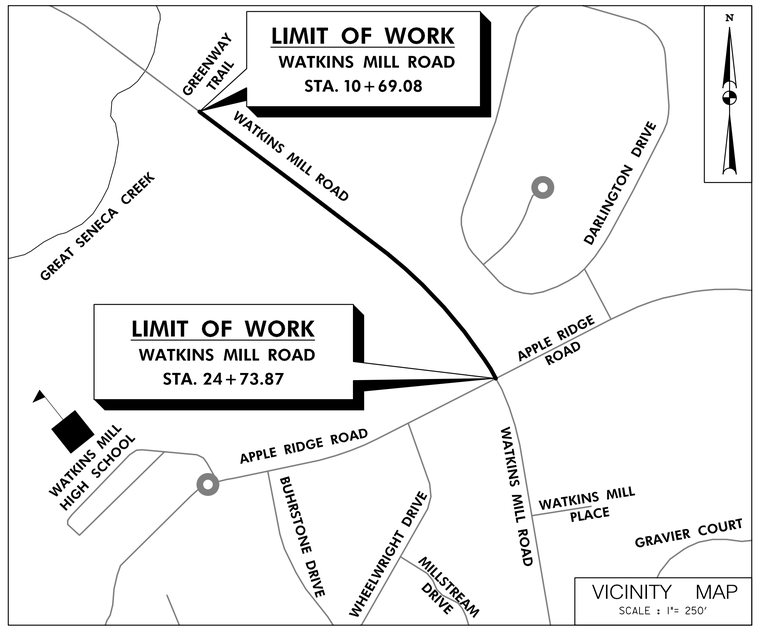
MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION

WATKINS MILL ROAD
FROM GREENWAY TRAIL
TO APPLE RIDGE ROAD
PEDESTRIAN IMPROVEMENTS

INDEX OF SHEETS



PROJECT LENGTH = 0.54 MILES

DATUM: NAD 8391 Horizontal
NAVD 88 Vertical

GENERAL NOTES

1. 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. TYPES OF STORM DRAIN STRUCTURES REFER TO THE "DESIGN STANDARDS" OF MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION, UNLESS OTHERWISE NOTED.
3. 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.
4. 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.
5. 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.
6. 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 UNDER GROUND 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.
7. ALL GRADING SHALL BE DONE IN SUCH A MANNER AS TO PROVIDE POSITIVE DRAINAGE.
8. ALL DISTURBED AREAS MUST BE TOPSOILED PER THE MDE "2011 STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL", PRIOR TO FINAL VEGETATIVE STABILIZATION.
9. ALL DISTURBED AREAS TO BE STABILIZED PER MDE REQUIREMENTS.
10. HORIZONTAL DATUM: MSHA, NAD 83/91 VERTICAL DATUM: NAVD 88

ABBREVIATIONS

AASHTO ..... American Association of State Highway Transportation Officials
ADT ..... Average Daily Traffic
AHD ..... Ahead
APPROX. ..... Approximate
℄ or ℄ ..... Baseline
BK ..... Back ⁄ Book
BIT. ..... Bituminous
B.C. ..... Bituminous Concrete
B.M. ..... Bench Mark
BOT. ..... Bottom
C.C. ..... Center of Curve
CAP ..... Corrugated Aluminum Pipe
CAPA ..... Corrugated Aluminum Pipe Arch
CATV ..... Cable Television
C.B.R. ..... California Bearing Ratio
℄ or ℄ ..... Centerline
CL. ..... Class
CLF ..... Chainlink Fence
CMP ..... Corrugated Metal Pipe
C.O. ..... Cleanout
COMB. ..... Combination
CONC. ..... Concrete
CONSTR. ..... Construction
COR. ..... Corner
CORR. ..... Correction
CPP–S ..... Corrugated Polyethylene Pipe – Type 'S'
CSP ..... Corrugated Steel Pipe – Aluminized Type 2
CSPA ..... Corrugated Steel Pipe Arch – Aluminized Type 2
DC ..... Degree of Curve
D.H.V. ..... Design Hourly Volume
D.I. ..... Drop Inlet
DIA. ..... Diameter
D.O. ..... Double Opening
E ..... East
E ..... Electric
E ..... External Distance
EA ..... Each
EB ..... Eastbound
ELEV ..... Elevation
ES ..... End Section
EX or EXIST. ..... Existing
FT ..... Feet
F or FL ..... Flowline
F.B.D. ..... Flat Bottom Ditch
F.H. ..... Fire Hydrant
FWD. ..... Forward
G ..... Gas
G.V. ..... Gas Valve
H.B. ..... Handbox
HDPE ..... High Density Polyetheylene
HDWL. ..... Headwall
HERCP. ..... Horizontal Ellipitical Reinforced Concrete Pipe
HP ..... High Point
IN ..... Inch
I.S.T. ..... Inlet Sediment Trap
INV. ..... Invert
J.B. ..... Junction Box
K ..... K Inlet
L ..... Length
LF ..... Linear Feet
L.L. ..... Liquid Limit
LP ..... Low Point
L.P. ..... Light Pole
LT. ..... Left
MAC. ..... Macadam
M.C. ..... Moisture Content
MAX. ..... Maximum
M.D.D. ..... Maximum Dry Content
MOD. ..... Modified
MIN. ..... Minimum
N ..... North
NB ..... Northbound
NE ..... Northeast
N.P. ..... Non–Plastic
O.C. ..... On Center
OHE ..... Overhead Electric
O.M. ..... Optimum Moisture
PAV'T. ..... Pavement
PC ..... Point of Curvature
PCC ..... Point of Compound Curvature
P℄ ..... Point of Crown
P℄E ..... Profile Grade Elevation
P.G.E. ..... Profile Ground Elevation
P.G.L. ..... Profile Grade Line
P℄L ..... Profile Ground Line
P℄ ..... Point of Rotation
P.I. ..... Plasticity Index
PI ..... Point of Intersection
POC ..... Point On Curve
POT ..... Point On Tangent
PPWP ..... Polyvinyl Chloride Profile Wall Pipe
PROP ..... Proposed
PRC ..... Point of Reverse Curve
PT ..... Point
PT ..... Point of Tangency
PVC ..... Point of Vertical Curve
PVC ..... Polyvinyl Chloride
PVI ..... Point of Vertical Intersection
PVRC ..... Point of Vertical Reverse Curve
PVT ..... Point of Vertical Tangency
R ..... Radius
R.F. ..... Rock Fragments
RT ..... Right
RW or R⁄W ..... Right of Way
RCP ..... Reinforced Concrete Pipe
RCPP ..... Reinforced Concrete Pressure Pipe
R.Q.D. ..... Rock Quality Designation
R.M. ..... Rootmat
S ..... South
SAN. ..... Sanitary Sewer
SB or S⁄B ..... Southbound
S.D. ..... Storm Drain
S.D.D. ..... Surface Drain Ditch
S℄E ..... Super Elevation
SF ..... Silt Fence
SF ..... Square Feet
SHT. ..... Sheet
SPP ..... Structural Steel Plate Pipe
SPPA ..... Structural Steel Plate Pipe Arch
S.P.T. ..... Standard Penetration Testing
SRP ..... Steel Spiral Rib Pipe – Aluminized Type 2
SRPA ..... Steel Spiral Rib Pipe Arch – Aluminized Type 2
SSD ..... Stopping Sight Distance
SSF ..... Super Silt Fence
STD. ..... Standard
STA. ..... Station
SO. ..... Single Opening
SY ..... Square Yards
SWM ..... Stormwater Management
T ..... Tangent
T ..... Telephone
T.C. ..... Top of Cover
T.G. ..... Top of Grate
T or TL ..... Traverse Line
T.M. ..... Top of Manhole
TRAV. ..... Traverse
TS ..... Temporary Swale
T.S. ..... Top of Slab
T.S. ..... Topsoil
TYP. ..... Typical
U.D. ..... Under Drain
U.G. ..... Underground
U.P. ..... Utility Pole
USDA ..... United States Department of Agriculture
VCL ..... Vertical Clearance
V.C.L. ..... Vertical Curve Length
W ..... Water
W ..... West
WB ..... Westbound
WB ..... Wetland Buffer
W.M. ..... Water Meter
W.S. ..... Wrapped Steel
WUS ..... Waters of the United States
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
PROPOSED FENCE LINE
EXISTING FENCE LINE
RIGHT OF WAY LINE
EXISTING ROADWAY
RAILROAD
BASE LINE OR SURVEY LINE — 31 +50 32
FIRE HYDRANT — F.H.
HISTORIC BOUNDARY — H
WETLAND BOUNDARY

PROPOSED PIPE / CULVERT
EXISTING PIPE / CULVERT
EXISTING DROP INLET
UTILITY POLE
WETLAND
WETLAND BUFFER — B
WATERS OF THE U.S. — WUS — OR
HEDGE / TREE LINE
BUSH / TREE
CONIFEROUS TREE
GROUND ELEVATION — DATUM LINE 173.45
GRADE ELEVATION — DATUM LINE 20.22

STANDARD SYMBOLS

100-YEAR FLOODPLAIN	MEDIAN INLET PROTECTION — MIP	STONE CHECK DAM — CD
AT-GRADE INLET PROTECTION — AGIP	MEDIAN SUMP INLET PROTECTION — MSIP	STONE/RIPRAP OUTLET SEDIMENT TRAP ST II — ST-II
BAFFLE BOARDS — BB	MOUNTABLE BERM	SUBSURFACE DRAINS — SSD
BENCHING — BENCHING	PERIMETER DIKE/SWALE — PDS-I	SUMP PIT — SP
CATCH BASIN INSERT — CBI	PERMANENT SOIL STABILIZATION MATTING-TYPE B	SUPER SILT FENCE — SSF
CHESAPEAKE BAY CRITICAL AREA — CBCA	PERMANENT SOIL STABILIZATION MATTING-TYPE C	TEMPORARY ACCESS BRIDGE — TB
CLEAR WATER DIVERSION PIPE — NOTE: DESIGNATION CWD-12 REFERS TO CLEAR WATER DIVERSION WITH 12 INCH PIPE. — CWD - 12	PIPE OUTLET SEDIMENT TRAP ST I — ST-I	TEMPORARY ACCESS CULVERT
CLEAR WATER PIPE — CWP	PIPE SLOPE DRAIN — NOTE: DESIGNATION PSD-12 REFERS TO PIPE SLOPE DRAIN WITH 12 IN PIPE — PSD - 12	TEMPORARY ASPHALT BERM — AB
COMBINATION INLET PROTECTION — COIP	PLUNGE POOL — PP	TEMPORARY BARRIER DIVERSION — TBD
CONCRETE WASHOUT STRUCTURE — CWS	PORTABLE SEDIMENT TANK — PST	TEMPORARY GABION OUTLET STRUCTURE — TGOS
CURB INLET PROTECTION — CIP	PROPOSED CONTOURS — 100	TREE PRESERVATION AREA FENCE (TPAF) — TPF
DIVERSION FENCE — DF	REMOVABLE PUMPING STATION — RPS	TEMPORARY SOIL STABILIZATION MATTING-TYPE A
DRAINAGE BOUNDARY — DA	RIPRAP INFLOW PROTECTION — RRP	TEMPORARY SOIL STABILIZATION MATTING-TYPE E
EARTH DIKE — NOTE: PLACE DESIGNATION (A-1, B-2, ETC.) ON FLOW CHANNEL SIDE OF DIKE. — A-I	RIPRAP OUTLET SEDIMENT TRAP ST III — ST-III	TEMPORARY SOIL STABILIZATION MATTING-TYPE D
EMERGENCY SPILLWAY — ES	ROCK OUTLET PROTECTION I — ROPI	TEMPORARY STONE OUTLET STRUCTURE — TSOS
EXISTING CONTOURS — 100	ROCK OUTLET PROTECTION II — ROPII	TEMPORARY SWALE — NOTE: PLACE DESIGNATION (A-1, B-2, ETC.) ON FLOW CHANNEL SIDE OF SWALE. — A-I
FILTER BAG — FB	ROCK OUTLET PROTECTION III — ROPIII	VERTICAL DRAW-DOWN DEVICE — VDDD
FILTER BERM — FB-A / FB-B	SILT FENCE — SF	WASH RACK OPTION — WR
FILTER LOG — NOTE: DESIGNATION FL-18 REFERS TO FILTER LOG WITH 18 INCH DIAMETER. — FL-18	SILT FENCE ON PAVEMENT — SFOP	WETLAND
GABION INFLOW PROTECTION — GP	SOD	WETLAND BUFFER — B
GABION INLET PROTECTION — GIP	STABILIZED CONSTRUCTION ENTRANCE (SCE) — SCE	
HORIZONTAL DRAW-DOWN DEVICE — HDDD	STANDARD INLET PROTECTION — SIP	
LIMIT OF DISTURBANCE — LOD	STOCKPILE AREA	

GN-01

NO.	REVISION	BY	DATE

Designed By KAM Drawn By KAM Checked By MCG

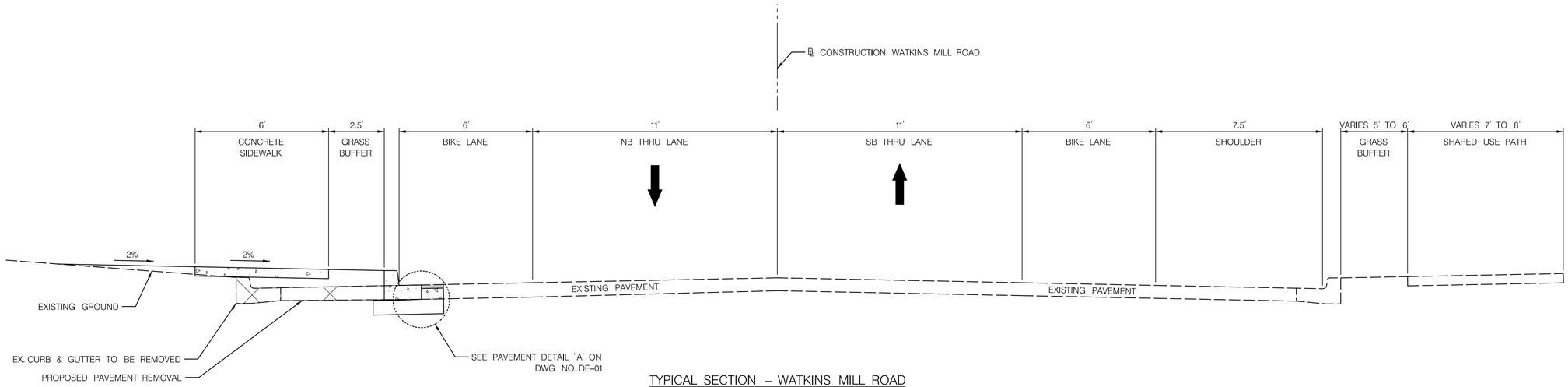
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

ABBREVIATIONS, CONVENTIONAL SIGNS, & STANDARD SYMBOLS
WATKINS MILL ROAD
FROM GREENWAY TRAIL TO
APPLE RIDGE ROAD
PEDESTRIAN IMPROVEMENTS

SCALE: N.T.S.

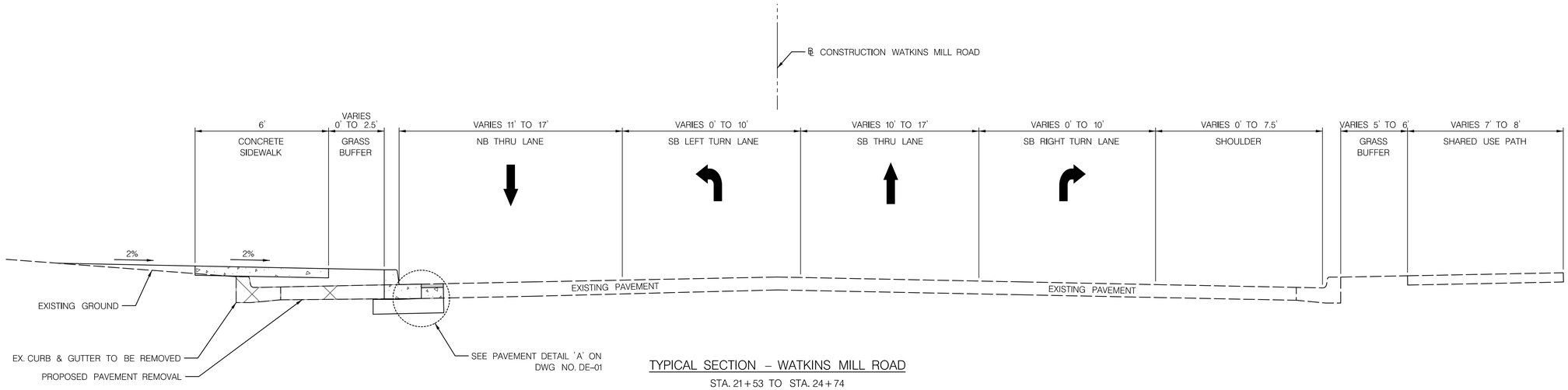
PLOTTED: Friday, May 09, 2025 AT 10:08 AM
FILE: I:\Projects\4022666\4022666_0009\90_CAD Models and Sheets\04_CT_Transportation\Watkins Mill\pGN-N001_WatkinsMill.dgn

BY: misnerka –



TYPICAL SECTION – WATKINS MILL ROAD

STA. 10+69 TO STA. 21+53
NOT TO SCALE



TYPICAL SECTION – WATKINS MILL ROAD

STA. 21+53 TO STA. 24+74
NOT TO SCALE

HT-01

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DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

TYPICAL SECTIONS
WATKINS MILL ROAD
FROM GREENWAY TRAIL TO
APPLE RIDGE ROAD
PEDESTRIAN IMPROVEMENTS

SCALE: 1"= 20'

PLOTTED: Friday, May 09, 2025 AT 10:08 AM
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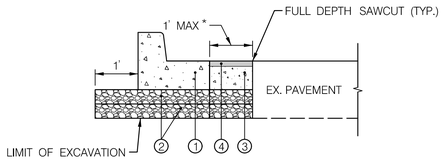
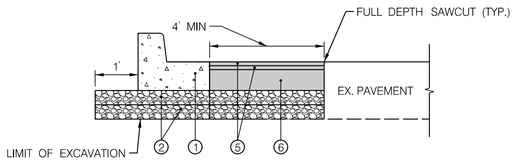
BY: misnerka –



* OPTIONAL SLOT AND BACKFILL TO BE INCIDENTAL TO COMBINATION CURB AND GUTTER AS PER STD. NO. MD 580.03.

PAVEMENT DETAIL 'A'
CURB AND GUTTER PLACEMENT
NOT TO SCALE



PAVEMENT DETAIL 'B'
FULL DEPTH PAVEMENT FOR PIPE CONNECTIONS
NOT TO SCALE

PAVEMENT LEGEND

① COMBINATION CURB & GUTTER TYPE A (STD. NO. MC-100.01)

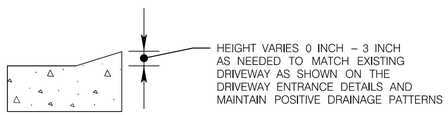
② 4" GRADED AGGREGATE BASE COURSE

③ 6" PORTLAND CEMENT CONCRETE MIX NO. 3 OR MIX NO. 9

④ 2" HOT MIX ASPHALT SURFACE PAVEMENT FOR ROADWAYS: SUPERPAVE 12.5mm, PG 64-22

⑤ 1.5" HOT MIX ASPHALT SURFACE PAVEMENT FOR ROADWAYS: SUPERPAVE 12.5mm, PG 64-22

⑥ 5" HOT MIX ASPHALT BASE PAVEMENT FOR ROADWAYS: SUPERPAVE 25mm, PG 64-22

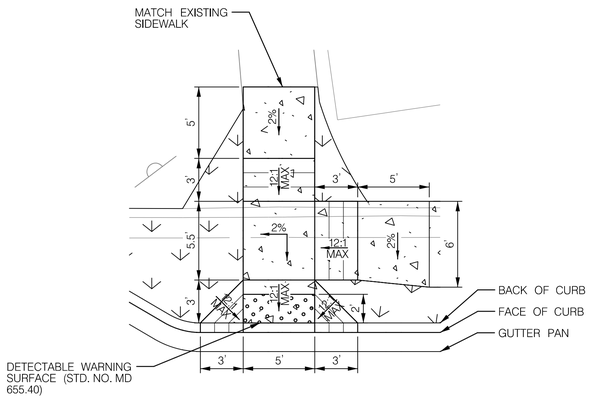


DEPRESSED CURB DETAIL
NOT TO SCALE

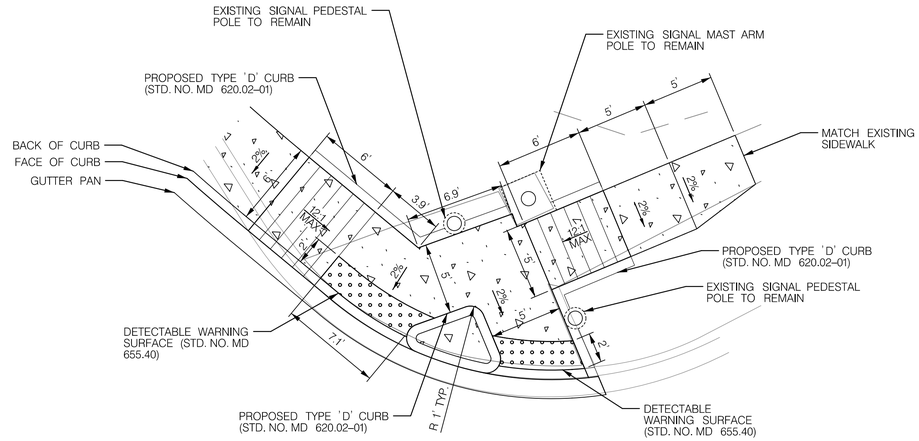
NOTES:

1) PAYMENT FOR DEPRESSING THE CURB SHALL BE INCIDENTAL TO THE CONTRACT UNIT PRICE PER LINEAR FOOT OF COMBINATION CONCRETE CURB AND GUTTER (ANY TYPE).

2) ALL OTHER CURB DIMENSIONS SHALL MATCH TYPE F CURB AND GUTTER SHOWN ON MCDOT STANDARD NO. MC-104.01.



SIDEWALK RAMP DETAIL 'A'
N.T.S.
STA. 10+91, LT



SIDEWALK RAMP DETAIL 'B'
N.T.S.
STA. 24+65, LT

LOCATION	'X'	'Z'
11+56, LT	13.5'	10'
19+05, LT	13.5'	16'

PLAN

SECTION A-A

DRIVEWAY ENTRANCE DETAIL 'A'
N.T.S.
STA. 11+56, LT
STA. 19+05, LT

LEGEND

- CONCRETE SIDEWALK
- DETECTABLE WARNING SURFACE
- EXISTING PAVEMENT REMOVAL & PROPOSED TURFGRASS SOD
- PORTLAND CEMENT CONCRETE FOR DRIVEWAYS
- FULL DEPTH PAVEMENT

NO.	REVISION	BY	DATE

Designed By KAM Drawn By KAM Checked By MCG

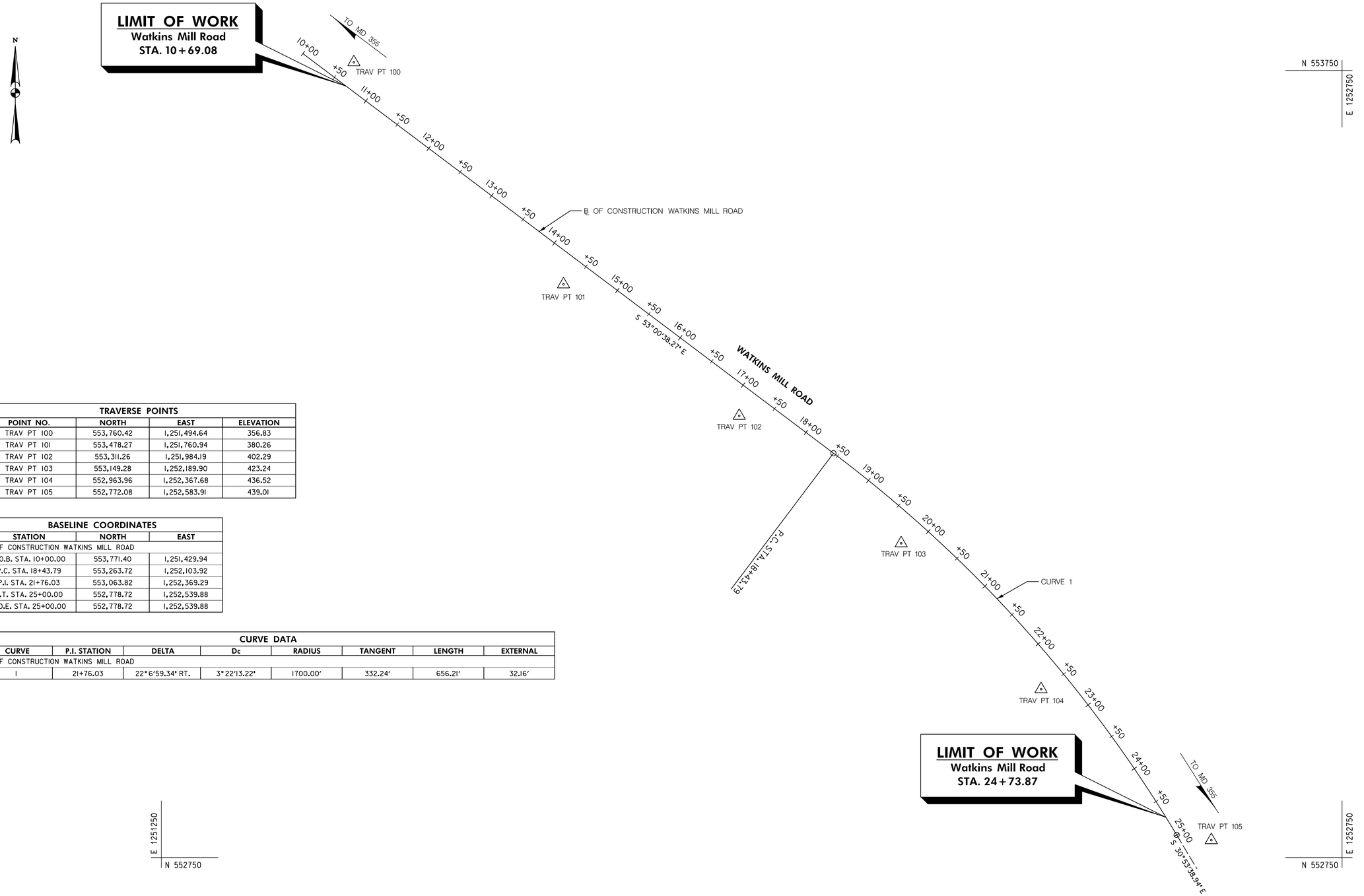
DE-01

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

MISCELLANEOUS DETAILS
WATKINS MILL ROAD FROM GREENWAY TRAIL TO APPLE RIDGE ROAD PEDESTRIAN IMPROVEMENTS

SCALE: N.T.S.

PLOTTED: Friday, May 09, 2025 AT 10:08 AM
FILE: I:\Projects\4022666\4022666_0009\90_CAD Models and Sheets\04_CT_Transportation\Watkins Mill pHD-D001_WatkinsMill.dgn
BY: misnerka



TRAVERSE POINTS			
POINT NO.	NORTH	EAST	ELEVATION
TRAV PT 100	553,760.42	1,251,494.64	356.83
TRAV PT 101	553,478.27	1,251,760.94	380.26
TRAV PT 102	553,311.26	1,251,984.19	402.29
TRAV PT 103	553,149.28	1,252,189.90	423.24
TRAV PT 104	552,963.96	1,252,367.68	436.52
TRAV PT 105	552,772.08	1,252,583.91	439.01

BASELINE COORDINATES		
STATION	NORTH	EAST
℄ OF CONSTRUCTION WATKINS MILL ROAD		
P.O.B. STA. 10+00.00	553,771.40	1,251,429.94
P.C. STA. 18+43.79	553,263.72	1,252,103.92
P.I. STA. 21+76.03	553,063.82	1,252,369.29
P.T. STA. 25+00.00	552,778.72	1,252,539.88
P.O.E. STA. 25+00.00	552,778.72	1,252,539.88

CURVE DATA							
CURVE	P.I. STATION	DELTA	Dc	RADIUS	TANGENT	LENGTH	EXTERNAL
℄ OF CONSTRUCTION WATKINS MILL ROAD							
1	21+76.03	22° 6'59.34" RT.	3°22'13.22"	1700.00'	332.24'	656.21'	32.16'

GS-01

NO.	REVISION	BY	DATE

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DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

GEOMETRY SHEET
WATKINS MILL ROAD FROM GREENWAY TRAIL TO APPLE RIDGE ROAD PEDESTRIAN IMPROVEMENTS

SCALE: 1"= 60'

PLOTTED: Friday, May 09, 2025 AT 10:08 AM
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BY: misnerka -

FULL DEPTH SAW CUTS
383 L.F. STA. 10+69 TO STA. 14+50, LT.

REMOVAL OF EXISTING PAVEMENT AND SIDEWALK
147 C.Y. STA. 10+69 TO STA. 14+50, LT.

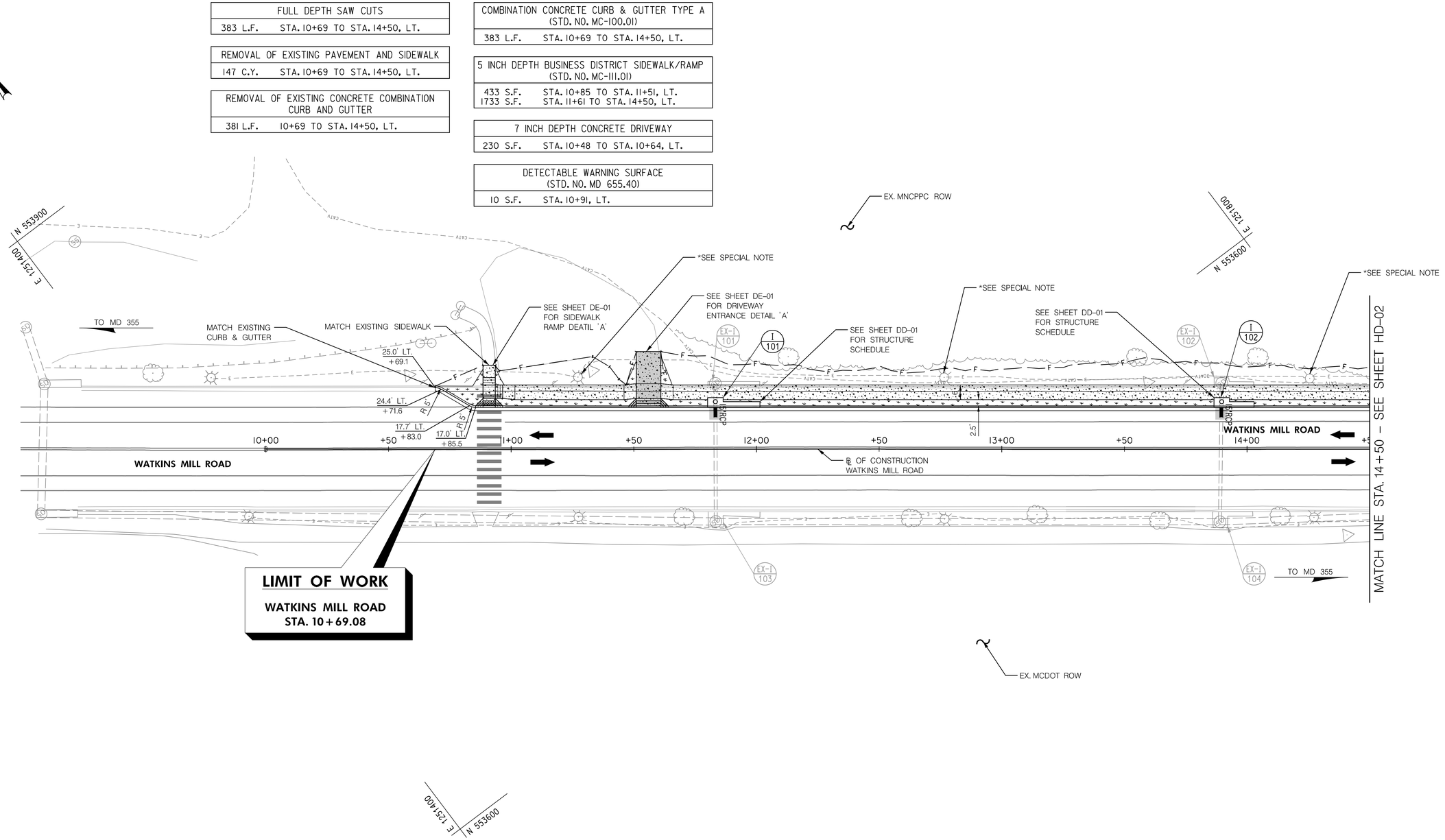
REMOVAL OF EXISTING CONCRETE COMBINATION CURB AND GUTTER
381 L.F. 10+69 TO STA. 14+50, LT.

COMBINATION CONCRETE CURB & GUTTER TYPE A (STD. NO. MC-100.01)
383 L.F. STA. 10+69 TO STA. 14+50, LT.

5 INCH DEPTH BUSINESS DISTRICT SIDEWALK/RAMP (STD. NO. MC-111.01)
433 S.F. STA. 10+85 TO STA. 11+51, LT. 1733 S.F. STA. 11+61 TO STA. 14+50, LT.

7 INCH DEPTH CONCRETE DRIVEWAY
230 S.F. STA. 10+48 TO STA. 10+64, LT.

DETECTABLE WARNING SURFACE (STD. NO. MD 655.40)
10 S.F. STA. 10+91, LT.



*SPECIAL NOTE: CONTRACTOR SHALL FILL AROUND LIGHT POLE FOUNDATIONS TO PROVIDE POSITIVE DRAINAGE. LIGHT POLE FOUNDATIONS SHALL NOT BE COMPLETELY COVERED WITH FILL. CONTRACTOR SHALL DETERMINE IF LIGHT POLES NEED TO BE RESET ON NEW FOUNDATIONS AND NOTIFY THE PROJECT ENGINEER.

LEGEND

- CONCRETE SIDEWALK
- DETECTABLE WARNING SURFACE
- EXISTING PAVEMENT REMOVAL & PROPOSED TURFGRASS SOD
- PORTLAND CEMENT CONCRETE FOR DRIVEWAYS
- FULL DEPTH PAVEMENT

NO.	REVISION	BY	DATE

Designed By KAM Drawn By KAM Checked By MCG

HD-01

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

ROADWAY PLAN
WATKINS MILL ROAD FROM GREENWAY TRAIL TO APPLE RIDGE ROAD PEDESTRIAN IMPROVEMENTS

SCALE: 1"= 20'

PLOTTED: Friday, May 09, 2025 AT 10:08 AM
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BY: misnerka –

FULL DEPTH SAW CUTS
552 L.F. STA. 14+50 TO STA. 20+00, LT.

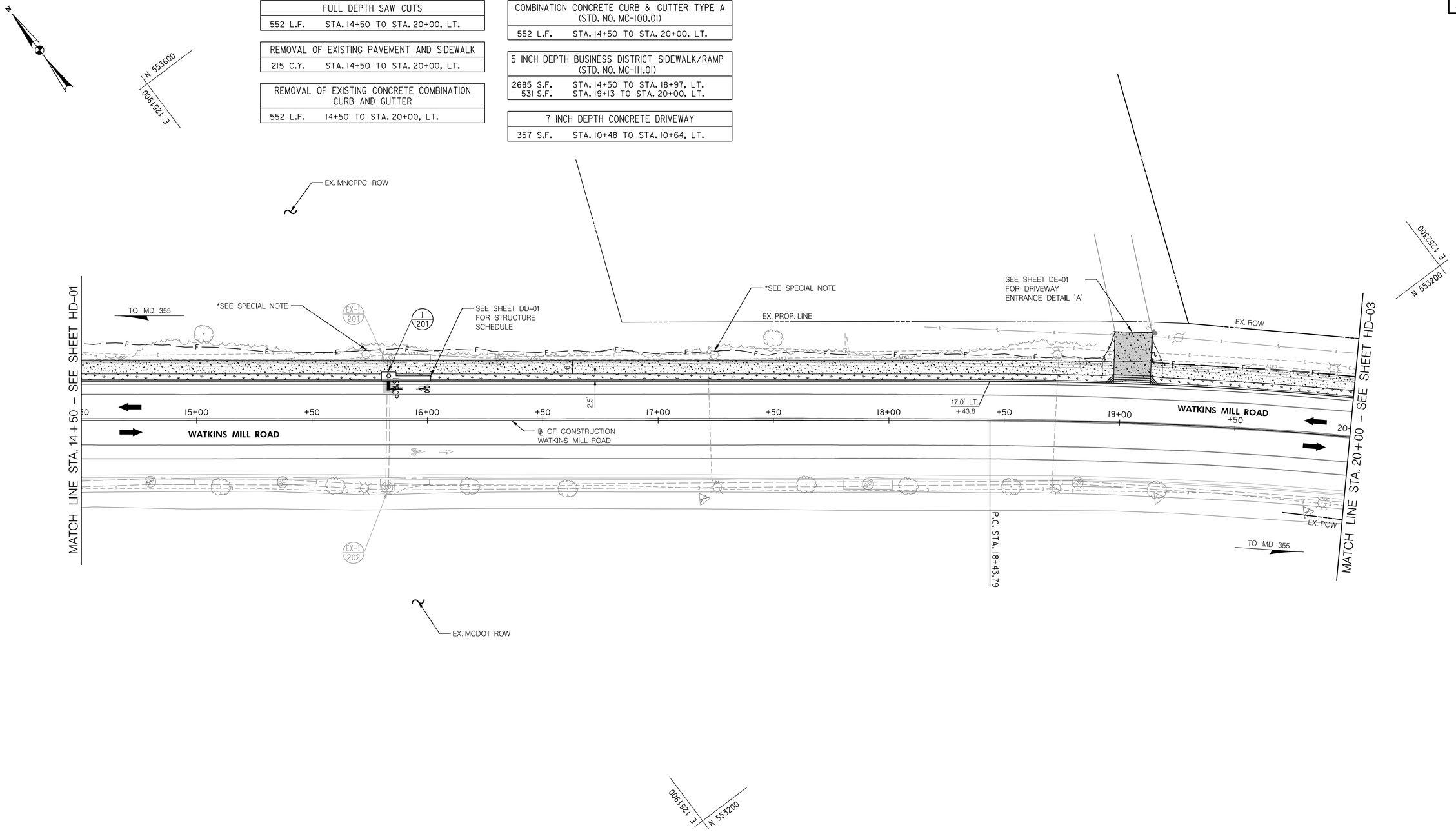
REMOVAL OF EXISTING PAVEMENT AND SIDEWALK
215 C.Y. STA. 14+50 TO STA. 20+00, LT.

REMOVAL OF EXISTING CONCRETE COMBINATION CURB AND GUTTER
552 L.F. 14+50 TO STA. 20+00, LT.

COMBINATION CONCRETE CURB & GUTTER TYPE A (STD. NO. MC-100.01)
552 L.F. STA. 14+50 TO STA. 20+00, LT.

5 INCH DEPTH BUSINESS DISTRICT SIDEWALK/RAMP (STD. NO. MC-111.01)
2685 S.F. STA. 14+50 TO STA. 18+97, LT. 531 S.F. STA. 19+13 TO STA. 20+00, LT.

7 INCH DEPTH CONCRETE DRIVEWAY
357 S.F. STA. 10+48 TO STA. 10+64, LT.



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LEGEND

- CONCRETE SIDEWALK
- DETECTABLE WARNING SURFACE
- EXISTING PAVEMENT REMOVAL & PROPOSED TURFGRASS SOD
- PORTLAND CEMENT CONCRETE FOR DRIVEWAYS
- FULL DEPTH PAVEMENT

NO.	REVISION	BY	DATE

Designed By KAM Drawn By KAM Checked By MCG

HD-02

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

ROADWAY PLAN
WATKINS MILL ROAD
FROM GREENWAY TRAIL TO
APPLE RIDGE ROAD
PEDESTRIAN IMPROVEMENTS

SCALE: 1"= 20'

PLOTTED: Friday, May 09, 2025 AT 10:08 AM
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BY: misnerka –

FULL DEPTH SAW CUTS
485 L.F. STA. 20+00 TO STA. 24+73, LT.

REMOVAL OF EXISTING PAVEMENT AND SIDEWALK
183 C.Y. STA. 20+00 TO STA. 24+73, LT.

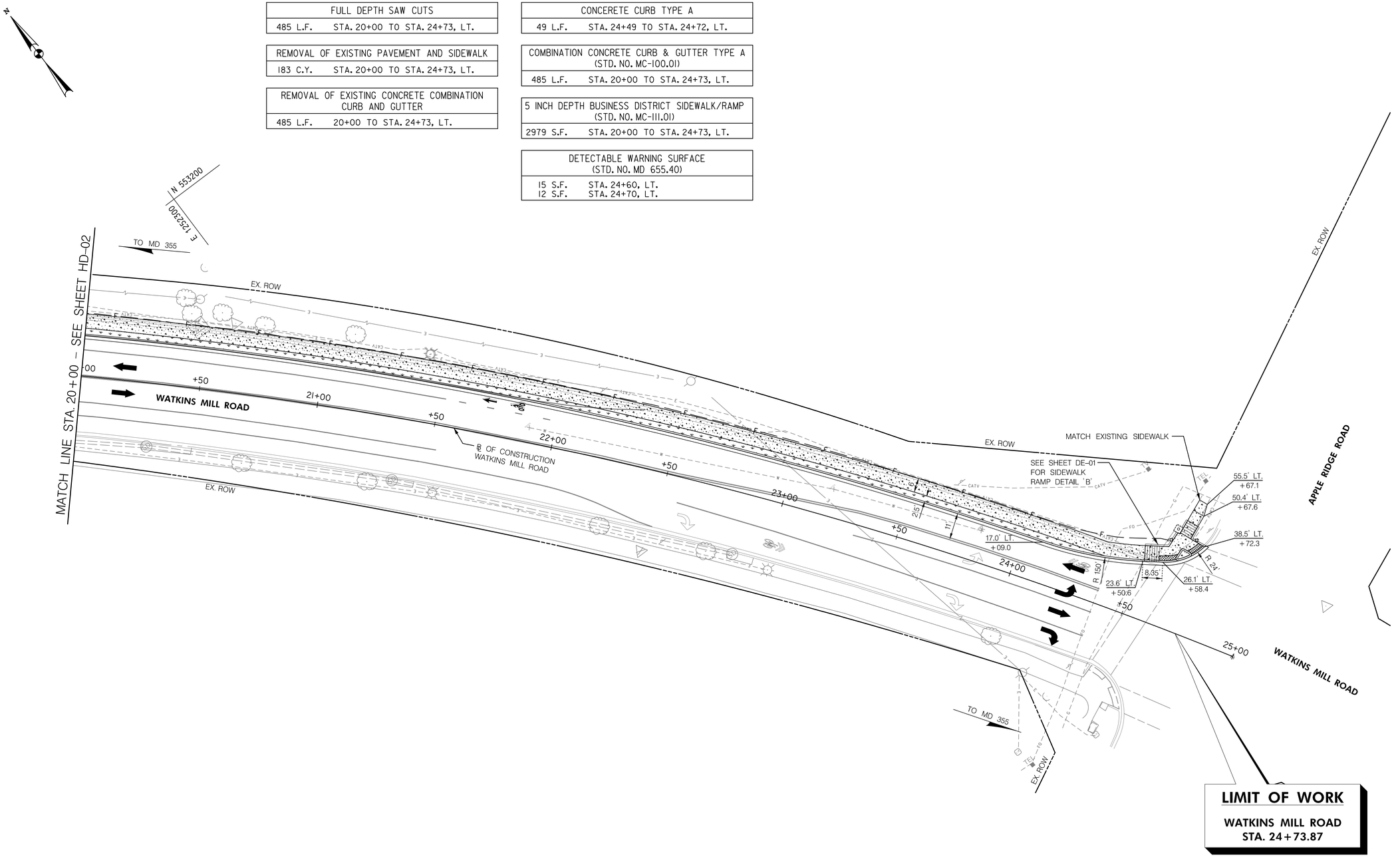
REMOVAL OF EXISTING CONCRETE COMBINATION CURB AND GUTTER
485 L.F. 20+00 TO STA. 24+73, LT.

CONCERETE CURB TYPE A
49 L.F. STA. 24+49 TO STA. 24+72, LT.

COMBINATION CONCRETE CURB & GUTTER TYPE A (STD. NO. MC-100.01)
485 L.F. STA. 20+00 TO STA. 24+73, LT.

5 INCH DEPTH BUSINESS DISTRICT SIDEWALK/RAMP (STD. NO. MC-111.01)
2979 S.F. STA. 20+00 TO STA. 24+73, LT.

DETECTABLE WARNING SURFACE (STD. NO. MD 655.40)
15 S.F. STA. 24+60, LT.
12 S.F. STA. 24+70, LT.



LIMIT OF WORK
WATKINS MILL ROAD
STA. 24+73.87

HD-03

LEGEND

- CONCRETE SIDEWALK
- DETECTABLE WARNING SURFACE
- EXISTING PAVEMENT REMOVAL & PROPOSED TURFGRASS SOD
- PORTLAND CEMENT CONCRETE FOR DRIVEWAYS
- FULL DEPTH PAVEMENT

NO.	REVISION	BY	DATE

Designed By KAM Drawn By KAM Checked By MCG

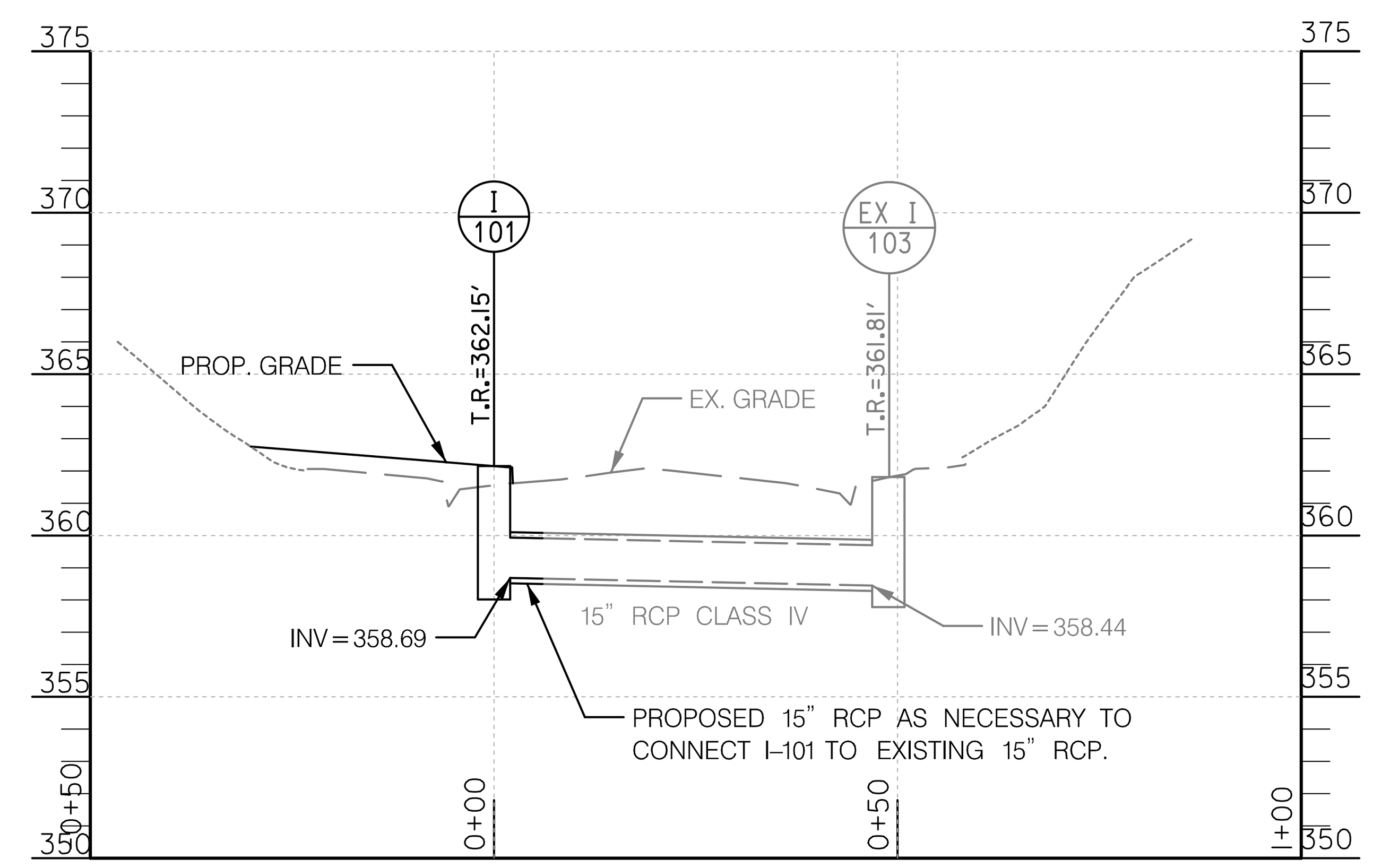
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

ROADWAY PLAN
WATKINS MILL ROAD
FROM GREENWAY TRAIL TO
APPLE RIDGE ROAD
PEDESTRIAN IMPROVEMENTS

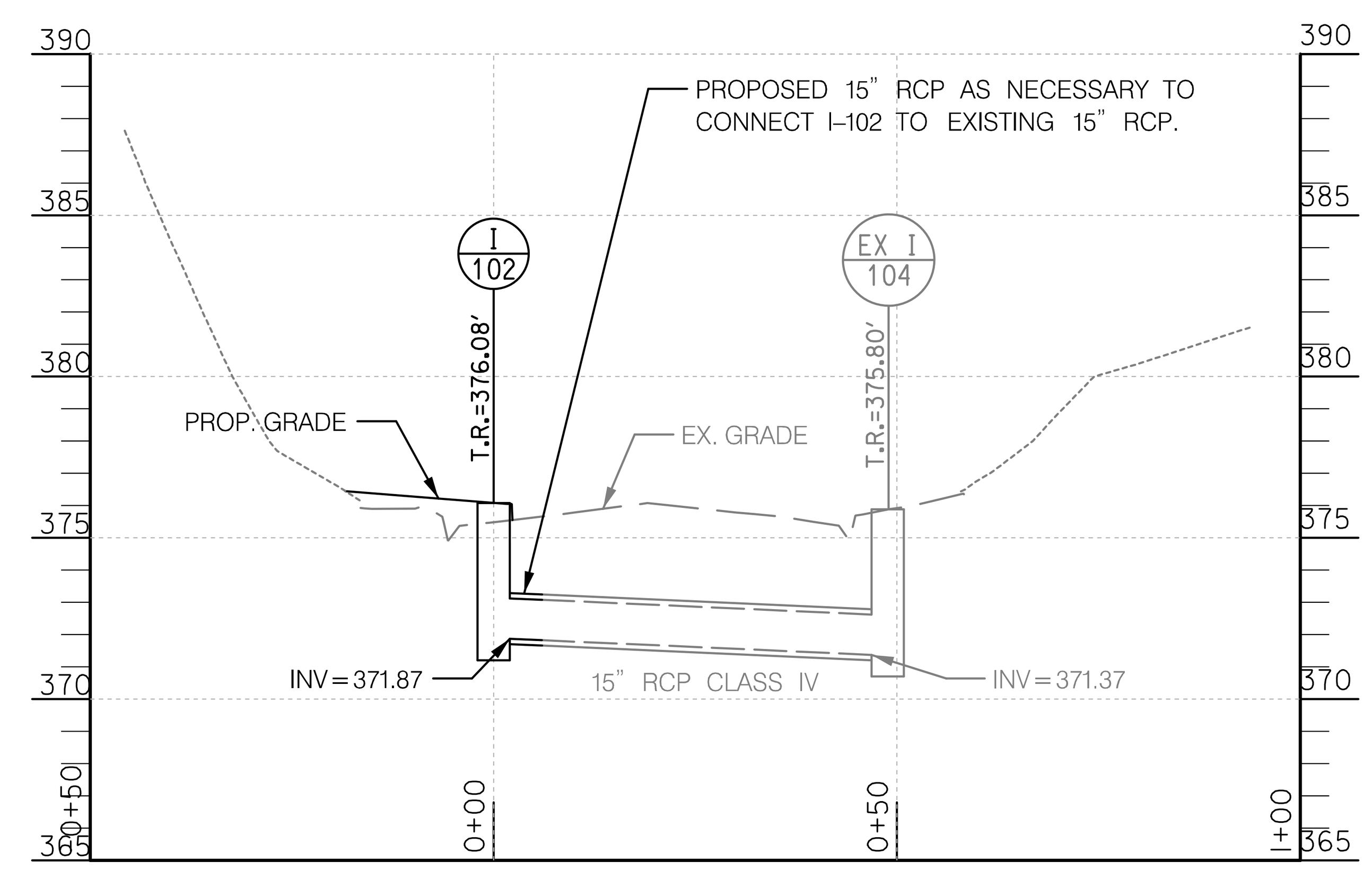
SCALE: 1"= 20'

BY: misnerka –

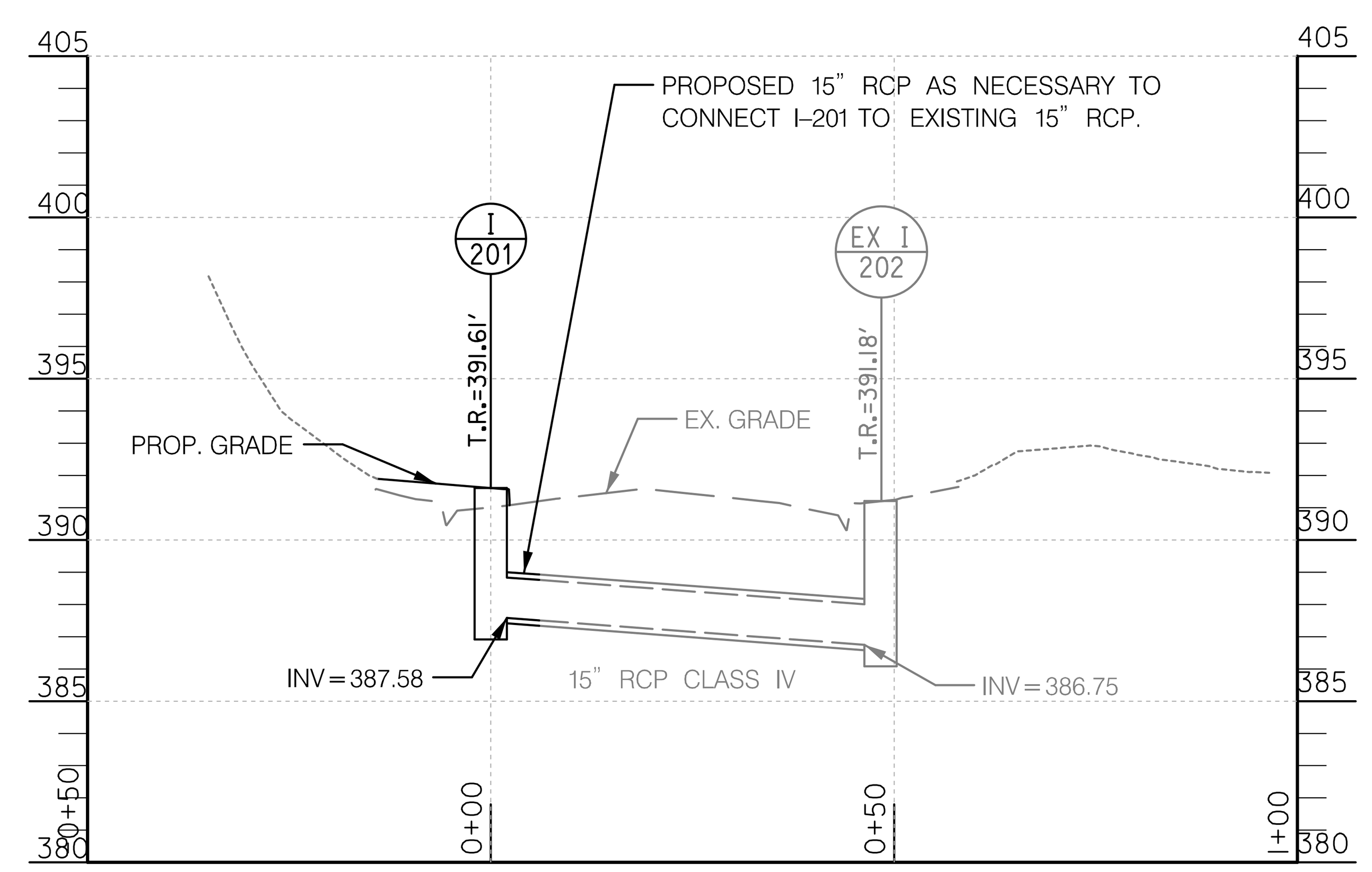
PLOTTED: Friday, May 09, 2025 AT 10:08 AM
FILE: I:\Projects\4022666\4022666_0009\90_CAD Models and Sheets\04_CT_Transportation\Watkins Mill\pHD-P003_WatkinsMill.dgn



I-101 TO EX I-103 PROFILE
SCALE: HORIZONTAL: 1" = 20'
VERTICAL: 1" = 5'

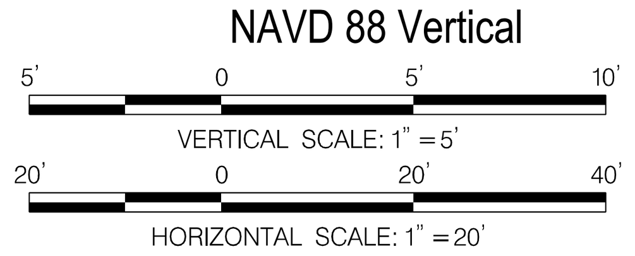


I-102 TO EX I-104 PROFILE
SCALE: HORIZONTAL: 1" = 20'
VERTICAL: 1" = 5'



I-201 TO EX I-202 PROFILE
SCALE: HORIZONTAL: 1" = 20'
VERTICAL: 1" = 5'

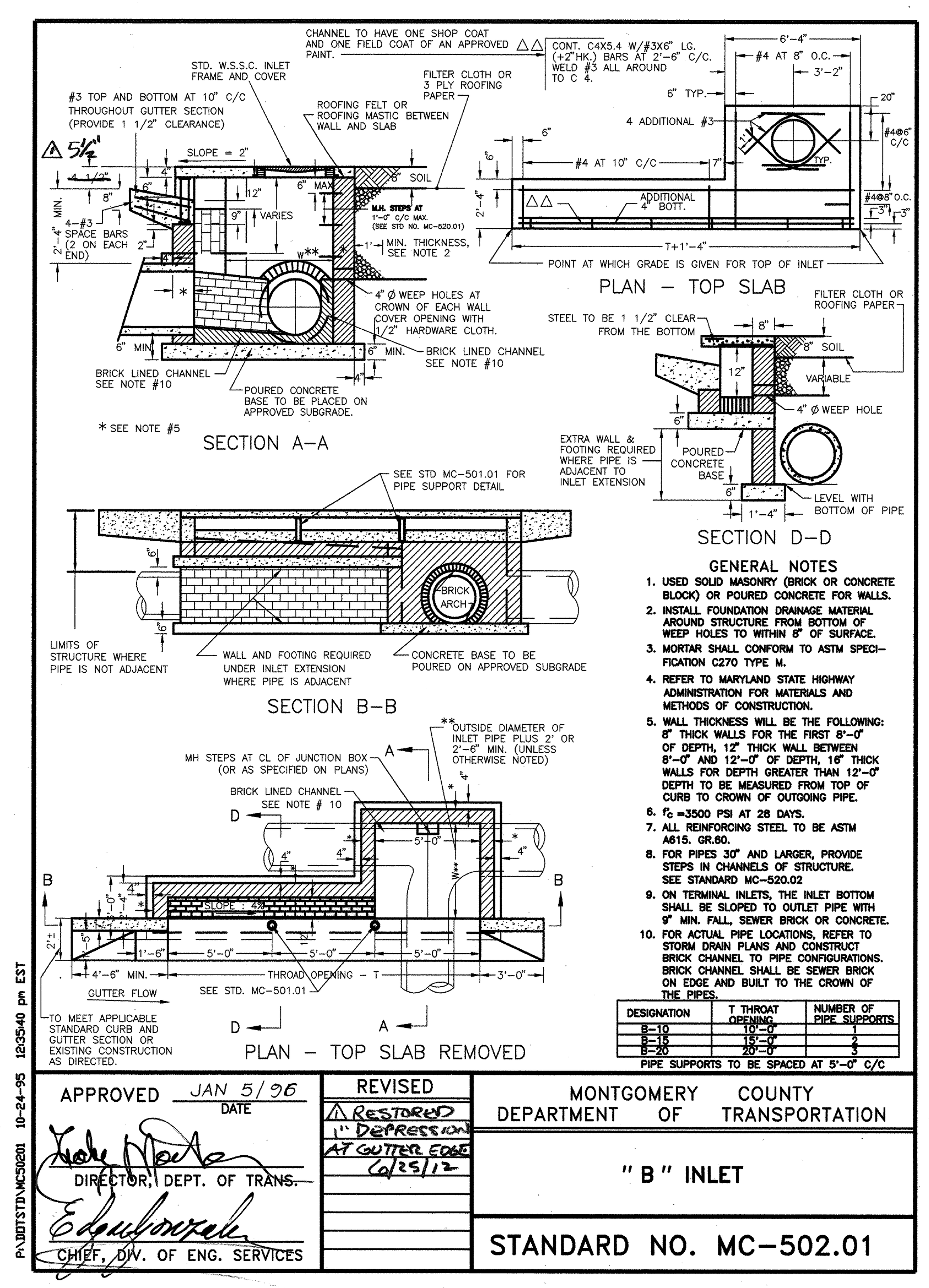
DATUM: NAD 83/91 Horizontal
NAVD 88 Vertical



STRUCTURE SCHEDULE

NO.	DETAIL	REMARKS	BASELINE	STATION	OFFSET
I-101	MC-502.01	"B" 20' INLET	WATKINS MILL ROAD	11+83.24	19.33 LT
I-102	MC-502.01	"B" 15' INLET	WATKINS MILL ROAD	13+89.68	19.33 LT
I-201	MC-502.01	"B" 20' INLET	WATKINS MILL ROAD	15+83.26	19.33 LT

NOTE: STORM DRAIN STRUCTURES SHOWN ARE FOR INFORMATION ONLY. CONTRACTOR TO VERIFY STRUCTURE LOCATIONS AND INVERTS PRIOR TO BEGINNING WORK.



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NO.	REVISION	BY	DATE

Designed By KAM Drawn By KAM Checked By MCG

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

DRAINAGE DETAILS
WATKINS MILL ROAD FROM GREENWAY TRAIL TO APPLE RIDGE ROAD PEDESTRIAN IMPROVEMENTS

SCALE: AS SHOWN

BY: misnerka -

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:

DESIGN

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

A A S H T O - "HIGHWAY SAFETY 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
10 YEAR RECURRENCE INTERVAL

100 MPH - GROUND MOUNT SIGN STEEL SUPPORTS
10 YEAR RECURRENCE INTERVAL

100 MPH - OVERHEAD AND CANTILEVER STRUCTURES
50 YEAR RECURRENCE INTERVAL

} ALL DISTRICTS

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.

1. GUIDE SIGNS
   - A) STRUCTURAL TYPES
     - OH - OVERHEAD
     - C - CANTILEVER
     - GM - GROUND MOUNT, BREAKAWAY OR NON-BREAKWAY
     - BM - BRIDGE MOUNTED
   - B) PANELS
     - MATERIAL - EXTRUDED ALUMINUM
     - COPY - DIRECT APPLIED
       - I) HIGH INTENSITY (NEW SIGNS AND REVISIONS TO EXISTING SIGNS)

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

IDENTIFICATION OF SIGNS AND PANELS

GUIDE SIGNS

EACH GUIDE SIGN IS IDENTIFIED BY A SIGN NUMBER ON THE PLANS AND IN THE TABULATIONS. (GM-1, GM-2, GM-3, etc)
SIGNS ON STRUCTURES ARE IDENTIFIED WITH A NUMBER AND WHERE VARIATIONS OCCUR, A LOWER CASE LETTER. (OH-1a, OH-1b, OH-1c)

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.

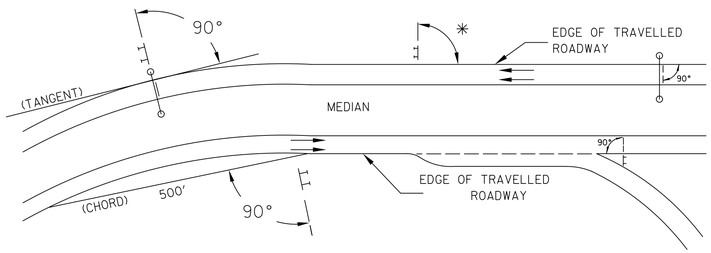
PANEL LAYOUT AND ALPHABETS

1. 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 MdMUTCD 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

1. 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

1. 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

1. 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:

1. 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 I 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 SIGNS.
   - 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"
GREATER THAN 36" TO 48"	0.100"
OVER 48"	0.125"

SN-01

NO.	REVISION	BY	DATE

Designed By KAM Drawn By KAM Checked By MCG

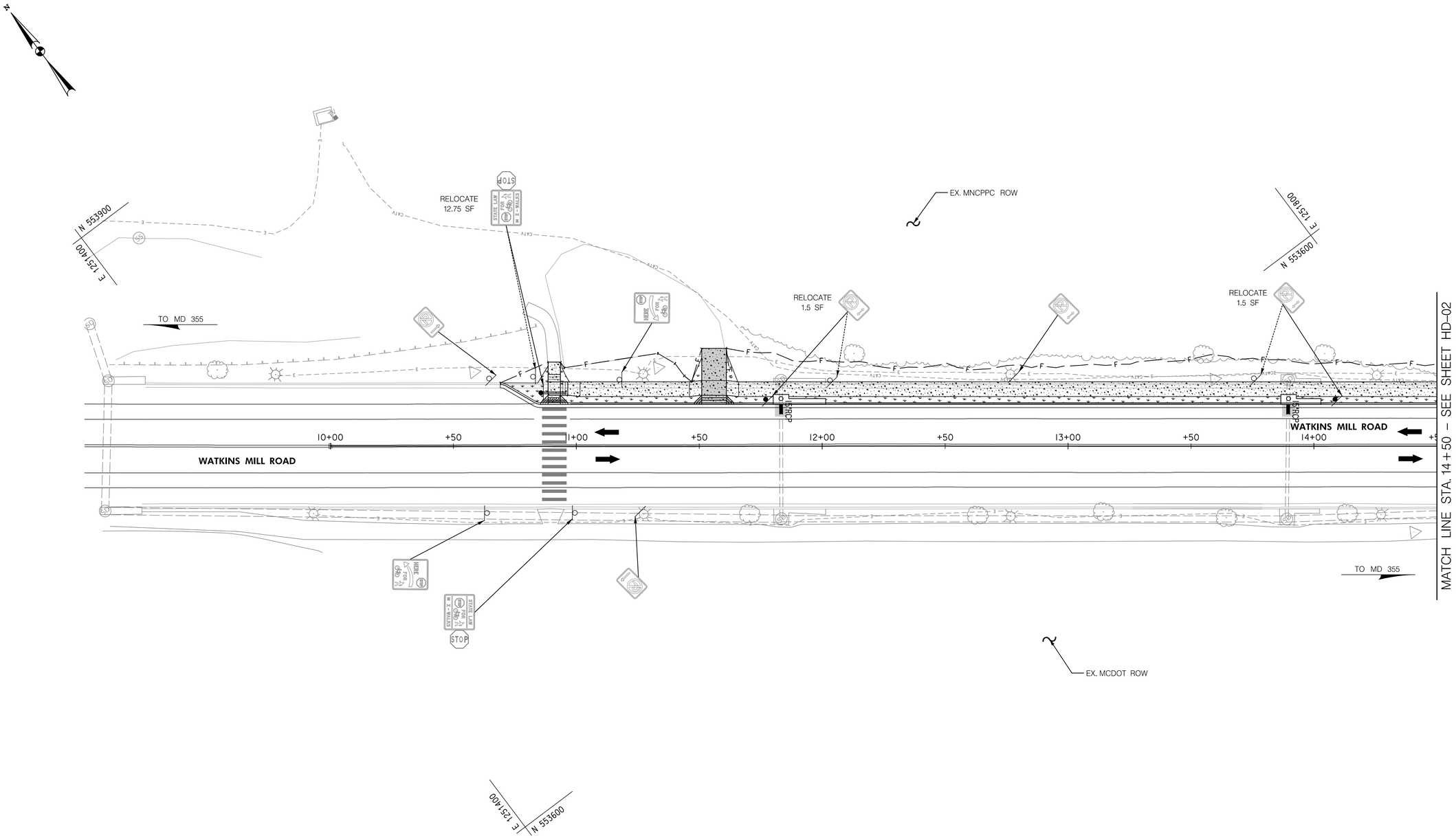
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

GENERAL NOTES AND PROPOSALS
WATKINS MILL ROAD
FROM GREENWAY TRAIL TO
APPLE RIDGE ROAD
PEDESTRIAN IMPROVEMENTS

SCALE: N.T.S.

PLOTTED: Friday, May 09, 2025 AT 10:08 AM
FILE: I:\Projects\4022666\4022666_0009\06_CAD Models and Sheets\04_CT_Transportation\Watkins Mill\pSN-1001_WatkinsMill.dgn

BY: misnerka -



PAVEMENT MARKING LEGEND

(A) PERMANENT WHITE PREFORMED PAVEMENT MARKING LETTERS, SYMBOLS, ARROWS, AND NUMBERS
(B) REMOVAL OF EXISTING PAVEMENT MARKING LETTERS, SYMBOLS, ARROWS, AND NUMBERS

GENERAL NOTES

1. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH SHA STANDARDS.
2. ALL EXISTING SIGNS SHALL REMAIN UNLESS NOTED ON THE PLAN.
3. TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH MCDOT STANDARDS.
4. THE CONTRACTOR SHALL CONTACT MISS UTILITY TO VERIFY ALL UNDERGROUND UTILITIES PRIOR TO THE START OF CONSTRUCTION. IF ANY CONFLICTS ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
5. ALL PROPOSED SIGNS SHALL BE INSTALLED ON SQUARE PERFORATED TUBULAR STEEL SIGN POST(S).
6. ALL PAVEMENT MARKINGS LINE WIDTH DIMENSIONS ARE FROM CENTER OF MARKING TO FACE OF CURB FOR INSIDE/OUTSIDE LANES AND FROM CENTER OF MARKING TO CENTER OF MARKING FOR ALL OTHERS.

SIGNING LEGEND

SYMBOL	
	EXISTING GROUND MOUNTED SIGN AND SUPPORTS
	PROPOSED GROUND MOUNTED SIGN AND SUPPORTS
	EXISTING SIGN TO REMAIN
	EXISTING SIGN TO BE REMOVED
	PROPOSED SIGN TO BE INSTALLED

NO.	REVISION	BY	DATE

Designed By KAM Drawn By KAM Checked By MCG

SN-02

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

SIGNING AND MARKING PLAN
WATKINS MILL ROAD FROM GREENWAY TRAIL TO APPLE RIDGE ROAD PEDESTRIAN IMPROVEMENTS

SCALE: 1"= 20'

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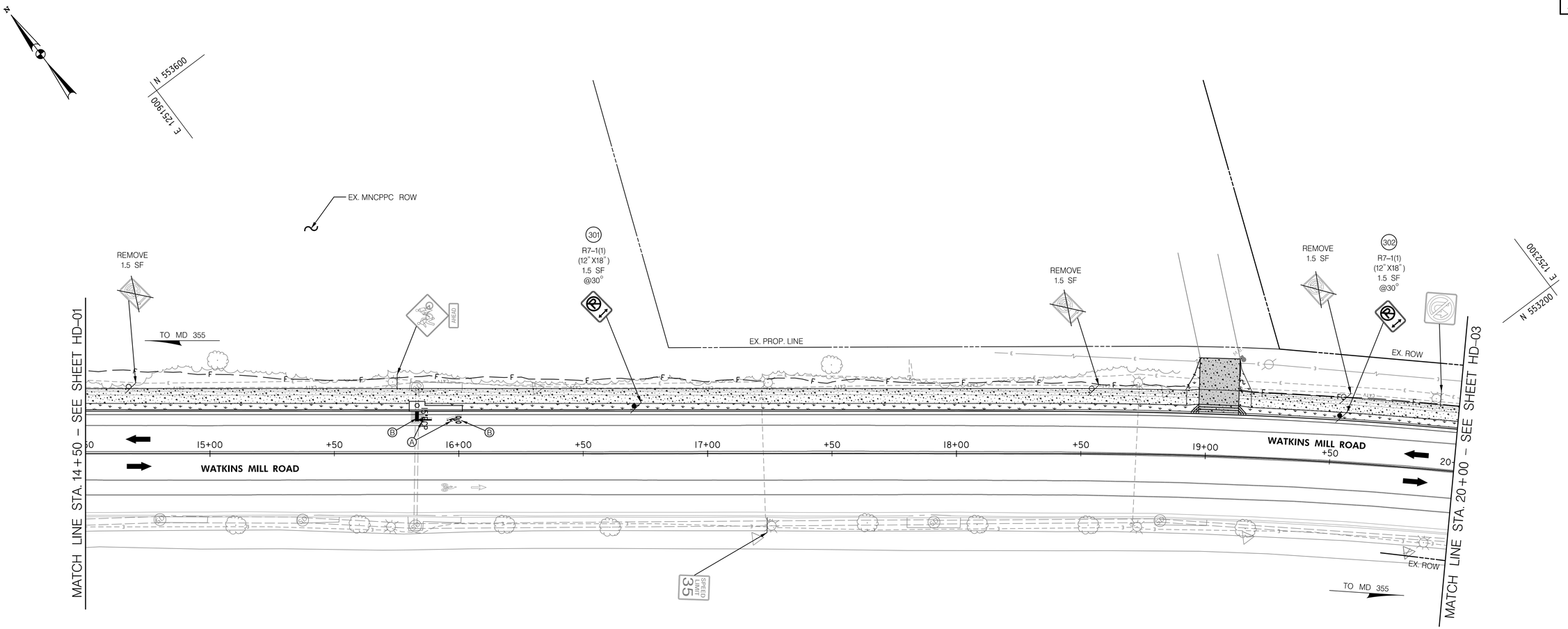
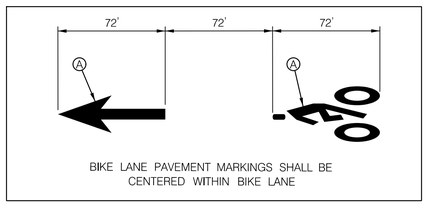
BY: misnerka -



TYPICAL BIKE LANE MARKING DETAIL



PAVEMENT MARKING LEGEND

Ⓐ PERMANENT WHITE PREFORMED PAVEMENT MARKING LETTERS, SYMBOLS, ARROWS, AND NUMBERS
Ⓑ REMOVAL OF EXISTING PAVEMENT MARKING LETTERS, SYMBOLS, ARROWS, AND NUMBERS

GENERAL NOTES

1. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH SHA STANDARDS.
2. ALL EXISTING SIGNS SHALL REMAIN UNLESS NOTED ON THE PLAN.
3. TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH MCDOT STANDARDS.
4. THE CONTRACTOR SHALL CONTACT MISS UTILITY TO VERIFY ALL UNDERGROUND UTILITIES PRIOR TO THE START OF CONSTRUCTION. IF ANY CONFLICTS ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
5. ALL PROPOSED SIGNS SHALL BE INSTALLED ON SQUARE PERFORATED TUBULAR STEEL SIGN POST(S).
6. ALL PAVEMENT MARKINGS LINE WIDTH DIMENSIONS ARE FROM CENTER OF MARKING TO FACE OF CURB FOR INSIDE/OUTSIDE LANES AND FROM CENTER OF MARKING TO CENTER OF MARKING FOR ALL OTHERS.

SIGNING LEGEND

SYMBOL	
	EXISTING GROUND MOUNTED SIGN AND SUPPORTS
	PROPOSED GROUND MOUNTED SIGN AND SUPPORTS
	EXISTING SIGN TO REMAIN
	EXISTING SIGN TO BE REMOVED
	PROPOSED SIGN TO BE INSTALLED

NO.	REVISION	BY	DATE

Designed By KAM Drawn By KAM Checked By MCG

SN-03

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

SIGNING AND MARKING PLAN
WATKINS MILL ROAD
FROM GREENWAY TRAIL TO
APPLE RIDGE ROAD
PEDESTRIAN IMPROVEMENTS

SCALE: 1"= 20'

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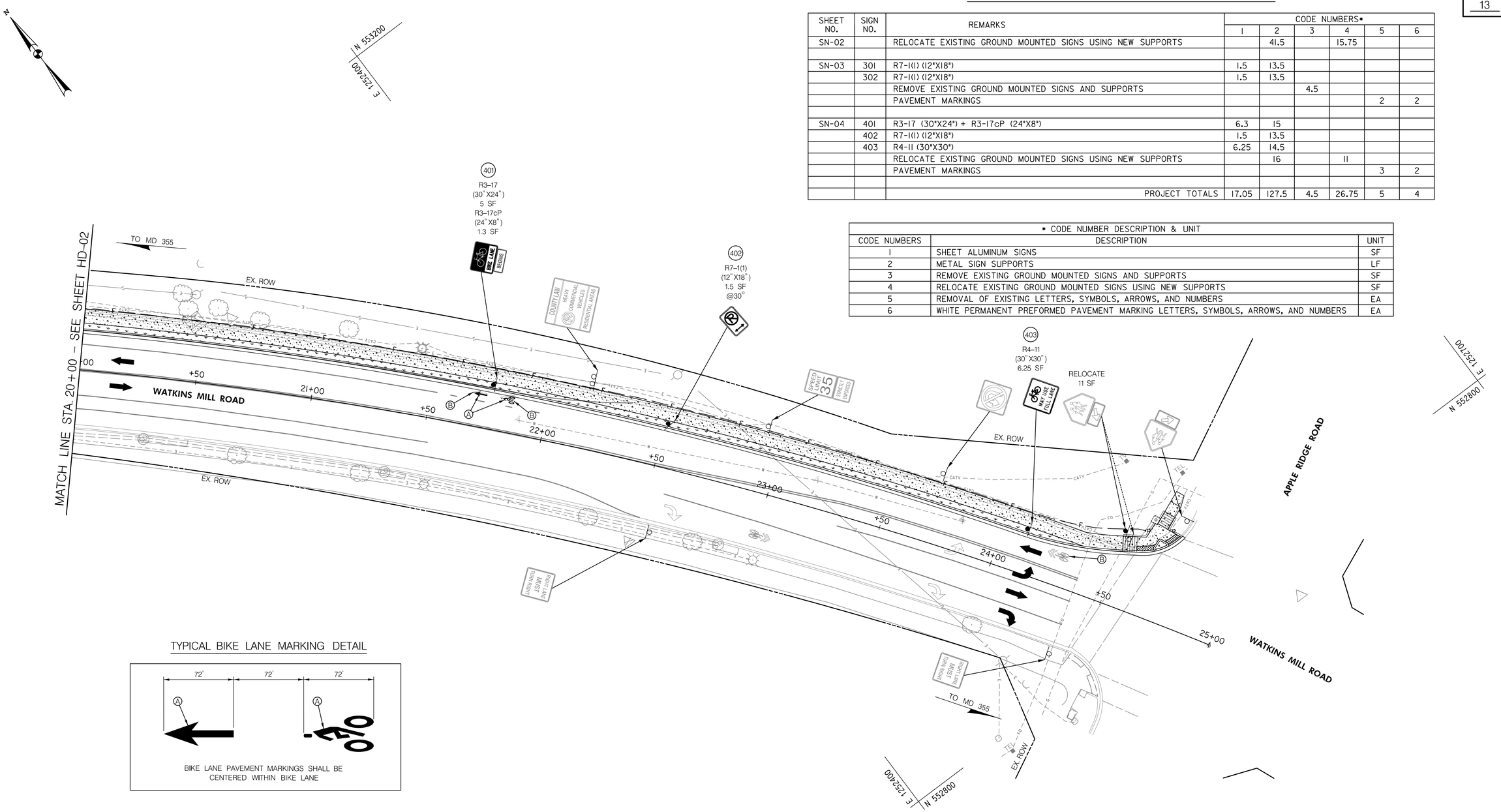
BY: misnerka

SIGNING AND PAVEMENT MARKING INDEX OF QUANTITIES

SHEET NO.	SIGN NO.	REMARKS	CODE NUMBERS•					
			1	2	3	4	5	6
SN-02		RELOCATE EXISTING GROUND MOUNTED SIGNS USING NEW SUPPORTS		41.5		15.75		
SN-03	301	R7-1(1) (12"X18")	1.5	13.5				
	302	R7-1(1) (12"X18")	1.5	13.5				
		REMOVE EXISTING GROUND MOUNTED SIGNS AND SUPPORTS			4.5			
		PAVEMENT MARKINGS					2	2
SN-04	401	R3-17 (30"X24") + R3-17cP (24"X8")	6.3	15				
	402	R7-1(1) (12"X18")	1.5	13.5				
	403	R4-11 (30"X30")	6.25	14.5				
		RELOCATE EXISTING GROUND MOUNTED SIGNS USING NEW SUPPORTS		16		11		
		PAVEMENT MARKINGS					3	2
		PROJECT TOTALS	17.05	127.5	4.5	26.75	5	4

• CODE NUMBER DESCRIPTION & UNIT		
CODE NUMBERS	DESCRIPTION	UNIT
1	SHEET ALUMINUM SIGNS	SF
2	METAL SIGN SUPPORTS	LF
3	REMOVE EXISTING GROUND MOUNTED SIGNS AND SUPPORTS	SF
4	RELOCATE EXISTING GROUND MOUNTED SIGNS USING NEW SUPPORTS	SF
5	REMOVAL OF EXISTING LETTERS, SYMBOLS, ARROWS, AND NUMBERS	EA
6	WHITE PERMANENT PREFORMED PAVEMENT MARKING LETTERS, SYMBOLS, ARROWS, AND NUMBERS	EA



TYPICAL BIKE LANE MARKING DETAIL

BIKE LANE PAVEMENT MARKINGS SHALL BE CENTERED WITHIN BIKE LANE

PAVEMENT MARKING LEGEND

Ⓐ PERMANENT WHITE PREFORMED PAVEMENT MARKING LETTERS, SYMBOLS, ARROWS, AND NUMBERS
Ⓑ REMOVAL OF EXISTING PAVEMENT MARKING LETTERS, SYMBOLS, ARROWS, AND NUMBERS

GENERAL NOTES

1. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH SHA STANDARDS.
2. ALL EXISTING SIGNS SHALL REMAIN UNLESS NOTED ON THE PLAN.
3. TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH MCDOT STANDARDS.
4. THE CONTRACTOR SHALL CONTACT MISS UTILITY TO VERIFY ALL UNDERGROUND UTILITIES PRIOR TO THE START OF CONSTRUCTION. IF ANY CONFLICTS ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
5. ALL PROPOSED SIGNS SHALL BE INSTALLED ON SQUARE PERFORATED TUBULAR STEEL SIGN POST(S).
6. ALL PAVEMENT MARKINGS LINE WIDTH DIMENSIONS ARE FROM CENTER OF MARKING TO FACE OF CURB FOR INSIDE/OUTSIDE LANES AND FROM CENTER OF MARKING TO CENTER OF MARKING FOR ALL OTHERS.

SIGNING LEGEND

SYMBOL	
	EXISTING GROUND MOUNTED SIGN AND SUPPORTS
	PROPOSED GROUND MOUNTED SIGN AND SUPPORTS
	EXISTING SIGN TO REMAIN
	EXISTING SIGN TO BE REMOVED
	PROPOSED SIGN TO BE INSTALLED

NO.	REVISION	BY	DATE

Designed By KAM Drawn By KAM Checked By MCG

SN-04

DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING
MONTGOMERY COUNTY, MARYLAND

SIGNING AND MARKING PLAN
WATKINS MILL ROAD
FROM GREENWAY TRAIL TO
APPLE RIDGE ROAD
PEDESTRIAN IMPROVEMENTS

SCALE: 1"= 20'

PLOTTED: Friday, May 09, 2025 AT 10:09 AM
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BY: misnerka –