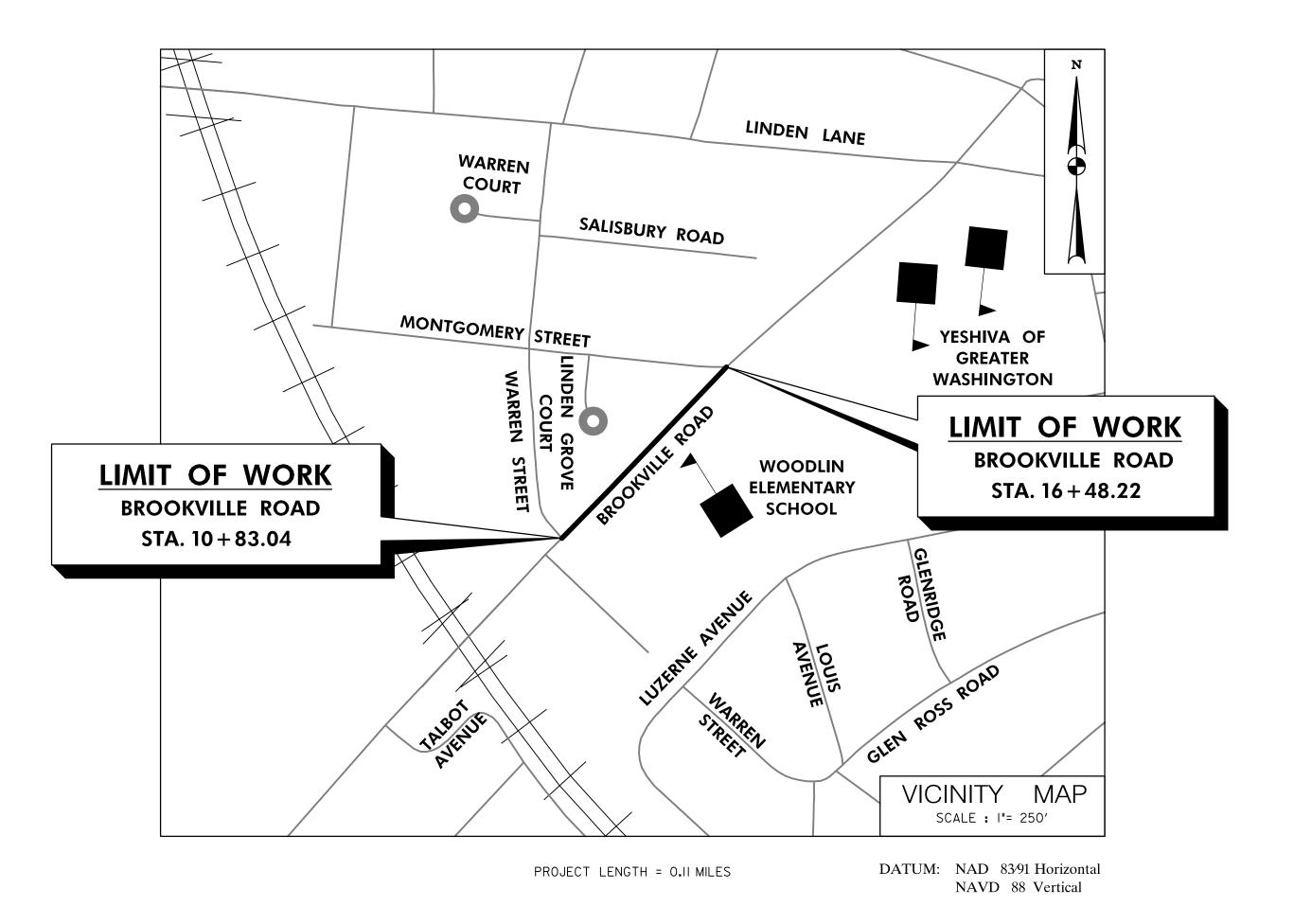
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION

BROOKVILLE ROAD FROM WARREN STREET TO MONTGOMERY STREET PEDESTRIAN IMPROVEMENTS



INDEX OF SHEETS

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GENERAL NOTES

- I. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE STANDARD SPECIFICATIONS OF THE MARYLAND STATE HIGHWAY ADMINISTRATION, MONTGOMERY COUNTY, AND THE WASHINGTON SUBURBAN SANITARY COMMISSION.
- 2. 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.
- 3. 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.
- 4. 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 THE UTILITY COMPANIES PRIOR TO COMMENCING EXCAVATION. THE EXCAVATOR IS RESPONSIBLE FOR COMPLIANCE WITH REQUIREMENTS OF CHAPTER 36A OF THE MONTGOMERY COUNTY CODE.
- 5. ALL GRADING SHALL BE DONE IN SUCH A MANNER AS TO PROVIDE POSITIVE DRAINAGE.
- 6. ALL DISTURBED AREAS MUST BE TOPSOILED PER THE MDE "2011 STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL", PRIOR TO FINAL VEGETATIVE STABILIZATION.
- 7. ALL DISTURBED AREAS TO BE STABILIZED PER MDE REQUIREMENTS.
- 8. HORIZONTAL DATUM: MSHA, NAD 83/91 VERTICAL DATUM: NAVD 88

GT-01

SHE	NO.	
2	ΛE	7

ABBREVIATIONS

AASHTO American Association of State Highway	HDWL.	Headwall	RW or R∕W	Right of Way
Transportation Officials		Horizontal Ellipitical Reinforced		Reinforced Concrete Pipe
ADTAverage Daily Traffic		Concrete Pipe		Reinforced Concrete Pressure
AHDAhead	HP	High Point		Rock Quality Designation
APPROXApproximate	IN	S .	R.M	, ,
型 or B/L Baseline		Inlet Sediment Trap	S	
BKBack /Book	INV	·		Sanitary Sewer
BIT Bituminous		Junction Box		Southbound
B.CBituminous Concrete	K			Storm Drain
B.M Bench Mark	L			Surface Drain Ditch
BOTBottom		Linear Feet		Super Elevation
C.CCenter of Curve		Liquid Limit		Silt Fence
CAP Corrugated Aluminum Pipe		Low Point		Square Feet
CAPACorrugated Aluminum Pipe Arch		Light Pole	SHT	•
CATV Cable Television	LT.			Structural Steel Plate Pipe
C.B.RCable relevision C.B.R		Macadam		Structural Steel Plate Pipe Arch
© or C/L Centerline		Moisture Content		Standard Penetration Testing
CL Class		Maximum		Steel Spiral Rib Pipe –
CLF Class CLF Chainlink Fence			SNF	Aluminized Type 2
		Maximum Dry Content	CDDA	3 1
CMPCorrugated Metal Pipe		Modified	3RPA	Steel Spiral Rib Pipe Arch -
C.OCleanout		Minimum	CCD	Aluminized Type 2
COMBCombination	N			Stopping Sight Distance
CONC Concrete		Northbound		Super Silt Fence
CONSTR Construction		Northeast		Standard
COR Corner		Non-Plastic	STA	
CORRCorrection		On Center		Single Opening
CPP-S Corrugated Polyethylene Pipe - Type 'S'		Overhead Electric		Square Yards
CSP Corrugated Steel Pipe – Aluminized Type 2		Optimum Moisture		Stormwater Management
CSPA Corrugated Steel Pipe Arch –		Pavement	T	
Aluminized Type 2		Point of Curvature		Telephone
DCDegree of Curve		Point of Compound Curvature		Top of Cover
D.H.V Design Hourly Volume		Point of Crown		Top of Grate
D.I Drop Inlet		Profile Grade Elevation		Traverse Line
DIA Diameter		Profile Ground Elevation		Top of Manhole
D.ODouble Opening		Profile Grade Line	TRAV	
EEast		Profile Ground Line		Temporary Swale
E Electric		Point of Rotation		Top of Slab
E External Distance		Plasticity Index	T.S	Topsoil
EAEach		Point of Intersection	TYP	- •
EBEastbound	POC	Point On Curve	U.D	Under Drain
ELEV Elevation	POT	Point On Tangent	U.G	Underground
ES End Section	PPWP	Polyvinyl Chloride Profile Wall Pipe	U.P	Utility Pole
EX or EXIST Existing	PROP	Proposed	USDA	United States Department
FTFeet	PRC	Point of Reverse Curve		of Agriculture
F or FLFlowline	PT	Point	VCL	Vertical Clearance
F.B.D Flat Bottom Ditch	PT	Point of Tangency	V.C.L	Vertical Curve Length
F.HFire Hydrant	PVC	Point of Vertical Curve	W	Water
FWD Forward	PVC	Polyvinyl Chloride	W	West
GGas	PVI	Point of Vertical Intersection	WB	Westbound
G.VGas Valve	PVRC	Point of Vertical Reverse Curve	WB	Wetland Buffer
H.BHandbox	PVT	Point of Vertical Tangency	W.M	Water Meter
HDPEHigh Density Polyetheylene	R	Radius	W.S	Wrapped Steel
	R.F	Rock Fragments	WUS	Waters of the United States
	RT	Right	W.V	Water Valve

CONVENTIONAL SIGNS (SAMPLES)

PROPOSED MEDIAN BARRIER	
ELECTRICAL HAND BOX - SIGNALS	H.B. ■
FLOW LINE	
STATE, COUNTY OR CITY LINES	
PROPOSED TRAFFIC BARRIER	
EXISTING TRAFFIC BARRIER	<u> </u>
PROPOSED FENCE LINE	XX
EXISTING FENCE LINE	XX
RIGHT OF WAY LINE	
EXISTING ROADWAY	==
RAILROAD	#######################################
BASE LINE OR SURVEY LINE	3) +50 32
FIRE HYDRANT	F.H. □
HISTORIC BOUNDARY	—— н —
WETLAND BOUNDARY	• • • •

PROPOSED PIPE / CULVERT	
EXISTING PIPE / CULVERT	⊫=== 1
EXISTING DROP INLET	□===
UTILITY POLE	\ominus
WETLAND	
WETLAND BUFFER	—— в ——
WATERS OF THE U.S	WUS OR /
HEDGE /TREE LINE	~~~~~
BUSH /TREE	\odot
CONIFEROUS TREE	
GROUND ELEVATION	DATUM LINE 2
GRADE ELEVATION	SIO.22

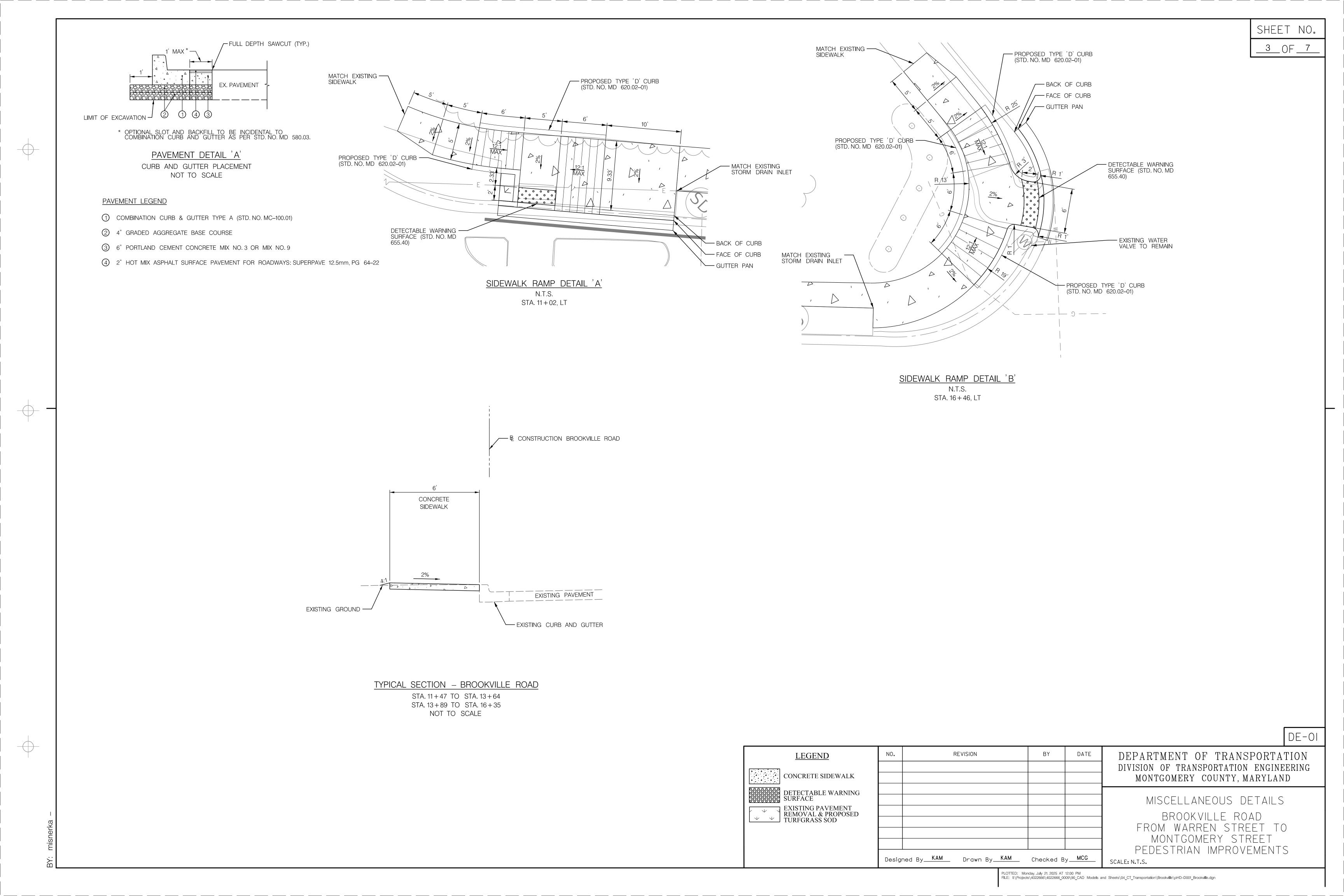
MONTANDE PINCETION MONTANDE PROTECTION MONTANDE PROTECTION MONTANDE PINCETION MONT	STANDARD SYMBOLS							
BEFILE EDARDS	100-YEAR FLOODPLAIN		MEDIAN INLET PROTECTION	MIP	STONE CHECK DAM	•		
EBRCHING PERMANENT SOIL STABILIZATION MATTING-TYPE SUPER BLEER BLEER BLEAT ON MATTING-TYPE B. CHESAPEAKE BAY CRITICAL AREA OCC. PERMANENT SOIL STABILIZATION MATTING-TYPE C. CHESAPEAKE BAY CRITICAL AREA OCC. PERMANENT SOIL STABILIZATION MATTING-TYPE C. CHEAR WATER DIVERSION PIPE SOTE CERSIONATION ON 14 SOTE CERSIONATION MINITAL INCOMPSE. PERMANENT SOIL STABILIZATION MATTING-TYPE C. CHEAR WATER DIVERSION PIPE SOTE CERSIONATION ON 14 SOTE CERSIONATION PIPE 1 SOTE CERSIONATION MINITAL INCOMPSE. PERMANENT SOIL STABILIZATION MATTING-TYPE C. CHEAR WATER DIVERSION PIPE SOTE CERSIONATION MINITAL INCOMPSE. PERMANENT SOIL STABILIZATION MATTING-TYPE C. CHEAR WATER DIVERSION PIPE SOTE CERSIONATION MINITAL INCOMPSE. PERMANENT SOIL STABILIZATION MATTING-TYPE C. CHEAR WATER DIVERSION PIPE SOTE CERSIONATION MINITAL INCOMPSE. PERMANENT SOIL STABILIZATION MATTING-TYPE C. CHEAR WATER DIVERSION PIPE SOIL STABILIZATION MATTING-TYPE C. PROPOSED CONTOURS	AT-GRADE INLET PROTECTION	[]AGIP	MEDIAN SUMP INLET PROTECTION	MSIP	STONE/RIPRAP OUTLET SEDIMENT TRAP ST II	ST-II		
CATCH BASIN INSERT DERMANENT SOIL STABILIZATION MATTING-TYPE B SUPER SLIT FENCE PERMANENT SOIL STABILIZATION MATTING-TYPE C CHESAPPANE BAY CRITICAL AREA	BAFFLE BOARDS		MOUNTABLE BERM	MB	SUBSURFACE DRAINS	├─ SSD ── ┤		
PERMANENT SOL STABILIZATION MATTING-TYPE C CLEAR WATER DIVERSION PIE ROPES TO CLEAR WATER PROPERTY OCCUSE WAS MATTER PROPERTY OF ROPES TO CLEAR WATER PROPERTY OCCUSE WAS MATTER PROPERTY OF ROPES TO CLEAR WATER PROPERTY OCCUSE WAS MATTER PROPERTY OF ROPES TO CLEAR WATER PROPERTY OCCUSE WAS MATTER PROPERTY OF ROPES TO CLEAR WATER PROPERTY OCCUSE WAS MATTER PROPERTY OF ROPES TO CLEAR WATER PROPERTY ASPHALT BERN CLEAR WATER PROPERTY ASPHALT BERN COMBINATION INLET PROTECTION CONCRETE WAS MOUT STRUCTURE COMBINATION FUNCTION CONCRETE WAS MOUT STRUCTURE COMBINATION FUNCTION CORRESPONDED TO CLEAR WATER DIVERSION CORRESPONDED TO CLEAR WATER PROPERTY ASPHALT BERN COMBINATION FUNCTION COMBINATION	BENCHING	BENCHING	PERIMETER DIKE/SWALE	€ ^{PDS-I} €	SUMP PIT	⊠sp		
CLEAR WATER DIVERSION PIPE NOTE DEBONATION CONDITIONS ON WITH 12 INCH PIPE. CLEAR WATER PIPE PIPE SLOPE GRAIN REPRETOR TO PIPE SLOPE REPRETOR TO PIPE SLOPE REPRETOR TO PIPE SLOPE REPRETOR TO PIECUTO PIPE SLOPE REPRETOR TO PIPE	CATCH BASIN INSERT	СПСВІ	PERMANENT SOIL STABILIZATION MATTING-TYPE B	B B B	SUPER SILT FENCE	⊢—SSF——I		
CLEAR WATER DIVERSION PIPE INTERESTS TO LEAF WATER OF PIPE OUTLET SEDIMENT TRAP ST II EMPORARY ACCESS CULVERT PIPE SUPE SEDIMENT TRAP ST II EMPORARY ACCESS CULVERT FILTER BAG PORT OF PIPE SEDIMENT TRAP ST III FEMPORARY ASPHALT BERN FEMPORA	CHESAPEAKE BAY CRITICAL AREA	—— CBCA ———	PERMANENT SOIL STABILIZATION MATTING-TYPE C		TEMPORARY ACCESS BRIDGE	ТВ		
COMBINATION INLET PROTECTION POP PUMGE POOL POP PROPOSED CONTOURS PORTABLE SEDIMENT TANK POP PROPOSED CONTOURS POP PROPORARY GABION OUTLET STRUCTURE POP PROPOSED CONTOURS POP PROPOSED CONTOURS POP PROPORARY SOIL STABILIZATION MATTING-TYPE A POP PROPORARY SOIL STABILIZATION MATTING-TYPE A POP PROPOSED CONTOURS	CLEAR WATER DIVERSION PIPE REFERS TO CLEAR WATER	CWD - 12	PIPE OUTLET SEDIMENT TRAP ST I	ST-I	TEMPORARY ACCESS CULVERT			
CONCRETE WASHOUT STRUCTURE PORTABLE SEDIMENT TANK PORTABLE SEDIMENT TANK PORTABLE SEDIMENT TANK PORTABLE SEDIMENT TANK POSS TEMPORARY GABION OUTLET STRUCTURE TOSS CURB INLET PROTECTION PROPOSED CONTOURS 1000 TREE PRESERVATION AREA FENCE (TPAF) IIII DIVERSION FENCE POF REMOVABLE PUMPING STATION REMOVABLE PUMPING STATION REPRAPINFLOW PROTECTION REMPORARY SOIL STABILIZATION MATTING-TYPE A REMPORARY SOIL STABI	CLEAR WATER PIPE	⊢∏ CWP	PIPE SLOPE DRAIN REFERS TO PIPE SLOPE	PSD - 12	TEMPORARY ASPHALT BERM	TAB		
CURB INLET PROTECTION CUP PROPOSED CONTOURS — 100 — TREE PRESERVATION AREA FENCE (TPAF) — 110 — REMOVABLE PUMPING STATION DIVERSION FENCE — 24 — RIPRAP INFLOW PROTECTION RIPRAP INFLOW PROTECTION RIPRAP INFLOW PROTECTION RIPRAP INFLOW PROTECTION RIPRAP OUTLET SEDIMENT TRAP ST III TEMPORARY SOIL STABILIZATION MATTING-TYPE B CANNOL STABILIZATION MATTING-TYPE B CONTROL STABILIZATION MATTING-TYPE B CO	COMBINATION INLET PROTECTION	COIP	PLUNGE POOL	PP	TEMPORARY BARRIER DIVERSION	TBD		
PROPOSED CONTOURS	CONCRETE WASHOUT STRUCTURE	CWS	PORTABLE SEDIMENT TANK	⊠PST	TEMPORARY GABION OUTLET STRUCTURE			
DRAINAGE BOUNDARY — PA. RIPRAP INFLOW PROTECTION TEMPORARY SOIL STABILIZATION MATTING-TYPE B EARTH DIKE NOTE PLACE DESIGNATION (A-1, B-2, ETC.) ON FLOW CHANNEL SIDE OF DIKE. A-1 RIPRAP OUTLET SEDIMENT TRAP ST III ST-III TEMPORARY SOIL STABILIZATION MATTING-TYPE D ST-SOS EMERGENCY SPILLWAY ES ROCK OUTLET PROTECTION I ROPI TEMPORARY STONE OUTLET STRUCTURE ST-SOS EXISTING CONTOURS — -100 — ROCK OUTLET PROTECTION II ROPII TEMPORARY SWALE NOTE: PLACE DESIGNATION (A-1, B), GET; ON NEOW CHANNEL SIDE OF SWALE. A-1 FILTER BAG MB ROCK OUTLET PROTECTION III ROPII VERTICAL DRAW-DOWN DEVICE VOID FILTER BERM Improved the protection of the	CURB INLET PROTECTION	[c]CIP	PROPOSED CONTOURS	 100 	TREE PRESERVATION AREA FENCE (TPAF)	—— TPF ————		
EARTH DIKE NOTE: PLACE DESIGNATION (A.1, B.Z. ETC.) ON FLOW (HANNEL SIDE OF DIKE) EMERGENCY SPILLWAY ES ROCK OUTLET PROTECTION I ROPE TEMPORARY SOIL STABILIZATION MATTING-TYPE D FILTER BAG FILTER BAG FILTER BERM IFB-AI I	DIVERSION FENCE	├── DF ───	REMOVABLE PUMPING STATION	⊠RPS	TEMPORARY SOIL STABILIZATION MATTING-TYPE A			
EMERGENCY SPILLWAY ES ROCK OUTLET PROTECTION I ROP TEMPORARY STONE OUTLET STRUCTURE EXISTING CONTOURS —100 — ROCK OUTLET PROTECTION II ROP TEMPORARY SWALE FILTER BAG FILTER BAG ROCK OUTLET PROTECTION III ROPI TEMPORARY SWALE NOTE: PLACE DESIGNATION (A.1, B.2, ETG.) ON FLOW CHANNEL SIDE OF SWALE FILTER BAG FILTER BAG NOTE: DESIGNATION FLOW CHANNEL SIDE OF SWALE FILTER BERM NOTE: DESIGNATION FLOW CHANNEL SIDE OF SWALE FILTER LOG NOTE: DESIGNATION FLOW CHANNEL SIDE OF SWALE FILTER LOG NOTE: DESIGNATION FLOW CHANNEL SIDE OF SWALE FILTER LOG NOTE: DESIGNATION FLOW CHANNEL SIDE OF SWALE FILTER LOG NOTE: DESIGNATION FLOW CHANNEL SIDE OF SWALE FILTER LOG NOTE: DESIGNATION FLOW CHANNEL SIDE OF SWALE FILTER LOG NOTE: DESIGNATION FLOW CHANNEL SIDE OF SWALE FILTER LOG NOTE: DESIGNATION FLOW CHANNEL SIDE OF SWALE FILTER LOG NOTE: DESIGNATION FLOW CHANNEL SIDE OF SWALE FILTER LOG NOTE: DESIGNATION FLOW CHANNEL SIDE OF SWALE FILTER LOG NOTE: DESIGNATION FLOW CHANNEL SIDE OF SWALE FILTER LOG NOTE: DESIGNATION FLOW CHANNEL SIDE OF SWALE FILTER BERM FILTER BERM FILTER BERM SILT FENCE ON PAVEMENT WETLAND BUFFER GABION INLET PROTECTION SILT FENCE ON PAVEMENT SILT FENCE ON PAVEMENT SILT FENCE ON PAVEMENT SILT FENCE ON PAVEMENT WETLAND BUFFER SILT FENCE ON PAVEMENT SILT FENCE ON PAVEMENT WETLAND BUFFER SILT FENCE ON PAVEMENT SILT FENCE ON PAVEMEN	DRAINAGE BOUNDARY	DA_	RIPRAP INFLOW PROTECTION	RRP	TEMPORARY SOIL STABILIZATION MATTING-TYPE E	EEEE		
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EXISTING CONTOURS ——100 — ROCK OUTLET PROTECTION II ROPII TEMPORARY SWALE (A-1, B-2, ETC.) ON FLOW CHANNEL SIDE OF SWALE. FILTER BAG BFB ROCK OUTLET PROTECTION III ROPIII VERTICAL DRAW-DOWN DEVICE VODDO FILTER BERM I——FB-A——I I——FB-B——I SILT FENCE SILT FENCE SILT FENCE SILT FENCE ON PAVEMENT SILT FENCE ON PAVEMENT GABION INFLOW PROTECTION GABION INFLOW PROTECTION GABION INFLOW PROTECTION GABION INLET PROTECTION GABION INLET PROTECTION GABION INLET PROTECTION STABILIZED CONSTRUCTION ENTRANCE (SCE)	EMERGENCY SPILLWAY	ES	ROCK OUTLET PROTECTION I	ROPI	TEMPORARY STONE OUTLET STRUCTURE	₹₹ TS0S		
FILTER BERM FB-A SILT FENCE SF WASH RACK OPTION MASH RACK OPTION	EXISTING CONTOURS		ROCK OUTLET PROTECTION II	ROPII	TEMPORARY SWALE (A-1, B-2, ETC.) ON FLOW	▲ -I=		
FILTER LOG NOTE: DESIGNATION FL-18 FL-18 SILT FENCE ON PAVEMENT SFOP WETLAND	FILTER BAG	⊠FB	ROCK OUTLET PROTECTION III	ROPIII	VERTICAL DRAW-DOWN DEVICE	VDDD		
FILTER LOG REFERS TO FILTER LOG WITH 18 INCH DIAMETER. GABION INFLOW PROTECTION GABION INLET PROTECTION STABILIZED CONSTRUCTION ENTRANCE (SCE) WETLAND	FILTER BERM		SILT FENCE	SF	WASH RACK OPTION	WR		
GABION INFLOW PROTECTION GABION INLET PROTECTION GRADION INLET PROTECTION SOD STABILIZED CONSTRUCTION ENTRANCE (SCE) WETLAND BUFFER WETLAND BUFFER - B	FILTER LOG REFERS TO FILTER LOG	FL-18	SILT FENCE ON PAVEMENT	⊢—SF0P——I	WETLAND	•••••		
	GABION INFLOW PROTECTION	GP	SOD * * * * * * WETLAND BLIFFER		WETLAND BUFFER	— в ——		
HORIZONTAL DRAW-DOWN DEVICE STANDARD INLET PROTECTION STANDARD INLET PROTECTION	GABION INLET PROTECTION	[GIP	STABILIZED CONSTRUCTION ENTRANCE (SCE)					
	HORIZONTAL DRAW-DOWN DEVICE	HDDD	STANDARD INLET PROTECTION	[SIP				
LIMIT OF DISTURBANCE —LOD— STOCKPILE AREA	LIMIT OF DISTURBANCE	——LOD——	STOCKPILE AREA					

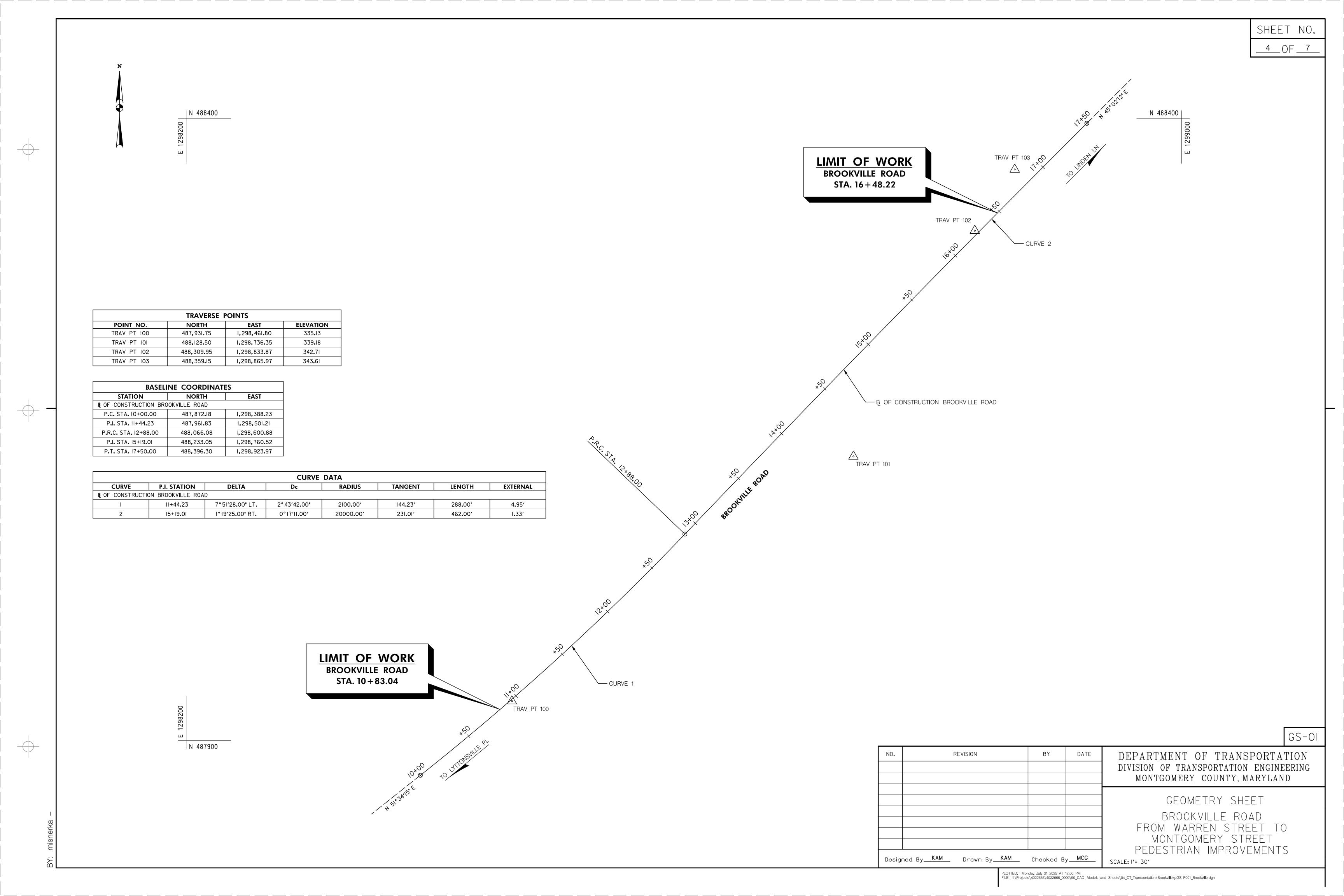
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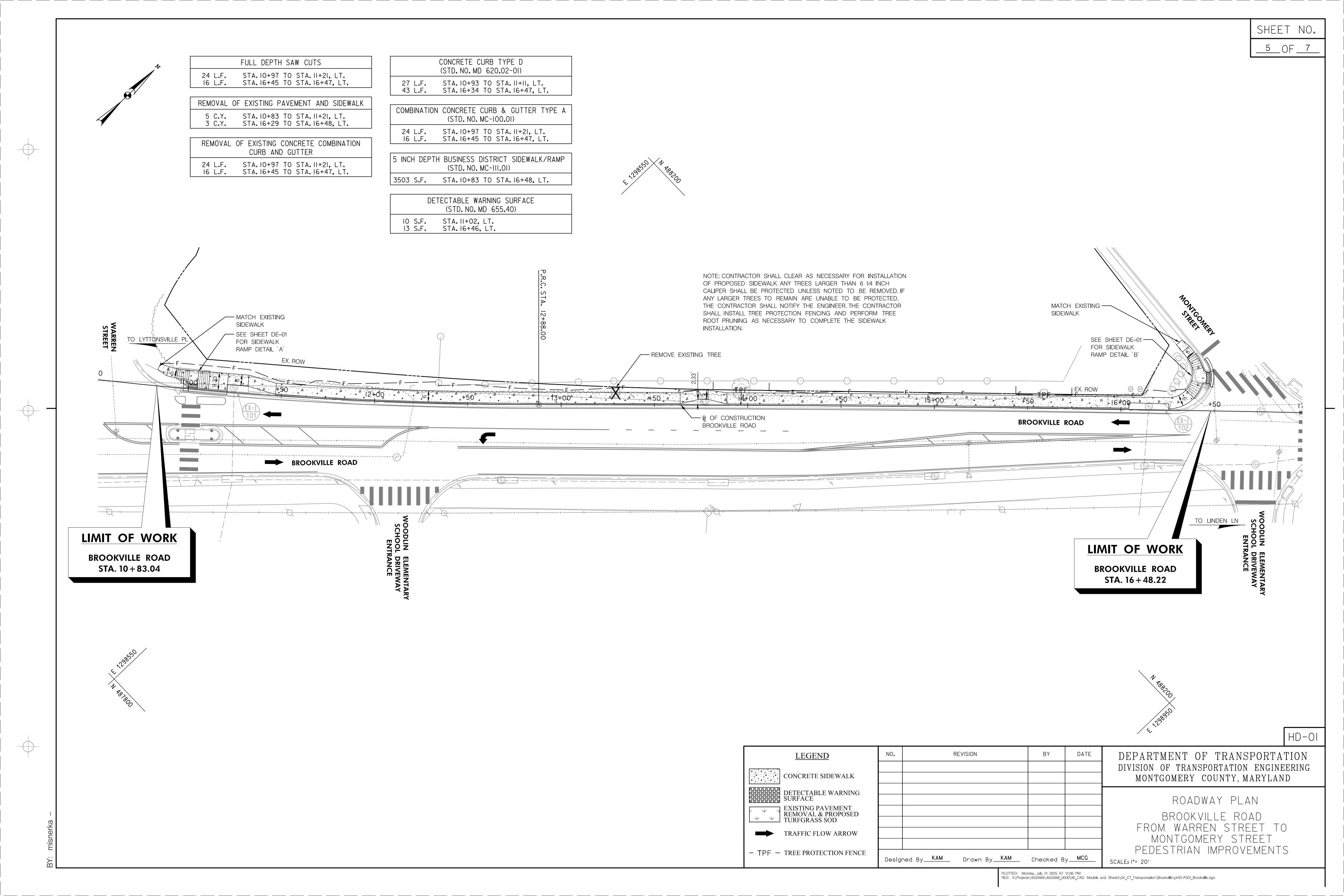
BY DATE DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING MONTGOMERY COUNTY, MARYLAND

ABBREVIATIONS, CONVENTIONAL SIGNS, & STANDARD SYMBOLS
BROOKVILLE ROAD
FROM WARREN STREET TO MONTGOMERY STREET
PEDESTRIAN IMPROVEMENTS
SCALE: N.T.S.

PLOTTED: Monday, July 21, 2025 AT 12:00 PM
FILE: I:\Projects\4022666\4022666_0009\90_CAD Models and Sheets\04_CT_Transportation\Brookville\pGN=N001_Brookville.dgn







CRITERIA

THE CONTRACTOR SHALL BE GOVERNED BY THE STANDARDS AND REQUIREMENTS OF THE FOLLOWING PUBLICATIONS, EXCEPT AS MODIFIED BY THE SPECIAL PROVISIONS OF THIS CONTRACT:

MDSHA - "MARYLAND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", 2011 EDITION AND SUBSEQUENT REVISIONS. (MdMUTCD)

A A S H T O - "HIGHWAY SAFFTY DESIGN AND OPERATIONS GUIDE" -1997

A A S H T O - "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS LUMINAIRES AND TRAFFIC SIGNALS", 2001 EDITION (CATEGORY II FOR ALL OVERHEAD AND CANTILEVER SIGN STRUCTURES).

MATERIALS AND CONSTRUCTION

MDSHA - "STANDARD SPECIFICATIONS FOR CONSTRUCTION & MATERIALS", 2008 EDITION AND SUBSEQUENT SUPPLEMENTS.

DESIGN WIND

100 MPH - WOOD SUPPORTS IO YEAR RECURRENCE INTERVAL 100 MPH - GROUND MOUNT SIGN STEEL SUPPORTS ALL DISTRICTS IO YEAR RECURRENCE INTERVAL 100 MPH - OVERHEAD AND CANTILEVER STRUCTURES 50 YEAR RECURRENCE INTERVAL

DESIGN STRESS

SOIL BEARING PRESSURE - S = 3,000 P.S.F. (ASSUMED) SEE MATERIAL & CONSTRUCTION ABOVE AND SPECIAL PROVISIONS FOR DESIGN STRESSES FOR STRUCTURAL STEEL, ALUMINUM, REINFORCING STEEL AND CONCRETE.

CHAMFER

ALL EXPOSED EDGES OF CONCRETE SHALL HAVE A 3/4" X 3/4" CHAMFER.

CLASSIFICATION OF SIGNS

SIGNS ARE DIVIDED INTO TWO (2) GENERAL CATEGORIES.

I. GUIDE SIGNS A) STRUCTURAL TYPES OH - OVERHEAD C - CANTILEVER GM - GROUND MOUNT, BREAKAWAY OR NON-BREAKWAY

BM - BRIDGE MOUNTED

COPY - DIRECT APPLIED I) HIGH INTENSITY (NEW SIGNS AND REVISIONS TO EXISTING SIGNS)

B) PANELS

MATERIAL - EXTRUDED ALUMINUM

COPY - DIRECT APPLIED

2. STANDARD SIGNS (REGULATORY, WARNING, ETC.) A) STRUCTURAL TYPES B) PANELS MATERIAL - SHEET ALUMINUM WOOD SUPPORTS

SQUARE TUBE

IDENTIFICATION OF SIGNS AND PANELS

GUIDE SIGNS

EACH GUIDE SIGN IS IDENTIFIED BY A SIGN NUMBER ON THE PLANS AND IN THE TABULATIONS. (GM-I. GM-2. GM-3. etc) SIGNS ON STRUCTURES ARE IDENTIFIED WITH A NUMBER AND WHERE VARIATIONS OCCUR, A LOWER CASE LETTER. (OH-Ia, OH-Ib, OH-Ic)

STANDARD SIGNS

STANDARD SIGNS ARE IDENTIFIED BY PANEL NUMBERS AND ARE CLASSIFIED AS FOLLOWS

R - REGULATORY

W - WARNING M - ROUTE MARKERS AND ACCESSORIES D - DESTINATION AND MILEAGE PANELS

S - SCHOOL

PANELS SHALL BE DESIGNATED TO AGREE WITH MARYLAND STANDARD SIGN BOOK. EACH STANDARD SIGN IS IDENTIFIED FIRST BY THE SHEET NUMBER, THEN BY THE NUMERICAL ORDER OF THE SIGN AS IT APPEARS ON THE PLAN. FOR EXAMPLE SHEET SN 2.1-101,102,103, ETC. SHEET SN 2.2-201,202,203,ETC.

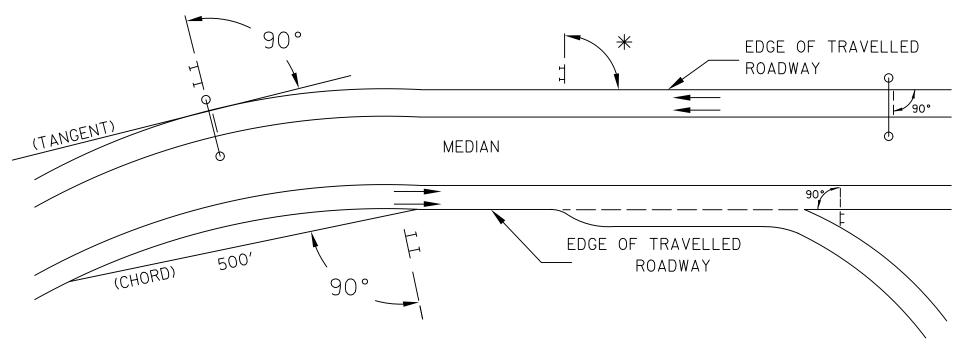
PANEL LAYOUT AND ALPHABETS

I. GUIDE SIGN PANEL LAYOUTS ARE BASED ON THE A.A.S.H.T.O. MANUALS NOTED ABOVE. 2. STANDARD SIGN PANEL LAYOUTS ARE BASED ON THE MAMUTCD WITH SPECIFICATIONS DETAILED IN THE MARYLAND STATE HIGHWAY ADMINISTRATION PUBLICATION, "STANDARD SIGN BOOK", AVAILABLE ONLINE @ https:/www.marylandroads.com/businesswithsha/ bizStdsSpecs/desManualStdPub/publicationsonline/oots/internet_signbook.asp

REFLECTORIZATION

BACKGROUNDS, BORDERS, TEXTS AND ALL OTHER ELEMENTS OF SIGN PANELS SHALL BE REFLECTORIZED EXCEPT WHERE NOTED. REFER TO PROJECT REQUIREMENTS FOR MORE DETAIL.

ORIENTATION OF SIGN FACES



* UNDER 30 FEET FROM TRAVELLED ROADWAY TO NEAR EDGE OF SIGN - 93° AWAY FROM THE ROAD TO AVOID SPECULAR REFLECTION AS INDICATED IN 813.03 OF THE MARYLAND STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS.

OVER 30 FEET FROM TRAVELLED ROADWAY TO NEAR EDGE OF SIGN - 90°

SIGN LOCATIONS

I. GUIDE SIGNS ARE LOCATED ON THE PLANS BY DIMENSION TO SURVEY STATIONS, OR WHEN NECESSARY, TO IDENTIFIABLE PHYSICAL FEATURES. 2. ALL CHANGES IN THE LOCATIONS OF SIGNS AS SHOWN ON THE PLAN SHALL HAVE THE PRIOR APPROVAL OF THE ENGINEER.

EXISTING UTILITIES

THE ENGINEER DOES NOT WARRANT OR GUARANTEE THE ACCURACY OR COMPLETENESS OF UTILITY INFORMATION SHOWN ON THE PLAN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND PROTECT ALL EXISTING FACILITIES WHICH MIGHT BE AFFECTED BY THIS WORK OR HIS OPERATION.

ROADSIDE SIGNS

I. VERTICAL ALIGNMENT POSITION PANEL SO FACE IS PLUMB.

2. HORIZONTAL ALIGNMENT (SEE DIAGRAM ABOVE) A) ON STRAIGHT ROADWAY SECTIONS, ANGLE OF SIGN FACE TO ROADWAY VARIES WITH DISTANCE FROM TRAVELLED ROADWAY TO NEAR EDGE OF SIGN - SEE DIAGRAM. B) ON THE INSIDE OF HORIZONTAL CURVES, POSITION SIGN SO FACE OF PANEL MAKES

AN ANGLE OF 90° WITH A CHORD BETWEEN A POINT ON NEAR EDGE OF PAVEMENT AT SIGN LOCATION AND A POINT ON EDGE OF PAVEMENT 500'IN ADVANCE OF SIGN. C) ON THE OUTSIDE OF HORIZONTAL CURVES, POSITION SIGN SO FACE OF PANEL IS AT RIGHT ANGLES TO THE TANGENT OF THE CURVE AT THE SIGN LOCATION.

D) POSITIONING OF SIGNS AT GORES AND RAMP SEPARATIONS IS REFERRED TO THE NORMAL EDGE OF THE MAINLINE ROADWAY.

OVERHEAD SIGNS

I. VERTICAL ALIGNMENT

POSITION PANELS FOR ALL OVERHEAD STRUCTURES SO THAT PANEL FACE IS PLUMB. 2. OVERHEAD SIGN STRUCTURES SHALL NOT BE ERECTED WITHOUT ATTACHING LUMINAIRES. SUPPORTS, AND/OR SIGNS.

3. HORIZONTAL ALIGNMENT

A) POSITION ALL OVERHEAD SIGNS SO THAT THE FACE OF THE PANEL IS AT RIGHT ANGLES TO THE NORMAL EDGE OF ROADWAY, IF ON A STRAIGHT ROADWAY SECTION, B) POSITION ALL OVERHEAD SIGNS SO THAT THE FACE OF THE PANEL IS AT RIGHT ANGLES TO THE TANGENT OF THE CURVE AT SIGN LOCATION. IF ON A HORIZONTAL CURVE.

C) POSITIONING OF SIGNS AT GORES AND RAMP SEPARATIONS IS REFERRED TO THE NORMAL EDGE OF THE MAINLINE ROADWAY,

4. VERTICAL CLEARANCE

A) OVERHEAD SIGNS SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 17'-9" FROM ROADWAY TO THE BOTTOM OF LIGHT FIXTURES. ALL LIGHT FIXTURES ARE TO BE AT THE SAME ELEVATION.

B) IF THE CONTRACTOR CANNOT OBTAIN 17'-9" (SEE 3A) CLEARANCE, HE IS TO CEASE WORK AND CONTACT THE PROJECT ENGINEER FOR FURTHER INSTRUCTIONS. THE PROJECT ENGINEER MAY CONTACT THE TRAFFIC ENGINEERING DESIGN DIVISION FOR ASSISTANCE. C) ON ALL OVERHEAD SIGNS, THE MINIMUM CLEARANCE TO BOTTOM OF SIGN: 20'-9".

PROJECT REQUIREMENTS

ALL NEW SIGNS ON THIS PROJECT SHALL BE FABRICATED FROM SHEETING WHICH MEETS ALL OF THE FOLLOWING REQUIREMENTS, UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS, OR AS DIRECTED BY THE ENGINEER:

I. SHEETING SHALL MEET THE REQUIREMENTS OF SECTIONS 813 AND 950.03 OF MDSHA'S STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS (JULY 2008) AND SUBSEQUENT REVISIONS

2. LISTED ON MDSHA OFFICE OF TRAFFIC AND SAFETY'S QUALIFIED PRODUCTS LIST (QPL)

PROJECT REQUIREMENTS CONT'D

3. THE FOLLOWING TYPES OF SHEETING SHALL BE USED FOR THE SPECIFIED SIGN CLASSIFICATIONS

A) GUIDE, EXIT GORE, AND GENERAL INFORMATION SIGNS- RETROREFLECTIVE SHEETING FOR GUIDE SIGNS, EXIT GORE, AND GENERAL INFORMATION (INCLUDES WHITE ON GREEN, WHITE ON BLUE, WHITE ON BROWN AND THE REVERSE OF THESE COLORS) SHALL MEET OR EXCEED THE REQUIREMENTS FOR ASTM TYPE IX LEGEND ON ASTM TYPE IX BACKGROUND. REGULATORY AND WARNING MESSAGES WITHIN GUIDE SIGNS SHALL BE NON-REFLECTIVE BLACK LEGEND ON BACKGROUND SHEETING WHICH MEETS OR EXCEEDS THE REQUIREMENTS FOR ASTM TYPE IX SHEETING.

B) WARNING SIGNS - RETROREFLECTIVE SHEETING FOR BLACK ON FLUORESCENT YELLOW WARNING SIGNS SHALL BE NON-REFLECTIVE BLACK LEGEND ON BACKGROUND SHEETING WHICH MEETS OR EXCEEDS THE REQUIREMENTS FOR ASTM TYPE IX SHEETING. REGULATORY MESSAGES WITHIN WARNING SIGNS SHALL FOLLOW THE GUIDELINES FOR REGULATORY SIGNS.

C) SCHOOL SIGNS - RETROREFLECTIVE SHEETING FOR SCHOOL SIGNS (BLACK ON FLUORESCENT YELLOW AND BLACK ON FLUORESCENT YELLOW GREEN) SHALL BE NON-REFLECTIVE BLACK LEGEND ON BACKGROUND SHEETING WHICH MEETS OR EXCEEDS THE REQUIREMENTS FOR ASTM TYPE IX SHEETING. REGULATORY MESSAGES WITHIN SCHOOL SIGNS SHALL FOLLOW THE REQUIREMENTS FOR REGULATORY SIGNS.

D) REGULATORY SIGNS - FALL INTO THREE SUBCATEGORIES:

i. "RED" REGULATORY SIGNS (STOP, YIELD, DO NOT ENTER AND WRONG WAY) RETROREFLECTIVE SHEETING FOR THESE SIGNS AND THEIR SUPPLEMENTAL PANELS (INCLUDES WHITE ON RED AND RED ON WHITE) SHALL MEET OR EXCEED THE REQUIREMENTS FOR ASTM TYPE IX SHEETING.

ii. ALL R7 AND R8 SERIES PARKING RELATED SIGNS AND THEIR SUPPLEMENTAL PANELS, NO TRESPASSING SIGNS, AND SIGNS DIRECTED AT PEDESTRIANS AND BICYCLISTS ONLY (INCLUDES RED ON WHITE, GREEN ON WHITE, BLUE ON WHITE, BLACK ON WHITE AND THE REVERSE OF THESE COLORS) SHALL BE ASTM TYPE I LEGEND ON ASTM TYPE BACKGROUND.

iii. ALL OTHER REGULATORY SIGNS - RETROREFLECTIVE SHEETING FOR THESE SIGNS AND THEIR SUPPLEMENTAL PANELS (INCLUDES BLACK ON WHITE) SHALL BE NON-REFLECTIVE BLACK LEGEND ON ASTM TYPE IV BACKGROUND. WHERE RED IS SPECIFIED, OR WHERE THE COLOR OF THE SIGN IS WHITE ON BLACK, THE LEGEND SHALL BE ASTM TYPE IV RETROREFLECTIVE SHEETING ON NON-REFLECTIVE BLACK BACKGROUND. WARNING MESSAGES WITHIN REGULATORY SIGNS SHALL FOLLOW THE GUIDELINES FOR WARNING

E) ROUTE MARKERS - RETROREFLECTIVE SHEETING FOR ROUTE MARKERS (INCLUDES BLACK ON WHITE, GREEN ON WHITE, WHITE ON GREEN, WHITE ON RED/BLUE) SHALL MEET THE REQUIREMENTS OF GUIDE SIGNS ABOVE WHEN SPECIFIED AS THE LEGEND OF A GUIDE SIGN. RETROREFLECTIVE SHEETING FOR ALL INDEPENDENT ROUTE MARKERS AND THEIR AUXILIARY PANELS SHALL BE ASTM TYPE IV AND/OR NON-REFLECTIVE BLACK LEGEND ON ASTM TYPE IV BACKGROUND.

F) LOGOS AND/OR GRAPHICS - WITHIN SIGNS SHALL FOLLOW THE GUIDELINES FOR THE RESPECTIVE SIGN CLASSIFICATION UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS, OR AS DIRECTED BY THE ENGINEER.

G) CIVIL DEFENSE SIGNS AND OTHER SIGNS - NOT SPECIFICALLY FALLING INTO ONE OF THE CATEGORIES ABOVE, SHALL FOLLOW THE GUIDELINES FOR THE SIGN CLASSIFICATION THAT MOST CLOSELY MATCHES THE COLOR(S) OF THE PROPOSED SIGN.

4. THE FOLLOWING MINIMUM THICKNESS SHALL BE USED FOR THE APPROPRIATE WIDTH OF SHEET ALUMINUM BLANKS.

LONGEST DIMENSION

MINIMUM THICKNESS

UP TO 12"..... ..0.040" GREATER THAN 12" TO 24"... _0.063" GREATER THAN 24" TO 36"... ..0.080" __0.100" GREATER THAN 36" TO 48"... OVER 48"..... ..0.125"

SN-01

NO.	REVISION	ВҮ	DATE	DEPARTMENT OF TRANSPORTA	TION
				DIVISION OF TRANSPORTATION ENGINE	
				MONTGOMERY COUNTY, MARYLAN	ı D
				GENERAL NOTES AND PROPOS	SALS
				BROOKVILLE ROAD	
				FROM WARREN STREET TO)
				MONTGOMERY STREET	J
Dosia	ned By <u>KAM</u> Drawn By <u>KAM</u>	Checked B	PEDESTRIAN IMPROVEMENT:	5	
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