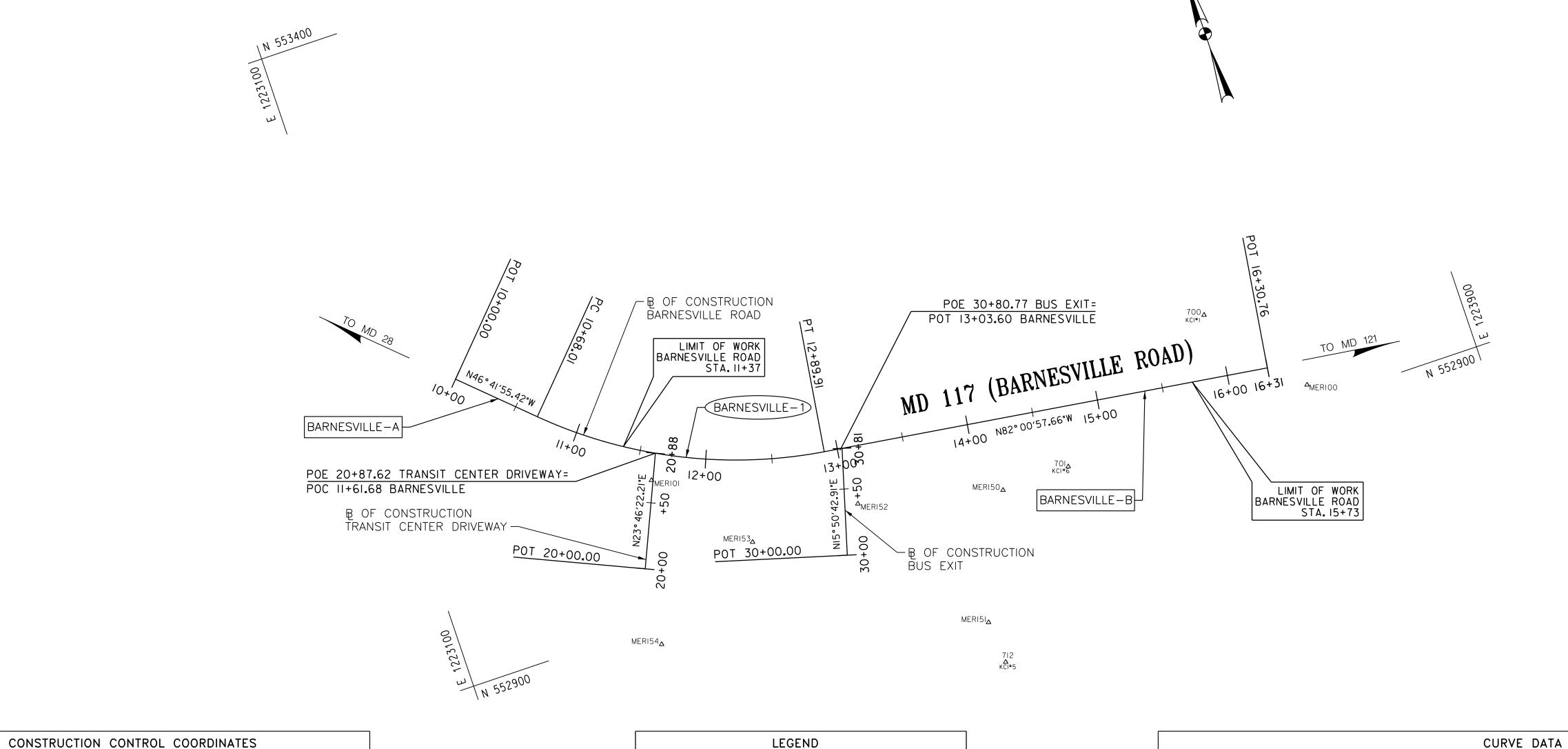


				DPS APPROVAL OF STANDARDS AND D PERMISSION. IT DO ADEQUACY OF THE	A SEDIMENT CONTROL OR STORMWAT OES NOT CREATE OR IMPLY ANY RIGI DES NOT RELIEVE THE DESIGN ENGINE DRAINAGE DESIGN AS IT AFFECTS UP	TER MANAGEMENT PLAN IS FOR DEMO HT TO DIVERT OR CONCENTRATE RUN ER OR OTHER RESPONSIBLE PERSON PHILL OR DOWNHILL PROPERTIES
				MONTGOMERY COUNT DEPARTMENT OF TRANSPO GAITHERSBURG, MARYL	RTATION	INDE
				RECOMMENDED FOR APPROVAL		
				Chief, Transportation Planning and Design Section APPROVED	Date	E
				Chief, Division of Transportation Engineering	Date	SCALE : NTS
,	REVISION	DATE	RY	Designed by: PHD Drawn by: JDG	Checked by:JAG	Project No. : 509337

INDEX OF SHEETS, LEGEND, AND ABBREVIATIONS

BOYDS TRANSIT IMPROVEMENTS

OCTOBER 2019
SHEET _____2 of ____17___



LIN	LINE DATA							
LINE	LENGTH	BEARING						
BARNESVILLE-A	68.00'	N 46° 41' 55.42" W						
BARNESVILLE-B	340.85	N 82° 00' 57.66" W						
TRANSIT CENTER DRIVEWAY	87.62'	N 23° 46' 22.21" E						
BUS EXIT	80.77	N 15° 50' 42.91" E						

BARNESVILLE-1 35°19' 02.24" LT 15°54' 55.78" 360.00' 221.91' 114.60' 17.80' 552,998.74 1,223,294.21

Dc

POINT CURVE		DESCRIPTION	NORTH	EAST		
	₽ CONSTR	RUCTION MD 117 (BAR	NESVILLE ROAD))		
1		POB STA. 10+00.00	553,123.98	1,223,161.32		
2	BARNESVILLE-1	PC STA. 10+68.00	553,077.34	1,223,210.81		
3	BARNESVILLE-1	PI STA. 11+82.61	552,998.74	1,223,294.21		
4	BARNESVILLE-1	PT STA. 12+89.91	552,982.82	1,223,407.71		
5		POE STA. 16+30.76	552,935.48	1,223,745.25		
	₽ CONS	TRUCTION TRANSIT CENTER DRIVEWAY				
6		POB STA. 20+00.00	552,942.45	1,223,251.21		
7		POE STA. 20+87.62	553,022.64	1,223,286.53		
		₽ CONSTRUCTION BUS				
8		POB STA. 30+00.00	552,903.22	1,223,399.21		
9		POE STA. 30+80.77	552,980.92	1,223,421.26		

TRAVERSE	NORTH	EAST	ELEVATION
MER100	552,913.78	1,223,769.59	401.84
MER101	553,004.33	1,223,277.12	429.05
MER150	552,912.07	1,223,526.45	418.17
MER151	552,820.98	1,223,484.05	422.28
MER152	552,937.51	1,223,419.19	431.62
MER153	552,935.49	1,223,334.61	429.90
MER154	552,884.43	1,223,244.72	423.98
KCI#1/700	552,988.68	1,223,712.71	404.68
KCI#5/712	552,788.42	1,223,486.78	421.22
KCI#6/701	552,913.13	1,223,578.80	413.62

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ENGINEER UNDER THE LAWS OF THE STATE
OF MARYLAND, LICENSE NO.

EXPIRATION DATE:



HORTIZONTAL LINE ID NUMBER

HORTIZONTAL CURVE ID NUMBER

X-A

X-1

				MONTGOMERY COUNTY DEPARTMENT OF TRANSPOR GAITHERSBURG, MARYLA	RTATION	
				RECOMMENDED FOR APPROVAL		
				Chief, Transportation Planning and Design Section APPROVED	Date	
				Chief, Division of Transportation Engineering	Date	SCALE
NO	REVISION	DATE	RY	Designed by: PHD Drown by: KHL	Checked by: <u>JAG</u>	Project

DELTA

CURVE

GS-01 GEOMETRIC LAYOUT SHEET

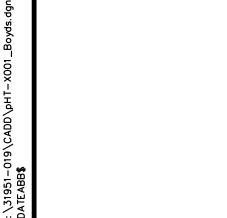
PI NORTH

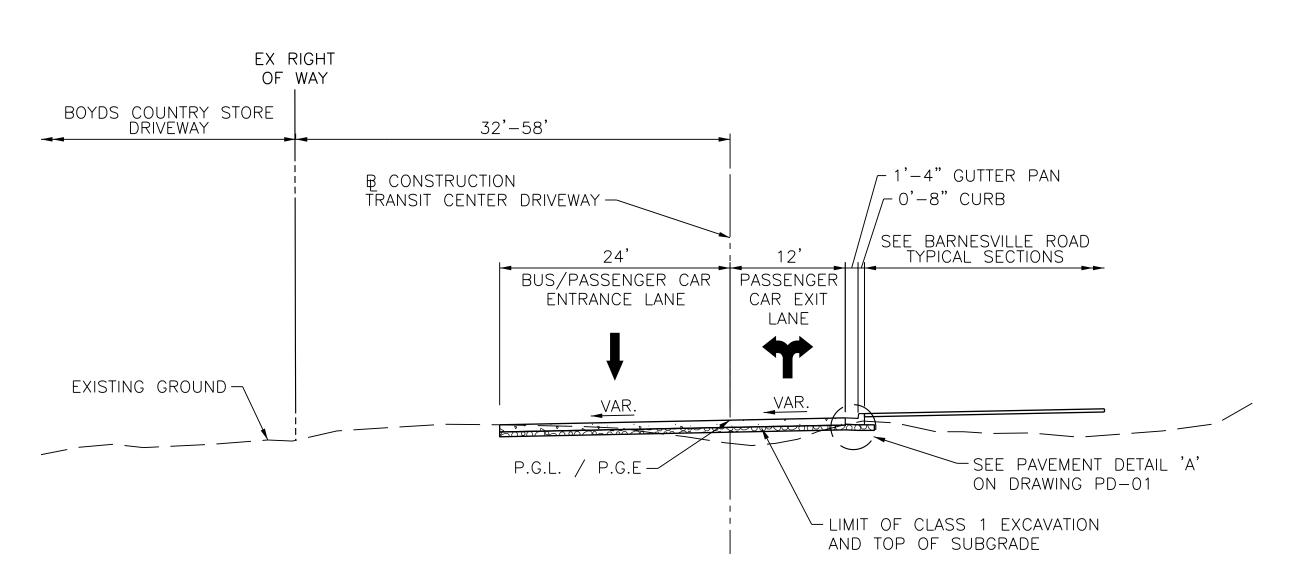
PI EAST

BOYDS TRANSIT IMPROVEMENTS

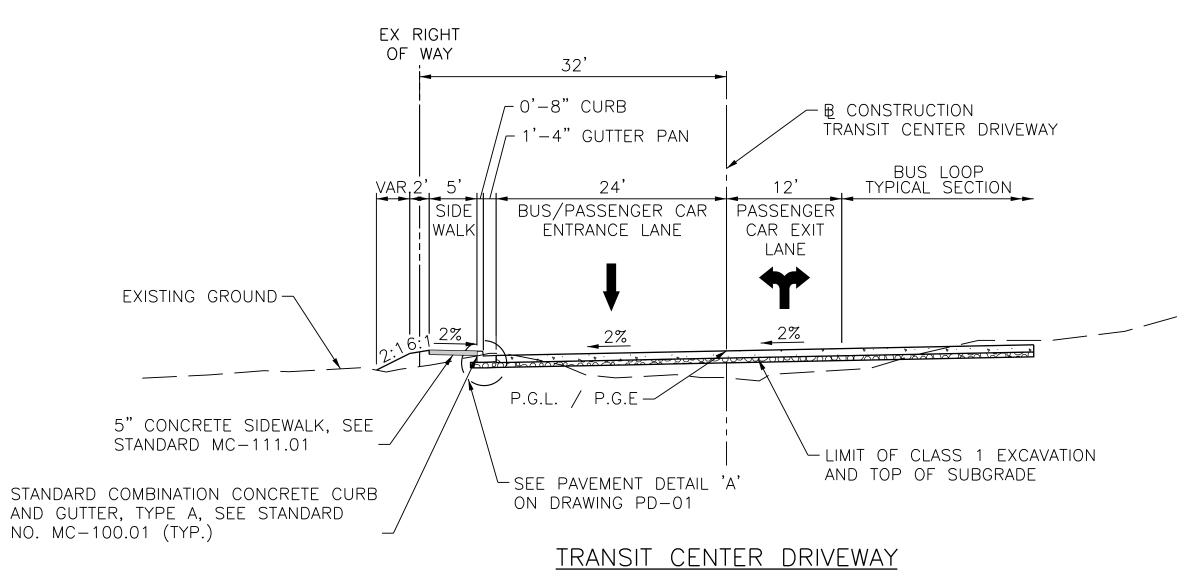
ALE : 1" = 50' OCTOBER 2019

roject No. : 509337 SHEET 3 of 17

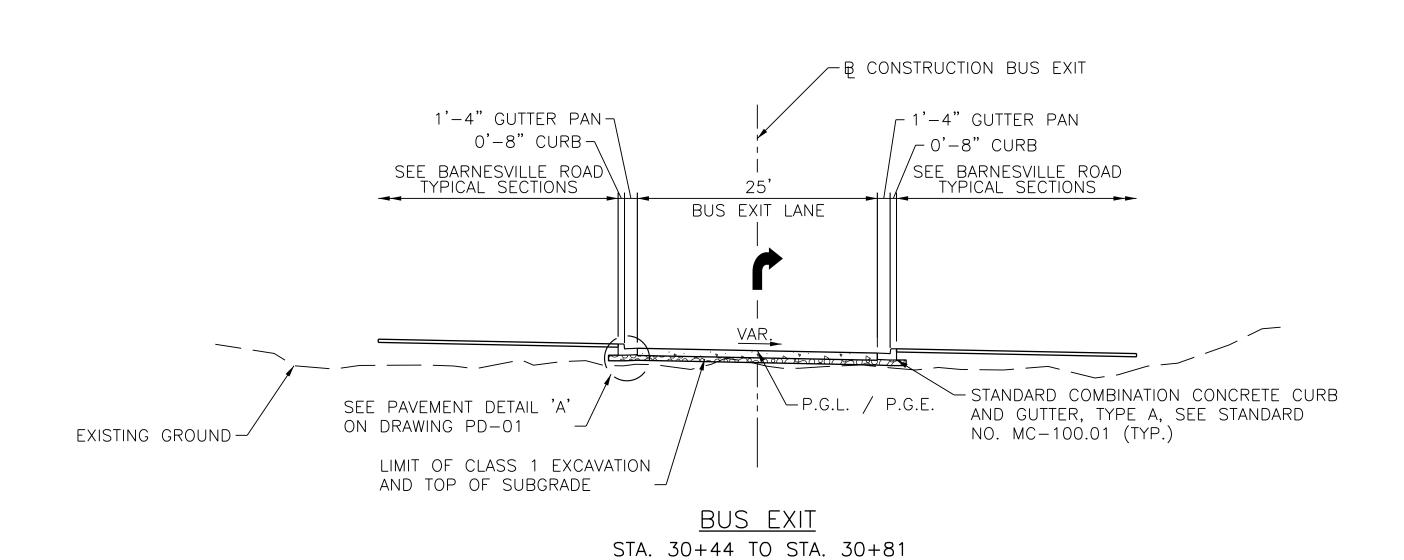




TRANSIT CENTER DRIVEWAY STA. 20+45 TO STA. 20+88



STA. 20+00 TO STA. 20+45



CONSTRUCTION BUS EXIT ┌ 1'-4" GUTTER PAN _ 0'-8" CURB BUS LOOP TYPICAL SECTION PARKING LOT PLANTING ISLAND VARIES BUS EXIT LANE SEE SECTION B-B EXISTING GROUND character and the second of th LIMIT OF CLASS 1 EXCAVATION AND TOP OF SUBGRADE -- STANDARD COMBINATION CONCRETE CURB AND GUTTER, TYPE A, SEE STANDARD NO. MC-100.01 (TYP.) P.G.L. / P.G.E.-SEE PAVEMENT DETAIL 'A' ON DRAWING PD-01 **BUS EXIT** STA. 30+00 TO STA. 30+44

NOTES: 1. SLOPE TREATMENT: FOR SLOPES 2:1, PLACE 2" TOPSOIL. FOR SLOPES FLATTER THAN 2:1, PLACE 4" TOPSOIL. 2. SEE ROADWAY PLANS FOR LIMITS OF CURB AND GUTTER

> PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO._ EXPIRATION DATE:_



				MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND	N	
				RECOMMENDED FOR APPROVAL		
				Chief, Transportation Planning and Design Section APPROVED	Date Date	
				Chief, Division of Transportation Engineering	 Date	SC
NO.	REVISION	DATE	BY	Designed by: <u>PHD</u> Drawn by: <u>KHL</u> Checked	by: <u>JAG</u>	Pr

HT-01 TYPICAL SECTIONS

BOYDS TRANSIT **IMPROVEMENTS**

SCALE : 1" = 10"OCTOBER 2019 SHEET _____4 of ____17___ Project No. : 509337



PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO.__ EXPIRATION DATE:__



			MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND	
			RECOMMENDED FOR APPROVAL	
			Chief, Transportation Planning and Design Section Date APPROVED	
			Chief, Division of Transportation Engineering Date	
REVISION	DATE	BY	Designed by: PHD Drown by: KHL Checked by: JAG	İ

BOYDS TRANSIT

HT-02 TYPICAL SECTIONS

IMPROVEMENTS

NOTES:

1. SLOPE TREATMENT:
 FOR SLOPES 2:1, PLACE 2" TOPSOIL.
 FOR SLOPES FLATTER THAN 2:1, PLACE 4" TOPSOIL.

2. SEE ROADWAY PLANS FOR LIMITS OF CURB AND GUTTER

SECTION B-B PARKING LOT TYPICAL SECTION

EX RIGHT OF WAY

┌ 0'-8" CURB

┌1'-4" GUTTER PAN

19'

SEE BARNESVILLE ROAD TYPICAL SECTIONS PARKING LANES PLANTING PARKING LANES THRU LANE THRU LANE ISLAND - SEE PAVEMENT DETAIL 'D' STANDARD COMBINATION CONCRETE CURB ON DRAWING PD-01 AND GUTTER, TYPE A, SEE STANDARD NO. MC-100.01 (TYP.) AND TOP OF SUBGRADE LIMIT OF CLASS 1 EXCAVATION

ON DRAWING PD-01

-SEE PAVEMENT DETAIL 'D'

0'-8" CURB \ 7'-12'

LIMIT OF CLASS 1 EXCAVATION

AND TOP OF SUBGRADE

__O'_-8" CURB 1'-4" GUTTER PAN ¬\ 0'-8" CURB \ 1'-4" GUTTER PAN $_{\sim}$ ┌ 1'-4" GUTTER PAN 15' \\2' VARIES ;

SECTION A-A

BUS LOOP TYPICAL SECTION

and the second s -5" CONCRETE SIDEWALK, SEE STANDARD NO. MC-111.01 - STANDARD COMBINATION CONCRETE CURB

SEE PAVEMENT DETAIL 'A'
ON DRAWING PD-01 -

LIMIT OF CLASS 1 EXCAVATION AND TOP OF SUBGRADE -

┌ 0'-8" CURB

SEE BARNESVILLE ROAD TYPICAL SECTIONS

┌1'-4" GUTTER PAN

PASS. CARPASS. CAR

ENTRANCE LOADING LANE

VARIES 2', VAR. BUS SIDE WALK

┌ 1'-4" GUTTER PAN _ 0'-8" CURB

EX RIGHT

45'±

EX RIGHT OF WAY

EXISTING GROUND

OF WAY

EXISTING GROUND -

AND GUTTER, TYPE A, SEE STANDARD

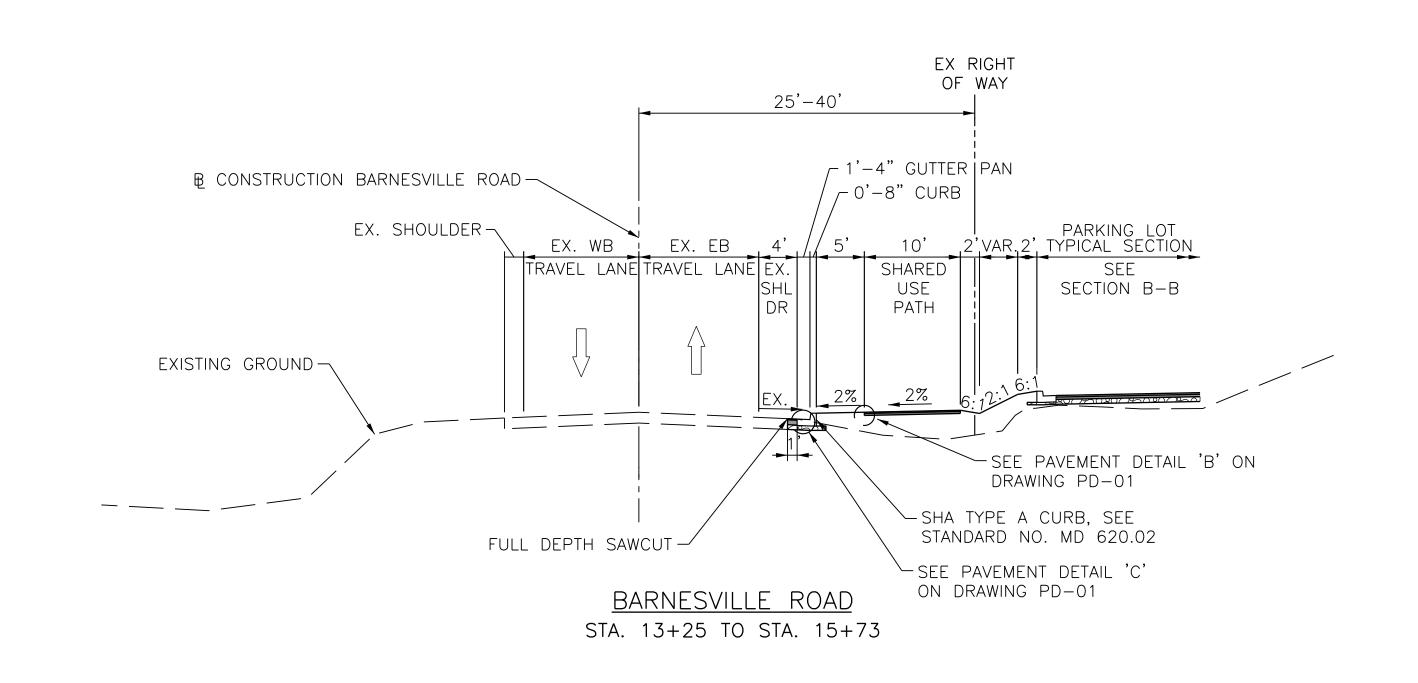
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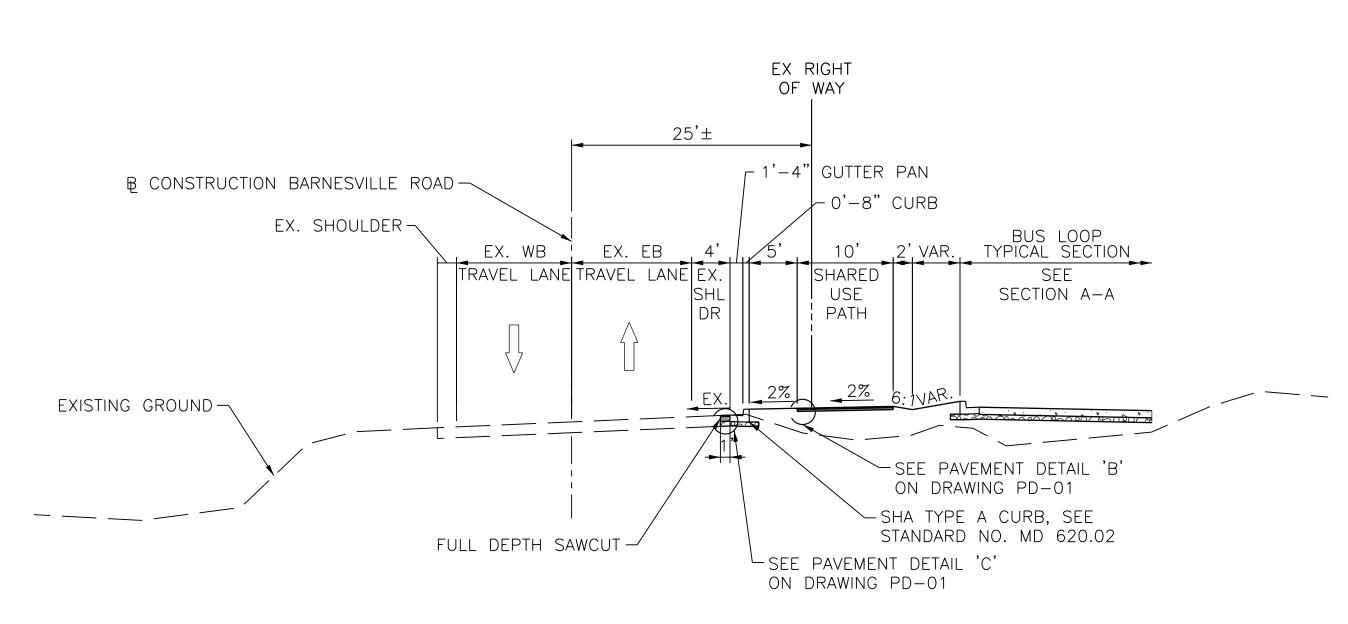
Project No. : 509337

SCALE: 1" = 10'

OCTOBER 2019 SHEET <u>5</u> of <u>17</u>







BARNESVILLE ROAD STA. 11+88 TO STA. 12+75

NOTES: 1. SLOPE TREATMENT: FOR SLOPES 2:1, PLACE 2" TOPSOIL.
FOR SLOPES FLATTER THAN 2:1, PLACE 4" TOPSOIL.
2. SEE ROADWAY PLANS FOR LIMITS OF CURB AND GUTTER

> 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 Whitman, Requardt & Associates, LL 801 South Caroline Street, Baltimore, Maryland 2123

PROFESSIONAL CERTIFICATION.

OF MARYLAND, LICENSE NO.

EXPIRATION DATE:_

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	NO.	REVISION	DATE	Ε
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DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND RECOMMENDED FOR APPROVAL Chief, Transportation Planning and Design Section APPROVED

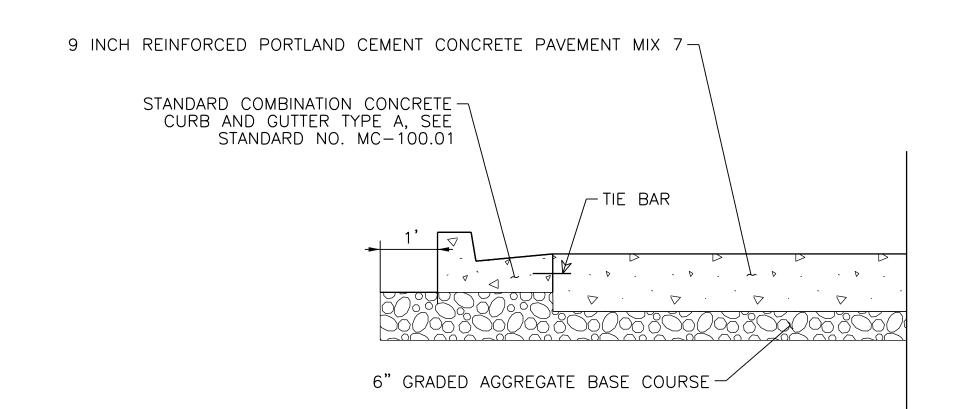
MONTGOMERY COUNTY

HT-03 TYPICAL SECTIONS

BOYDS TRANSIT **IMPROVEMENTS**

SCALE : 1" = 10' OCTOBER 2019 SHEET <u>6</u> of <u>17</u> Project No. : <u>509337</u>

Chief, Division of Transportation Engineering Designed by: PHD Drawn by: KHL Checked by: ____JAG____



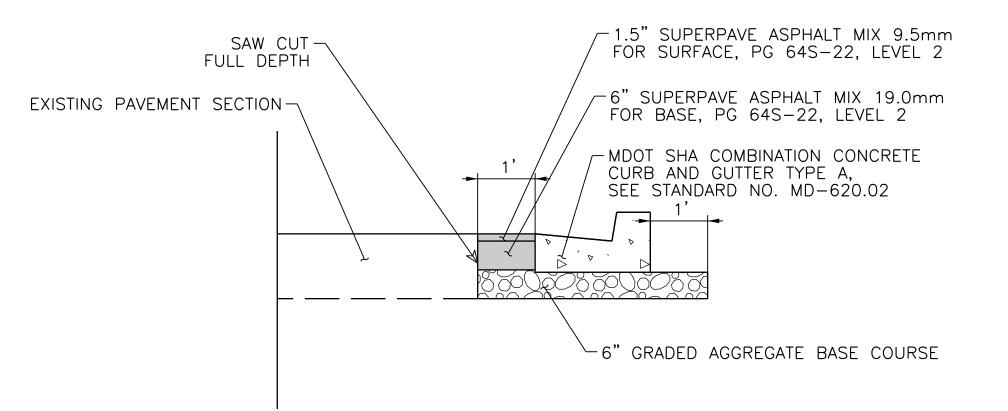
PAVEMENT DETAIL 'A'

NOT TO SCALE

1.5" SURFACE COURSE—

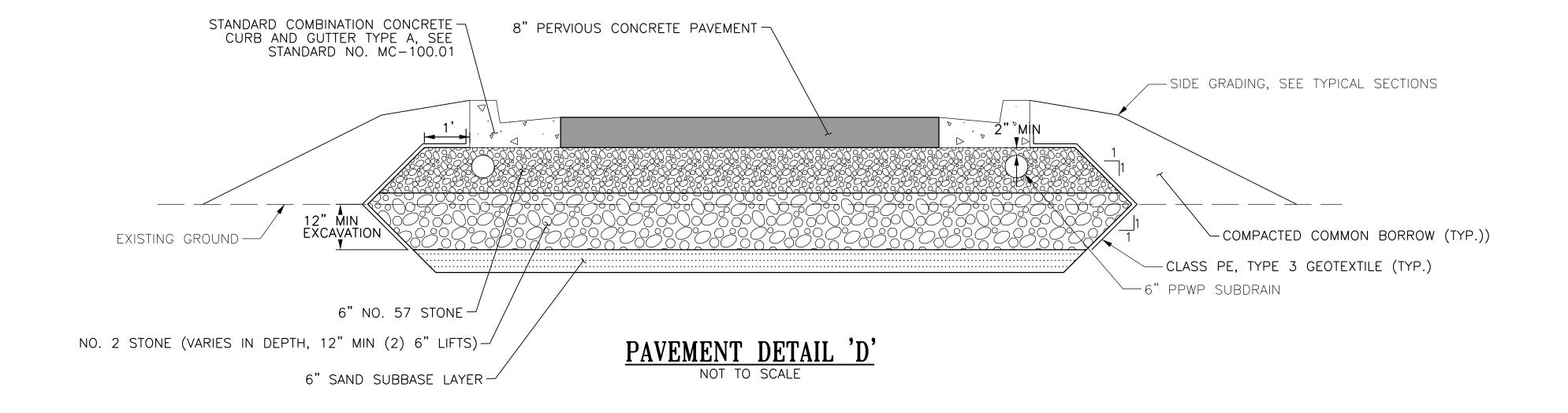
2.5" BITUMINOUS CONCRETE BASE COURSE—

4" GRADED AGGREGATE BASE COURSE—



PAVEMENT DETAIL 'B'

PAVEMENT DETAIL 'C'



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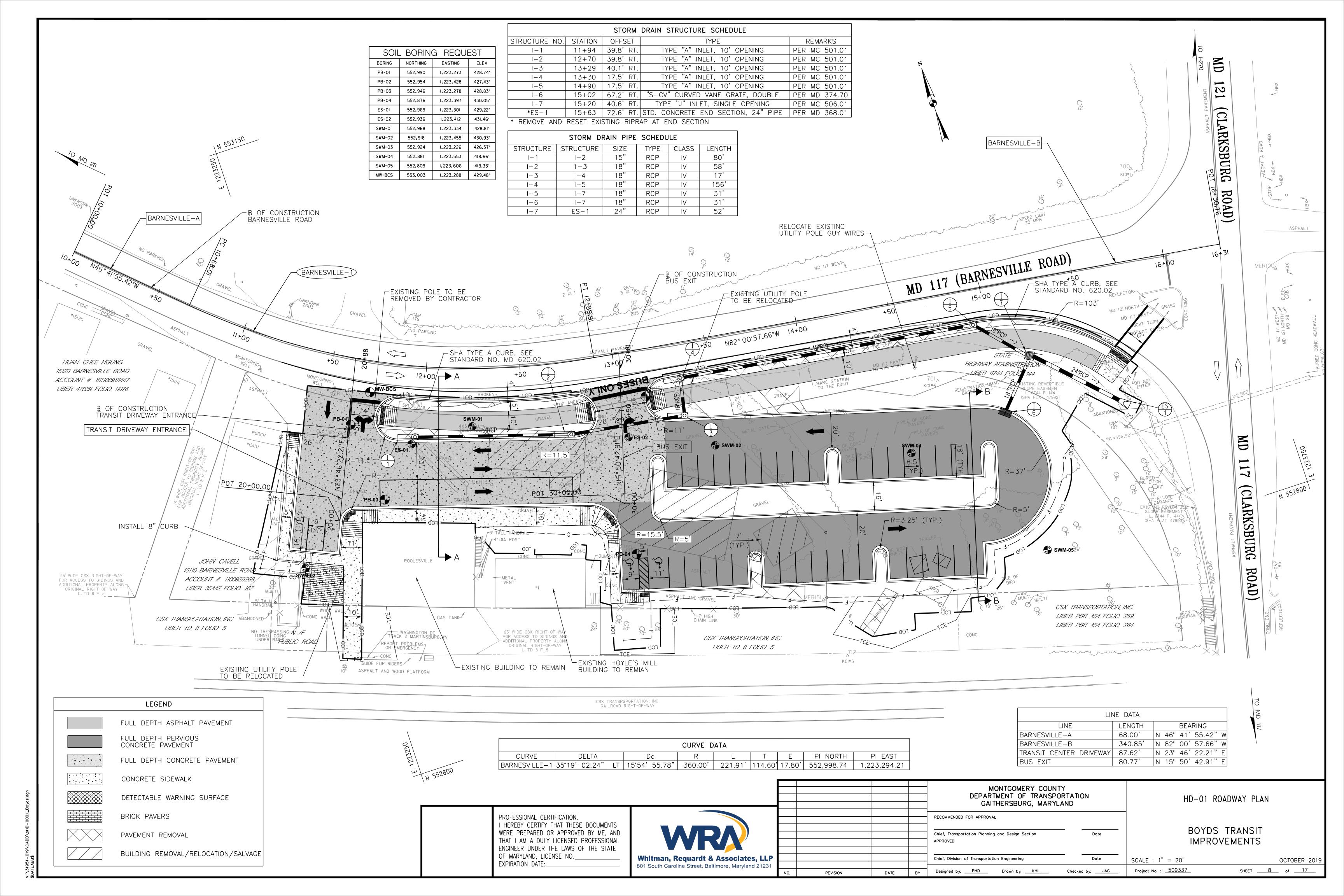
				MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND		
				RECOMMENDED FOR APPROVAL		
				Chief, Transportation Planning and Design Section APPROVED	Date	
				Chief, Division of Transportation Engineering	 Date	COALE
_				one, prison or nonsportation Engineering		SCALE
	REVISION	DATE	BY	Designed by: PHD Drawn by: KHL	Checked by:JAG	Project

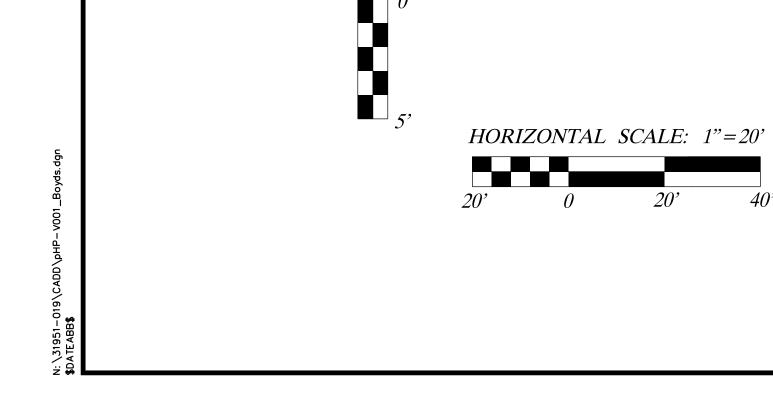
PD-01 PAVEMENT DETAILS

BOYDS TRANSIT IMPROVEMENTS

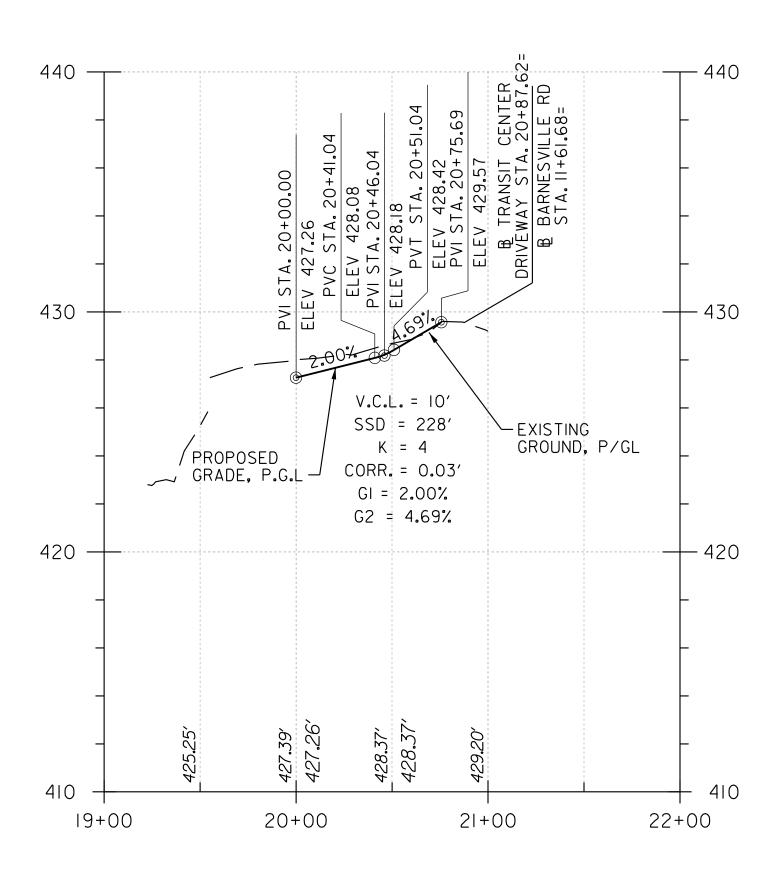
ALE : 1" = 10' OCTOBER 2019

oject No. : 509337 SHEET 7 of 17

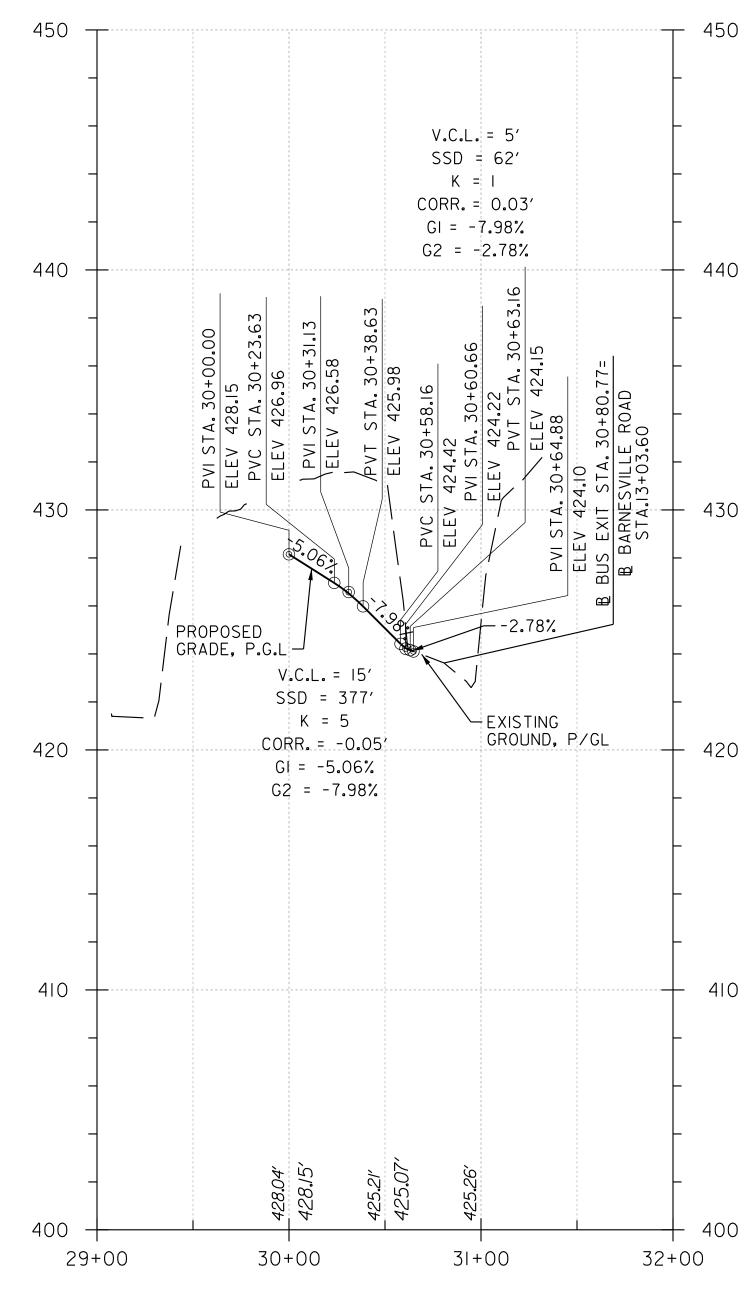




VERTICAL SCALE: 1"=5"







BUS EXIT

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ENGINEER UNDER THE LAWS OF THE STATE
OF MARYLAND, LICENSE NO.

EXPIRATION DATE: EXPIRATION DATE:_



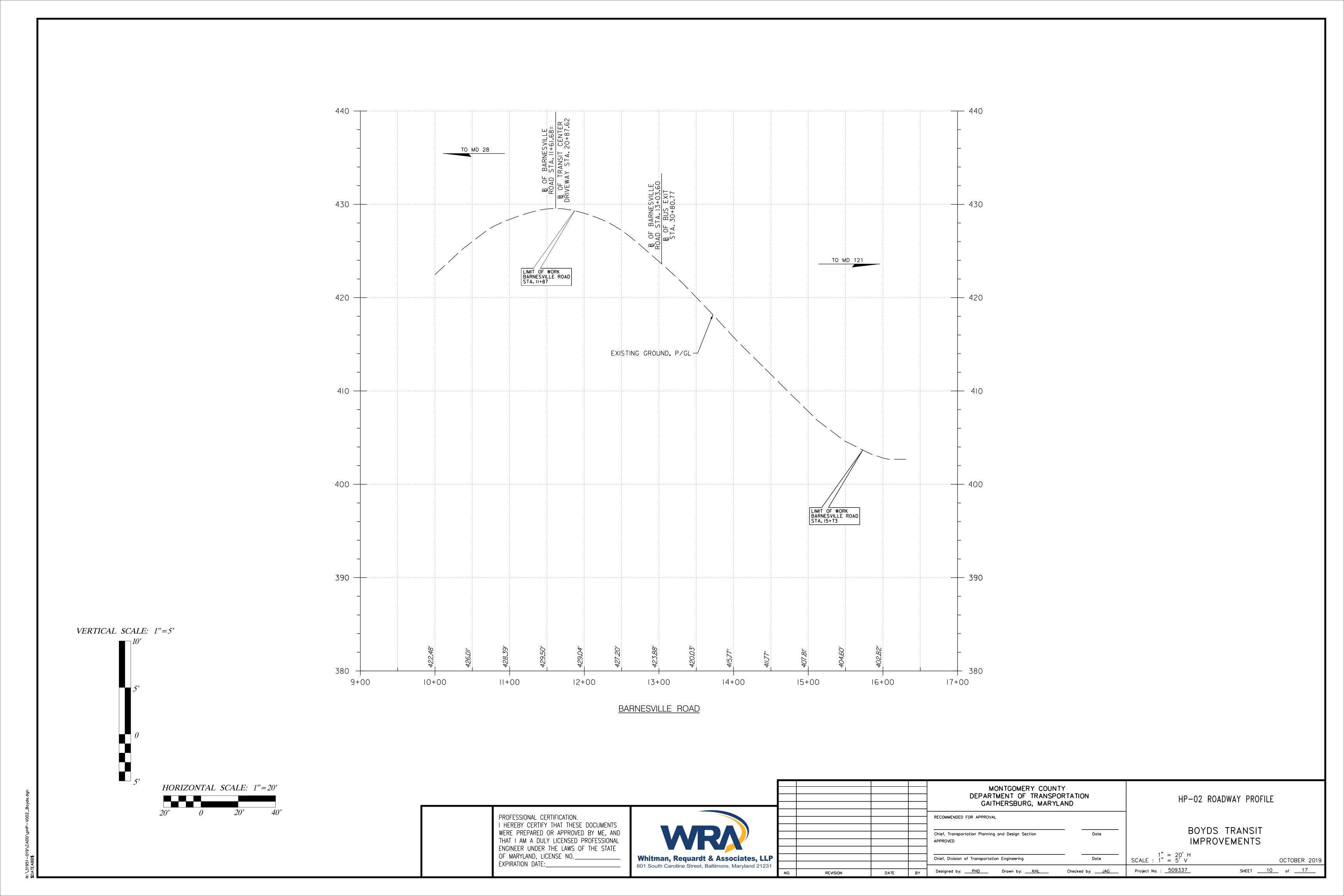
				MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND	
				RECOMMENDED FOR APPROVAL	
				Chief, Transportation Planning and Design Section Date APPROVED	_
				Chief, Division of Transportation Engineering Date	_
NO.	REVISION	DATE	BY	Designed by: <u>PHD</u> Drawn by: <u>KHL</u> Checked by: <u>JAG</u>	_

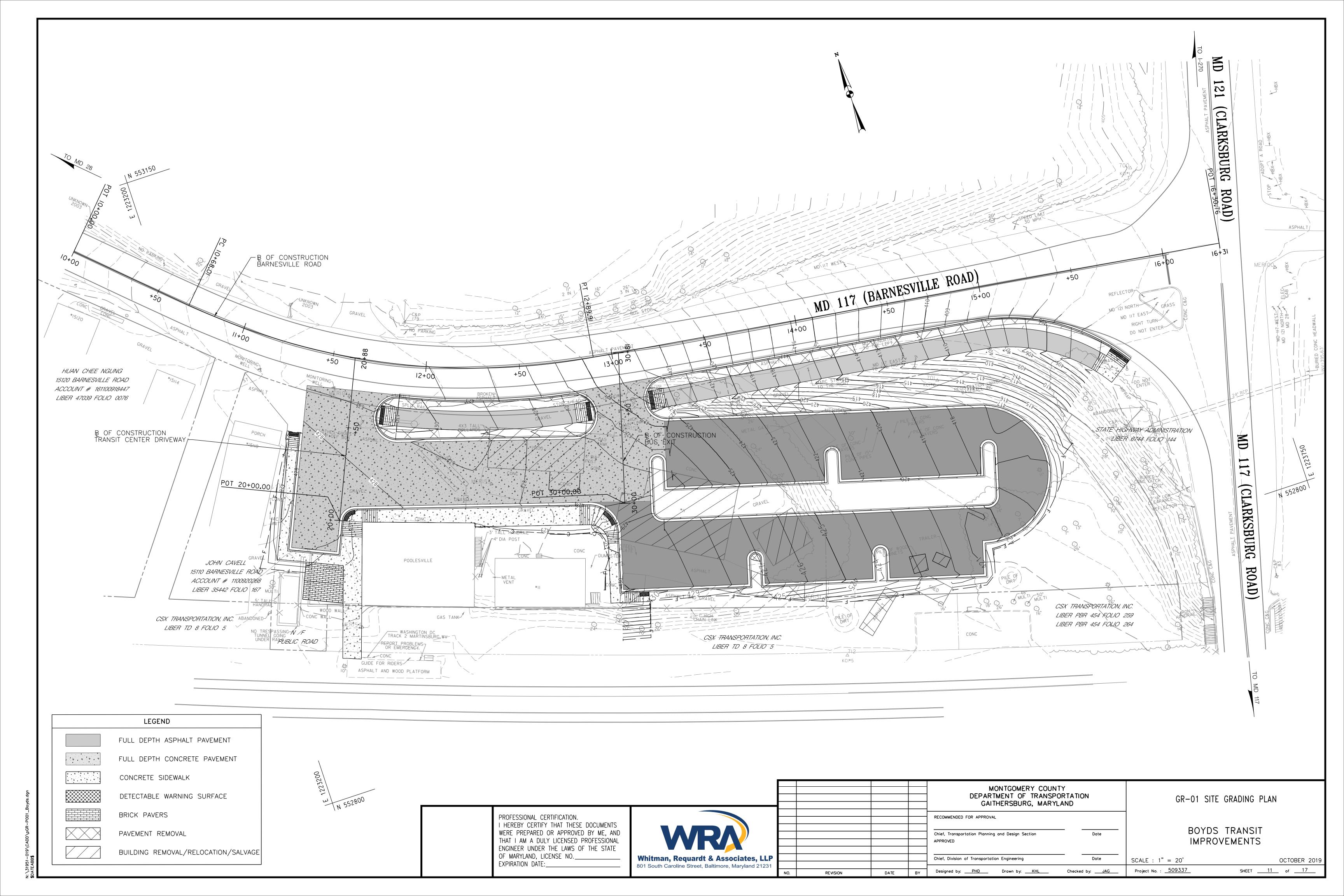
HP-01 ROADWAY PROFILE

BOYDS TRANSIT **IMPROVEMENTS**

1" = 20' H SCALE : 1" = 5' V OCTOBER 2019 SHEET <u>9</u> of <u>17</u>

Project No. : <u>509337</u>





TEMPORARY TRAFFIC CONTROL REQUIREMENTS

- I. THE PERMITTEE SHALL REFER TO THE ATTACHED TEMPORARY TRAFFIC CONTROL PLAN (TTCP) DRAWINGS TO SELECT THE APPROPRIATE WORK ZONE TEMPORARY TRAFFIC CONTROLS FOR EACH PHASE OF CONSTRUCTION. WORK ZONE SITUATIONS WHICH ARE NOT ADDRESSED IN THE ATTACHED TTCP SHALL CONFORM TO THE GUIDELINES SET FORTH IN THE MARYLAND MANUAL ON TRAFFIC CONTROL DEVICES. MOST RECENT EDITION. AND MARYLAND BOOK OF STANDARDS FOR HIGHWAYS. INCIDENTAL STRUCTURES. & TRAFFIC CONTROL APPLICATIONS.
- 2. ANY WORK WITHIN THE TRAVELED PORTION OF ROADWAYS SHALL BE RESTRICTED TO THE HOURS OF 9:00 AM TO 3:00 PM, MONDAY THROUGH FRIDAY, WORK ON HOLIDAYS AND WEEKENDS SHALL NOT OCCUR UNLESS AN EXCEPTION IS GRANTED IN WRITING BY THE COUNTY'S DPS INSPECTOR. REFER TO SP 104-01 FOR DETAILS ON LANE CLOSURE TIMINGS.
- 3. CONSTRUCTION ACTIVITY. LOADING OR UNLOADING OF EQUIPMENT SHALL NOT BLOCK ANY TRAFFIC LANE OTHER THAN THOSE DELINEATED WITHIN THE WORK ZONE.
- 4. EXCLUSIVE OF EMERGENCY WORK, THE PERMITTEE SHALL CONTACT OCCUPANTS OF ALL ADJOINING PROPERTIES AND INFORM THEM OF THE SCOPE AND THE TIMING OF CONSTRUCTION. A MINIMUM OF 48 HOURS NOTIFICATION SHALL BE REQUIRED PRIOR TO THE COMMENCEMENT OF ANY ACTIVITY ON THE SITE.
- 5. ACCESS SHALL BE MAINTAINED TO ALL DRIVEWAYS UNLESS PERMISSION FOR CLOSURE IS GRANTED BY THE PROPERTY OWNER/MANAGER. HOWEVER, ACCESSIBILITY FOR EMERGENCY VEHICLES SHALL BE MAINTAINED AT ALL TIMES.
- 6. IF ANY TRAFFIC CONTROL SIGNS ARE TO BE PLACED ALONG A MSHA ROADWAY OR WITHIN THE LIMITS OF AN INCORPORATED AREA. THE PERMITTEE SHALL NOTIFY THE APPROPRIATE AGENCY OF SIGNAGE TO BE INSTALLED.
- 7. NO HAZARDOUS MATERIALS SHALL BE STORED WITHIN PUBLIC RIGHT-OF-WAY. NO MATERIALS OR EQUIPMENT SHALL BE STORED ON THE ROADWAY SURFACE OR SIDEWALK DURING NON-WORK PERIODS.
- 8. ALL EXISTING TRAFFIC CONTROL DEVICES (I.E. SIGNS, MARKING, ETC.) THAT MUST BE REMOVED SHALL BE REPLACED IN THEIR PROPER LOCATION PRIOR TO THE COMPLETION OF THE PROJECT. COST FOR THE REPLACEMENT AND/OR REPAIR OF DEVICES DAMAGED AS A RESULT OF THE PROJECT SHALL BE ASSESSED TO THE PERMITTEE.
- 9. FOR MERGING. SHIFTING. SHOULDER TAPERS. THE MAXIMUM SPACING BETWEEN DEVICES EQUALS THE POSTED SPEED IN FEET.
- IO. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MOST RECENT EDITION OF THE MUTCD. ALL SIGNS. TRAFFIC DRUMS AND CONES SHALL BE FULLY REFLECTORIZED WITH HIGH INTENSITY, REFLECTIVE SHEETING AS PER THE MUTCD.
- II. PROVISION SHALL BE MADE FOR SAFE MAINTENANCE OF PEDESTRIAN AND BICYCLE TRAFFIC, SUBJECT TO APPROVAL OF THE COUNTY'S DPS INSPECTOR. AT LEAST ONE 10-FOOT TRAVEL LANE SHALL BE AVAILABLE FOR TRAFFIC AT ALL TIMES.
- 12. ALL WARNING SIGNS, UNLESS OTHERWISE SPECIFIED, SHALL BE A MINIMUM OF 48" X 48", BLACK SYMBOL OR LEGEND ON ORANGE BACKGROUND AND DIAMOND SHAPED. ALL TEMPORARY TRAFFIC SIGNS SHALL BE PLACED ON PORTABLE SUPPORTS ("WINDMASTERS") AND SHALL BE REMOVED DURING NON-APPLICABLE PERIODS. ALL PORTABLE SIGNS SHALL BE MOUNTED A MINIMUM OF ONE (1) FOOT ABOVE THE LEVEL OF THE ROADWAY, WITH HIGHER MOUNTING HEIGHTS DESIRABLE,
- 13. WHEN PAVEMENT MARKINGS HAVE BEEN OBLITERATED BY THE WORK ACTIVITY, THE PERMITTEE SHALL INSTALL ANY CRITICAL INTERIM PAVEMENT MARKINGS PRIOR TO THE END OF THE WORKDAY AS SPECIFIED BY THE COUNTY'S DPS INSPECTOR AND/OR THE TRAFFIC ENGINEERING AND OPERATIONS SECTION. ON ROAD SECTIONS THAT ARE NOT SCHEDULED TO BE OVERLAID. ALL TEMPORARY PAVEMENT MARKINGS SHALL BE (REMOVABLE) DETOUR GRADE MARKING TAPE. ANY CONFLICTING MARKINGS, WHICH NEED TO BE TEMPORARILY REMOVED, ARE TO BE MASKED USING "3M REMOVABLE BLACK LANE MASK" OR AN APPROVED EQUAL. ON ROAD SECTIONS THAT ARE TO BE OVERLAID, TEMPORARY MARKINGS CAN BE EITHER TAPE OR PAINT. ANY CONFLICTING MARKINGS SHOULD BE REMOVED WITH A PAVEMENT GRINDER.
- 14. CONTRACTOR SHALL INSTALL APPROPRIATE TEMPORARY TRAFFIC CONTROL DEVICES (I.E. CHAIN LINK FENCE/PLASTIC DRUMS) TO PROTECT MOTORISTS AND/OR PEDESTRIANS FROM HAZARDS WITHIN THE WORK AREA DURING NON-WORKING HOURS.
- 15. ALL TCP PLAN SHEETS SHOW SIGNING AND ROADWAY CONDITIONS DURING NON-WORK HOURS. THE CONTRACTOR SHALL FOLLOW STANDARDS AS LISTED UNDER SEQUENCE OF CONSTRUCTION DURING WORK HOURS.
- 16. DURING FLAGGING OPERATIONS, THE TRAVEL LANE NEXT TO THE WORK AREA SHALL BE SEPERATED BY DRUMS AND SPACED AS PER THE MARYLAND BOOK OF STANDARDS FOR THE ENTIRE DURATION OF THE PROJECT.
- 17. THE CONTRACTOR SHALL COVER THE WORK AREA SEGMENT WITH STEEL PLATES AND PLACE APPROPRIATE ADVANCE WARNING SIGNS FOR STEEL PLATES BEFORE OPENING ALL TRAVEL LANES TO TRAFFIC AT THE END OF WORK DAY FOR ENTIRE DURATION OF THE PROJECT.
- 18. ALL TRAFFIC CONTROL DEVICES AND STANDARDS SHALL CONFORM TO THE 30 MPH POSTED SPEED LIMIT AND 35 MPH DESIGN SPEED WITHIN THE ENTIRE PROJECT LIMITS.

FLAGGING OPERATIONS

- I. WHEN POSSIBLE, TWO-WAY TRAFFIC SHALL BE MAINTAINED, OTHERWISE, FLAGGERS SHALL BE USED TO CONTROL TRAFFIC.
- 2. FLAGGERS SHALL BE MARYLAND STATE HIGHWAY ADMINISTRATION OR AATSA APPROVED FLAGGERS AND SHALL BE USED AT THE DIRECTION OF THE COUNTY INSPECTOR. FLAGGERS SHALL USE STOP/SLOW PADDLES TO DIRECT TRAFFIC.
- 3. RADIO COMMUNICATION SHALL BE REQUIRED BETWEEN FLAGGERS AT THE DISCRETION OF THE COUNTY INSPECTOR OR UNDER THE FOLLOWING CONDITIONS:
- * IF THE FLAGGERS CANNOT SEE EACH OTHER * IF THE LANE CLOSURE EXCEEDS 200 FEET

PAVEMENT DROP-OFF

- I. ANY EXCAVATION(S) IN THE ROADWAY SHALL BE PAVED TO LEVEL GRADE OR PLATED AND THE ROADWAY REOPENED TO ITS FULL CROSS-SECTION PRIOR TO THE END OF EACH WORKDAY. "STEEL PLATES AHEAD" (W21-9) SIGNS SHALL BE PLACED APPROXIMATELY 250 FEET IN ADVANCE OF ANY STEEL PLATE. ANY EXCAVATIONS IN THE SIDEWALK SHALL BE BACKFILLED OR PLATED PRIOR TO THE END OF EACH WORKDAY AND SIDEWALK REOPENED TO ITS FULL CROSS SECTION.
- 2. TRAFFIC SHALL NOT BE PERMITTED WITHIN TEN (10) FEET OF ANY EXCAVATION THAT RESULTS IN A VERTICAL DROP-OFF OF MORE THAN FIVE (5) INCHES IN THE LEVEL OF PAVEMENT DURING NON-WORKING HOURS UNLESS PROTECTED BY TEMPORARY CONCRETE BARRIERS OR RAMPED WITH AGGREGATE MATERIAL AT A 3:1 OR FLATTER SLOPE FROM THE EDGE OF PAVEMENT. WHEN RAMPING IS UTILIZED. TTC DRUMS SHALL BE POSITIONED ADJACENT TO THE EDGE OF THE WORK AREA ON THE TRAFFIC SIDE OF THE SLOPE.
- 3. TRAFFIC SHALL NOT BE PERMITTED WITHIN TWO (2) FEET OF ANY EXCAVATION THAT RESULTS IN A VERTICAL DROP-OFF OF MORE THAN TWO (2) INCHES BUT NO MORE THAN FIVE (5) INCHES IN THE LEVEL OF PAVEMENT DURING NON-WORKING HOURS UNLESS EITHER RAMPED WITH AGGREGATE MATERIAL AT A 4:1 OR FLATTER SLOPE, PROVIDED WITH AN ABUTTING WEDGE OF BITUMINOUS MATERIAL AT A 3:1 OR FLATTER SLOPE OR PROTECTED BY TRAFFIC DRUMS.

GENERAL NOTES (CONT.)

PARKING RESTRICTIONS

- I. THE PERMITTEE SHALL CONTACT THE MCDOT PARKING OPERATIONS SECTION 240-777-8740 A MINIMUM OF 48 HOURS IN ADVANCE TO ARRANGE FOR PAYMENT AND THE BAGGING OF ALL PARKING METERS WITHIN THE WORK ZONE. METER NUMBERS AND LOCATION MUST BE SPECIFIED.
- 2. BAGGING AGREEMENT SHALL BE KEPT AVAILABLE BY THE CONTRACTOR/PERMITTEE FOR INSPECTION BY THE DPS INSPECTOR AT ANYTIME. PROHIBITING THE USE OF METERED SPACES BY THE CONTRACTOR/PERMITTEE WITHOUT RECEIPT OF THE "BAGGING AGREEMENT" IS SUBJECT TO FINES.
- 3. CONTRACTOR/PERMITTEE SHALL COORDINATE WITH PARKING OPERATIONS SECTION TO MAKE PAYMENT FOR ADDITIONAL BAGGING AND REMOVAL WHENEVER MORE SPACES ARE TEMPORARY REQUIRED.
- 4. ALL EXISTING MONTGOMERY COUNTY "PARKING" SIGNS SHALL BE COVERED OR BAGGED BY THE CONTRACTOR/PERMITTEE FOR THE DURATION OF THE WORK AND A TEMPORARY "NO PARKING ANYTIME" (R7-4) SIGN SHALL BE INSTALLED IN THE AFFECTED PARKING SPACE(S). EXISTING MONTGOMERY COUNTY PARKING METER PIPES/POLES SHALL NOT BE USED FOR TEMPORARY INSTALLATION.
- 5. THE CONTRACTOR/PERMITTEE SHALL RESTORE ALL AFFECTED MONTGOMERY COUNTY PARKING SIGNAGE TO THEIR PREVIOUS CONDITION.

INSPECTOR AUTHORITY

- I. THE COUNTY'S DEPARTMENT OF PERMITTING SERVICES (DPS) INSPECTOR HAS THE AUTHORITY TO MODIFY THE TTCP AS DEEMED NECESSARY. THE INSPECTOR HAS THE AUTHORITY TO ORDER THE PERMITTEE TO STOP WORK AND VACATE THE PUBLIC RIGHT-OF-WAY IF THE TTCP IS NOT COMPLIED WITH.
- 2. THE IMPLEMENTATION DATE AND CONTINUANCE OF WORK ACTIVITIES MAY BE ALTERED AT THE DISCRETION OF THE COUNTY'S DPS INSPECTOR IN THE EVENT OF CONFLICTS WITH PREVIOUSLY APPROVED OR EMERGENCY ACTIVITIES.

MISCELLANEOUS

- I. THE PERMITTEE WILL BE SOLELY RESPONSIBLE FOR ALL ACCIDENTS AND/OR DAMAGE TO PERSONS AND/OR PROPERTY DAMAGE RESULTING FROM HIS OPERATIONS.
- 2. HAZARDOUS MATERIAL SHALL NOT BE STORED WITHIN PUBLIC RIGHT-OF-WAY. NO MATERIALS OR EQUIPMENT SHALL BE STORED ON THE ROADWAY SURFACE OR SIDEWALK DURING NON-WORKING PERIODS. ALL STORED MATERIALS AND EQUIPMENT SHALL BE SET BACK AT LEAST SIX (6) FEET BEHIND THE CURB ALONG A CLOSED SECTION ROADWAY AND AT LEAST TWELVE (12) FEET FROM THE EDGE OF OPEN SECTION ROADWAY.
- 3. ALL TTC DEVICES SHALL BE REMOVED AS SOON AS PRACTICAL WHEN THEY ARE NO LONGER NEEDED. WHEN WORK IS SUSPENDED FOR SHORT PERIODS OF TIME. TTC DEVICES THAT ARE NO LONGER APPROPRIATE SHALL BE REMOVED OR COVERED.
- 4. AT THE COMPLETION OF WORK ACTIVITIES, CONDITIONS WITHIN THE PUBLIC SPACE SHALL BE FULLY RESTORED TO THOSE THAT EXISTED PRIOR TO THE WORK ACTIVITY.

CONTACT INFORMATION

- I. CONTACT THE MCDOT TRANSPORTATION MANAGEMENT CENTER 240-777-2100 BETWEEN 5:00 AM AND II:00 PM TO INFORM THEM OF TEMPORARY LANE CLOSURES IN THE VICINITY OF ANY TRAFFIC SIGNALS.
- 2. THE PERMITTEE SHALL CONTACT THE TRANSPORTATION SYSTEMS ENGINEERING TEAM AT 240-777-2100 AT LEAST TWO WEEKS IN ADVANCE TO COORDINATE ANY MINOR TRAFFIC SIGNAL WORK. MAJOR TRAFFIC SIGNAL WORK SHALL BE COORDINATED A MINIMUM OF THIRTY (30) DAYS IN ADVANCE OF THE PROJECT. THE PERMITTEE SHALL CONTACT THE MONTGOMERY COUNTY TRAFFIC MANAGEMENT CENTER AT 240-777-2100 A MINIMUM OF 72 HOURS PRIOR TO BEGINNING WORK TO HAVE EXISTING TRAFFIC SIGNAL EQUIPMENT MARKED.
- 3. THE PERMITTEE SHALL CONTACT TRAFFIC ENGINEERING STUDIES SECTION (TES) AT 240-777-6000 AT LEAST TEN (10) WORKING DAYS IN ADVANCE OF THE FINAL PAVING OPERATIONS TO SCHEDULE THE INSTALLATION OF PERMANENT PAVEMENT MARKING AND SIGNS.
- 4. THE PERMITTEE SHALL CONTACT THE DIRECTOR OF THE UPCOUNTY REGIONAL SERVICES CENTER AT 240-777-8040 AND THE DISTRICT 5 TRAFFIC SERGEANT OF THE MONTGOMERY COUNTY POLICE DEPARTMENT AT 240-773-6200, A MINIMUM OF ONE WEEK PRIOR TO THE BEGINNING OF ANY WORK ACTIVITIES.
- 5. FIELD ASSISTANCE BY THE MCDOT, DIVISION OF TRAFFIC ENGINEERING DESIGN AND OPERATION SECTION (TEDO) IS AVAILABLE UPON REQUEST. CONTACT TRAFFIC ENGINEERING DESIGN AND OPERATION SECTION (TEDO) AT 240-777-6000.

MAINTENANCE OF TRAFFIC SEQUENCE OF CONSTRUCTION

STAGE I

- I. CONSTRUCT ALL COMPONENTS OF TRANSIT FACILITY, AND NEW CURB, NEW DRAINAGE DEVICES, AND NEW SIDEPATH ALONG BARNESVILLE ROAD.
- 2. TRAFFIC WILL BE MAINTAINED ALONG THE TWO EXISTING TRAVEL LANES. PLACE DRUMS AT EDGE OF CONSTRUCTION AREA. ALONG PROPOSED SHOULDER STRIPE ON BARNESVILLE ROAD.

Whitman. Requardt & Associates. LLP 801 South Caroline Street, Baltimore, Maryland 21231

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND

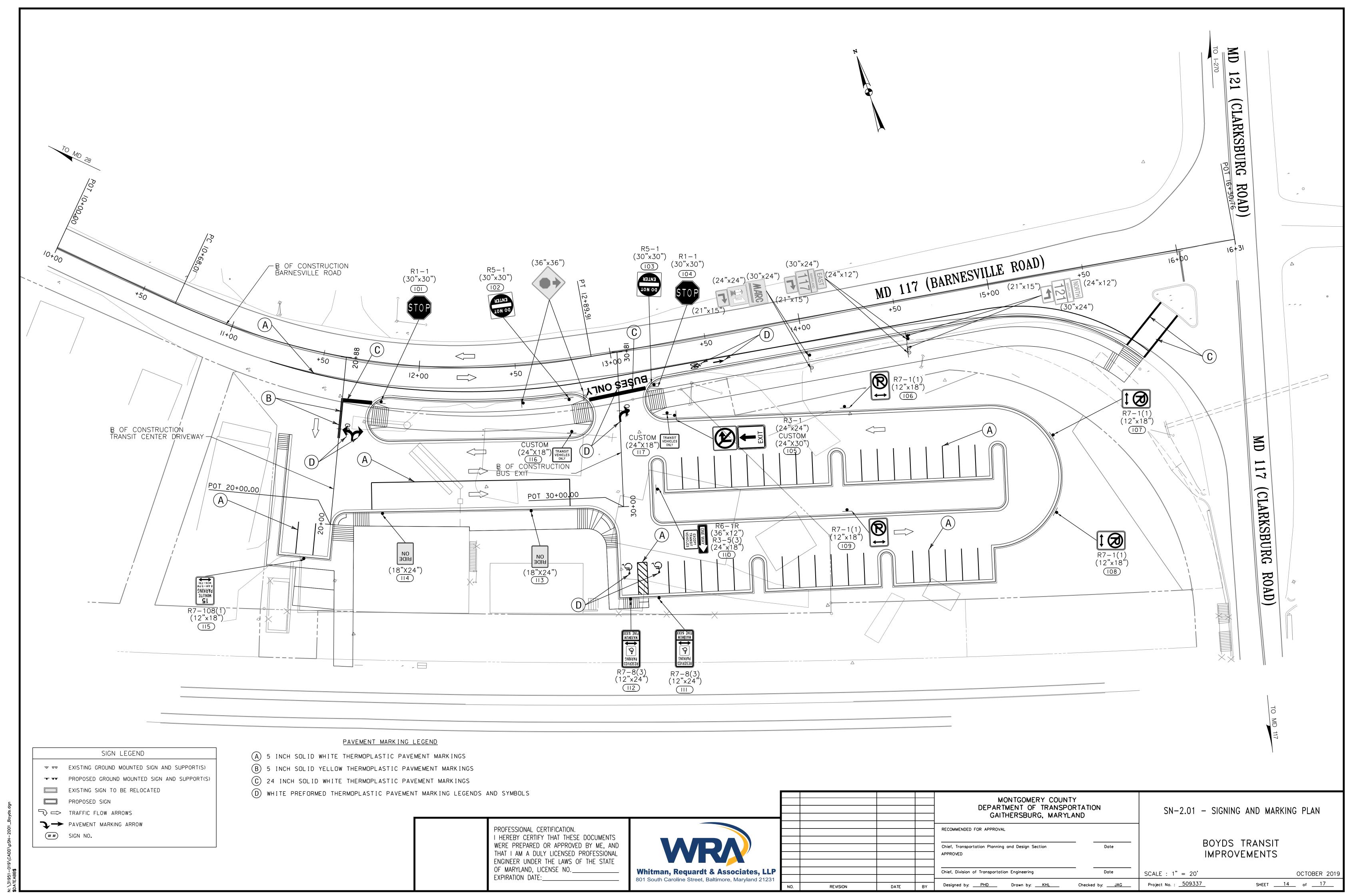
BOYDS TRANSIT IMPROVEMENTS

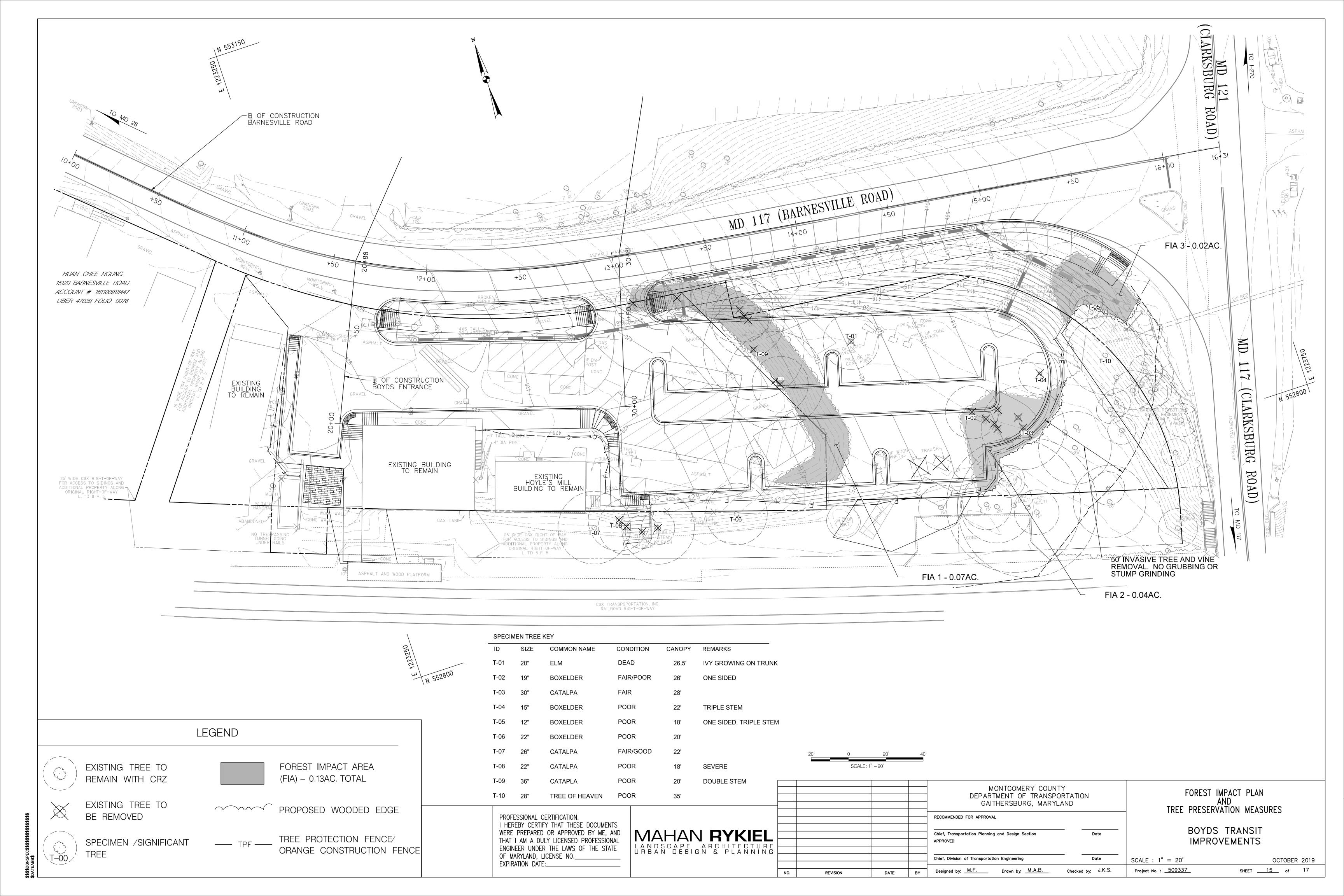
TCP-A TRAFFIC CONTROL PLAN

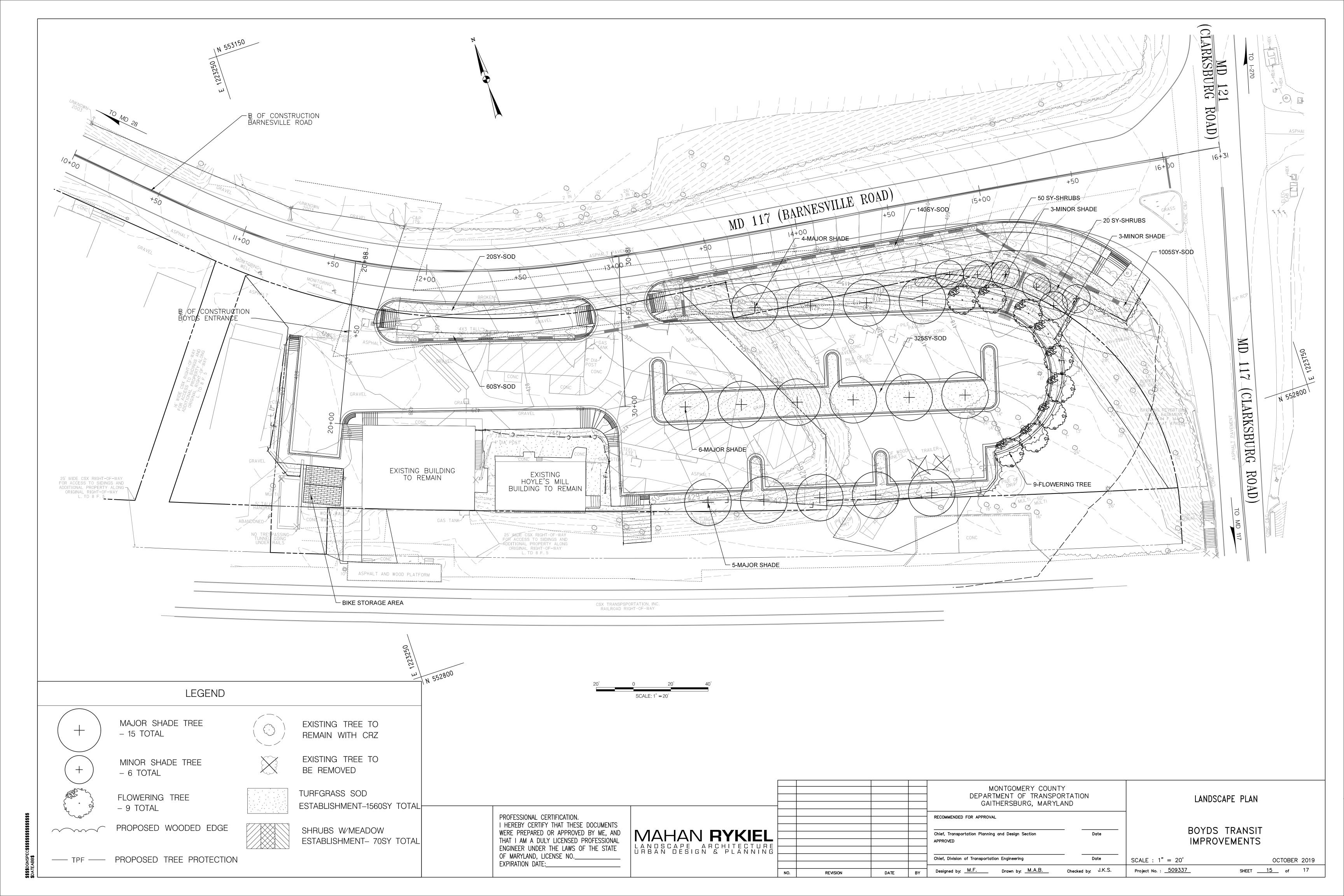
GENERAL NOTES

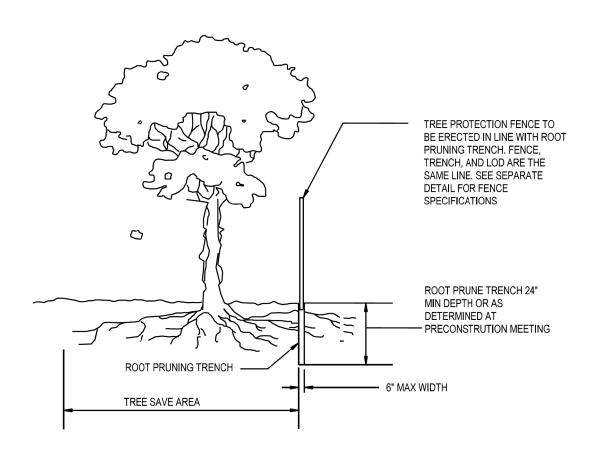
SCALE : NONE OCTOBER 2019

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1. RETENTION AREAS WILL BE SET AS PART OF THE REVIEW PROCESS AND PRECONSTRUCTION MEETING.

2. BOUNDARIES OF RETENTION AREAS MUST BE STAKED AT THE PRECONSTRUCTION MEETING AND FLAGGED PRIOR TO TRENCHING.

3. EXACT LOCATION OF TRENCH SHALL BE DETERMINED IN THE FIELD IN COORDINATION WITH THE FOREST CONSERVATION (FC) INPECTOR.

4. TRENCH SHOULD BE IMMEDIATELY BACKFILLED WITH EXCAVATED SOIL OR OTHER ORGANIC SOIL AS SPECIFIED PER PLAN OR BY THE FC INSPECTOR.

5. ROOTS SHALL BE CLEANLY CUT USING VIBRATORY KNIFE OR OTHER ACCEPTABLE EQUIPMENT.

6. ALL PRUNING MUST BE EXECUTED WITH LOD SHOWN ON PLANS OR AS AUTHORIZED IN WRITING BY THE FC INSPECTOR.

ROOT PRUNING DETAIL



INSPECTIONS

All field inspections must be requested by the applicant.

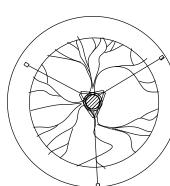
Field Inspections must be conducted as follows:

Plans without Planting Requirements

- 1. After the limits of disturbance have been staked and flagged, but before any clearing or
- 2. After necessary stress reduction measures have been completed and protection measures have been installed, but before any clearing and grading begin and before release of the
- 3. After completion of all construction activities, but before removal of tree protection fencing, to determine the level of compliance with the provision of the forest

Additional Requirements for Plans with Planting Requirements

- 4. Before the start of any required reforestation and afforestation planting. 5. After the required reforestation and afforestation planting has been completed to verify that the planting is acceptable and prior to the start the maintenance period.
- 6. At the end of the maintenance period to determine the level of compliance with the provisions of the planting plan, and if appropriate, release of the performance bond.



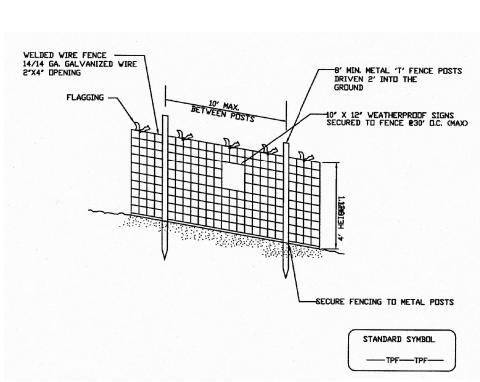
- RUBBER HOSE - SECURE ABOVE LOWEST STOUT BRANCH OF TREE MIN. 1/3 OF TREE HEIGHT GUYWIRE OR CABLE NOTES: - 2" SQ. STAKES, 8' LONG, PLACE 1. DO NOT CUT CENTRAL LEADER. STAKES PARALLEL TO ADJACENT WALLS & BUILDINGS, EXTEND 2. FOR PLANTS IN WIRE BASKETS, STAKES TO FIRM BEARING, TYP. REFER TO SPECIFICATIONS. 3. DO NOT PLACE MULCH AGAINST - SET TREE WITH 2" OF ROOT TRUNK BALL ABOVE GRADE - CUT & REMOVE BURLAP FROM TOP 1/3 OF ROOT BALL - 2" MULCH - SOIL MIX - TOOLED MULCH EDGE FINISHED GRADE - SCARIFY SIDES TO 2" DEPTH - UNDISTURBED SOIL - HAND TAMPED SOIL TO ROOTBALL STEADY ROOT BALL

EQ.

WIDTH

Tree Protection Fence Detail

Not to scale



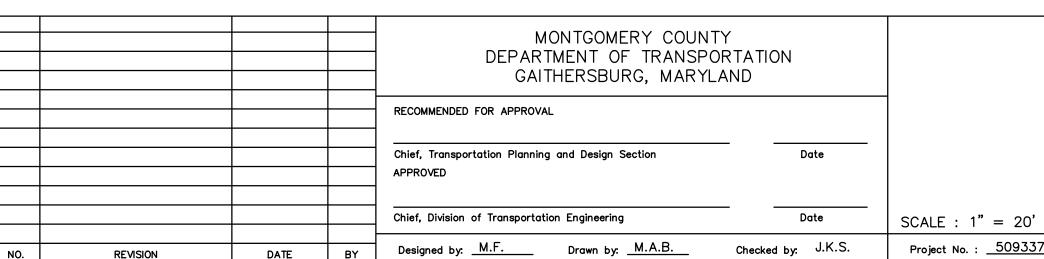
NOTES

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

Montgomery County Planning Department ■ M-NCPPC MontgomeryPlanning.org

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DETAILS AND NOTES

BOYDS TRANSIT IMPROVEMENTS

OCTOBER 2019 Project No. : <u>509337</u> SHEET <u>17</u> of 17