

NORTH LAUREL CONNECTIONS

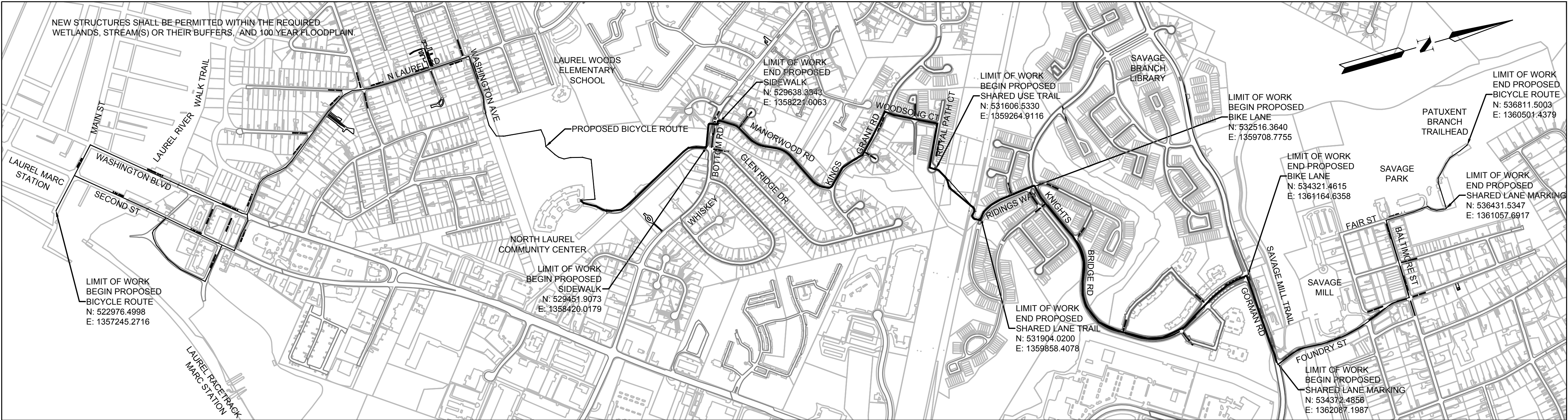
SITE DEVELOPMENT PLAN SDP-21-XXXX

HOWARD COUNTY CAPITAL PROJECT NO. K5066

HOWARD COUNTY, MARYLAND

GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST HOWARD COUNTY AND MD-SHA STANDARDS AND SPECIFICATIONS AS APPLICABLE.
2. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT (410)313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO START OF WORK.
3. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION.
4. TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MARYLAND MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MDMUTCD).
5. ALL PLAN DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
6. THE EXISTING TOPOGRAPHY IS TAKEN FROM A COMBINATION OF PUBLICLY AVAILABLE GIS WITH 2' CONTOUR INTERVALS AND SURVEYED TOPOGRAPHY.
7. ALL PROPOSED IMPROVEMENTS SHALL COMPLY WITH ALL APPLICABLE HOWARD COUNTY, AASHTO, MD-MUTCD REQUIREMENTS AND THE US ACCESS BOARD SHARED-USE PATH ACCESSIBILITY GUIDELINES PROPOSED RULE MAKING (3/2012).
8. EXISTING UTILITIES ARE BASED ON AVAILABLE PUBLIC RECORDS. THE CONTRACTOR SHALL DIG TEST PITS BY HAND AT ALL PROPOSED UTILITY CROSSINGS AND CONNECTION POINTS TO VERIFY EXACT UTILITY LOCATIONS.
9. NO SOILS INVESTIGATION OR NOISE STUDIES WERE PERFORMED AS A PART OF THE DESIGN OF THIS PROJECT. A SPEED STUDY WAS PERFORMED BY OTHERS AT RIDINGS WAY (RIDINGS WAY SPEED STUDY, NOVEMBER 7, 2012). A SIGHT DISTANCE EVALUATION OF THE CROSSING ALONG RIDINGS WAY IS PROVIDED ON DRAWING C2.6.
10. NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND



LOCATION MAP
SCALE 1" = 600'

SHEET INDEX

1	C0.0: COVER SHEET
2	C1.1: LEGEND AND ABBREVIATIONS
3-5	C1.2-1.4: GENERAL NOTES
6	C1.5: OVERALL ROUTE LAYOUT
7-13	C2.1-2.7: PROPOSED BGE TRAIL PLANS
14-18	C3.1-3.5: PROPOSED WHISKEY BOTTOM SIDEWALK PLANS
19 - 30	C4.1 - C4.12: KNIGHTS BRIDGE PAVEMENT MARKING PLANS
31 - 34	C5.1-5.4: STANDARD DETAILS

PROPERTY NUMBER	ZONE	ACCOUNT ID	PROPERTY OWNERSHIP	LEGAL DESCRIPTION/ADDRESS	DEED LIBER	DEED FOLIO	TAX MAP	TAX MAP GRID	PARCEL	LOT	EASEMENT
10	R-SC	1406582001	HOWARD COUNTY MD	PAR A1 47.8855 A / 9411 WHISKEY BOTTOM RD NORTH LAUREL PARK RESUB	09843	00051	0047	0022	1065	A 1	N/A
11	R-SC	1406452248	BOACHIE CHARITY	LOT 22 .328 AR / 9513 MELLOW CT WHISKEY BOTTOM N	17987	00273	0047	0022	0928	22	TEMPORARY FOR CONSTRUCTION MAY BE NEEDED
12	R-SC	1406526896	HOWARD COUNTY MD	LOT 25 .5077 A OPSP / MANORWOOD RD CURRY PROPERTY S1 A1	02021	00286	0047	0022	0178	25	N/A
PROPERTY NUMBER	ZONE	ACCOUNT ID	PROPERTY OWNERSHIP	LEGAL DESCRIPTION/ADDRESS	DEED LIBER	DEED FOLIO	TAX MAP	TAX MAP GRID	PARCEL	LOT	EASEMENT
20	R-SC	1406536727	KINGS WOODS TOWNHOUSE ASSOCIATION INC	LOT 286 .927 A OP SP / ROYAL PATH COVE KINGS WOODS SEC 3 AR 1	05786	00331	0047	0015	0553	286	YES
21	R-SC	1406392067	BALTIMORE GAS & ELECTRIC CO	2.0438 A / HARMONY LN LAUREL	00626	00573	0047	0022	0880	N/A	YES
22	R-SC	1406391990	BALTIMORE GAS & ELECTRIC CO	.5101 ACRES / HARMONY LN LAUREL	00650	00304	0047	0022	0887	N/A	YES
23	R-SC	1406391842	BALTIMORE GAS & ELECTRIC CO	1.4919 A IMP / 9840 HARMONY LN LAUREL	00612	00639	0047	0016	0727	N/A	YES
24	R-SC	1406392067	BALTIMORE GAS & ELECTRIC CO	2.0438 A / HARMONY LN LAUREL	00626	00573	0047	0022	0880	N/A	NO
25	R-SC	1406391893	BALTIMORE GAS & ELECTRIC CO	8.8981 ACRES / ROUTE 1	00453	00394	0047	0016	0916	N/A	YES
26	R-SC	1406391923	BALTIMORE GAS & ELECTRIC CO	2682 ACRES / HARMONY LN	00059	00505	0047	0016	0773	N/A	YES (OPTION A)
27	R-SA-8	1406541941	BOWLING BROOK FARMS ASSOCIATION INC	LOT 165 1.7096 A / GORDON CT / BOWLING BROOK FARMS	03355	00093	0047	0017	1008	165	YES (OPTION B)
28	R-SA-8	1406541976	BOWLING BROOK FARMS ASSOCIATION INC	LOT 179 8.433 SQ OPS / RIDINGS WAY BOWLING BROOK FARMS	03355	00093	0047	0017	1008	179	YES (OPTION B)

HOWARD COUNTY CONTROL STATIONS

47EC NORTHING: 534,261.218 EASTING: 1,359,948.169 ELEVATION: 233.687 (LATEST ADJ. FEB. 2014)	47FB NORTHING: 534,295.375 EASTING: 1,361,228.708 ELEVATION: 207.427 (LATEST ADJ. FEB. 2014)
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SITE ANALYSIS DATA CHART

AREA OF PLAN SUBMISSION: 1.9 ACRES
LIMIT OF DISTURBED AREA: 1.9 ACRES
PRESENT ZONING DESIGNATION: R-SC, R-SA-8, PUBLIC RIGHT-OF-WAY
CEPPA NUMBER: N/A
PROPOSED USE: SHARED USE PATH, BIKE LANE, SIGNED BIKE ROUTE

PERMIT INFORMATION CHART

PROJECT NAME: NORTH LAUREL CONNECTIONS HOWARD COUNTY CAPITAL PROJECT NO. K5066						SECTION/AREA SEE TABLE	PARCEL SEE TABLE
L/F N/A	ZONE R-SC, R-SA-8	TAX MAP 47	BLOCK MULTIPLE	ELEC. DIST. 3	CENSUS TRACT 6069		

GENERAL

PROJECT NO.
5409.05

COVER SHEET

DATE
12-18-2020

DRAWING NO.
C0.0

SHEET NO.
1 of 34

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF [STATE].
LICENSE NO. 35022
EXPIRATION DATE: 12/28/2021.



REUSE OF DOCUMENTS

ALL DRAWINGS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THIS PROJECT.
REUSE OR ALTERATION IS AT THE USER'S SOLE RISK.

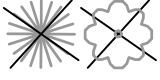
DSGN	VLR	DR	VLR	CHK	AO	APVD	MRAB	NO.	DATE	REVISION	BY	APVD

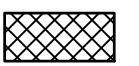
TOOLE
DESIGN

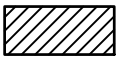
8484 GEORGIA AVENUE, SUITE 800
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PHONE: 301.927.1900
FAX: 301.927.2800
www.tooledesign.com

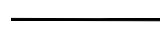
NORTH LAUREL CONNECTIONS
HOWARD COUNTY, MD

DEMOLITION LEGEND


EXISTING TREE TO BE REMOVED

EXISTING CONCRETE TO BE REMOVED

EXISTING ASPHALT TO BE REMOVED

SAWCUT

EROSION SEDIMENT CONTROL LEGEND

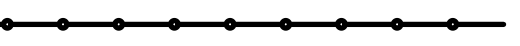
PROPOSED RIPRAP


SFDFDIVERSION FENCE

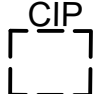
SFDA DRAINAGE AREA TO E&S MEASURE

SFSFSILT FENCE


LODLODLIMIT OF DISTURBANCE


TREE PROTECTION (HC STD L9.02)


SOIL MAP BOUNDARY


CURB INLET PROTECTION


SURVEY/SITWORK LEGEND


EXISTING PROPERTY BOUNDARY/
RIGHT-OF-WAY


PROPOSED TEMPORARY CONSTRUCTION
EASEMENT


PROPOSED PERMANENT ACCESS/
MAINTENANCE/STORMWATER MANAGEMENT
EASEMENT


EXISTING GRADE CONTOUR – MAJOR


EXISTING GRADE CONTOUR – MINOR


FINISHED GRADE CONTOUR – MAJOR


FINISHED GRADE CONTOUR – MINOR


EDGE OF PAVEMENT

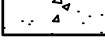
CURB AND GUTTER


PROPOSED DECIDUOUS TREE


PROPOSED EVERGREEN TREE


PROPOSED IMPERVIOUS ASPHALT PAVEMENT

PROPOSED PERMEABLE ASPHALT PAVEMENT

PROPOSED CONCRETE

PROPOSED BOARDWALK

PROPOSED SIGN ON U-POST

EXISTING SIGN ON U-POST

UTILITY LEGEND

TVCATV BOX

THCATV HANDBOX

TPCATV PEDESTAL

EBELECTRIC BOX

EHBELECTRIC HANDBOX

ECBELECTRIC CABINET

EMBELECTRIC MANHOLE

ESBELECTRIC SWITCHGEAR

ETBELECTRIC TRANSFORMER

EMBELECTRIC METER

SLSTREET LIGHT

LLLANDSCAPE LIGHT

THTRAFFIC CONTROL HANDBOX

FOFIBER OPTIC BOX

THFIBER OPTIC HANDBOX

FMFIBER OPTIC MANHOLE

FCFILL CAP

FTFUEL TANK MANHOLE

GMGAS METER

GVGAS VALVE

MWMONITORING WELL

SCSANITARY CLEANOUT

SM SANITARY MANHOLE

SDSTORM DRAIN CLEANOUT

SDSTORM DRAIN DOWNSPOUT

SDSTORM DRAIN MANHOLE

TELEPHONE BOX

TELEPHONE HANDBOX

TELEPHONE MANHOLE

TELEPHONE PEDESTAL

CALL BOX

CARD READER

UNKNOWN MANHOLE

UNKNOWN CLEANOUT

UTILITY POLE

VENT PIPE

FIRE HYDRANT

WATER MANHOLE

WATER METER

WATER VALVE

IRRIGATION CONTROL VALVE

ABANDABANDONED UTILITY

EOIEND OF ELECTRONIC INFORMATION

DIR. ONLYDIRECTION ONLY

NAUNO ASSOCIATED UTILITY DETECTED

NFLNOT FIELD LOCATABLE

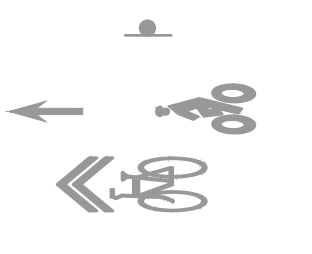
UTILITY DESIGNATING NOTES

• UTILITY DEPICTIONS CONFORM TO CI/ ASCE STANDARD 38-02.

• UTILITY QUALITY LEVELS DEFINED AS FOLLOWS"
QUALITY LEVEL "D" (QL-D)
INFORMATION COMES SOLELY FROM EXISTING UTILITY RECORDS.
QUALITY LEVEL "C" (QL-C)
INVOLVES SURVEYING VISIBLE ABOVEGROUND UTILITY FACILITIES, SUCH AS
MANHOLES, VALVE BOXES, POSTS, ETC., AND CORRELATING THIS
INFORMATION WITH EXISTING UTILITY RECORDS.
QUALITY LEVEL "B" (QL-B) - DESIGNATING
INVOLVES THE USE OF SURFACE GEOPHYSICAL TECHNIQUES TO DETERMINE
THE EXISTENCE AND APPROXIMATE HORIZONTAL POSITION OF
UNDERGROUND UTILITIES.
QUALITY LEVEL "A" (QL-A) - LOCATING
INVOLVES THE USE OF NONDESTRUCTIVE DIGGING EQUIPMENT AT CRITICAL POINTS TO
DETERMINE THE PRECISE HORIZONTAL AND VERTICAL POSITION OF UNDERGROUND
UTILITIES, AS WELL AS THE TYPE, SIZE, CONDITION, MATERIAL, AND OTHER
CHARACTERISTICS.
• THE SUBSURFACE UTILITIES DEPICTED HEREON AT QUALITY LEVEL "B"
REPRESENT THE REMOTELY SENSED INDICATION OF THE SUBSURFACE UTILITY.
UTILITY PIPE SIZES AND CONFIGURATIONS HAVE BEEN TAKEN FROM RECORD DRAWINGS AND
ACCESSIBLE FIELD EVIDENCE. THE ACTUAL LOCATION, SIZE AND EXTENT OF ALL
SUBSURFACE UTILITIES MUST BE DETERMINED THROUGH TEST HOLE OR OTHER QUALITY
LEVEL "A"
INVESTIGATION METHODS.
• AN EFFORT HAS BEEN MADE TO DEPICT UTILITIES AT QL "B". SOME UTILITIES ARE
SHOWN AT QL "C" OR QL "D" AS NECESSARY.
• GRAVITY DEPENDENT UTILITY SYSTEMS (STORM AND SANITARY SEWERS) WERE
NOT INCLUDED IN THE SCOPE OF THIS UTILITY MAPPING EFFORT.
• UTILITY SURFACE FEATURES, E.G. VALVES, MANHOLES AND VAULTS, ARE SHOWN
SYMBOLICALLY AND THEIR SIZE AND SHAPE ARE SCHEMATIC AND NOT TO SCALE.
EXCEPT AS SPECIFICALLY STATED HEREON, SUBSURFACE CONDITIONS SUCH AS
SIZE AND ORIENTATION OF ANY ASSOCIATED STRUCTURE HAVE NOT BEEN
DETERMINED. ACTUAL DIMENSIONS AND POSITIONS MUST BE DETERMINED
THROUGH ADDITIONAL SUBSURFACE UTILITY INVESTIGATION.
• THE UNDERGROUND UTILITY LOCATIONS SHOWN HEREON REPRESENT A
PROFESSIONAL OPINION AND INTERPRETATION BASED ON RECORD INDICATIONS
AND FIELD EVIDENCE INCLUDING THE USE OF ELECTRONIC UTILITY DETECTION
EQUIPMENT. THE RESULTS OF THIS UTILITY INVESTIGATION MAY BE AFFECTED
BY THE AVAILABILITY OF UTILITY RECORD INFORMATION AND A VARIETY OF
EXISTING SITE CONDITIONS. SITE CONDITIONS THAT MAY AFFECT THE
RELIABILITY OF DETECTED UTILITY LOCATIONS INCLUDE SOIL CONTENT, DEPTH
OF UTILITY, DENSITY OF UTILITY CLUSTERS, AND ELECTROMAGNETIC
CHARACTERISTICS OF THE TARGET UTILITIES.

PAVEMENT MARKING LEGEND

EXISTING



PROPOSED

BEBEGIN ERADICATION

EEEND ERADICATION

ESERADICATE SYMBOL

SIGN AND POST

BICYCLE LANE SYMBOL

SHARED LANE MARKING SYMBOL

5" SWL5" SOLID WHITE LANE LINE

10" SWL10" SOLID WHITE LANE LINE

5" BWL5" BROKEN WHITE LANE LINE (10' STRIPE, 30' SKIP)

5" DWL5" DOTTED WHITE LINE (3' STRIPE, 3' SKIP)

5" DAWL5" DASHED WHITE LINE (3' STRIPE, 9' SKIP)

5" SYL5" SOLID YELLOW LANE LINE

5" DYL5" DASHED YELLOW LINE (3' STRIPE, 9' SKIP)

5" SYCL5" SOLID YELLOW CENTERLINE

5" DSYCL5" DOUBLE SOLID YELLOW CENTERLINE

5" BYCL5" DOUBLE BROKEN YELLOW CENTERLINE (10' STRIPE, 30' SKIP)

5" DDYCL5" DOUBLE DASHED YELLOW CENTERLINE (2' STRIPE, 4' SKIP)

5" SBYCL5" SOLID YELLOW LANE LINE WITH 5" BROKEN YELLOW LANE LINE (10' STRIPE, 30' SKIP)

10" SWCHL10" SOLID WHITE CHANNELIZATION LINE

6"-24" SYCHL6"-24" SOLID YELLOW CHANNELIZATION LINE

12"/24" SL12" / 24" STOP LINE

CWCROSSWALK WITH 12" SWL FOR PARALLEL LINES

HVCWHIGH VISIBILITY CROSSWALK WITH 12" SWL FOR PARALLEL LINES AND 12" SWL (3' O.C. AT 90° ALIGNED WITH CURB, UNLESS OTHERWISE NOTED)

ONLYWHITE PAVEMENT ARROW AND TEXT

COLORIZED COATING

NEW OR RELOCATED SIGN

ABBREVIATIONS

ABAND APPROX.ABANDONED APPROXIMATE, APPROXIMATELY

ASPH ASPHALT

B/BC BOTTOM OF

BLDG BOTTOM OF CURB BUILDING

CAL CALIPER

CG CURB & GUTTER

C/L CENTERLINE

CLR CLEAR

CMP CORRUGATED METAL PIPE

CONC CONCRETE

DET DETAIL

DIA DIAMETER

D/W DRIVEWAY

DWG(S) DRAWING(S)

EA EACH

EL ELEVATION

ELEC ELECTRICAL

ENGR ENGINEER

E/MH ELECTRIC MANHOLE

EP EDGE OF PAVEMENT

EX EXISTING

FT FEET

HH HANDHOLE

HI HIGH

HORIZ HORIZONTAL

HP HIGH POINT

HSCD HOWARD SOIL CONSERVATION DISTRICT

INV INVERT

J, J-BOX JUNCTION BOX

LF LINEAR FEET

LP LAMP POLE

LP LOW POINT

MAX MD SHA MAXIMUM

MH MARYLAND STATE HIGHWAY ADMINISTRATION

MIN MANHOLE MINIMUM

N NORTH

N/A NOT APPLICABLE

NE NORTHEAST

No. NUMBER

NTS NOT TO SCALE

PC POINT OF CURVATURE

PED PEDESTAL

PERP PERPENDICULAR

PI POINT OF INTERSECTION

PROP PROPERTY

PT POINT OF TANGENCY

PVC POLYVINYL CHLORIDE

PVMT PAVEMENT

QL QUALITY LEVEL

R RADIUS

REQ'D REQUIRED.

REV REVISION

R/W RIGHT-OF-WAY

SAN SANITARY SEWER

SEC, SECT SECTION

SF SQUARE FEET

SG STORM GRATE

SHA STATE HIGHWAY ADMINISTRATION

SHT SHEET

SMH SEWER MANHOLE

SPEC SPECIFICATION

SQ. FT. SQUARE FEET

STA STATION

STD STANDARD

S/W SIDEWALK

T/ TOP OF

TC TOP OF CURB

TEL MH TELEPHONE MANHOLE

TEMP TEMPORARY, TEMPERATURE

TYP TYPICAL

VERT VERTICAL

WL WATER LINE

WV WATER VALVE

APPROVED
PLANNING BOARD OF HOWARD COUNTY

Date: _____

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING


Director _____ Date _____

Chief, Division of Land Development _____ Date _____

Chief, Development Engineering Division _____ Date _____

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF [STATE].
LICENSE NO. 35022
EXPIRATION DATE: 12/28/2021.



REUSE OF DOCUMENTS

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REUSE OR ALTERATION IS AT THE USER'S SOLE RISK.

DSGN SD

DR RB

CHK AO

APVD MRAB

NO. DATE REVISION BY APVD

TOOLE
DESIGN

8484 GEORGIA AVENUE, SUITE 800
SILVER SPRING, MD 20910
PHONE: 301.927.1900
FAX: 301.927.2800
www.tooledesign.com

NORTH LAUREL CONNECTIONS

HOWARD COUNTY, MD

GENERAL

DT-01 - LEGEND & ABBREVIATIONS

PROJECT NO. 5409.05

DATE 12-18-2020

DRAWING NO. C0.1

SHEET NO. 2 of 34

100% DESIGN SUBMISSION

CONSTRUCTION NOTES

1. ALL CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM WITH THESE DRAWINGS, PROJECT SPECIFICATIONS, AND WITH THE CURRENT EDITION OF THE HOWARD COUNTY, AND THE MARYLAND STATE HIGHWAY ADMINISTRATION (SHA) STANDARDS AND SPECIFICATIONS.
2. THE CONTRACTOR SHALL OBTAIN ALL APPLICABLE PERMITS AND LICENSES AND KEEP COPIES OF THE SAME ON SITE DURING CONSTRUCTION.
3. THE CONTRACTOR SHALL REVIEW THE PLANS FOR THIS PROJECT PRIOR TO WORK.
4. THE CONTRACTOR SHALL CHECK ALL DIMENSIONS. ANY DISCREPANCIES FOUND SHALL BE CALLED TO THE ATTENTION OF THE PROJECT DESIGNER AND BE RESOLVED BEFORE PROCEEDING WITH THE WORK.
5. ALL INFORMATION SHOWN ON THESE DRAWINGS RELATIVE TO EXISTING CONDITIONS IS GIVEN AS THE BEST PRESENT KNOWLEDGE, BUT WITHOUT GUARANTEE OF ACCURACY. THE CONTRACTOR SHALL REPORT IMMEDIATELY TO THE ENGINEER OF RECORD ANY CONDITIONS CONFLICTING WITH THE DRAWINGS. FIELD MODIFICATIONS TO THE DRAWINGS SHALL NOT BE MADE WITHOUT THE CONSENT OF THE ENGINEER OF RECORD.
6. THE CONTRACTOR SHALL MAINTAIN A CLEAN WORK SITE, FREE FROM TRASH AND DEBRIS AT ALL TIMES.
7. THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS OF CLEANING TRUCKS AND/OR OTHER EQUIPMENT OF MUD PRIOR TO ENTERING THE HOWARD COUNTY OR SHA RIGHT-OF-WAY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CLEAN ALL STREETS, ALLAY DUST AND TO TAKE WHATEVER MEASURES NECESSARY TO ENSURE THE ROAD(S) ARE MAINTAINED IN A CLEAN, MUD, AND DUST FREE CONDITIONS AT ALL TIMES.
8. THE CONTRACTOR SHALL KEEP AND MAINTAIN A SET OF APPROVED PROJECT PLANS AND SPECIFICATIONS ON THE SITE AT ALL TIMES.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING WITH MATCHING MATERIALS ANY PAVEMENT, UTILITIES, PAVEMENT MARKINGS, ETC. THAT MUST BE CUT OR REMOVED, OR THAT ARE DAMAGED DURING CONSTRUCTION AT NO ADDITIONAL COST. TEMPORARY OR PERMANENT PAVEMENT PATCHES ARE TO BE PLACED IN ALL ROADWAY CUTS WITH COLD MIX THE SAME DAY THE CUT IS MADE IN ACCORDANCE WITH HOWARD COUNTY REQUIREMENTS.
10. ALL EXISTING PAVEMENT MARKINGS MAY NOT BE SHOWN. ALL EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH PROPOSED PAVEMENT MARKINGS SHALL BE ERADICATED BY A METHOD APPROVED BY HOWARD COUNTY.
11. ALL SIGNS SHALL BE HIGH INTENSITY SHEETING MEETING THE REQUIREMENTS OF AASHTO M268.
12. PROPOSED SIGNS SHALL BE INSTALLED SO THAT NO PORTION OF THE SIGN PANEL OVERHANGS ADJACENT ROADWAY PAVEMENT, I.E. SHALL NOT HANG IN FRONT OF A FACE OF CURB.
13. PROPOSED SIGN POSTS SHALL BE LOCATED A MINIMUM OF 2 FEET BEHIND ANY ADJACENT FACE OF CURB. IF LOCATED IN OR ADJACENT TO SIDEWALKS, A 32" MINIMUM CLEAR AND 48" PREFERRED PASSING SPACE ON EXISTING AND PROPOSED SIDEWALKS SHALL BE MAINTAINED.
14. PROPOSED SIGNS AT NEW LOCATIONS SHALL BE INSTALLED SO THEY DO NOT BLOCK THE VISIBILITY OF ANY EXISTING SIGNS OR SIGNALS.
15. PROPOSED SIGNS AND POSTS SHALL BE CLEAR OF EXISTING FIRE HYDRANTS, SURFACE UTILITY, AND OVERHEAD UTILITY EQUIPMENT A MINIMUM OF 10 FEET OR AS REQUIRED BY APPLICABLE STANDARDS.
16. FOR NEW POST INSTALLATION, THE CONTRACTOR SHALL VERIFY THAT THERE ARE NO CONFLICTING UNDERGROUND OR OVERHEAD UTILITIES.
17. SIGNS MOUNTED TO EXISTING LIGHT, SIGNAL OR UTILITY POLES SHALL BE FASTENED WITH A MANUFACTURED STEEL BANDING SYSTEM. POLES SHALL NOT BE DRILLED DIRECTLY. THE CONTRACTOR SHALL SUBMIT MANUFACTURER INFORMATION ON THE BANDING SYSTEM TO HOWARD COUNTY FOR APPROVAL PRIOR TO INSTALLATION.

COORDINATION

1. CONSTRUCTION WILL TAKE PLACE ADJACENT TO ONGOING TRAFFIC OPERATIONS. THE CONTRACTOR SHALL OBTAIN PERMITS AND COORDINATE CONSTRUCTION ACTIVITIES WITH HOWARD COUNTY AND SHA, AS APPLICABLE.
2. THE CONTRACTOR SHALL SUBMIT A PROPOSED CONSTRUCTION SCHEDULE FOR REVIEW AND APPROVAL BY HOWARD COUNTY IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
3. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL ARRANGE A MEETING WITH THE OWNER'S REPRESENTATIVE TO DISCUSS COORDINATION OF CONSTRUCTION ACTIVITIES AND RELATED PROJECTS. THE CONTRACTOR SHALL PARTICIPATE IN PERIODIC PROGRESS MEETINGS AND SHALL SUBMIT A SCHEDULE UPDATE AT EACH MEETING.

UTILITIES

1. PRIOR TO CONSTRUCTION OR EXCAVATION, THE CONTRACTOR SHALL ASSUME THE RESPONSIBILITY OF LOCATING ANY AND ALL UNDERGROUND UTILITIES (PUBLIC OR PRIVATE) THAT MAY EXIST OR CROSS THROUGH THE AREA OF CONSTRUCTION, WHETHER OR NOT THEY ARE SHOWN ON THE PLANS BEFORE DIGGING, TO AVOID THE UTILITIES, THE CONTRACTOR SHALL CALL MISS UTILITY OF MARYLAND AT 1-800-257-7777. STATE LAW MANDATES THE NOTIFICATION OF UTILITY OWNERS 48-HOURS IN ADVANCE OF EXCAVATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING, AT NO EXPENSE TO THE OWNER, ANY EXISTING UTILITIES DAMAGED DURING CONSTRUCTION.
2. THIS PLAN DOES NOT GUARANTEE THE EXISTENCE, NON-EXISTENCE, SIZE, TYPE, LOCATION, ALIGNMENT, OR DEPTH OF ANY OR ALL UNDERGROUND UTILITIES OR OTHER FACILITIES. WHERE SURFACE FEATURES (MANHOLES, CATCH BASINS, VALVES, ETC.) ARE UNAVAILABLE OR INCONCLUSIVE, INFORMATION SHOWN MAY BE FROM UTILITY OWNERS RECORD AND/OR ELECTRONIC LINE TRACING, THE RELIABILITY OF WHICH IS UNCERTAIN. THE CONTRACTOR SHALL PERFORM TEST EXCAVATION OR OTHER REINVESTIGATION AS NECESSARY TO VERIFY LOCATION AND CLEARANCES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES, IF ANY, TO THE EXISTING UTILITIES AND RELATED STRUCTURES.
3. UNLESS OTHERWISE NOTED, UTILITY MANHOLES, COVERS, METER BOXES, AND HANDHOLES ARE TO BE ADJUSTED BY THE CONTRACTOR PRIOR TO PLACING FINAL SURFACE PAVEMENT. THE TOP ELEVATION OF EXISTING MANHOLES SHALL BE ADJUSTED TO MEET THE FINAL PAVEMENT ELEVATION AT THE TIME OF FINAL PAVING OPERATIONS. ALL MANHOLES ARE TO BE PROTECTED FROM THE TRAVELING PUBLIC. NO MANHOLE IS TO BE RAISED ABOVE THE TOP ELEVATION OF THE FINISH GRADE WITHOUT THE APPROPRIATE TRANSITION.
4. CONTRACTOR SHALL CONFORM TO THE "OVERHEAD HIGH VOLTAGE ACT" (EFFECTIVE JULY 1, 2003) AND SHALL CONTACT THE NECESSARY AUTHORITIES PRIOR TO THE START OF CONSTRUCTION.
5. HOWARD COUNTY'S UTILITY DEPARTMENT INSPECTOR SHALL BE NOTIFIED WHEN ANY IMPROVEMENT PERTINENT TO HIS INSPECTION DUTIES ARE BEING INSTALLED. SPECIFIC REQUIREMENTS ARE:
 - A. SITE INSPECTION OR AREA SUPERVISOR IS TO BE NOTIFIED AT LEAST 5 DAYS PRIOR TO START OF CONSTRUCTION.
 - B. A MINIMUM OF 24 HOURS NOTICE IS REQUIRED WHEN REQUESTING COMPACTION TESTS AND RESIDENTIAL OR NON-RESIDENTIAL USE PERMITS.

APPROVED
PLANNING BOARD OF HOWARD COUNTY

Date: _____

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

Director	Date
Chief, Division of Land Development	Date
Chief, Development Engineering Division	Date

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE PLANS
WERE PREPARED OR APPROVED BY
ME, AND THAT I AM A DULY LICENSED
PROFESSIONAL ENGINEER UNDER THE
LAWS OF THE STATE OF [STATE],
LICENSE NO. 35022,
EXPIRATION DATE: 12/28/2021.



REUSE OF DOCUMENTS

ALL DRAWINGS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THIS PROJECT.
REUSE OR ALTERATION IS AT THE USER'S SOLE RISK.

DSGN	SD					
DR	RB					
CHK	AO					
APVD	MRAB	NO.	DATE	REVISION	BY	APVD

6. THE CONTRACTOR SHALL TAKE ALL REASONABLE STEPS TO AVOID DAMAGE, DISLOCATE, OR DISTURB ANY UTILITY LINES. THE FOLLOWING FIVE STEP PROCESS SHALL BE FOLLOWED:
- THE EXCAVATOR SHALL PLAN THE EXCAVATION IN SUCH A MANNER TO AVOID DAMAGE TO AND MINIMIZE INTERFERENCE WITH UNDERGROUND UTILITY LINES IN AND NEAR THE CONSTRUCTION AREAS.
 - THE EXCAVATOR SHALL EXPOSE THE UNDERGROUND UTILITY LINE TO ITS EXTREMITIES BY HAND DIGGING WITHIN THE EXCAVATION AREA WHEN EXCAVATION IS EXPECTED TO COME WITHIN TWO FEET OF THE MARKED LOCATION OF THE UNDERGROUND UTILITY LINE.
 - THE EXCAVATOR SHALL NOT UTILIZE MECHANIZED EQUIPMENT WITHIN TWO FEET OF EXTREMITIES OF ALL EXPOSED UTILITY LINES.
 - THE EXCAVATOR SHALL MAINTAIN A REASONABLE CLEARANCE, TO INCLUDE THE WIDTH OF THE UTILITY LINE, IF KNOWN, PLUS 24 INCHES BETWEEN THE MARKED OR STAKED LOCATION IF AN UNDERGROUND UTILITY LINE AND THE CUTTING EDGE OR POINT OF ANY MECHANIZED EQUIPMENT, CONSIDERING THE KNOWN LIMIT OF CONTROL OF THE CUTTING EDGE OR POINT TO AVOID DAMAGE TO THE UTILITY LINE.
 - THE EXCAVATOR SHALL PROVIDE PROPER SUPPORT FOR UNDERGROUND UTILITY LINES DURING EXCAVATION ACTIVITIES, DURING BACKFILL OPERATIONS; THE EXCAVATOR SHALL USE THE SAME OR SIMILAR BACKFILL MATERIAL THAT WAS ORIGINALLY AROUND THE UTILITY LINE ENSURING THAT THERE IS PROPER COMPACTION AROUND THE UTILITY LINE, PROTECT ALL TRACER WIRES, AND PROTECT AND REPLACE WARNING TAPES.

- | 7. PRIMARY UTILITY COMPANIES: | EMERGENCY |
|--|--------------------------------|
| BALTIMORE GAS AND ELECTRIC (BG&E) | 1-877-778-2222 |
| VERIZON MARYLAND | 1-888-611-3005 |
| COMCAST MARYLAND | 1-866-749-2649 |
| OTHER POTENTIAL UTILITY COMPANIES: | |
| AMERICAN TELEPHONE & TELEGRAPH CO/ AT&T. | 1-800-241-3624/ 1-888-634-1840 |
| COLONIAL PIPELINE CO. | 1-800-926-2728 |
| MCI INTERNATIONAL | 1-800-852-6700 |
| MCI WORLD | 1-972-656-5474 |
| TRANSCO GAS PIPELINE CO. | 1-800-440-8475 (24 HRS) |
| VERIZON (BELL ATLANTIC) | 1-800-275-2355 |
| VERIZON SOUTH | 1-800-745-1944 |
| ABOVENET COMMUNICATIONS | 1-888-636-2778 |
| ELANTIC TELECOM/ CAVALIER TELEPHONE | 1-888-662-5700 |
| FIBERLIGHT, LLC | 1-800-672-0181 |
| QUEST GOVERNMENT SERVICES | 1-800-388-6460 |
| SPRINT | 1-800-521-0579 |
| YIPES COMMUNICATIONS, INC. | 1-877-740-6600 |
| XPEDIUS COMMUNICATIONS | 1-800-937-7423 |
| XO COMMUNICATIONS | 1-866-295-9696 |

GRADING, DRAINAGE & PAVEMENT

1. STABLE SUBGRADE SHALL COMPRISE SOLID, WELL DRAINED, UNDISTURBED EARTH CAPABLE OF SUPPORTING STREET LOADINGS WITHOUT RESULTING IN ANY DAMAGE OR SETTLEMENT AS DETERMINED BY THE GEOTECHNICAL ENGINEER.
2. UNLESS MORE STRINGENT COMPACTION REQUIREMENTS ARE INDICATED ON THE PLANS OR IN THE SPECIFICATIONS, THE BACKFILL OF EMBANKMENT MATERIAL, THE INSTALLATION OF FRENCH BACKFILL AND THE RESTORATION OF DISTURBED AREAS SHALL BE COMPACTED IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE HOWARD COUNTY STANDARD SPECIFICATIONS AND DETAILS. ALL COMPACTION SHALL BE AT $\pm 2\%$ OF THE OPTIMUM MOISTURE CONTENT. ANY WORK WITHIN SHA RIGHT OF WAY SHALL MEET SHA STANDARDS AND SPECIFICATIONS.
3. ALL SUBGRADE, SUBBASE, BASE, AND SHOULDER MATERIAL SHALL BE PLACED AND COMPACTED TO THE DENSITY SPECIFIED IN THE CURRENT EDITION OF THE HOWARD COUNTY STANDARD SPECIFICATIONS AND CONSTRUCTION DETAILS. ALL COMPACTION SHALL BE AT $\pm 2\%$ OF THE OPTIMUM MOISTURE CONTENT.
4. UNLESS MORE STRINGENT COMPACTION REQUIREMENTS ARE NOTED ON THE PLANS, THE SUBGRADE FOR ALL WALKWAYS SHALL BE COMPACTED TO A MINIMUM OF 95% OF THEORETICAL MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT.
5. WHERE UNSUITABLE SUBGRADE, AS DETERMINED BY HOWARD COUNTY, IS ENCOUNTERED, IT SHALL BE MADE STABLE BY DRAINING, COMPACTING AND/OR REPLACING WITH SUITABLE MATERIAL AS REQUIRED TO THE SATISFACTION OF THE INSPECTION REPRESENTATIVE.
6. CONTRACTOR SHALL NOT DISTURB EXISTING NATURAL DRAINAGE DITCHES, STREAM BANKS, OR KNOWN WETLAND AREAS.
7. PROPOSED TOP OF CURB GRADES SHALL BE FIELD ADJUSTED AS REQUIRED TO CONFORM TO THE INTENT OF THE TYPICAL SECTION. A SMOOTH GRADE SHALL BE MAINTAINED FROM THE BASELINE TO THE PROPOSED EDGE OF PAVEMENT OR FACE OF CURB TO PRECLUDE THE FORMING OF FALSE GUTTERS AND/OR THE PONDING OF WATER ON THE TRAIL, BUFFERS OR ROADWAY. THE EXISTING PAVEMENT SHALL BE RECAPPED AND/OR REMOVED AND REPLACED AS NECESSARY TO ACCOMPLISH THIS REQUIREMENT. ALL CURB FORMS SHALL BE INSPECTED FOR HORIZONTAL AND VERTICAL ALIGNMENT BY HOWARD COUNTY OR THEIR AUTHORIZED REPRESENTATIVES PRIOR TO PLACEMENT OF CONCRETE.
8. ALL CONCRETE SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE HOWARD COUNTY OR SHA STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, UNLESS SPECIFIED OTHERWISE.
9. ALL ASPHALT PAVEMENT COURSES SHALL BE IN CONFORMANCE WITH SHA SPECIFICATIONS, UNLESS OTHERWISE SPECIFIED BY THE OWNER AND/OR AS SHOWN ON THE APPROVED PLANS.
10. THE LOCATIONS AND INVERTS OF ALL DRAINAGE STRUCTURES SHOWN ON THESE PLANS ARE APPROXIMATE ONLY, AND THE CONTRACTOR SHALL VERIFY THIS DATA. IF DURING CONSTRUCTION, THE LOCATION AND INVERT ELEVATIONS FOR EXISTING STRUCTURES ARE FOUND TO DIFFER SIGNIFICANTLY FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ENGINEER OF RECORD PRIOR TO INSTALLATION OF THE DRAINAGE STRUCTURE.
11. THE CONTRACTOR SHALL RESTORE ALL DRIVEWAYS AND PAVEMENT DISTURBED DURING CONSTRUCTION. DRIVEWAY RESTORATION SHALL FOLLOW SHA STANDARDS AND DETAILS.
12. THE PAVEMENT DESIGN IN THE CONSTRUCTION PLANS WAS PREPARED BASED ON AVAILABLE SUBSURFACE INFORMATION INCLUDING LABORATORY CALIFORNIA BEARING RATIO (C.B.R.) TESTS THAT ARE PERFORMED DURING THE DESIGN SUBSURFACE INVESTIGATION. WHEN THE CONTRACTOR REACHES THE SUBGRADE ELEVATION, ADDITIONAL C.B.R. TEST LOCATIONS MAY BE DIRECTED BY THE GEOTECHNICAL ENGINEER FOR SELECTED LOCATIONS, BASED ON ACTUAL FIELD CONTROL OBSERVATIONS. THE C.B.R. SAMPLES AND TESTS SHALL BE PERFORMED BY A THIRD-PARTY GEOTECHNICAL FIRM. THE RESULTS OF THE ENGINEER'S EVALUATION OF THE C.B.R. LABORATORY TESTS SHALL BE OBTAINED IN WRITING PRIOR TO THE PLACEMENT OF ANY SUBBASE OR BASE MATERIAL IN THE AREA(S) UNDER CONSIDERATION. THE PROPOSED PAVEMENT DESIGN FOR THE AREAS UNDER CONSIDERATION WILL EITHER BE CONFIRMED OR ADJUSTED BY THE ENGINEER BASED ON THE RESULT OF THE C.B.R. THE CONTRACTOR SHALL COOPERATE BY MODIFYING CONSTRUCTION ACTIVITIES AND/OR SCHEDULING IN ORDER TO PERMIT THE ADDITIONAL CBR TESTING. THE CONTRACTOR SHALL NOT BE ENTITLED TO ANY MONETARY DAMAGES WHATSOEVER FOR ANY DELAYS RESULTING FROM THIS TESTING.

TRANSPORTATION MANAGEMENT PLAN

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY TRAFFIC CONTROL, SUCH AS LANE CLOSURES, FLAGGERS, DRIVEWAY ENTRANCES, ETC. TO PROPERLY MAINTAIN TRAFFIC THROUGHOUT THE PROJECT AREA.
 2. ALL TRAFFIC MAINTENANCE SHALL CONFORM TO THE LATEST REVISIONS THERETO: MARYLAND WORK AREA PROTECTION MANUAL, SHA SPECIFICATIONS AND CONSTRUCTION DETAILS, AND THE MARYLAND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
 3. ALL EXISTING SIGNS SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
 4. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL DRIVEWAY ENTRANCES DURING CONSTRUCTION.
 5. PEDESTRIAN AND BICYCLE DETOURS SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION ACCORDING TO THE MARYLAND WORK ZONE SAFETY GUIDELINES AND THE MARYLAND MUTCD GUIDELINES.
- STORM SEWER**
1. LENGTHS OF PIPES SHOWN ON THE DRAWINGS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.
 2. INVERT ELEVATIONS SHOWN ON THE DRAWINGS ARE TAKEN AT THE FACE OF THE STRUCTURE.
 3. MINOR FILL ADJUSTMENTS IN THE ELEVATION AND ALIGNMENT OF STORM SEWERS AND STRUCTURES MAY BE NECESSARY TO MEET EXISTING CONDITIONS AND PROPOSED FINAL GRADING. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR RECORD PRIOR TO MAKING ANY NECESSARY ADJUSTMENTS.
 4. TOP OF STRUCTURES SHALL BE SET TO MATCH CURB AND GUTTER, SIDEWALK AND/OR DITCH CONSTRUCTION.

SIDEWALKS AND MULTI-USE/SHARED USE PATHS

1. A MINIMUM 2 FOOT CLEARANCE IS REQUIRED BETWEEN THE WALKWAY EDGE AND ANY VERTICAL CONSTRAINT SUCH AS TREES, UTILITY POLES, SIGNS, ETC., UNLESS OTHERWISE SPECIFICALLY NOTED ON THE PLANS AT EACH LOCATION.
2. A MINIMUM 5 FOOT UTILITY STRIP IS REQUIRED BETWEEN THE EDGE OF THE WALKWAY AND THE BACK OF THE CURB AND GUTTER, UNLESS OTHERWISE NOTED ON THE PLAN.
3. A MINIMUM 10 FOOT SEPARATION IS REQUIRED BETWEEN THE EDGE OF THE SIDEWALK AND THE EDGE OF THE PAVEMENT FOR NON CURB AND GUTTER ROADS, UNLESS OTHERWISE NOTED ON THE PLANS.
4. SHARED USE PATHS SHALL BE A MINIMUM OF 10 FEET WIDTH, UNLESS OTHERWISE NOTED.
5. ALL VEGETATIVE MATERIAL WITHIN 10 FEET OF VERTICAL CLEARANCE FROM THE PROPOSED PATHWAY SHALL BE REMOVED PRIOR TO PATH CONSTRUCTION. THE HORIZONTAL CLEARING LIMITS SHALL BE IN ACCORDANCE WITH THE DETAILS PROVIDED. AN EXCEPTION TO THIS REQUIREMENT SHALL BE TO SAVE ANY TREES THAT ARE DESIGNATED ON THE CONSTRUCTION PLANS.
6. ALL GRADES FOR PROPOSED SIDEWALK SHALL BE IN ACCORDANCE WITH CONSTRUCTION PLANS. ANY FIELD ADJUSTMENT OF THE PROPOSED SIDEWALK GRADES SHALL BE APPROVED BY THE ENGINEER OF RECORD. THE FOLLOWING GRADE CRITERIA SHALL BE ADHERED TO FOR FIELD ADJUSTMENTS:
 - MINIMUM GRADE: 1% EXCEPT IN SAGS WITH ADEQUATE DRAINAGE
 - MAXIMUM GRADE: ROADWAY GRADE OR 5% WHICHEVER IS GREATER IN AREAS WHERE SIDEWALK OR SHARED USE PATH IS ADJACENT TO A ROADWAY. MAXIMUM GRADE IS 5% IN ALL OTHER AREAS.

T'OOLE
DESIGN

NORTH LAUREL CONNECTIONS
HOWARD COUNTY, MD

GENERAL

PROJECT NO.	5409.05
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GENERAL NOTES

DATE	12-18-2020
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DRAWING NO.	C1.2
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SHEET NO. 3 of 34

EROSION AND SEDIMENT CONTROL

1. TEMPORARY SILT FENCE SHALL BE CONSTRUCTED FOR SHEET RAIN OFF, AND SHALL BE LOCATED AS DIRECTED BY HOWARD COUNTY REPRESENTATIVE OR EROSION AND SEDIMENT INSPECTOR. SUPER SILT FENCE MAY BE INSTALLED AT THE SITE UNDER THE DIRECTION OF THE HOWARD SOIL AND CONSERVATION DISTRICT INSPECTOR.
2. WHEN WIRE SUPPORT IS USED, STANDARD STRENGTH FILTER CLOTH MAY BE USED. POSTS FOR THIS TYPE OF INSTALLATION SHALL BE PLACED A MAXIMUM OF 10 FEET APART. THE WIRE MESH FENCE MUST BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST ONE INCH LONG, TIE WIRES, OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 12 INCHES AND SHALL NOT EXTEND MORE THAN 34 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
3. WHEN WIRE SUPPORT IS NOT USED, EXTRA STRENGTH FILTER CLOTH MAY BE USED. POSTS FOR THIS TYPE OF FABRIC SHALL BE PLACED AT A MAXIMUM OF 6 FEET APART. THE FILTER FABRIC SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING ONE INCH LONG (MINIMUM) HEAVY DUTY WIRE STAPLES OR TIE WIRES AND EIGHT INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH.
4. WIRE FENCE REINFORCEMENT FOR SILT FENCES USING STANDARD STRENGTH FILTER CLOTH SHALL BE A MINIMUM OF 14 GAUGE AND SHALL HAVE A MAXIMUM MESH SPACING OF 6 INCHES. POSTS SHALL BE EITHER STEEL POSTS OR WOODEN STAKES AND HAVE A MINIMUM LENGTH OF 5 FEET.
5. SYNTHETIC FILTER FABRIC SHALL BE A PEROUS SHEET OF PROPYLENE, NYLON, POLYESTER OR ETHYLENE YARN AND SHALL BE CERTIFIED BY THE MANUFACTURER OR SUPPLIER AS CONFORMING TO THE REQUIREMENTS NOTED IN THE LATEST VERSION OF THE MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL AND EROSION AND SEDIMENT CONTROL HANDBOOK. THE SYNTHETIC FILTER FABRIC SHALL CONTAIN ULTRAVIOLET RAY INHIBITORS AND STABILIZERS TO PROVIDE A MINIMUM OF SIX MONTHS OF EXPECTED USABLE CONSTRUCTION LIFE AT A TEMPERATURE RANGE OF 0°F TO 120°F.
6. SILT FENCES SHALL BE INSPECTED AND CLEANED ON A WEEKLY BASIS AND ON A DAILY BASIS IMMEDIATELY FOLLOWING EACH RAIN STORM. ALL NECESSARY REPAIRS SHOULD BE MADE IMMEDIATELY.
7. REFERENCE THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL OR MOST RECENT VERSION.
8. THE TEMPORARY EROSION AND SILTATION (E&S) CONTROL ITEMS SHOWN ON THE E&S CONTROL PLANS ARE INTENDED TO PROVIDE A GENERAL PLAN FOR CONTROLLING EROSION AND SILTATION WITHIN THE PROJECT LIMITS. THE E&S CONTROL PLAN IS BASED ON FIELD CONDITIONS AT THE TIME OF LAND DEVELOPMENT AND AN ASSUMED SEQUENCE OF CONSTRUCTION. THE CONTRACTOR, IN CONJUNCTION WITH THE PROJECT DESIGNER, EROSION AND SEDIMENT MONITOR, SHALL ADJUST THE LOCATION, QUANTITY AND TYPE OF EROSION AND SILTATION CONTROL ITEMS REQUIRED BASED ON THE ACTUAL FIELD CONDITIONS ENCOUNTERED AT THE TIME OF CONSTRUCTION AND THE SELECTED SEQUENCE OF CONSTRUCTION.
9. THE AREAS BEYOND THE PROJECTS CONSTRUCTION AREA ARE TO BE PROTECTED FROM SILTATION. PERIMETER CONTROLS SUCH AS FILTER BARRIER, SILT FENCE, DIVERSION DIKES, TURBIDITY CURTAINS, ETC. SHALL BE INSTALLED PRIOR TO ANY GRUBBING OPERATIONS OR OTHER EARTH MOVING ACTIVITIES.
10. ROCK FOR CHECK DAMS, DROP INLET SILT TRAPS, EROSION CONTROL STONE AND RIPRAP IN CHANNELS SHALL BE IN ACCORDANCE WITH THE LATEST VERSION OF THE MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL AND EROSION AND SEDIMENT CONTROL HANDBOOK.
11. SITE REMEDIAL AND SEDIMENT CLEAN-OUT FROM EROSION AND SILTATION CONTROL ITEMS SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING:
 - A. TEMPORARY SEDIMENT BASINS AND SEDIMENT TRAPS - WHEN THE "WET" STORAGE VOLUME (PERMANENT POOL) HAS BEEN REDUCED BY 50%.
 - B. DEWATERING BASINS - WHEN THE EXCAVATED VOLUME HAS BEEN REDUCED BY 50%.
 - C. ALL OTHER EROSION AND SILTATION CONTROL ITEMS - WHEN THE CAPACITY, HEIGHT, OR DEPTH HAS BEEN REDUCED BY 50%.
12. EXCEPT WHERE NOTED HEREON, TO THE BEST OF THE DESIGNER'S KNOWLEDGE, THE PROPOSED DEVELOPMENT OF THE SUBJECT PROPERTY CONFORMS TO ALL CURRENT APPLICABLE LAND DEVELOPMENT ORDINANCES, REGULATIONS, AND ADOPTED STANDARDS.
13. LAND CONSERVATION NOTES - MEASURES TO CONTROL EROSION AND SILTATION SHALL BE PROVIDED PURSUANT TO AND IN COMPLIANCE WITH CURRENT STATE AND LOCAL REGULATIONS. HOWEVER, THE APPROVAL OF THESE PLANS SHALL IN NO WAY RELIEVE THE CONTRACTOR OR HIS AGENT OF ANY LEGAL RESPONSIBILITIES WHICH MAY BE REQUIRED BY THE CODE OF MARYLAND OR ANY ORDINANCE ENACTED BY MARYLAND, SHA, OR HOWARD COUNTY.
14. EROSION AND SILTATION CONTROL SHALL BE PROVIDED WHERE NECESSARY PRIOR TO CLEARING, GRADING AND CONSTRUCTION.
15. ADDITIONAL SILTATION AND EROSION CONTROL MEASURES SHALL BE INSTALLED AS DIRECTED BY HOWARD COUNTY INSPECTOR DURING FIELD REVIEW; COSTS ASSOCIATED WITH ADDITIONAL MEASURES SHALL BE ASSUMED BY THE CONTRACTOR.

SEDIMENT CONTROL NOTES

1. A PRE-CONSTRUCTION MEETING MUST OCCUR WITH THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS, CONSTRUCTION INSPECTION DIVISION (CID), 410-313-1855 AFTER THE FUTURE LOD AND PROTECTED AREAS ARE MARKED CLEARLY IN THE FIELD. A MINIMUM OF 48 HOUR NOTICE TO CID MUST BE GIVEN AT THE FOLLOWING STAGES:
 - A. PRIOR TO THE START OF EARTH DISTURBANCE,
 - B. UPON COMPLETION OF THE INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING,
 - C. PRIOR TO THE START OF ANOTHER PHASE OF CONSTRUCTION OR OPENING OF ANOTHER GRADING UNIT,
 - D. PRIOR TO THE REMOVAL OR MODIFICATION OF SEDIMENT CONTROL PRACTICES.OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE. OTHER RELATED STATE AND FEDERAL PERMITS SHALL BE REFERENCED, TO ENSURE COORDINATION AND TO AVOID CONFLICTS WITH THIS PLAN.
2. ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, AND REVISIONS THERETO
3. FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION IS REQUIRED WITHIN THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER CONTROLS, DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1); AND SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED AREAS ON THE PROJECT SITE EXCEPT FOR THOSE AREAS UNDER ACTIVE GRADING.
4. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR TOPSOIL (SEC. B-4-2), PERMANENT SEEDING (SEC. B-4-5), TEMPORARY SEEDING (SEC. B-4-4) AND MULCHING (SEC. B-4-3). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE APPLIED BETWEEN THE FALL AND SPRING SEEDING DATES IF THE GROUND IS FROZEN. INCREMENTAL STABILIZATION (SEC. B-4-1) SPECIFICATIONS SHALL BE ENFORCED IN AREAS WITH >15' OF CUT AND/OR FILL. STOCKPILES (SEC. B-4-8) IN EXCESS OF 20 FT. MUST BE BENCHED WITH STABLE OUTLET. ALL CONCENTRATED FLOW, STEEP SLOPE, AND HIGHLY ERODIBLE AREAS SHALL RECEIVE SOIL STABILIZATION MATTING (SEC. B-4-6).
5. ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE, AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE CID.
6. SITE ANALYSIS:

TOTAL AREA OF SITE:	1.9 ACRES
AREA DISTURBED:	1.9 ACRES
AREA TO BE ROOFED OR PAVED:	x.xx ACRES
AREA TO BE VEGETATIVELY STABILIZED:	x.xx ACRES
TOTAL CUT:	100 CU. YDS.
TOTAL FILL:	805 CU. YDS.

SURPLUS CUT TO BE DISPOSED OF ON A SITE WITH AN APPROVED SEDIMENT CONTROL PLAN.
7. ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.

3. ADDITIONAL SEDIMENT CONTROL MUST BE PROVIDED, IF DEEMED NECESSARY BY THE CID. THE SITE AND ALL CONTROLS SHALL BE INSPECTED BY THE CONTRACTOR WEEKLY, AND THE NEXT DAY AFTER EACH RAIN EVENT. A WRITTEN REPORT BY THE CONTRACTOR, MADE AVAILABLE UPON REQUEST, IS PART OF EVERY INSPECTION AND SHOULD INCLUDE:
- INSPECTION DATE
 - INSPECTION TYPE (ROUTINE, PRE-STORM EVENT, DURING RAIN EVENT)
 - NAME AND TITLE OF INSPECTOR
 - WEATHER INFORMATION (CURRENT CONDITIONS AS WELL AS TIME AND AMOUNT OF LAST RECORDED PRECIPITATION)
 - BRIEF DESCRIPTION OF PROJECT'S STATUS (E.G., PERCENT COMPLETE) AND/OR CURRENT ACTIVITIES
 - EVIDENCE OF SEDIMENT DISCHARGES
 - IDENTIFICATION OF PLAN DEFICIENCIES
 - IDENTIFICATION OF SEDIMENT CONTROLS THAT REQUIRE MAINTENANCE
 - IDENTIFICATION OF MISSING OR IMPROPERLY INSTALLED SEDIMENT CONTROLS
 - STATUS REGARDING THE SEQUENCE OF CONSTRUCTION AND STABILIZATION REQUIREMENTS
 - PHOTOGRAPHS
 - MONITORING/SAMPLING
 - MAINTENANCE AND/OR CORRECTIVE ACTION PERFORMED
 - OTHER INSPECTION ITEMS AS REQUIRED BY THE GENERAL PERMIT FOR STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITIES (NPDES, MDE).
9. TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH CAN AND SHALL BE BACK-FILLED AND STABILIZED BY THE END OF EACH WORKDAY, WHICHEVER IS SHORTER.
10. ALL MAJOR OR CORRECTIVE REVISIONS TO THE PLAN OR SEQUENCE OF CONSTRUCTION MUST BE REVIEWED AND APPROVED BY THE HSCD PRIOR TO PROCEEDING WITH CONSTRUCTION. MINOR REVISIONS MAY ALLOWED BY THE CID PER THE LIST OF HSCD-APPROVED FIELD CHANGES.
11. DISTURBANCE SHALL NOT OCCUR OUTSIDE THE L.O.D. A PROJECT IS TO BE SEQUENCED SO THAT GRADING ACTIVITIES BEGIN ON ONE GRADING UNIT (MAXIMUM ACREAGE OF 20 AC. PER GRADING UNIT) AT A TIME. WORK MAY PROCEED TO A SUBSEQUENT GRADING UNIT WHEN AT LEAST 50 PERCENT OF THE DISTURBED AREA IN THE PRECEDING GRADING UNIT HAS BEEN STABILIZED AND APPROVED BY THE CID, UNLESS OTHERWISE SPECIFIED AND APPROVED BY THE HSCD. NON-CONFORMING REVISIONS CUMULATIVELY MAY BE DISTURBED AT A GIVEN TIME.
12. WASH WATER FROM ANY EQUIPMENT, VEHICLES, WHEELS, PAVEMENT, AND OTHER SOURCES MUST BE TREATED IN A SEDIMENT BASIN OR OTHER APPROVED WASHOUT STRUCTURE.
13. TOPSOIL SHALL BE STOCKPILED AND PRESERVED ON-SITE FOR REDISTRIBUTION ONTO FINAL GRADE.
14. ALL SILT FENCE AND SUPER SILT FENCE SHALL BE PLACED ON-THE-CONTOUR, AND BE IMBRICATED AT 25' MINIMUM INTERVALS, WITH LOWER ENDS CURLED UPHILL BY 2' IN ELEVATION.
15. STREAM CHANNELS MUST NOT BE DISTURBED DURING THE FOLLOWING RESTRICTED TIME PERIODS (INCLUSIVE):
- USE I AND IP MARCH 1 - JUNE 15
 - USE III AND IIP OCTOBER 1 - APRIL 30
 - USE IV MARCH 1 - MAY 31
16. A COPY OF THIS PLAN, THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, AND ASSOCIATED PERMITS SHALL BE ON-SITE AND AVAILABLE WHEN THE SITE IS ACTIVE.

APPROVED
PLANNING BOARD OF HOWARD COUNTY

Date: _____

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

Director	Date
Chief, Division of Land Development	Date
Chief, Development Engineering Division	Date

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE PLANS
WERE PREPARED OR APPROVED BY
ME, AND THAT I AM A DULY LICENSED
PROFESSIONAL ENGINEER UNDER THE
LAWS OF THE STATE OF [STATE],
LICENSE NO. 35022,
EXPIRATION DATE: 12/28/2021.



REUSE OF DOCUMENTS

ALL DRAWINGS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THIS PROJECT.
REUSE OR ALTERATION IS AT THE USER'S SOLE RISK.

DSGN	SD						
DR	RB						
CHK	AO						
APVD	MRAB	NO.	DATE	REVISION		BY	APVD

T'OOLE
DESIGN

NORTH LAUREL CONNECTIONS
HOWARD COUNTY, MD

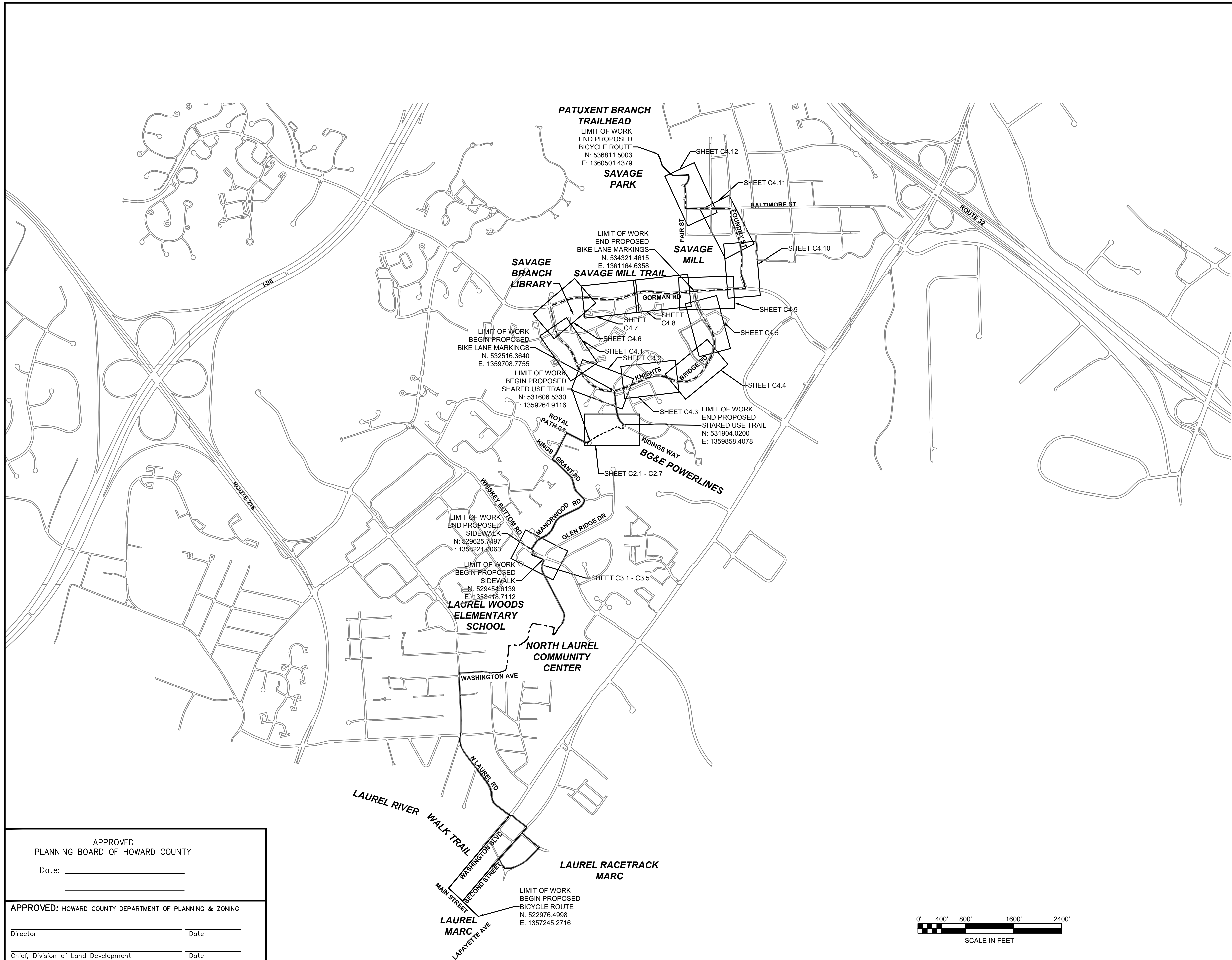
GENERAL

PROJECT NO. 5409.05

DATE 12-18-2020

DRAWING NO. C1.3

SHEET NO. 4 of 34

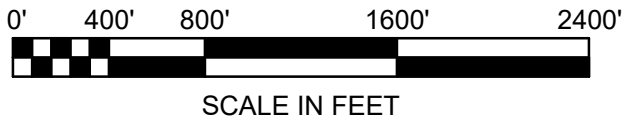


NOTES

1. PROPOSED BIKE ROUTE BEGINS IN THE SOUTH AT THE LAUREL MARC STATION AND CONTINUES NORTH TO SAVAGE PARK, WHERE IT CONNECTS WITH THE EXISTING PATUXENT BRANCH TRAIL.
2. A PROPOSED PAVED TRAIL WILL CARRY THE BIKE ROUTE ACROSS THE BALTIMORE GAS & ELECTRIC (BG&E) POWERLINE PROPERTY BETWEEN ROYAL PATH COURT AND RIDINGS WAY. SEE SHEET C2.2 FOR PLAN AND PROFILE OF THE PROPOSED TRAIL.
3. ADDITIONAL ROADWAY MARKINGS FOR THE EXISTING BIKE LANE ALONG KNIGHTS BRIDGE ROAD AND PROPOSED SHARED LANE MARKINGS (SHARROWS) FOR FOUNDRY STREET, BALTIMORE STREET, AND FAIR STREET ARE SHOWN ON SHEETS C4.1 - C4.12.
4. SEE SHEET C1.2 FOR PROJECT NOTES.
5. SEE SHEET C5.1 - 5.3 FOR CONSTRUCTION DETAILS.
6. PROPOSED WAYFINDING SIGNS ARE INCLUDED IN A SEPARATE PACKAGE.

LEGEND

- EXISTING ROADWAY WITH PROPOSED WAYFINDING
- EXISTING TRAIL SEGMENT WITH PROPOSED WAYFINDING
- PROPOSED TRAIL SEGMENT WITH PROPOSED WAYFINDING
- EXISTING/ENHANCED BIKE LANE SEGMENTS WITH PROPOSED WAYFINDING
- PROPOSED SHARED LANE AREAS WITH PROPOSED WAYFINDING



APPROVED
PLANNING BOARD OF HOWARD COUNTY

Date: _____

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

Director _____ Date _____

Chief, Division of Land Development _____ Date _____

Chief, Development Engineering Division _____ Date _____

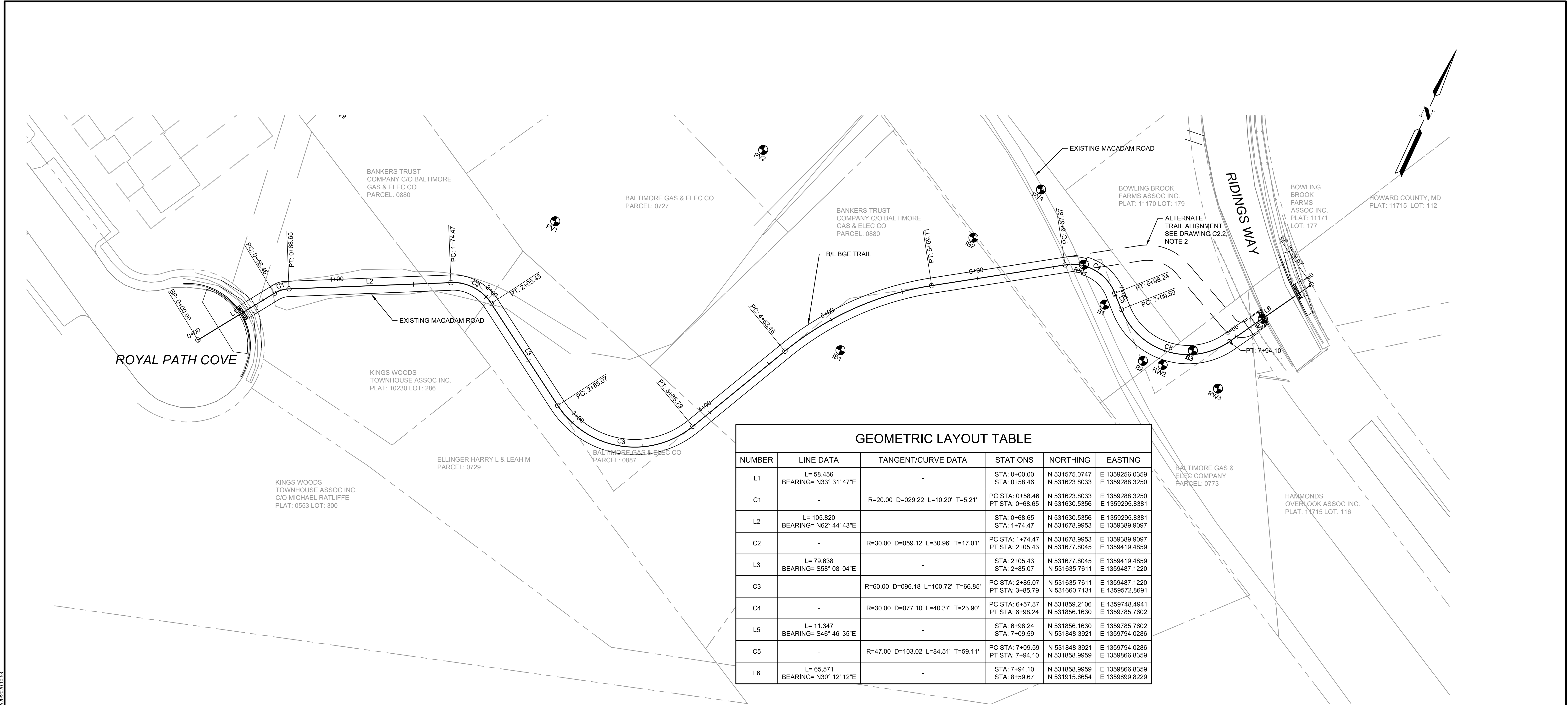
PROFESSIONAL CERTIFICATION		REUSE OF DOCUMENTS			
<div>I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF [STATE], LICENSE NO. 35022, EXPIRATION DATE: 12/28/2021.</div> <div></div>		ALL DRAWINGS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THIS PROJECT. REUSE OR ALTERATION IS AT THE USER'S SOLE RISK.			
		DSGN	SD		
		DR	RB		
		CHK	AO		
		APVD	MRAB	NO	DATE

TOOLE
DESIGN

NORTH LAUREL CONNECTIONS
HOWARD COUNTY, MD

GENERAL		PROJECT NO.
OVERALL ROUTE LAYOUT		5409.05
		DATE 12-18-2020
		DRAWING NO. C1.5
		SHEET NO. 6 of 34

\\s01\lun\05000154505.05 - North Laurel Connections Final Design\PROJECT\CD\PLANS\5409.05-CD-02.dwg(HELMY ALLISTON-BRECK)12/29/2020 10:58 AM



GEOMETRIC LAYOUT TABLE					
NUMBER	LINE DATA	TANGENT/CURVE DATA	STATIONS	NORTHING	EASTING
L1	L= 58.456 BEARING= N33° 31' 47"E	-	STA: 0+00.00 STA: 0+58.46	N 531575.0747 N 531623.8033	E 1359256.0359 E 1359288.3250
C1	-	R=20.00 D=029.22 L=10.20' T=5.21'	PC STA: 0+58.46 PT STA: 0+68.65	N 531623.8033 N 531630.5356	E 1359288.3250 E 1359295.8381
L2	L= 105.820 BEARING= N62° 44' 43"E	-	STA: 0+68.65 STA: 1+74.47	N 531630.5356 N 531678.9953	E 1359295.8381 E 1359389.9097
C2	-	R=30.00 D=059.12 L=30.96' T=17.01'	PC STA: 1+74.47 PT STA: 2+05.43	N 531678.9953 N 531677.8045	E 1359389.9097 E 1359419.4859
L3	L= 79.638 BEARING= S58° 08' 04"E	-	STA: 2+05.43 STA: 2+85.07	N 531677.8045 N 531635.7611	E 1359419.4859 E 1359487.1220
C3	-	R=60.00 D=096.18 L=100.72' T=66.85'	PC STA: 2+85.07 PT STA: 3+85.79	N 531635.7611 N 531660.7131	E 1359487.1220 E 1359572.8691
C4	-	R=30.00 D=077.10 L=40.37' T=23.90'	PC STA: 6+57.87 PT STA: 6+98.24	N 531859.2106 N 531856.1630	E 1359748.4941 E 1359785.7602
L5	L= 11.347 BEARING= S46° 46' 35"E	-	STA: 6+98.24 STA: 7+09.59	N 531856.1630 N 531848.3921	E 1359785.7602 E 1359794.0286
C5	-	R=47.00 D=103.02 L=84.51' T=59.11'	PC STA: 7+09.59 PT STA: 7+94.10	N 531848.3921 N 531858.9959	E 1359794.0286 E 1359866.8359
L6	L= 65.571 BEARING= N30° 12' 12"E	-	STA: 7+94.10 STA: 8+59.67	N 531858.9959 N 531915.6654	E 1359866.8359 E 1359899.8229

APPROVED
PLANNING BOARD OF HOWARD COUNTY

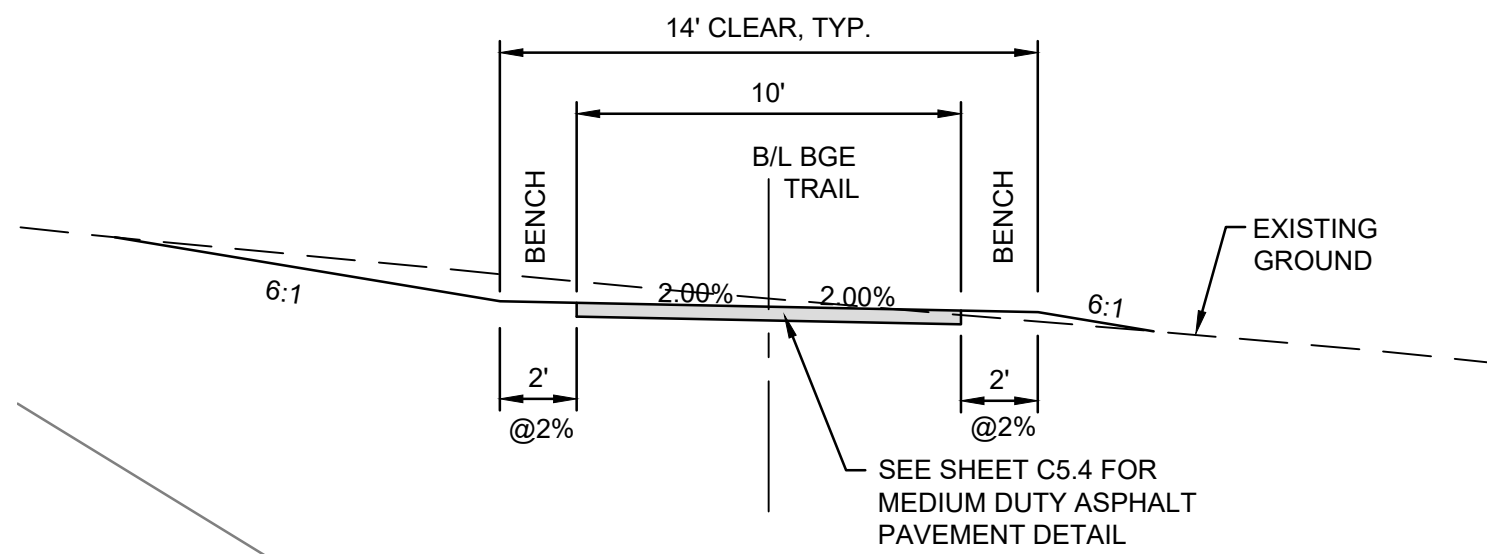
Date: _____

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

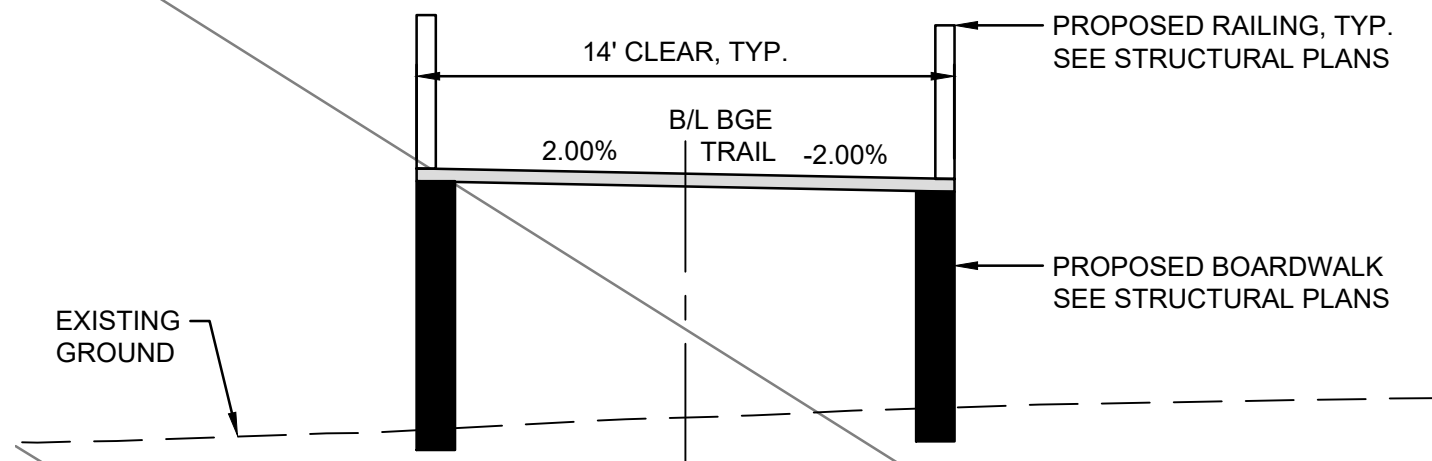
Director _____ Date _____

Chief, Division of Land Development _____ Date _____

Chief, Development Engineering Division _____ Date _____



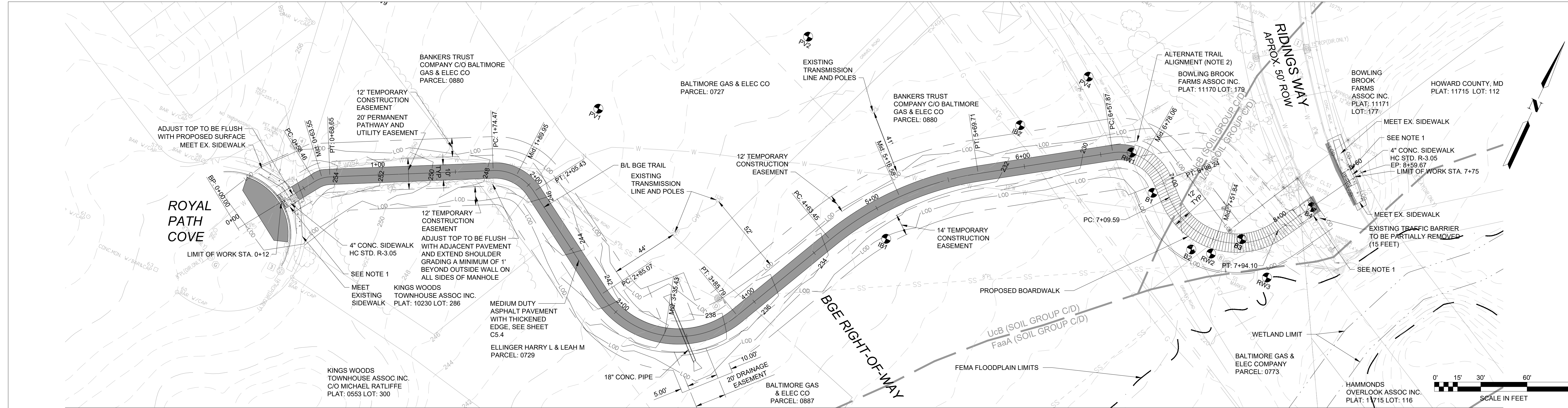
TYPICAL SECTION - TRAIL
SCALE: HOR. 1"=5'
VERT. 1"=5'



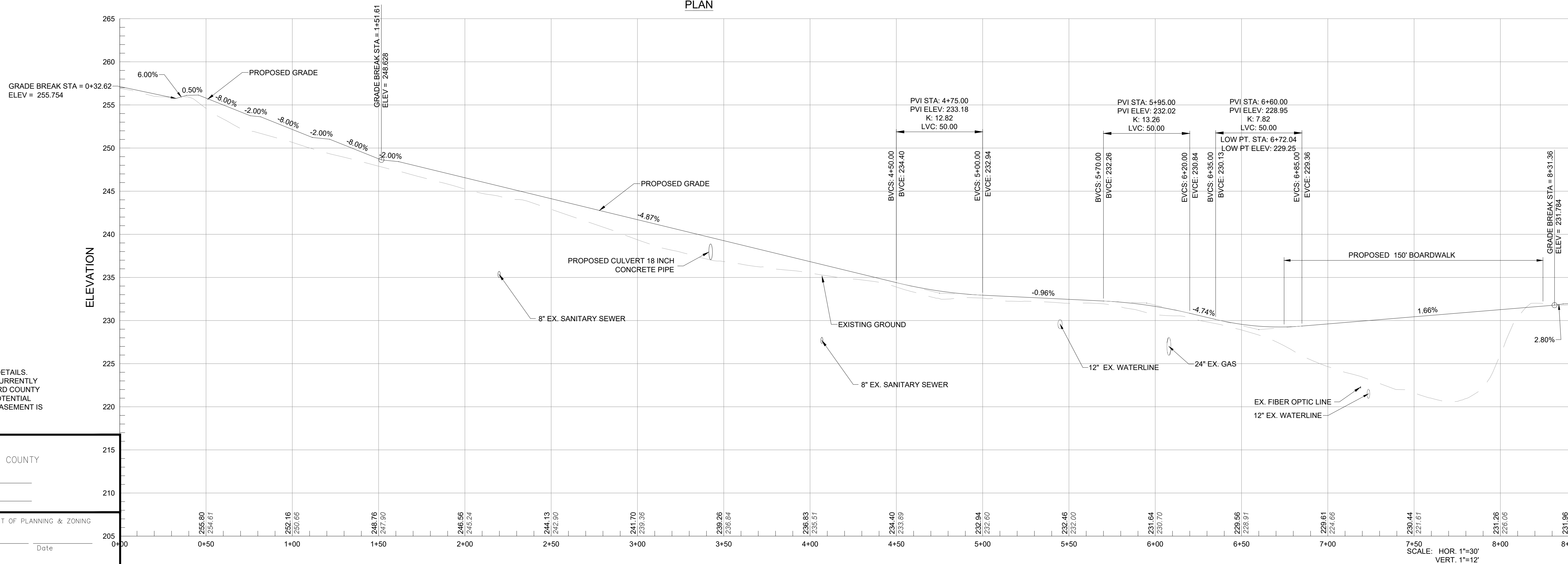
TYPICAL SECTION - TRAIL ON BOARDWALK
SCALE: HOR. 1"=5'
VERT. 1"=5'



PROFESSIONAL CERTIFICATION I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF [STATE], LICENSE NO. 35022, EXPIRATION DATE: 12/28/2021.		REUSE OF DOCUMENTS ALL DRAWINGS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THIS PROJECT. REUSE OR ALTERATION IS AT THE USER'S SOLE RISK.				TOOLE DESIGN 8484 GEORGIA AVENUE, SUITE 800 SILVER SPRING, MD 20910 PHONE: 301.927.1900 FAX: 301.927.2800 www.tooledesign.com	NORTH LAUREL CONNECTIONS HOWARD COUNTY, MD	CIVIL BGE GEOMETRIC LAYOUT PLAN AND TYPICAL SECTIONS		PROJECT NO.	5409.05
										DATE	12-18-2020
										DRAWING NO.	C2.1
										SHEET NO.	7 of 34



PLAN



PROFILE

\\file001\ps050005499.05_North Laurel Connections Final Design\PRODUCTION\CADD\PLANS\5409.05-CD-01.dwg(STATE) DESA1123020207.55 AM

- NOTES:
- SEE SHEET C2.7 FOR CURB RAMP DETAILS.
 - ALTERNATE TRAIL ALIGNMENT IS CURRENTLY UNDER CONSIDERATION BY HOWARD COUNTY TO ELIMINATE BOARDWALK AND POTENTIAL UTILITY CONFLICTS. PERMANENT EASEMENT IS REQUIRED.

APPROVED PLANNING BOARD OF HOWARD COUNTY	
Date: _____	_____
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING	
Director _____	Date _____
Chief, Division of Land Development _____	Date _____
Chief, Development Engineering Division _____	Date _____

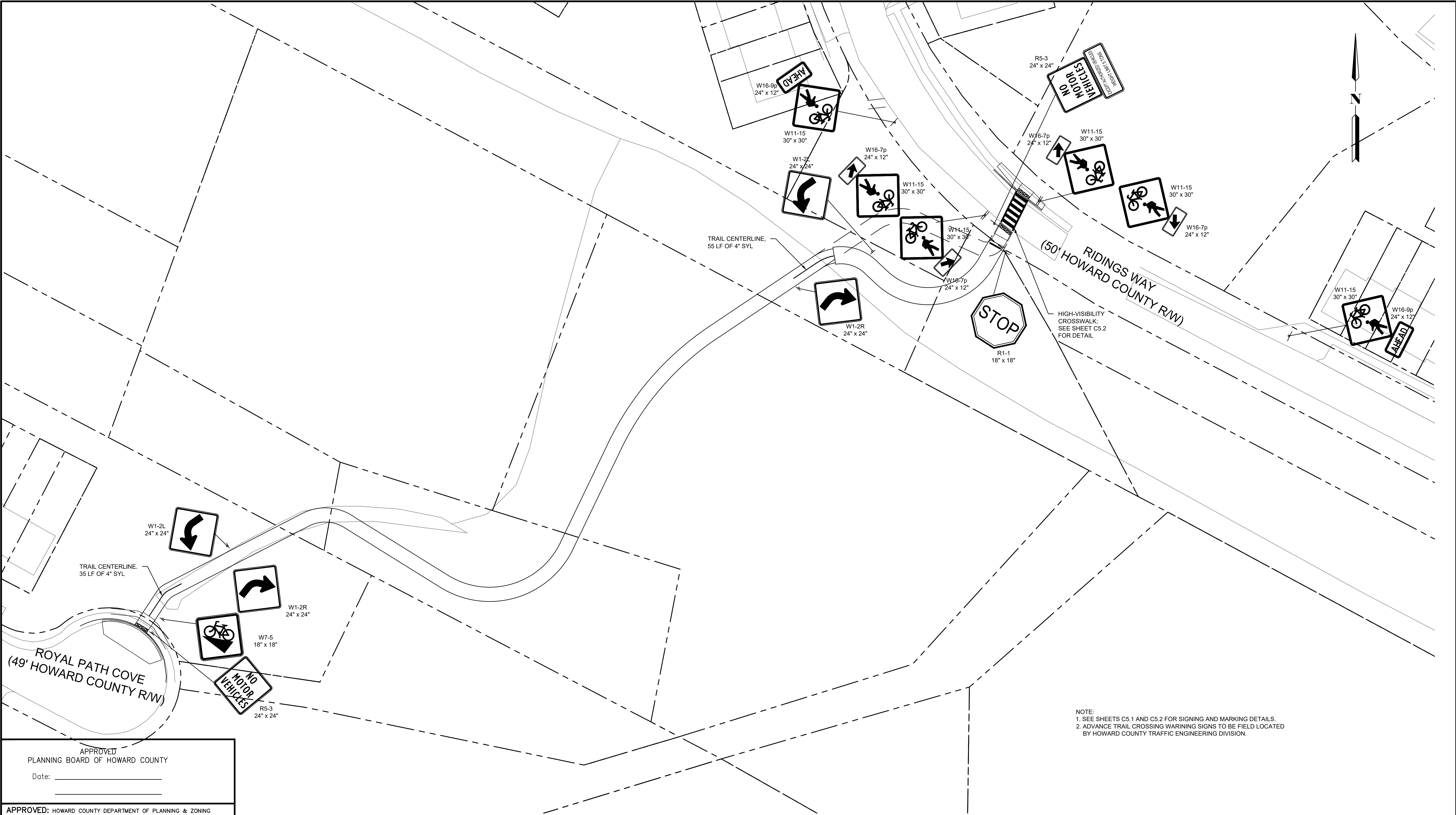
PROFESSIONAL CERTIFICATION		REUSE OF DOCUMENTS				CIVIL		PROJECT NO.	
I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF [STATE]. LICENSE NO. 35022 EXPIRATION DATE: 12/28/2021.		ALL DRAWINGS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THIS PROJECT. REUSE OR ALTERATION IS AT THE USER'S SOLE RISK.				BGE PLAN AND PROFILE		5409.05	
		DSGN	VLR					DATE	
		DR	VLR					12-18-2020	
		CHK	AO					DRAWING NO.	
		APVD	MRAB	NO.	DATE	REVISION		C2.2	
				BY	APVD			SHEET NO.	
								8 of 34	

TOOLE
DESIGN

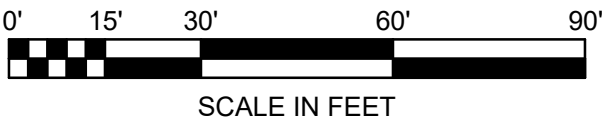
8484 GEORGIA AVENUE, SUITE 800
SILVER SPRING, MD 20910
PHONE: 301.927.1900
FAX: 301.927.2800
www.tooledesign.com

NORTH LAUREL CONNECTIONS
HOWARD COUNTY, MD

NOT FOR CONSTRUCTION



NOTE:
1. SEE SHEETS C5.1 AND C5.2 FOR SIGNING AND MARKING DETAILS.
2. ADVANCE TRAIL CROSSING WARNING SIGNS TO BE FIELD LOCATED BY HOWARD COUNTY TRAFFIC ENGINEERING DIVISION.

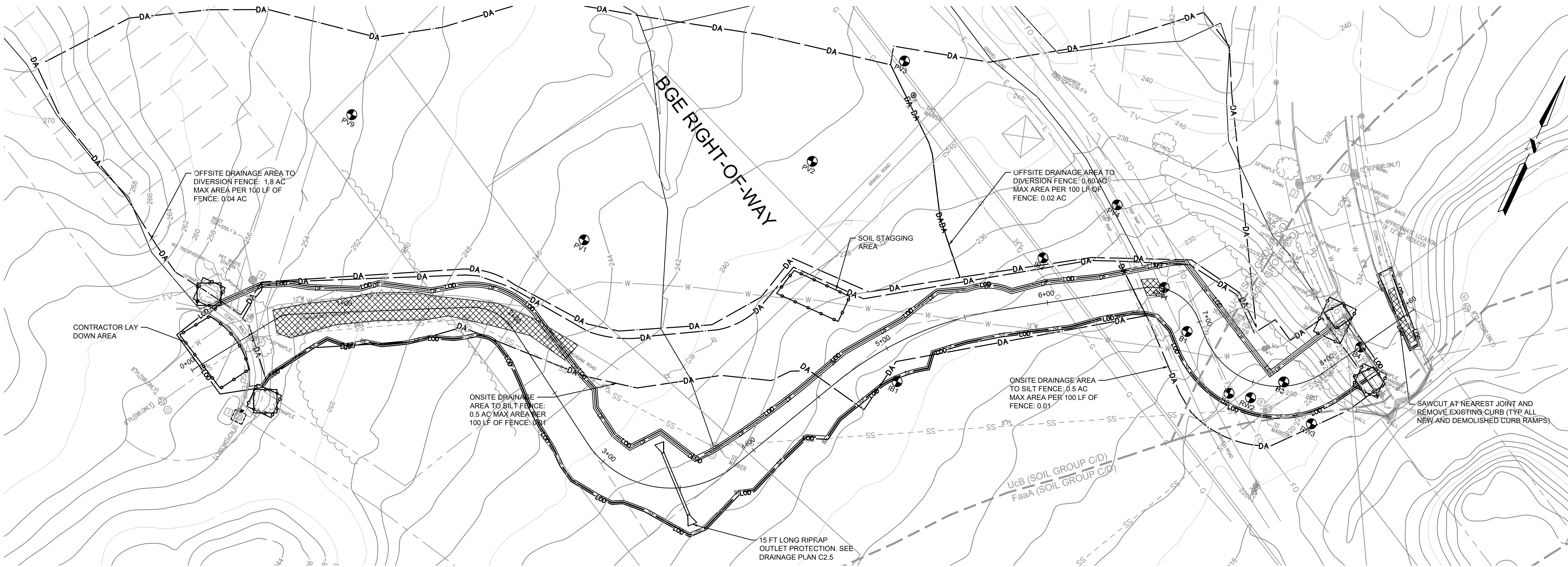


APPROVED
PLANNING BOARD OF HOWARD COUNTY
Date: _____

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
Director _____ Date _____
Chief, Division of Land Development _____ Date _____
Chief, Development Engineering Division _____ Date _____

PROFESSIONAL CERTIFICATION		REUSE OF DOCUMENTS							 8484 GEORGIA AVENUE, SUITE 800 SILVER SPRING, MD 20910 PHONE: 301.927.1900 FAX: 301.927.2800 www.tooledesign.com	NORTH LAUREL CONNECTIONS HOWARD COUNTY, MD	CIVIL		PROJECT NO.	5409.05		
I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF [STATE], LICENSE NO. 35022, EXPIRATION DATE: 12/28/2021.		DSGN	VLR								DATE	12-18-2020	BGE BGE SIGNING AND MARKING PLAN	DRAWING NO.	C2.3	
		DR	VLR												SHEET NO.	9 of 34
		CHK	AO													
			APVD	MRAB	NO.	DATE	REVISION				BY	APVD				

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- NOTES:
- SEE SHEETS C1.3 & C1.4 FOR EROSION AND SEDIMENT CONTROL NOTES.
 - SEE SHEET C5.3 FOR EROSION AND SEDIMENT CONTROL DETAILS.
 - SEE DRAWING C2.6 FOR LANDSCAPING PLAN.
 - PRIOR TO DEMOLITION OF THE EXISTING SIDEWALK, CONTRACTOR SHALL PROVIDE AN ADA-COMPLIANT DETOUR ROUTE FOR PEDESTRIANS AND CYCLISTS AROUND CLOSED SECTIONS OF THE PATHWAY. PROVIDE BARRICADES AND DETOUR SGINAGE PER MDMUTC D AT EACH CLOSURE.

SOIL LEGEND		
SOIL TYPE	SOIL DESCRIPTION	SOILS GROUP
UcB	Urban land-Chillum-Beltsville complex, 0 to 5 percent slopes	C
LoB	Legore-Montalto-Urban land complex, 0 to 8 percent slopes	C



APPROVED
PLANNING BOARD OF HOWARD COUNTY

Date: _____

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

Director _____ Date _____

Chief, Division of Land Development _____ Date _____

Chief, Development Engineering Division _____ Date _____

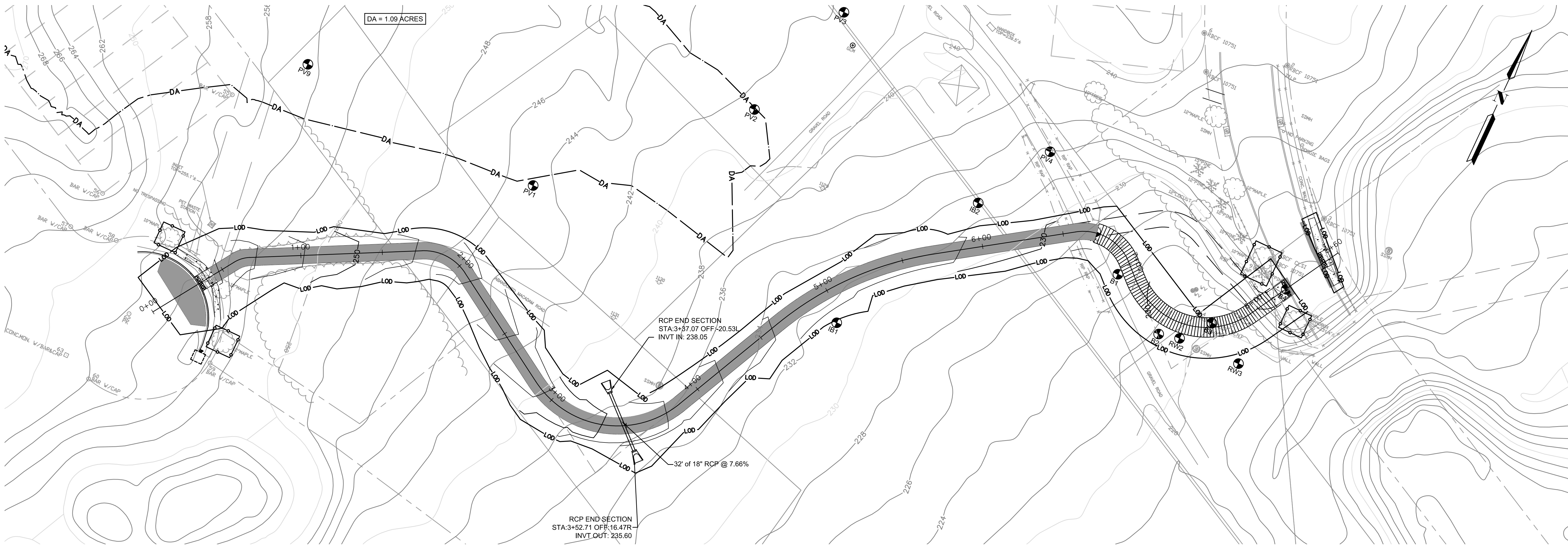
PROFESSIONAL CERTIFICATION

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LICENSE NO. 35022
EXPIRATION DATE: 12/28/2021.

<div>ENGINEER'S CERTIFICATION</div> <div>"I HEREBY CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."</div> <div>ENGINEER'S SIGNATURE _____ DATE _____</div>	<div>DEVELOPER'S/BUILDER'S CERTIFICATE</div> <div>"I/ WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT FOR SEDIMENT AND EROSION CONTROL AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."</div> <div>SIGNATURE OF DEVELOPER/BUILDER _____ DATE _____</div>	<div>THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.</div> <div>HOWARD S.C.D. _____ DATE _____</div>
--	--	--

REUSE OF DOCUMENTS				<div>TOOLE DESIGN</div> <div>8484 GEORGIA AVENUE, SUITE 800 SILVER SPRING, MD 20910 PHONE: 301.927.1900 FAX: 301.927.2800 www.tooledesign.com</div>	NORTH LAUREL CONNECTIONS HOWARD COUNTY, MD	CIVIL		PROJECT NO.	5409.05		
ALL DRAWINGS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THIS PROJECT. REUSE OR ALTERATION IS AT THE USER'S SOLE RISK.						BGE EROSION AND SEDIMENT CONTROL/DEMO PLAN		DATE	12-18-2020		
DSGN	AO							DRAWING NO.	C2.4		
DR	CK							SHEET NO.	10 of 34		
CHK	XXXX										
APVD	MRAB	NO.	DATE	REVISION	BY	APVD					

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LEGEND

- PROPOSED IMPERVIOUS PAVEMENT
- PROPOSED PERMEABLE PAVEMENT
- PROPOSED CONCRETE
- PROPOSED RIPRAP
- DA DRAINAGE AREA TO CULVERT
- LOD LIMIT OF DISTURBANCE

GENERAL NOTES:

- SEE SHEETS C1.3 & C1.4 FOR EROSION AND SEDIMENT CONTROL NOTES.
- SEE SHEET C5.3 FOR EROSION AND SEDIMENT CONTROL DETAILS.
- SEE DRAWING C2.6 FOR LANDSCAPING PLAN.

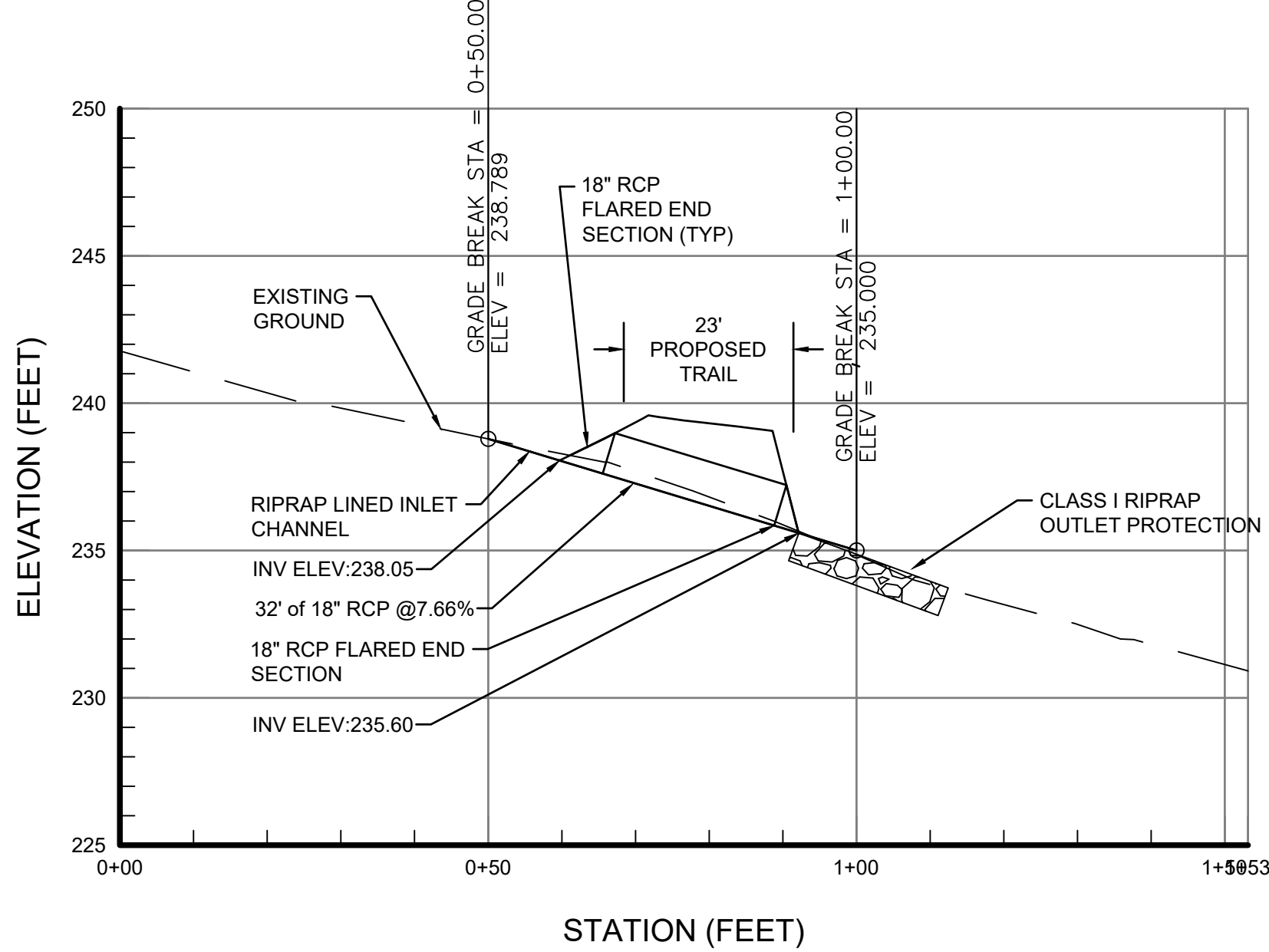
DRAINAGE NOTES:

- CULVERT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE HOWARD COUNTY DESIGN MANUAL VOLUMES I AND IV., UNLESS OTHERWISE NOTED.
- FOR TYPES OF STRUCTURES REFER TO THE LATEST STANDARD DETAILS PER HOWARD COUNTY BUREAU OF ENGINEERING.
- INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM SURVEY COMPLETED IN JULY 2018 IF CLEARANCES ARE LESS THAN SPECIFIED, CONTACT THE ENGINEER, AND OWNER OF OTHER INVOLVED UTILITY BEFORE PROCEEDING WITH CONSTRUCTION.
- CULVERT SHOULD HAVE A MINIMUM OF 1 FOOT OF COVER.

CULVERT CALCULATIONS	
A	1.09 ACRES
I	6.6 IN/HR
	RUNOFF COEFFICIENT, TABLE 3.01 HOWARD COUNTY DESIGN MANUAL
C	0.38 VOL. I
Q	2.73 FLOWRATE IN CFS
FREQUENCY	10 DESIGN FREQUENCY
Tc	10 MIN TIME OF CONCENTRATION

Analyzer Report	
Drainage Structure Analyzer	
Culvert Hydraulic Analysis	
Date: Wednesday, December 30, 2020 8:35:37 PM	
Input Data	
Shape	Circular
Material	RC C76-A
Roughness	0.013000
Entrance Edge	Square edge w/ headwall
Number of Barrels	1
Length	32.00 ft
Slope	766.000%
Tailwater	0.00 ft
Inlet Control Equation	Entrance Loss
Size (W x T):	18.00 x 2.0000
Flow Rate	2.7 cfs
Output Results	
Flow Rate	2.7 cfs
Control	Inlet
Capacity	290.7 cfs
Manning's Velocity	51.08 ft/s
Headwater	-4.87 ft
Critical Depth	0.62 ft
Normal Depth	0.10 ft
Size (W x T):	18.00 x 2.0000

CULVERT PROFILE PROFILE



SCALE: HOR. 1"=20'
VERT. 1"=5'

APPROVED
PLANNING BOARD OF HOWARD COUNTY

Date: _____

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

Director _____ Date _____
Chief, Division of Land Development _____ Date _____
Chief, Development Engineering Division _____ Date _____

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DSGN	AO				
DR	CK				
CHK	AO				
APVD	MRAB	NO.	DATE	REVISION	BY
					APVD

TOOLE
DESIGN

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SILVER SPRING, MD 20910
PHONE: 301.927.1900
FAX: 301.927.2800
www.tooledesign.com

NORTH LAUREL CONNECTIONS
HOWARD COUNTY, MD

CIVIL

BGE DRAINAGE PLAN

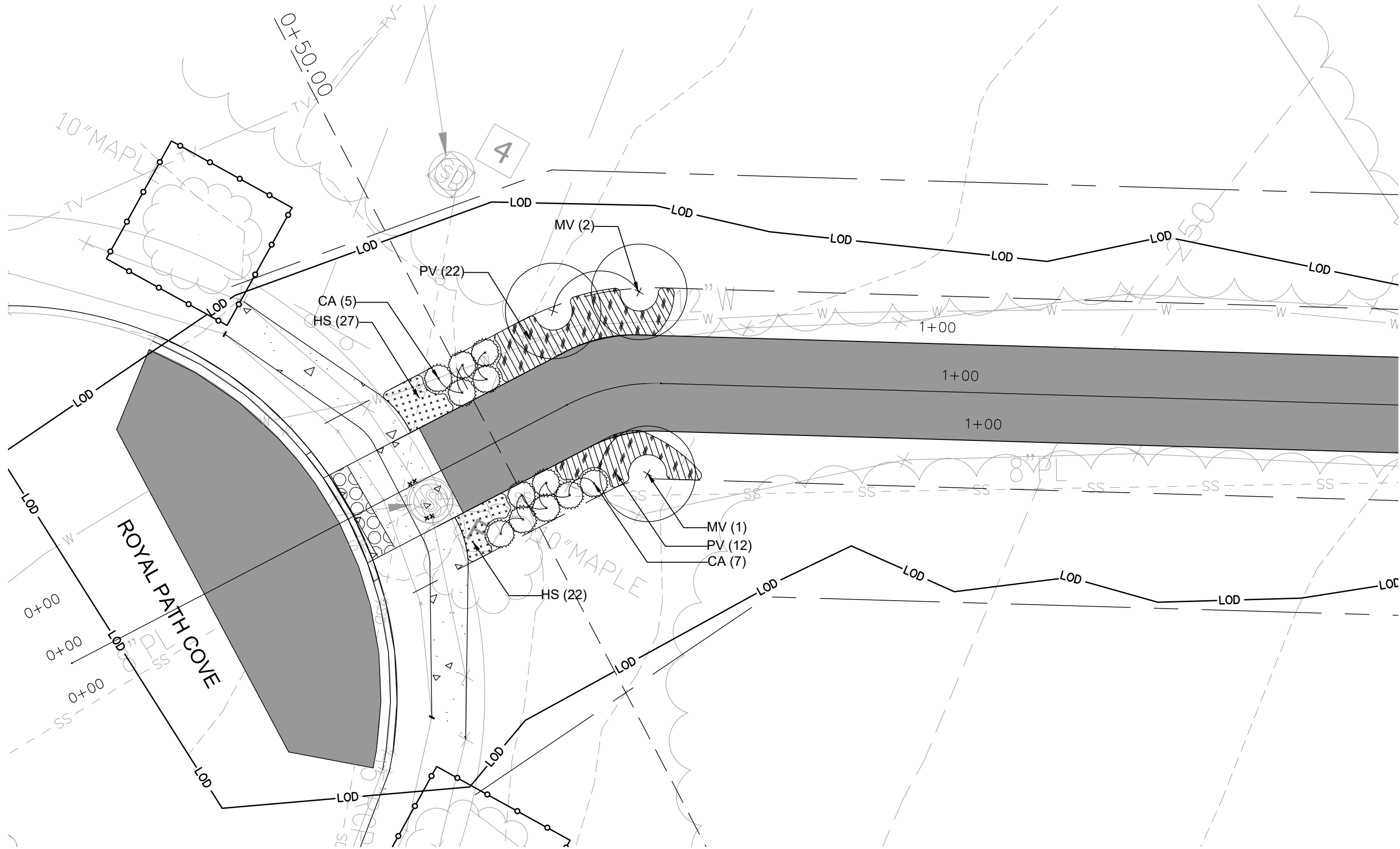
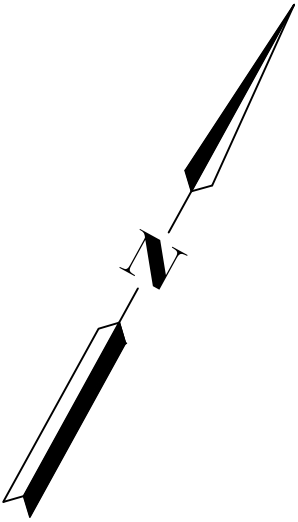
PROJECT NO.	5409.05
DATE	12-18-2020
DRAWING NO.	C2.5
SHEET NO.	11 of 34

NOT FOR CONSTRUCTION

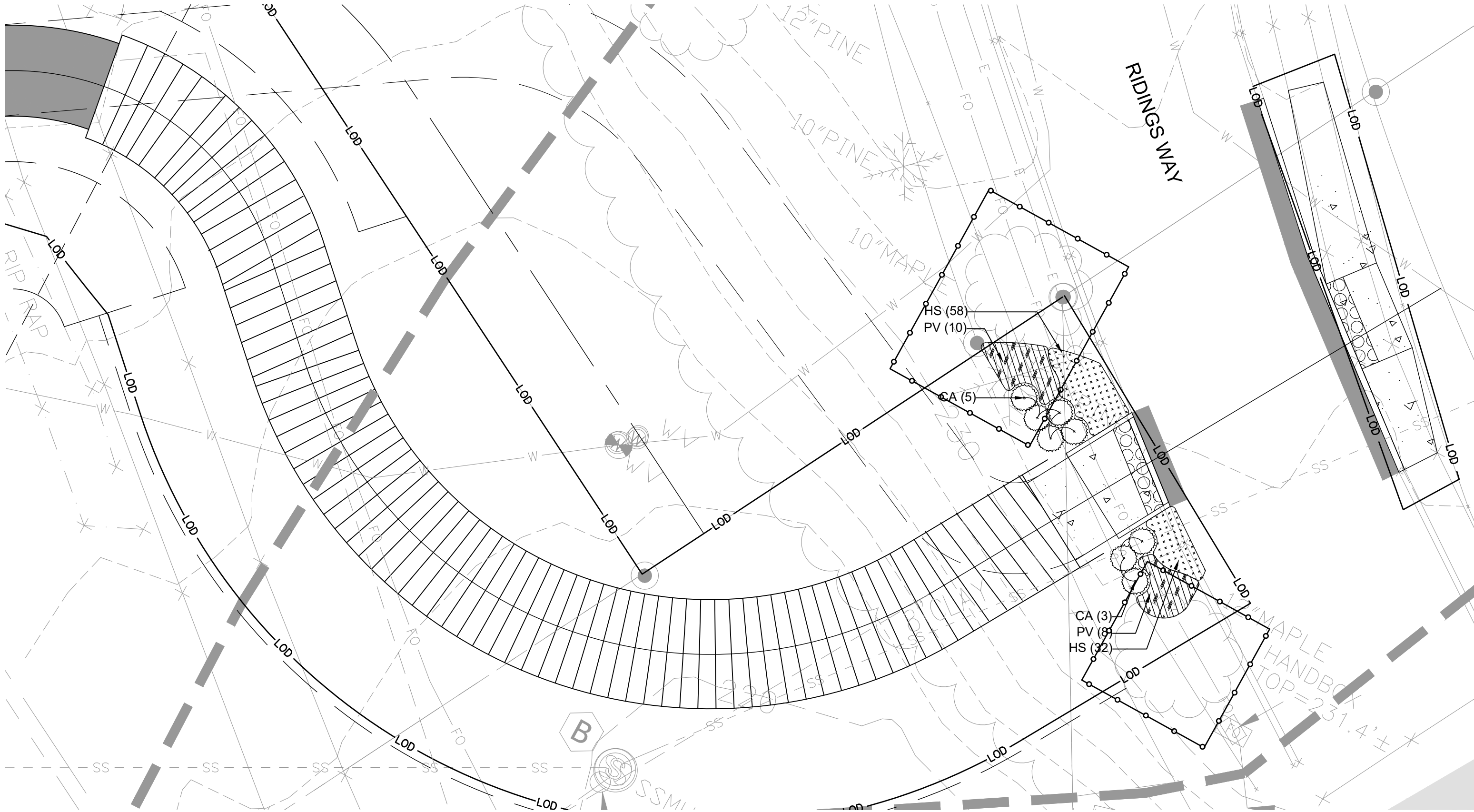
PLANT SCHEDULE					
BOTANICAL NAME	SYMBOL	COMMON NAME	QUANTITY	SIZE / TYPE	(O.C.) SPACING
CLETHRA ALNIFOLIA 'HUMMINGBIRD'	CA	SWEET PEPPERBUSH	20	3 GAL CONT.	3'-0"
HEMEROCALLIS 'STELLA DR ORO'	HS	DAYLILLY	139	1 GAL CONT.	1'-0"
MAGNOLIA VIRGINIANA	MV	SWEETBAY MAGNOLIA	3	B & B	10'-0"
PANICUM VIRGATUM 'CHEYENNE SKY'	PV	SWITCHGRASS	52	1 GAL CONT.	2'-0"

NOTES:

- FOR PLANTING INFORMATION, SEE DETAILS ON SHEET CXXX
- AT THE TIME OF PLANT INSTALLATION, ALL SHRUBS AND TREES LISTED AND APPROVED ON THE LANDSCAPE PLAN SHALL COMPLY WITH THE PROPER HEIGHT REQUIREMENTS IN ACCORDANCE WITH THE HOWARD COUNTY LANDSCAPE MANUAL. IN ADDITION, NO SUBSTITUTES OR RELOCATIONS OF THE REQUIRED PLANTINGS MAY BE MADE WITHOUT PRIOR REVIEW AND APPROVAL FROM THE DEPARTMENTS OF PLANNING AND ZONING. ANY DEVIATION FROM THE APPROVED LANDSCAPE PLAN MAY RESULT IN DENIAL OR DELAY IN THE RELEASE OF LANDSCAPE SURETY UNTIL SUCH TIME AS ALL REQUIRED MATERIALS ARE PLANTED AND/OR REVISIONS ARE MADE TO THE APPLICABLE PLANS.
- THE OWNER, TENANTS AND/OR THEIR AGENTS SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF THE REQUIRED LANDSCAPING, INCLUDING BOTH PLANT MATERIALS AND BERMS, FENCES AND WALLS. ALL PLANT MATERIALS SHALL BE MAINTAINED IN GOOD GROWING CONDITIONS, AND WHEN NECESSARY, REPLACED WITH NEW MATERIALS TO ENSURE CONTINUED COMPLIANCE WITH APPLICABLE REGULATIONS. ALL OTHER REQUIRED LANDSCAPING SHALL BE PERMANENTLY MAINTAINED IN GOOD CONDITION, AND WHEN NECESSARY, REPAIRED OR REPLACED.



ENTRANCE AT ROYAL PATH COVE



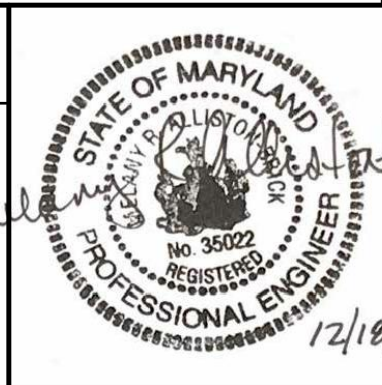
EXIT AT RIDINGS WAY



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APPROVED PLANNING BOARD OF HOWARD COUNTY	
Date: _____	_____
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING	
Director _____	Date _____
Chief, Division of Land Development _____	Date _____
Chief, Development Engineering Division _____	Date _____

PROFESSIONAL CERTIFICATION
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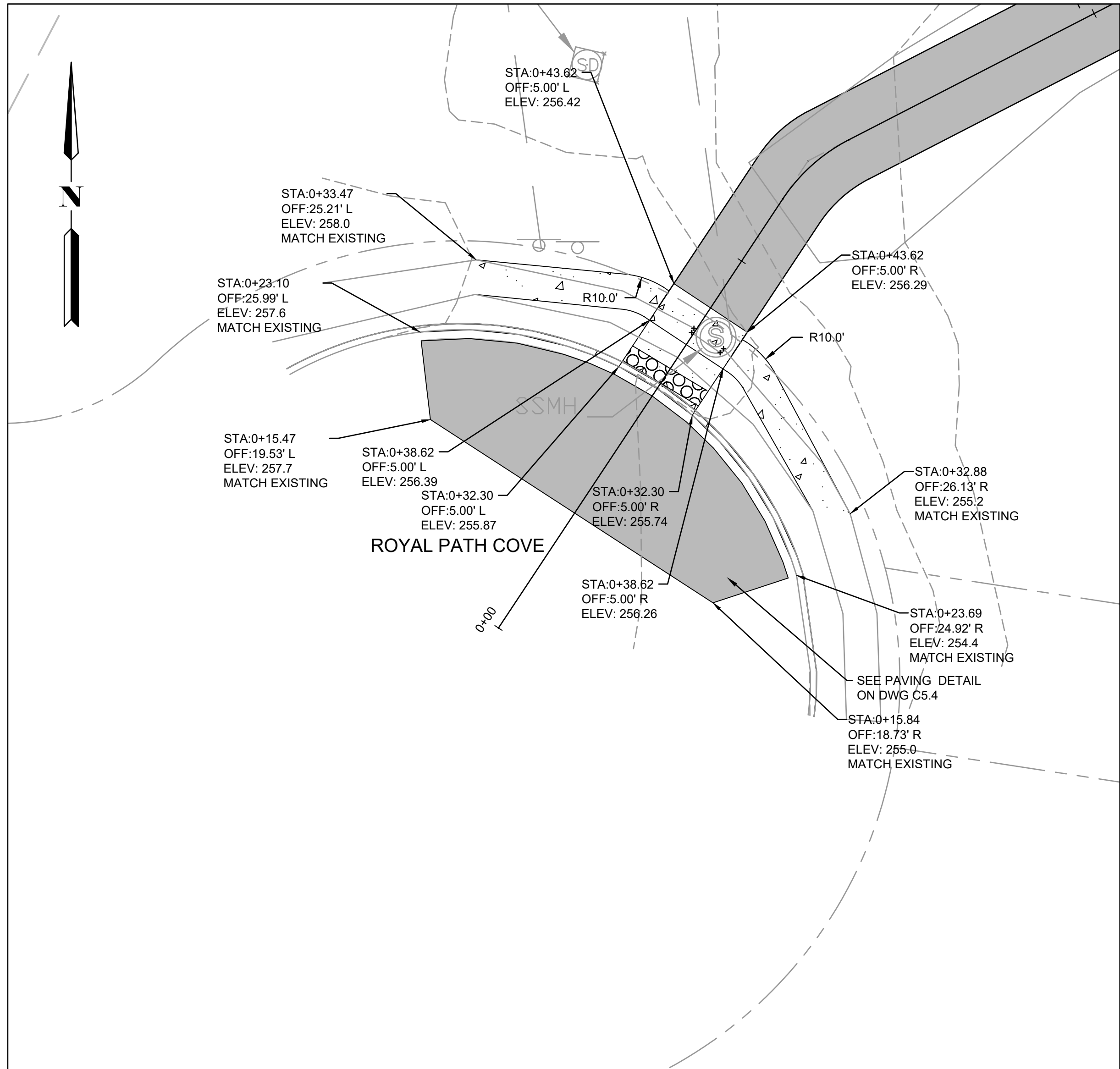
REUSE OF DOCUMENTS					
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DSGN	VLR				
DR	VLR				
CHK	AO				
APVD	MRAB	NO.	DATE	REVISION	BY APVD



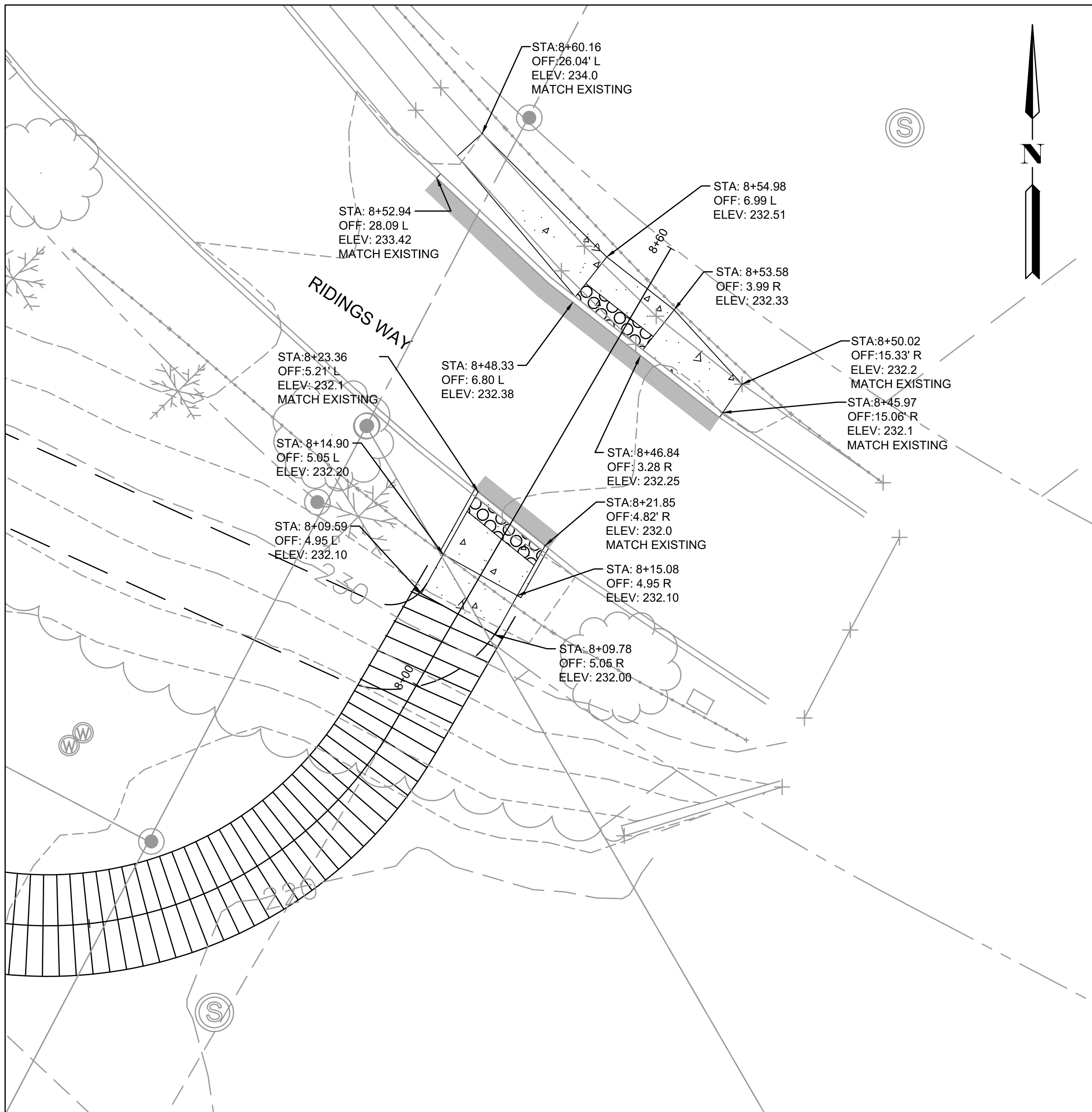
8484 GEORGIA AVENUE, SUITE 800
SILVER SPRING, MD 20910
PHONE: 301.927.1900
FAX: 301.927.2800
www.tooledesign.com

NORTH LAUREL CONNECTIONS
HOWARD COUNTY, MD

CIVIL	PROJECT NO.
BGE LANDSCAPING PLAN	5409.05
	DATE
	12-18-2020
DRAWING NO.	C2.6
SHEET NO.	12 of 34



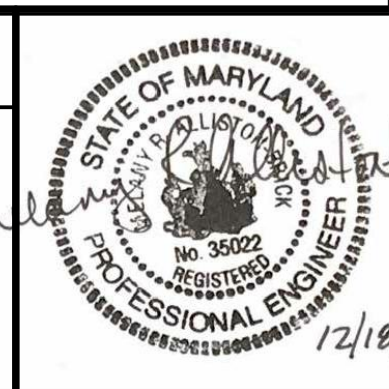
1 CURB RAMP DETAIL - ROYAL PATH COVE
1"=10'



2 CURB RAMP DETAIL - RIDINGS WAY
1"=10'

APPROVED PLANNING BOARD OF HOWARD COUNTY	
Date: _____	_____
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING	
Director _____	Date _____
Chief, Division of Land Development _____	Date _____
Chief, Development Engineering Division _____	Date _____

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF [STATE]. LICENSE NO. 35022 EXPIRATION DATE: 12/28/2021.



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ALL DRAWINGS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THIS PROJECT. REUSE OR ALTERATION IS AT THE USER'S SOLE RISK.									
DSGN	VLR								
DR	VLR								
CHK	AO								
APVD	MRAB	NO.	DATE	REVISION		BY	APVD		

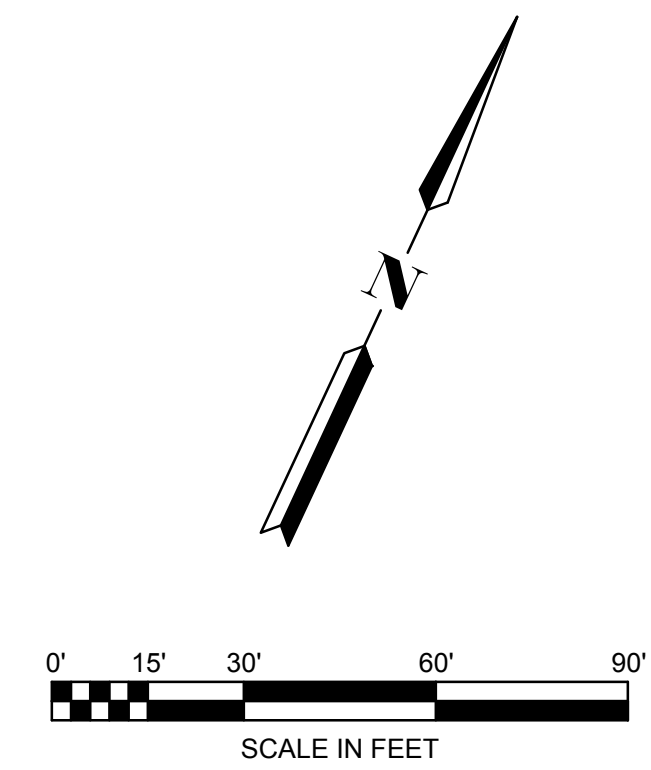
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DESIGN

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SILVER SPRING, MD 20910
PHONE: 301.927.1900
FAX: 301.927.2800
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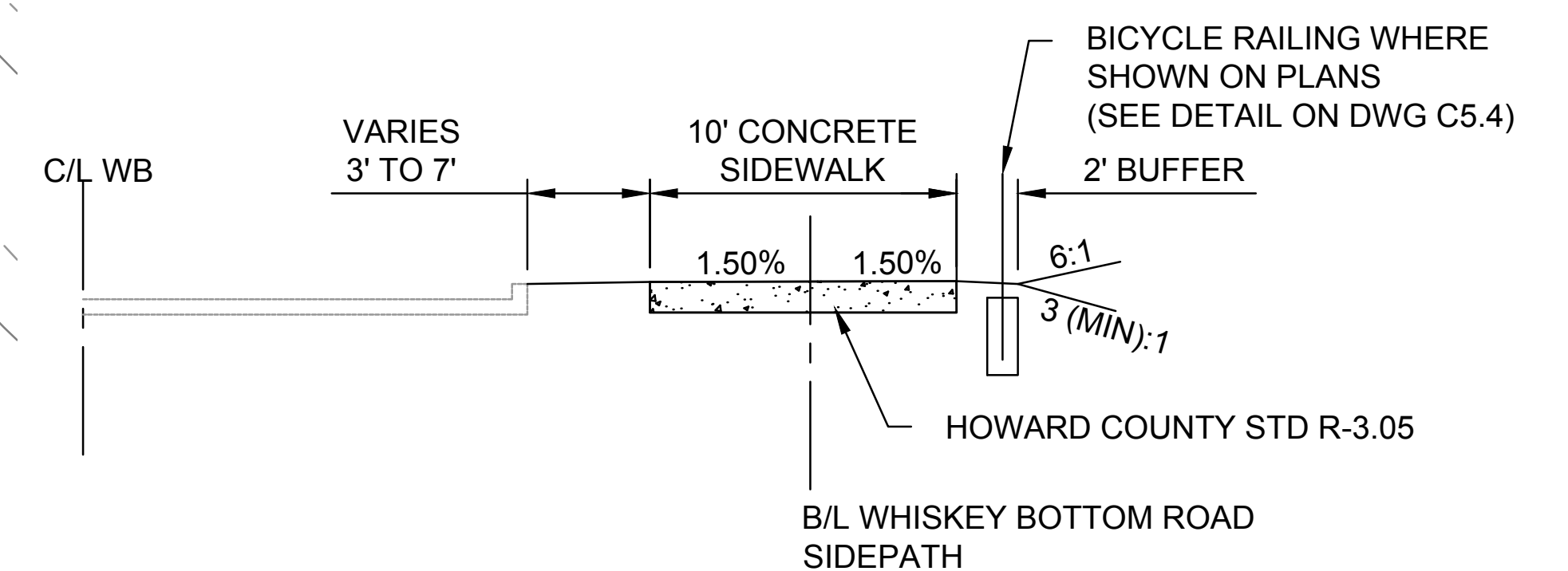
NORTH LAUREL CONNECTIONS
HOWARD COUNTY, MD

CIVIL	
BGE CURB RAMP DETAILS	

PROJECT NO.	5409.05
DATE	12-18-2020
DRAWING NO.	C2.7
SHEET NO.	13 of 34



GEOMETRIC LAYOUT TABLE					
NUMBER	LINE DATA	TANGENT/CURVE DATA	STATIONS	NORTHING	EASTING
L1	L= 74.441 BEARING= S62° 44' 05"E	-	STA: 0+50.00 STA: 1+24.44	N 529583.6930 E 1358249.5906	E 1358160.1815 E 1358226.3521
C1	-	R=100.00 D=003.87 L=6.76' T=3.38'	PC STA: 1+24.44 PT STA: 1+31.20	N 529549.5906 E 1358246.2955	E 1358226.3521 E 1358232.2477
L2	L= 35.723 BEARING= S58° 51' 51"E	-	STA: 1+31.20 STA: 1+66.92	N 529546.2955 E 1358257.8245	E 1358232.2477 E 1358262.8243
C2	-	R=100.00 D=007.87 L=13.73' T=6.88'	PC STA: 1+66.92 PT STA: 1+80.65	N 529527.8245 E 1358259.9409	E 1358262.8243 E 1358274.0543
L3	L= 6.581 BEARING= S50° 59' 48"E	-	STA: 1+80.65 STA: 1+87.23	N 529519.9409 E 1358251.7992	E 1358274.0543 E 1358279.1683
C3	-	R=100.00 D=018.20 L=31.76' T=16.02'	PC STA: 1+87.23 PT STA: 2+18.99	N 529515.7992 E 1358250.0305	E 1358279.1683 E 1358306.5863
L4	L= 54.524 BEARING= S69° 11' 43"E	-	STA: 2+18.99 STA: 2+73.52	N 529500.0305 E 1358240.6643	E 1358306.5863 E 1358357.5551
C4	-	R=100.00 D=006.19 L=10.81' T=5.41'	PC STA: 2+73.52 PT STA: 2+84.33	N 529480.6643 E 13582476.2873	E 1358357.5551 E 1358367.4318
L5	L= 21.627 BEARING= S63° 00' 09"E	-	STA: 2+84.33 STA: 3+05.95	N 529476.2873 E 1358466.4699	E 1358367.4318 E 1358386.7017
C5	-	R=100.00 D=006.19 L=10.81' T=5.41'	PC STA: 3+05.95 PT STA: 3+16.76	N 529466.4699 E 1358462.0929	E 1358386.7017 E 1358396.5783
L6	L= 128.242 BEARING= S69° 11' 43"E	-	STA: 3+16.76 STA: 4+45.00	N 529462.0929 E 1358462.0929	E 1358396.5783 E 1358516.4583



WHISKEY BOTTOM ROAD SIDEWALK TYPICAL SECTION

SCALE: 1" = 5'

APPROVED
PLANNING BOARD OF HOWARD COUNTY


Date: _____

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

Director _____ Date _____

Chief, Division of Land Development _____ Date _____

Chief, Development Engineering Division _____ Date _____

<p>PROFESSIONAL CERTIFICATION</p> <p>I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF [STATE].</p> <p>LICENSE NO. 35022, EXPIRATION DATE: 12/28/2021.</p>	<p><i>Handwritten:</i> nls</p> 
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ALL DRAWINGS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THIS PROJECT. REUSE OR ALTERATION IS AT THE USER'S SOLE RISK.									
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DR	VLR								
CHK	AO								
APVD	MRAB	NO.	DATE	REVISION				BY	APVD

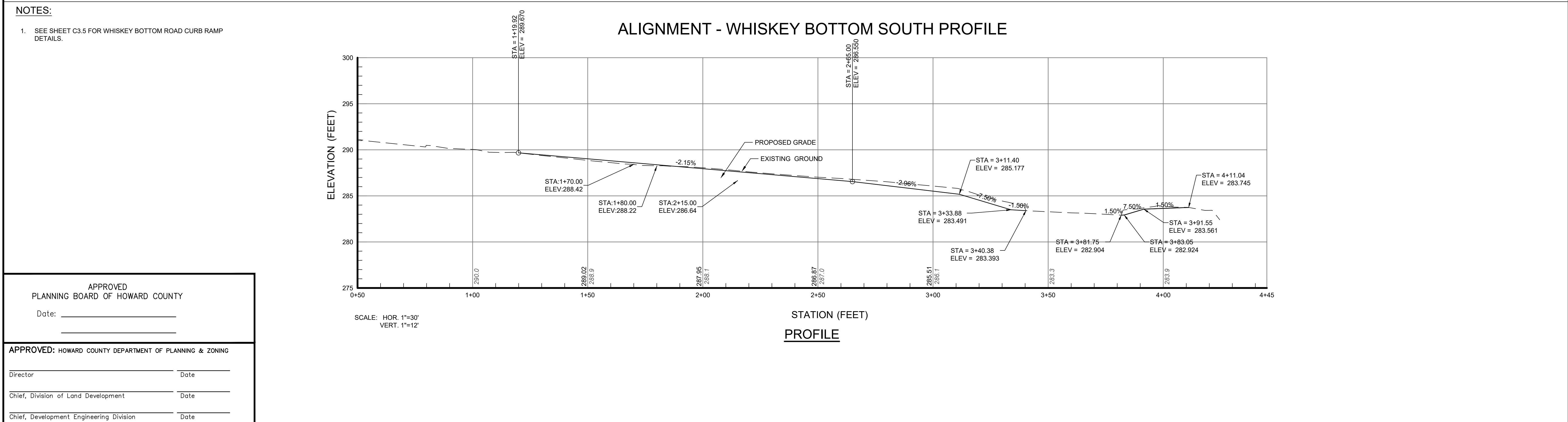
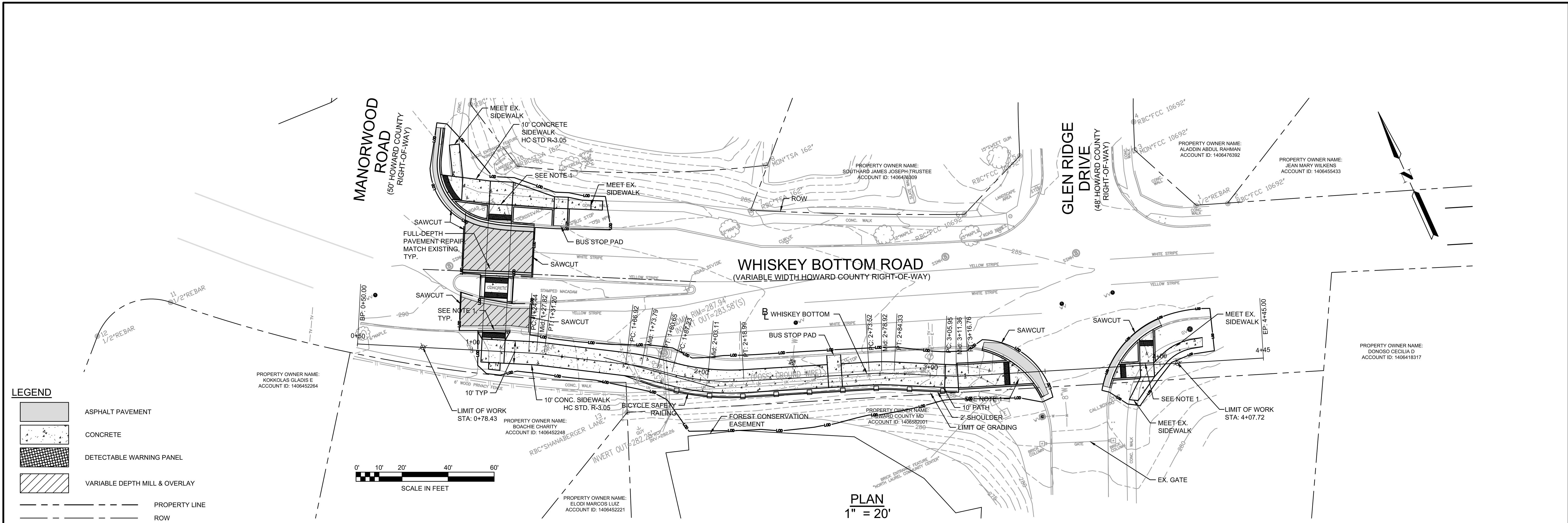
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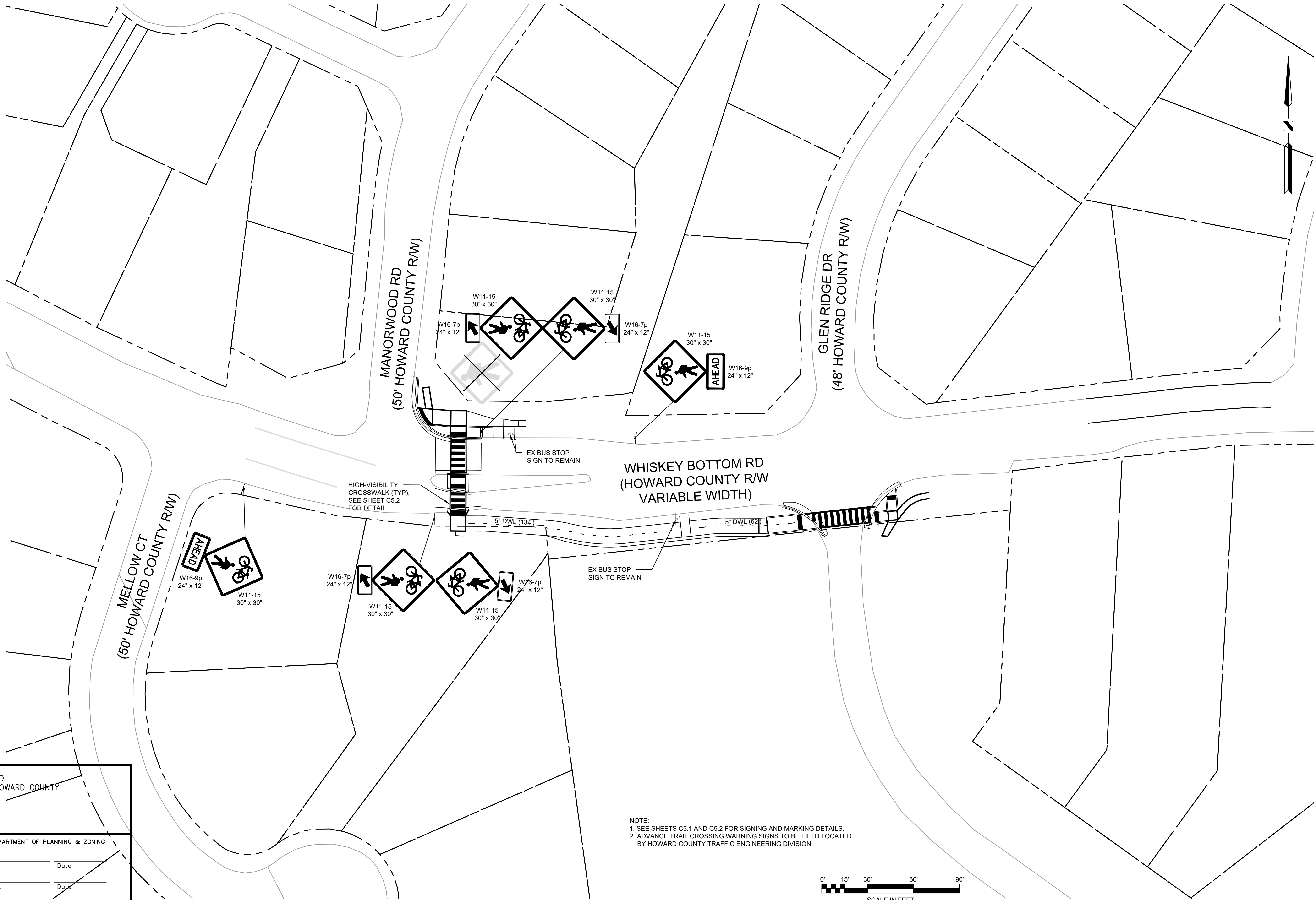
NORTH LAUREL CONNECTIONS

HOWARD COUNTY, MD

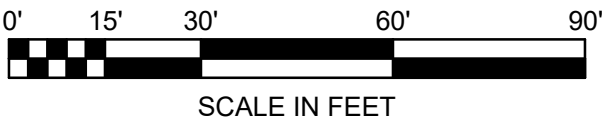
<div style="text-align: center;"> <p>CIVIL</p> <p>WHISKEY BOTTOM GEOMETRIC LAYOUT PLAN AND TYPICAL SECTION</p> </div>	PROJECT NO.	5409.05
	DATE	12-18-2020
	DRAWING NO.	C3.1
	SHEET NO.	14 of 34



PROFESSIONAL CERTIFICATION			REUSE OF DOCUMENTS						<div><div>TOOLE DESIGN</div><div>8484 GEORGIA AVENUE, SUITE 800 SILVER SPRING, MD 20910 PHONE: 301.927.1900 FAX: 301.927.2800 www.tooledesign.com</div></div>	NORTH LAUREL CONNECTIONS HOWARD COUNTY, MD		CIVIL		PROJECT NO.																				
ALL DRAWINGS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THIS PROJECT. REUSE OR ALTERATION IS AT THE USER'S SOLE RISK.						DATE																												
<table><tr><td>DSGN</td><td>AO</td><td></td><td></td><td></td><td></td></tr><tr><td>DR</td><td>CK</td><td></td><td></td><td></td><td></td></tr><tr><td>CHK</td><td>MRAB</td><td></td><td></td><td></td><td></td></tr><tr><td>APVD</td><td>MRAB</td><td>NO.</td><td>DATE</td><td>REVISION</td><td>BY APVD</td></tr></table>						DSGN	AO								DR	CK					CHK	MRAB					APVD	MRAB	NO.	DATE	REVISION	BY APVD	DRAWING NO.	
						DSGN	AO																											
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APVD	MRAB	NO.	DATE	REVISION	BY APVD																													
						SHEET NO.																												
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												12-18-2020																						
												C3.2																						
												15 of 34																						



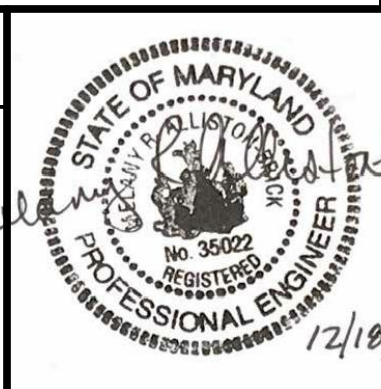
NOTE:
1. SEE SHEETS C5.1 AND C5.2 FOR SIGNING AND MARKING DETAILS.
2. ADVANCE TRAIL CROSSING WARNING SIGNS TO BE FIELD LOCATED BY HOWARD COUNTY TRAFFIC ENGINEERING DIVISION.



APPROVED
PLANNING BOARD OF HOWARD COUNTY
Date: _____

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
Director _____ Date _____
Chief, Division of Land Development _____ Date _____
Chief, Development Engineering Division _____ Date _____

PROFESSIONAL CERTIFICATION
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DSGN	VLR								
DR	VLR								
CHK	AO								
APVD	MRAB	NO.	DATE	REVISION			BY	APVD	

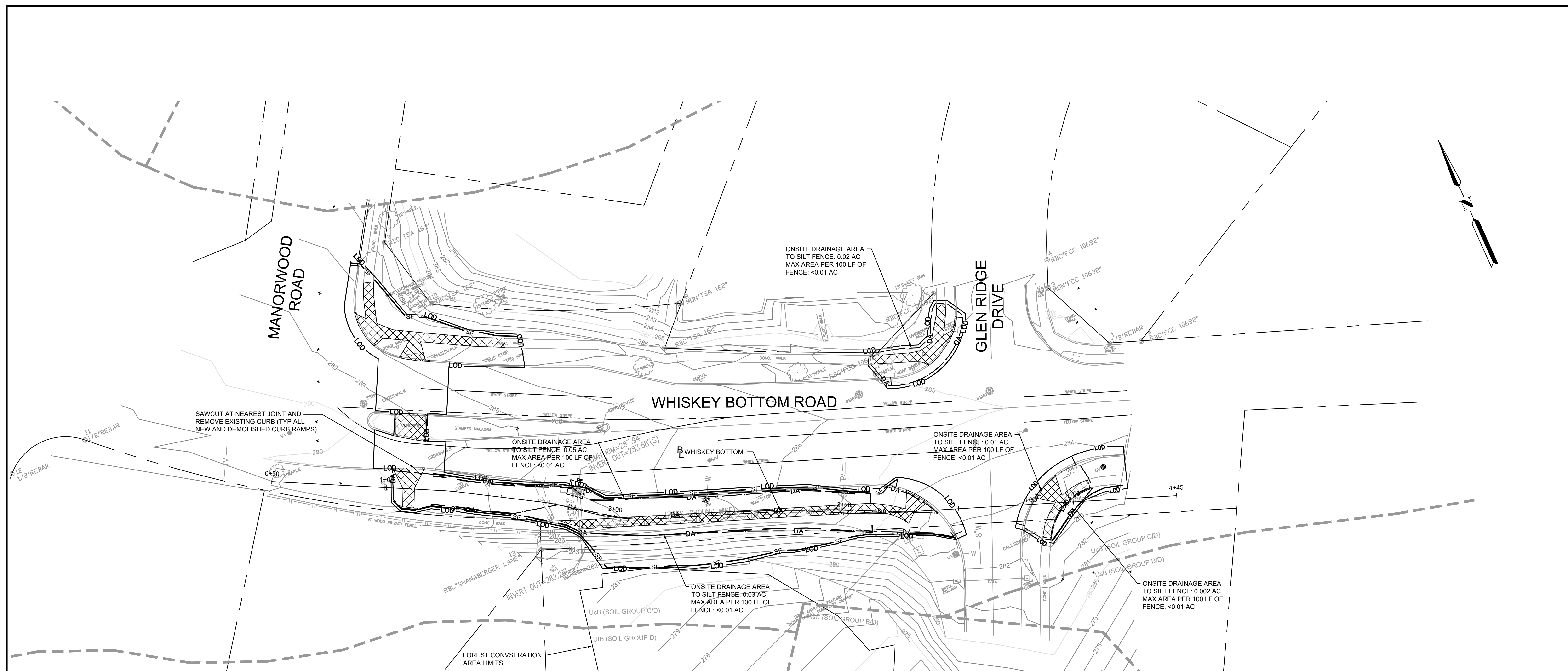
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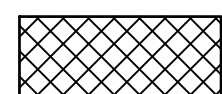
NORTH LAUREL CONNECTIONS
HOWARD COUNTY, MD

CIVIL
WHISKEY BOTTOM SIGNING AND MARKING

PROJECT NO.	5409.05
DATE	12-18-2020
DRAWING NO.	C3.3
SHEET NO.	16 of 34



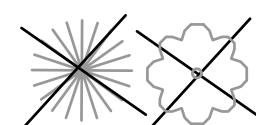
LEGEND



EXISTING CONCRETE REMOVAL



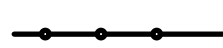
PROPOSED STABILIZED
CONSTRUCTION ENTRANCE



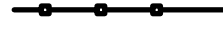
TREE REMOVAL



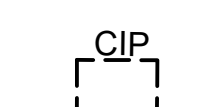
LIMIT OF DISTURBANCE



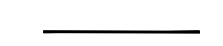
TREE PROTECTION (HC STD L9.02)



CONSTRUCTION STAGE



CURB INLET PROTECTION



SAWCUT

_____DF_____ DIVERSION FENCE
 PLANNING BOARD OF HOWARD COUNTY
 _____DA_____ DRAINAGE AREA TO E&S MEASURE
 Date: _____
 _____SF_____ SILT FENCE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

Director	Date
Chief, Division of Land Development	Date
Chief, Development Engineering Division	Date

ENGINEER'S CERTIFICATION

"I HEREBY CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."

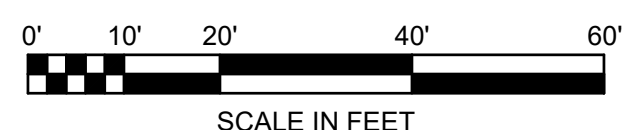
DEVELOPER'S/BUILDER'S CERTIFICATE

"I / WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT FOR SEDIMENT AND EROSION, CONTROL, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."

NOTES:

1. SEE SHEETS C1.3 & C1.4 FOR EROSION AND SEDIMENT CONTROL NOTES.
2. SEE SHEET C5.3 FOR EROSION AND SEDIMENT CONTROL DETAILS.
3. PRIOR TO DEMOLITION OF EACH SEGMENT OF THE EXISTING SIDEWALK, CONTRACTOR SHALL PROVIDE AN ADA-COMPLIANT DETOUR ROUTE FOR PEDESTRIANS AND CYCLISTS AROUND CLOSED SECTIONS OF THE SIDEWALK. PROVIDE BARRICADES AND DETOUR SIGNAGE PER MDMUTCD AT EACH CLOSURE.
4. DRAINAGE AREAS WILL NOT BE IMPACTED AS PART OF THIS PROJECT AND NET IMPERVIOUS CHANGE IS LESS THAN 5,000 SF. NO DRAINAGE DESIGN IS REQUIRED.
5. DUE TO CONSTRAINED LIMITS OF DISTURBANCE NO CONSTRUCTION ENTRANCE PROVIDED.

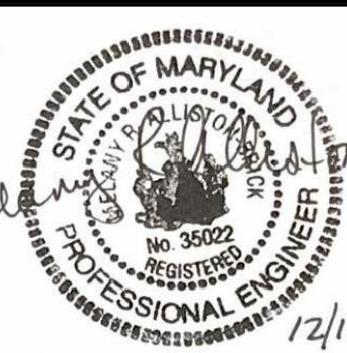
SOIL LEGEND		
SOIL TYPE	SOIL DESCRIPTION	SOILS GROUP
UcB	Urban land-Chillum-Beltsville complex, 0 to 5 percent slopes	C



SCALE IN FEET

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE PLANS
WERE PREPARED OR APPROVED BY
ME, AND THAT I AM A DULY LICENSED
PROFESSIONAL ENGINEER UNDER THE
LAWS OF THE STATE OF [STATE],
LICENSE NO. 35022,
EXPIRATION DATE: 12/28/2021.



REUSE OF DOCUMENTS
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REUSE OR ALTERATION IS AT THE USER'S SOLE RISK.

DSGN	AO					
DR	CK					
CHK	XXXX					
APVD	MRAB	NO.	DATE	REVISION	BY	APVD

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DESIGN

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NORTH LAUREL CONNECTIONS
HOWARD COUNTY, MD

CIVIL

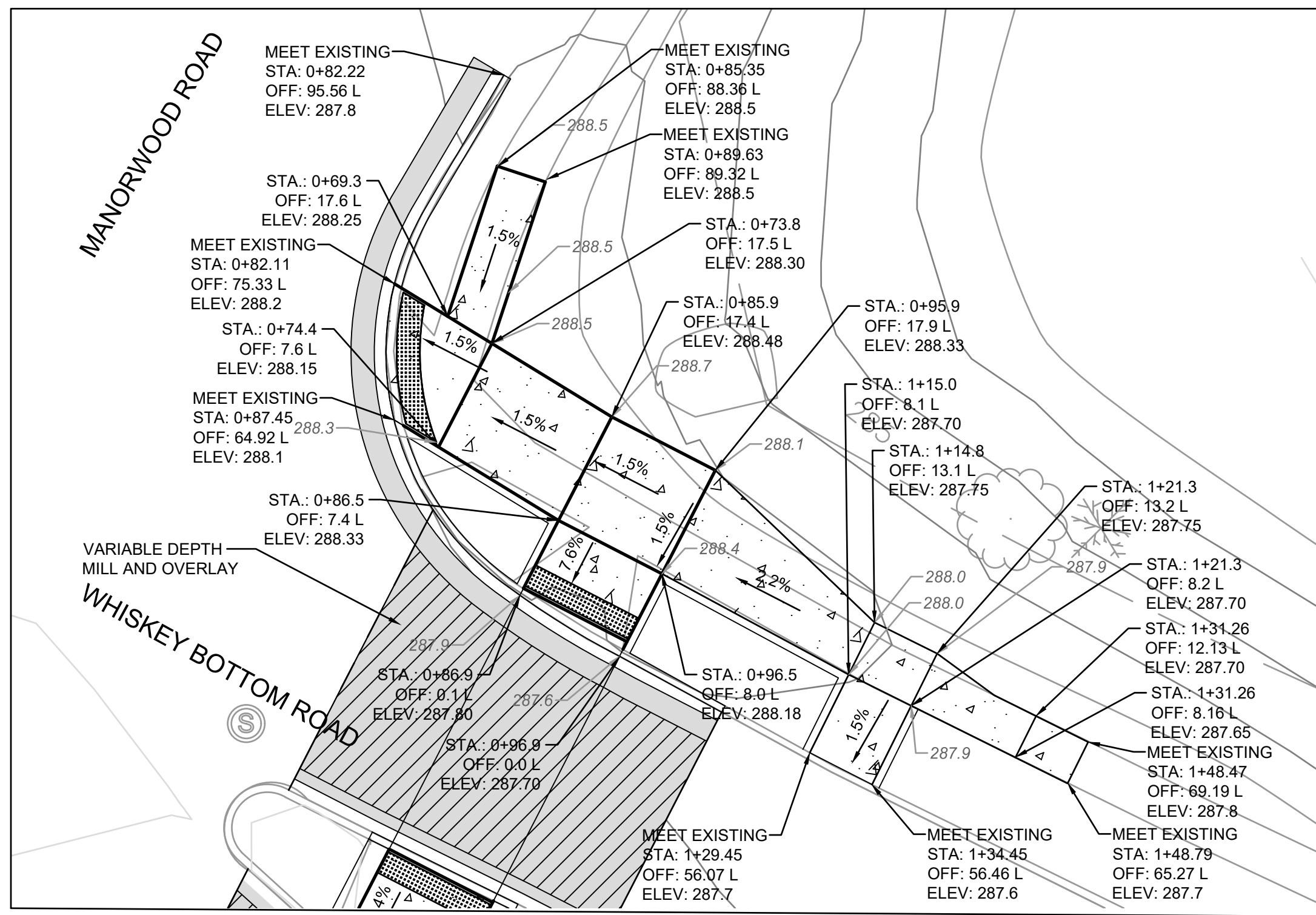
WHISKEY BOTTOM ROAD EROSION AND SEDIMENT CONTROL PLAN

PROJECT NO.	5409.05
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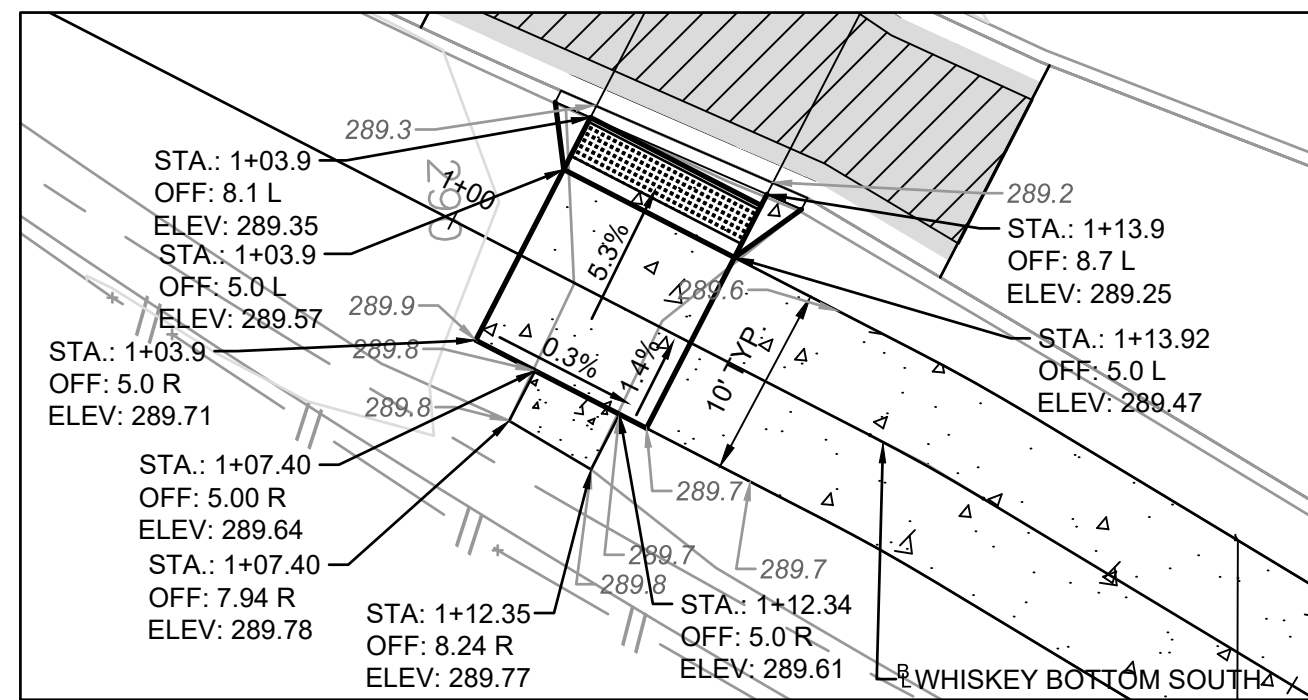
DATE	12-18-2020
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DRAWING NO. C3.4

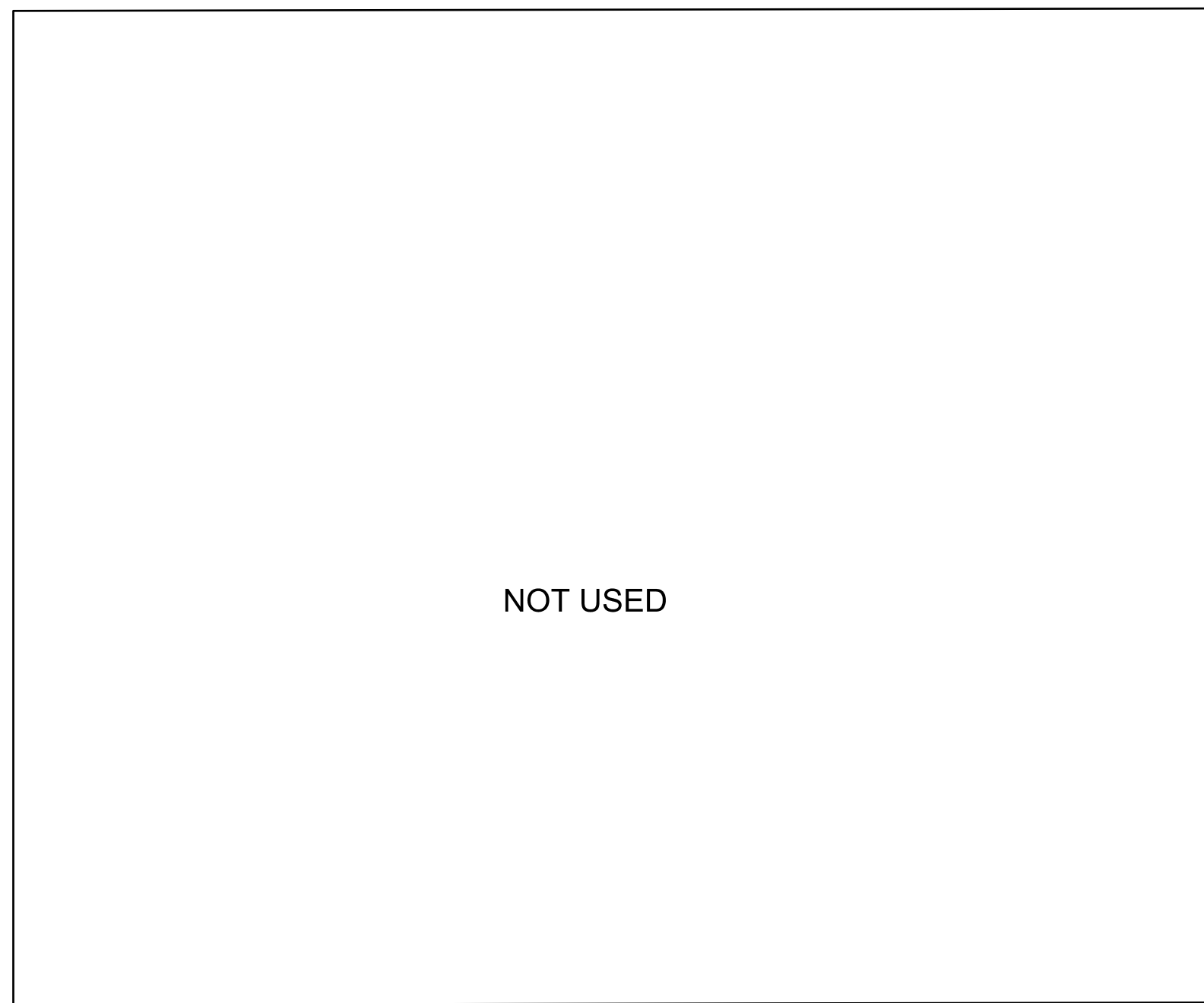
17 of 34



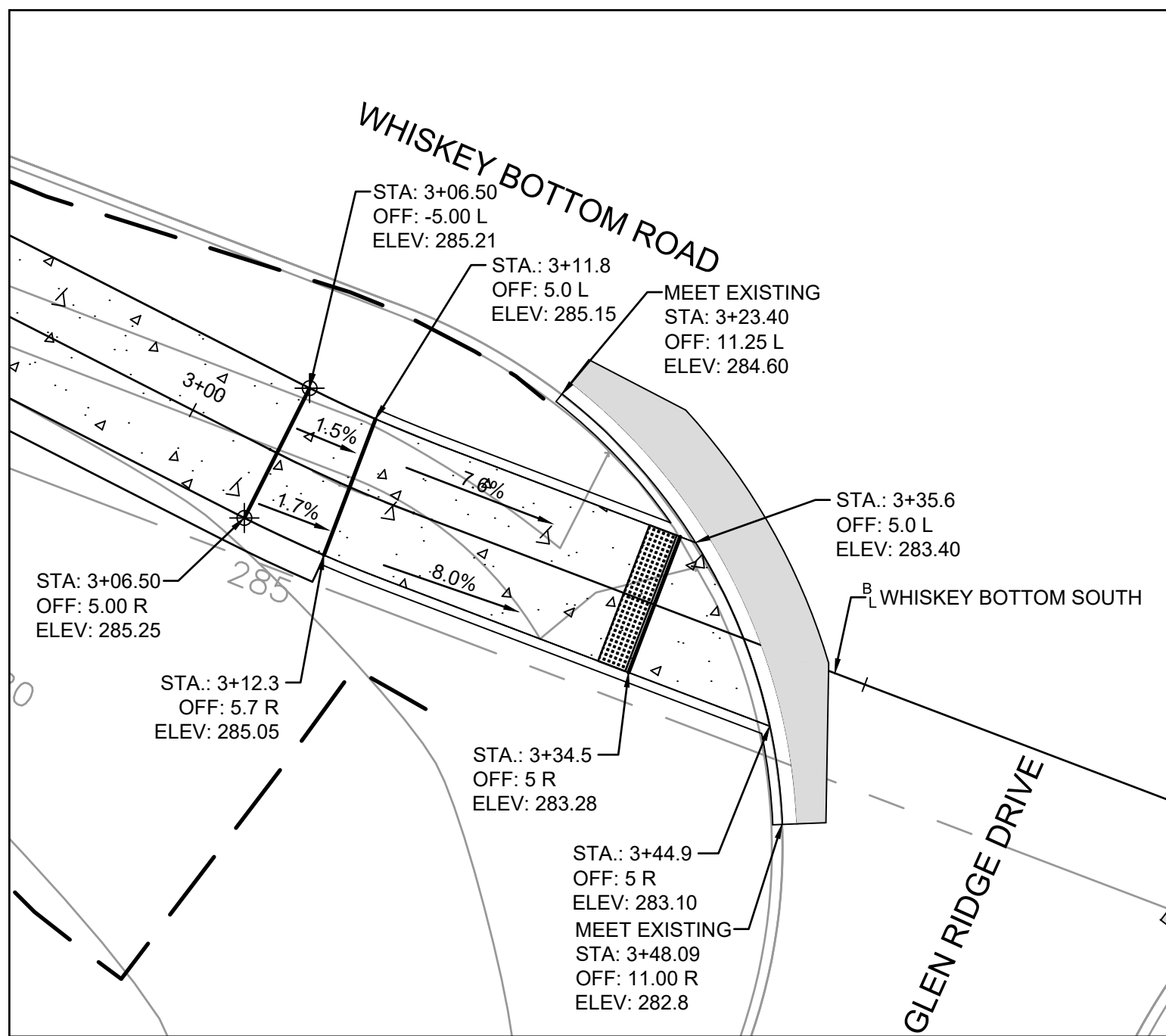
1 CURB RAMP DETAIL - WHISKEY BOTTOM ROAD AND MANORWOOD ROAD, NORTH RAMP



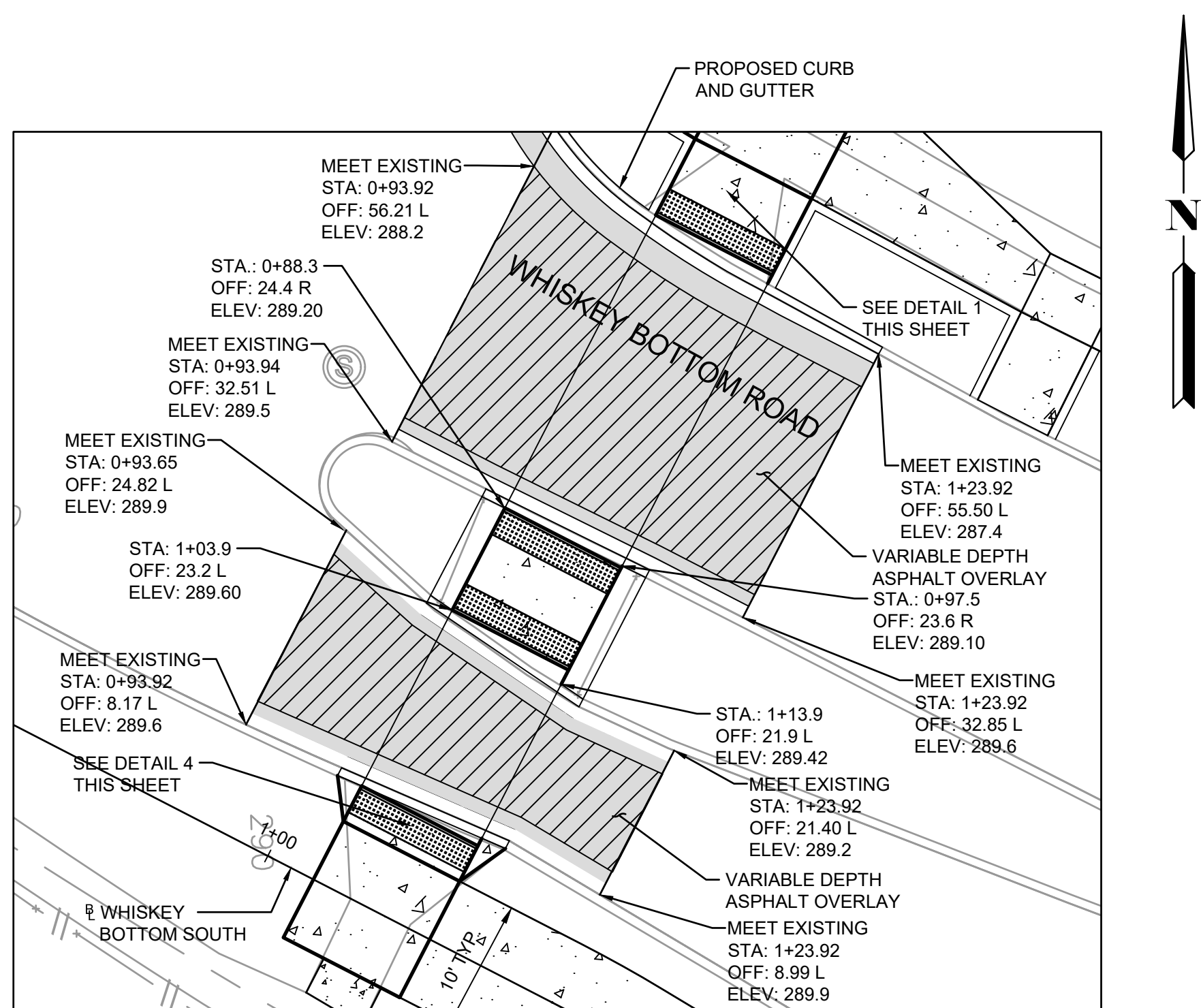
4 CURB RAMP DETAIL - WHISKEY BOTTOM ROAD AND MANORWOOD ROAD, SOUTH RAMP



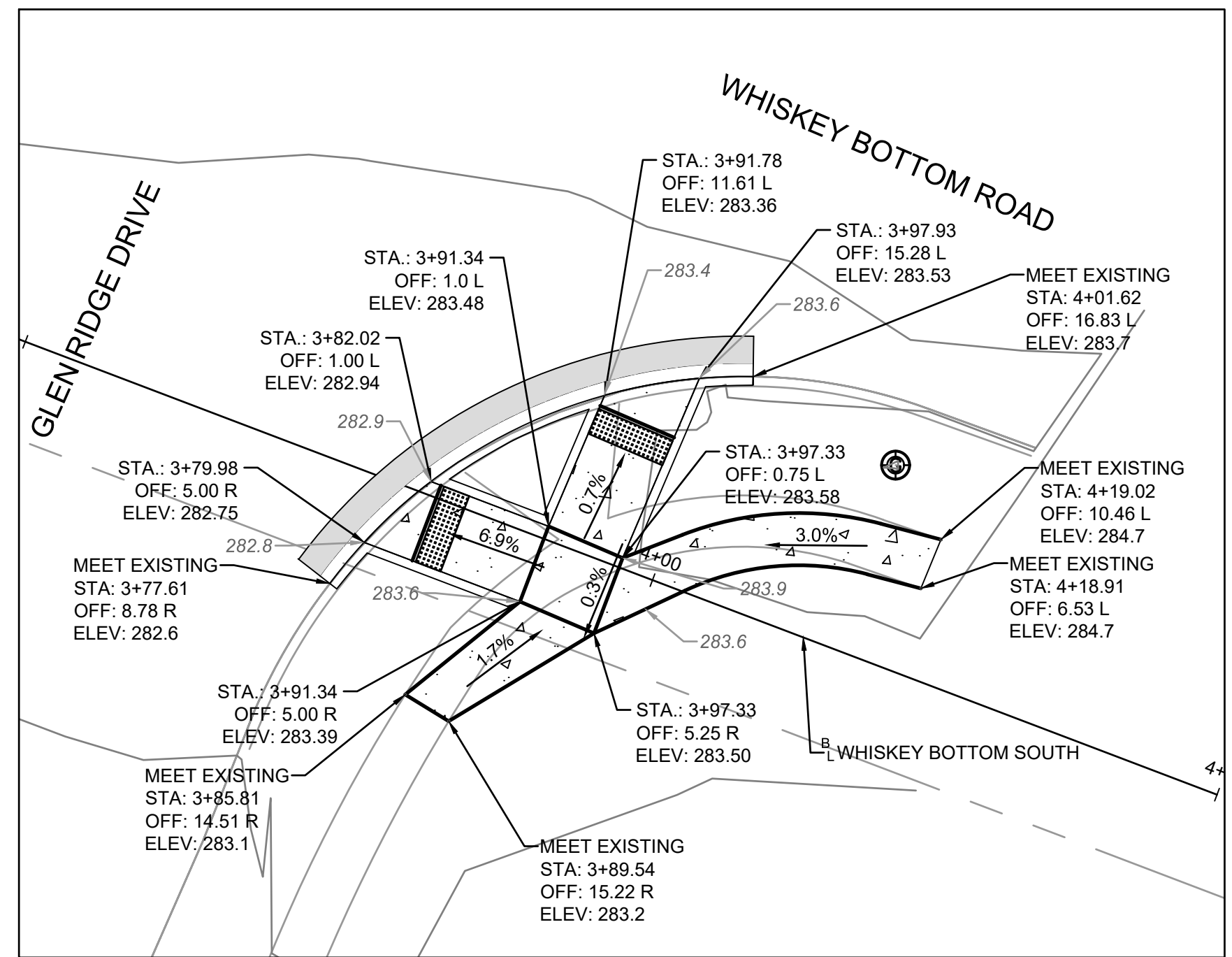
2 CURB RAMP DETAIL - WHISKEY BOTTOM ROAD AND GLEN RIDGE DRIVE, NW CORNER



5 CURB RAMP DETAIL - WHISKEY BOTTOM ROAD AND GLEN RIDGE DRIVE, SW CORNER



3 CURB RAMP DETAIL - WHISKEY BOTTOM ROAD CROSSING AT MANORWOOD ROAD

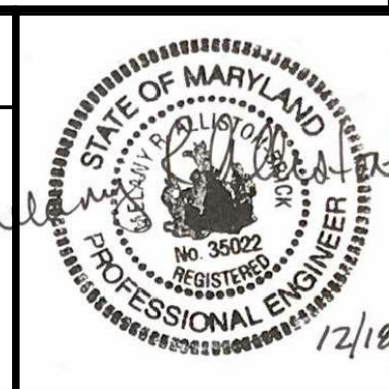


6 CURB RAMP DETAIL - WHISKEY BOTTOM ROAD AND GLEN RIDGE DRIVE, SE CORNER

APPROVED PLANNING BOARD OF HOWARD COUNTY	
Date: _____	_____
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING	
Director _____	Date _____
Chief, Division of Land Development _____	Date _____
Chief, Development Engineering Division _____	Date _____

PROFESSIONAL CERTIFICATION

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LICENSE NO. 35022
EXPIRATION DATE: 12/28/2021.



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DSGN	AO				
DR	CK				
CHK	MRAB				
APVD	MRAB	NO.	DATE	REVISION	BY

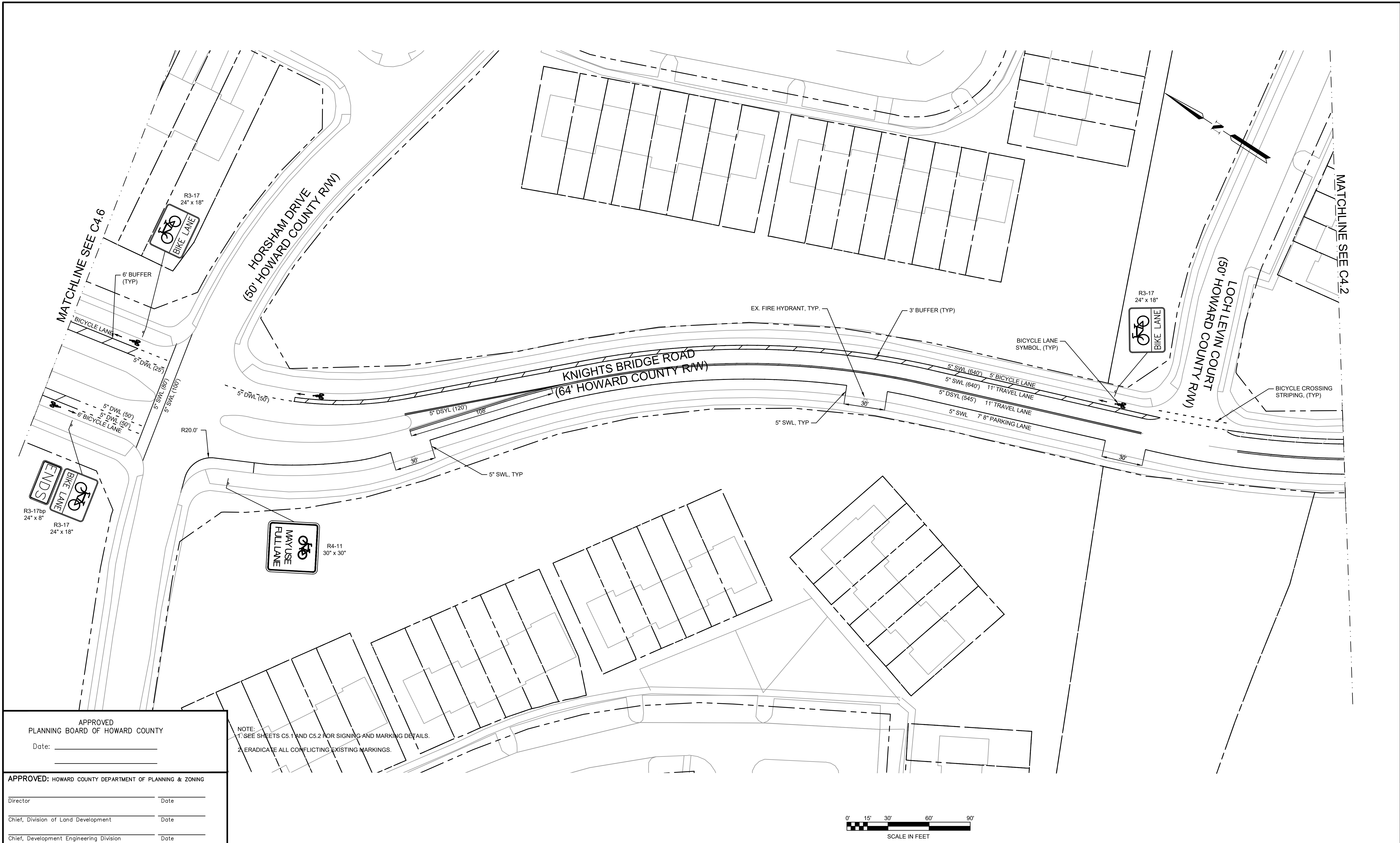
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NORTH LAUREL CONNECTIONS
HOWARD COUNTY, MD

CIVIL	
WHISKEY BOTTOM CURB RAMP DETAILS	

PROJECT NO.	5409.05
DATE	12-18-2020
DRAWING NO.	C3.5
SHEET NO.	18 of 34



APPROVED
PLANNING BOARD OF HOWARD COUNTY

Date: _____

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

Director _____ Date _____

Chief, Division of Land Development _____ Date _____

Chief, Development Engineering Division _____ Date _____

NOTE:
1. SEE SHEETS C5.1 AND C5.2 FOR SIGNING AND MARKING DETAILS.
2. ERADICATE ALL CONFLICTING EXISTING MARKINGS.

REUSE OF DOCUMENTS					
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DR	CK				
CHK	MRAB				
APVD	MRAB	NO.	DATE	REVISION	BY APVD

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NORTH LAUREL CONNECTIONS

HOWARD COUNTY, MD

CIVIL

FUTURE SIGNING AND MARKING
PLAN KNIGHTS BRIDGE - 1

PROJECT NO.

5409.05

DATE

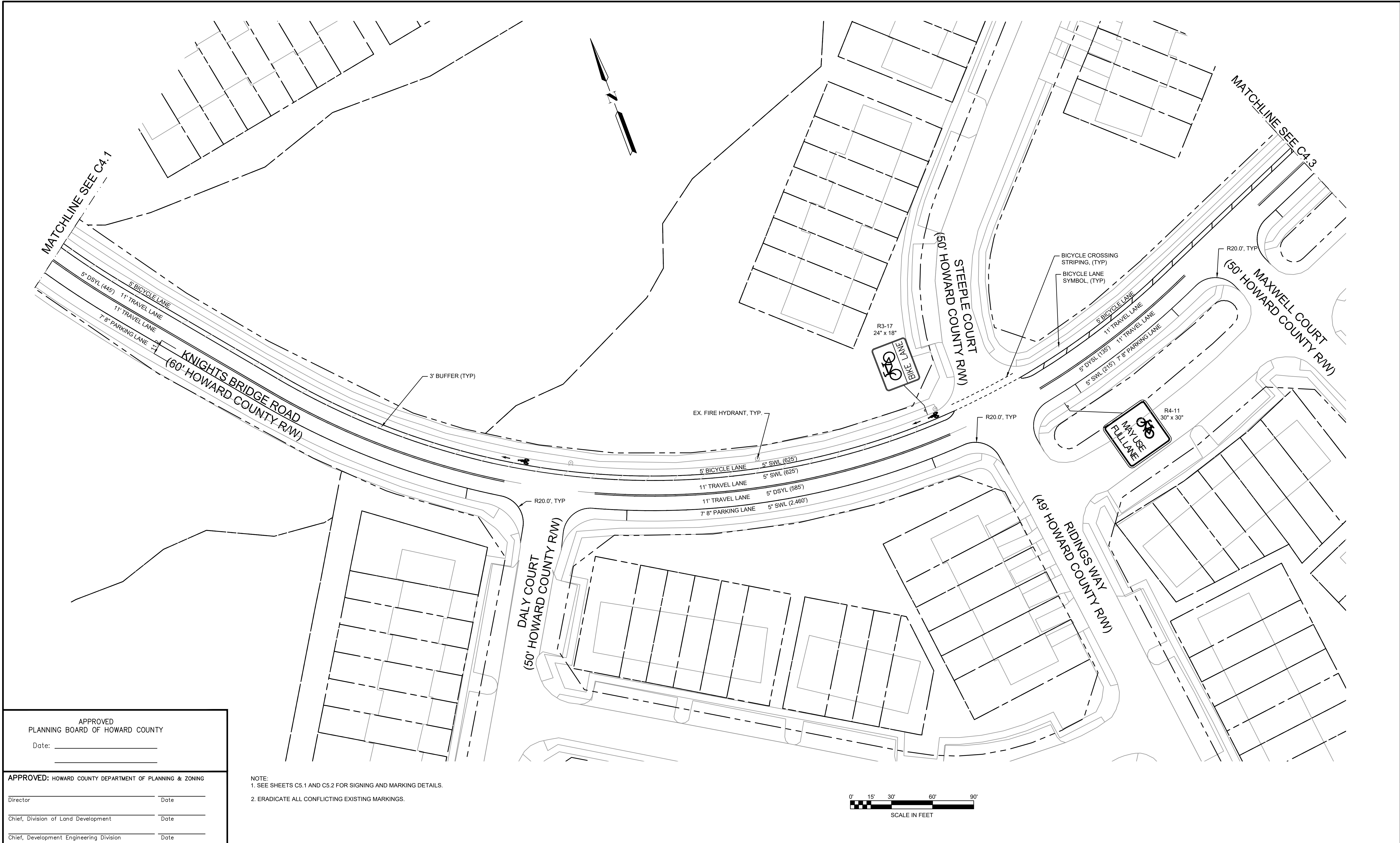
12-18-2020

DRAWING NO.

C4.1

SHEET NO.

19 of 34



APPROVED
PLANNING BOARD OF HOWARD COUNTY

Date: _____

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

Director _____ Date _____

Chief, Division of Land Development _____ Date _____

Chief, Development Engineering Division _____ Date _____

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DR	CK				
CHK	MRAB				
APVD	MRAB	NO.	DATE	REVISION	BY APVD

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NORTH LAUREL CONNECTIONS
HOWARD COUNTY, MD

CIVIL

FUTURE SIGNING AND MARKING
PLAN KNIGHTS BRIDGE - 2

PROJECT NO.	5409.05
DATE	12-18-2020
DRAWING NO.	C4.2
SHEET NO.	20 of 34



APPROVED
PLANNING BOARD OF HOWARD COUNTY

Date: _____

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

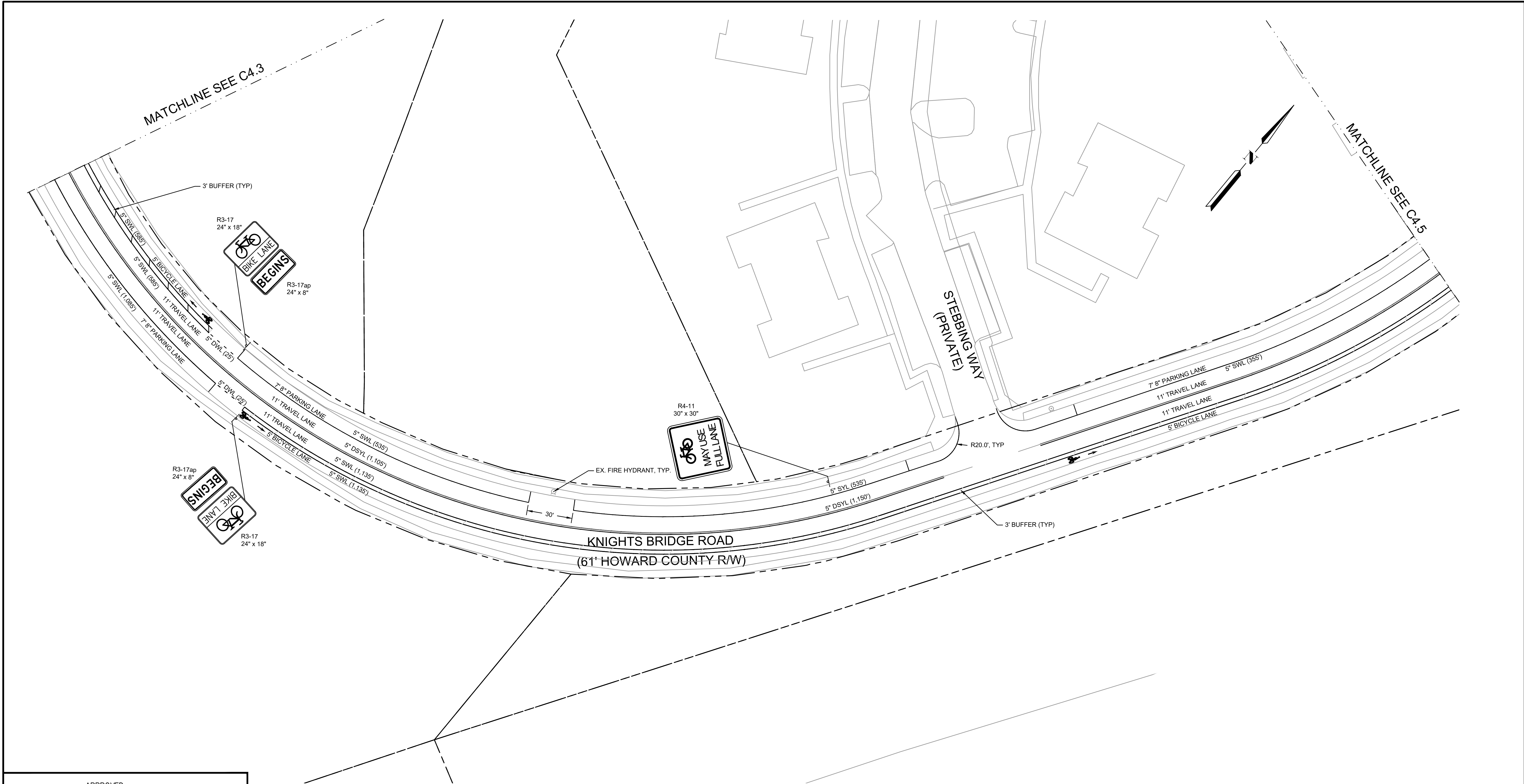
Director _____ Date _____

Chief, Division of Land Development _____ Date _____

Chief, Development Engineering Division _____ Date _____

NOTE:
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		DSGN	VLR					DATE 12-18-2020		
		DR	VLR					DRAWING NO. C4.3		
		CHK	AO					SHEET NO. 21 of 34		
		APVD	MRAB	NO.	DATE	REVISION	BY	APVD		

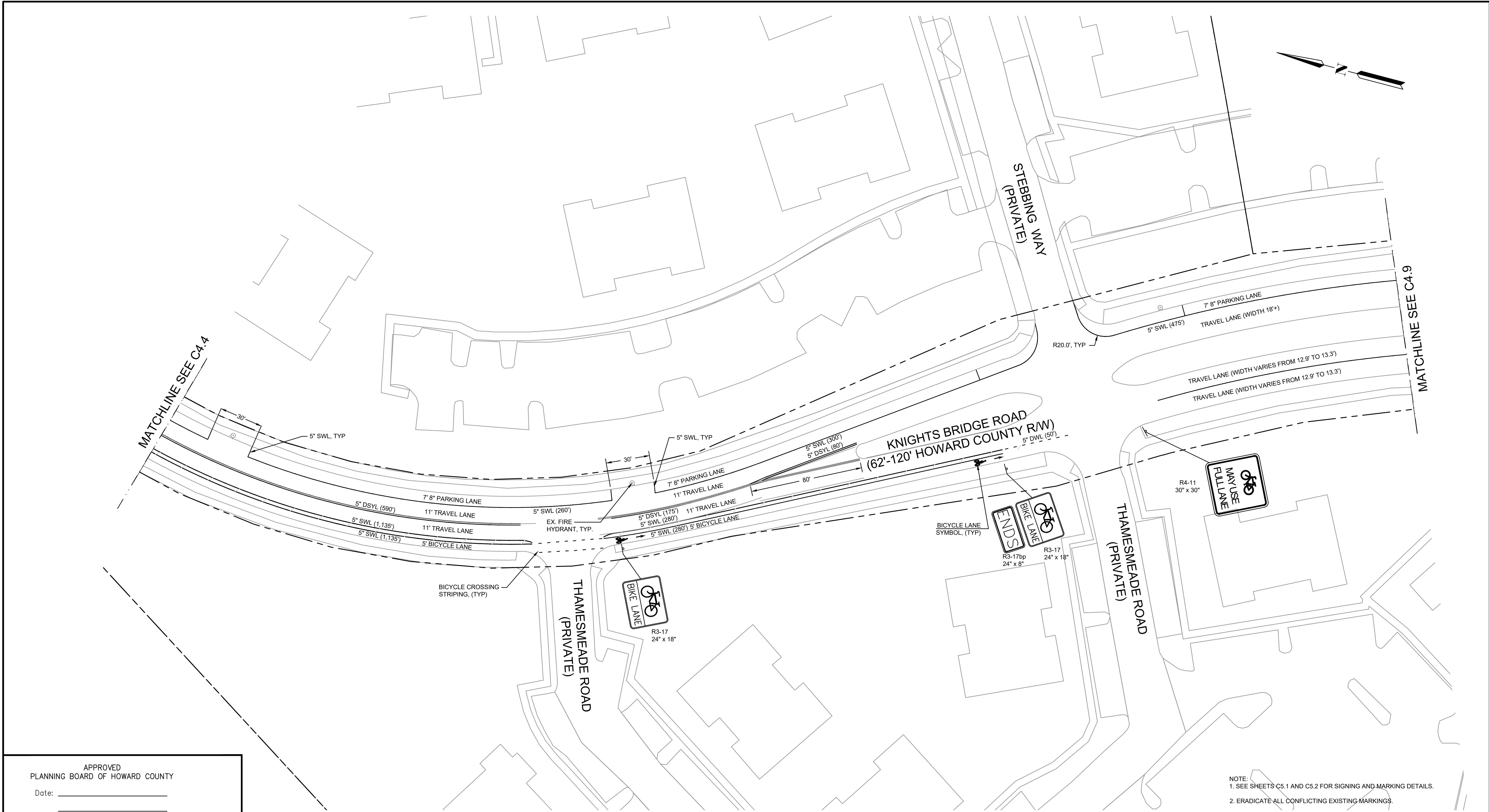


APPROVED PLANNING BOARD OF HOWARD COUNTY	
Date: _____	_____
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING	
Director _____	Date _____
Chief, Division of Land Development _____	Date _____
Chief, Development Engineering Division _____	Date _____

NOTE:
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2. ERADICATE ALL CONFLICTING EXISTING MARKINGS.



PROFESSIONAL CERTIFICATION		REUSE OF DOCUMENTS										 <div>8484 GEORGIA AVENUE, SUITE 800 SILVER SPRING, MD 20910 PHONE: 301.927.1900 FAX: 301.927.2800 www.tooledesign.com</div>	NORTH LAUREL CONNECTIONS HOWARD COUNTY, MD		CIVIL		PROJECT NO.	5409.05
ALL DRAWINGS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THIS PROJECT. REUSE OR ALTERATION IS AT THE USER'S SOLE RISK.										FUTURE SIGNING AND MARKING PLAN KNIGHTS BRIDGE - 4					DATE	12-18-2020		
I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF [STATE]. LICENSE NO. 35022. EXPIRATION DATE: 12/28/2021.															DRAWING NO.	C4.4		
															SHEET NO.	22 of 34		
		DSGN	VLR															
		DR	VLR															
		CHK	AO															
		APVD	MRAB	NO.	DATE	REVISION				BY	APVD							

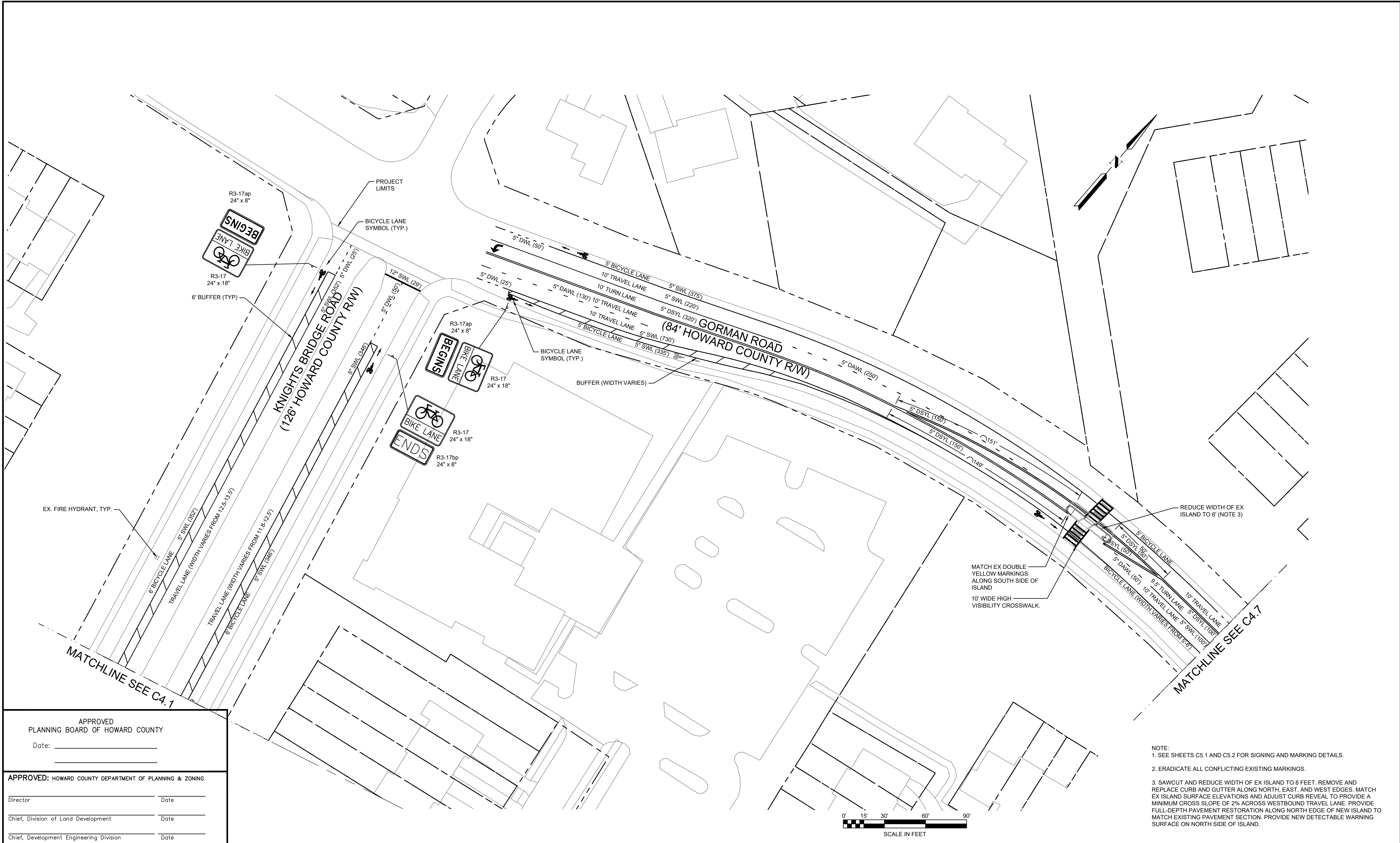


NOTE:
1. SEE SHEETS C5.1 AND C5.2 FOR SIGNING AND MARKING DETAILS.
2. ERADICATE ALL CONFLICTING EXISTING MARKINGS.

APPROVED PLANNING BOARD OF HOWARD COUNTY	
Date: _____	_____
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING	
Director _____	Date _____
Chief, Division of Land Development _____	Date _____
Chief, Development Engineering Division _____	Date _____



PROFESSIONAL CERTIFICATION I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF [STATE]. LICENSE NO. 35022 EXPIRATION DATE: 12/28/2021.		REUSE OF DOCUMENTS ALL DRAWINGS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THIS PROJECT. REUSE OR ALTERATION IS AT THE USER'S SOLE RISK.						TOOLE DESIGN 8484 GEORGIA AVENUE, SUITE 800 SILVER SPRING, MD 20910 PHONE: 301.927.1900 FAX: 301.927.2800 www.tooledesign.com	NORTH LAUREL CONNECTIONS HOWARD COUNTY, MD	CIVIL		PROJECT NO. 5409.05
										DATE 12-18-2020	DRAWING NO. C4.5	
										FUTURE SIGNING AND MARKING PLAN KNIGHTS BRIDGE - 5		SHEET NO. 23 of 34

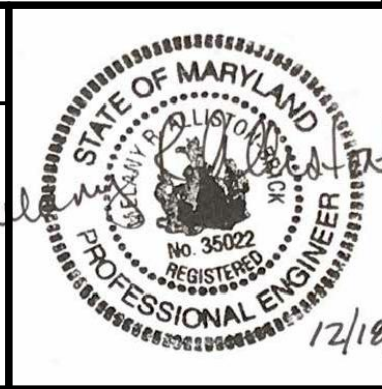


- NOTE:
- SEE SHEETS C5.1 AND C5.2 FOR SIGNING AND MARKING DETAILS.
 - ERADICATE ALL CONFLICTING EXISTING MARKINGS.
 - SAWCUT AND REDUCE WIDTH OF EX ISLAND TO 6 FEET. REMOVE AND REPLACE CURB AND GUTTER ALONG NORTH, EAST, AND WEST EDGES. MATCH EX ISLAND SURFACE ELEVATIONS AND ADJUST CURB REVEAL TO PROVIDE A MINIMUM CROSS SLOPE OF 2% ACROSS WESTBOUND TRAVEL LANE. PROVIDE FULL-DEPTH PAVEMENT RESTORATION ALONG NORTH EDGE OF NEW ISLAND TO MATCH EXISTING PAVEMENT SECTION. PROVIDE NEW DETECTABLE WARNING SURFACE ON NORTH SIDE OF ISLAND.

APPROVED PLANNING BOARD OF HOWARD COUNTY	
Date: _____	_____
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING	
Director _____	Date _____
Chief, Division of Land Development _____	Date _____
Chief, Development Engineering Division _____	Date _____

PROFESSIONAL CERTIFICATION

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LICENSE NO. 35022
EXPIRATION DATE: 12/28/2021.



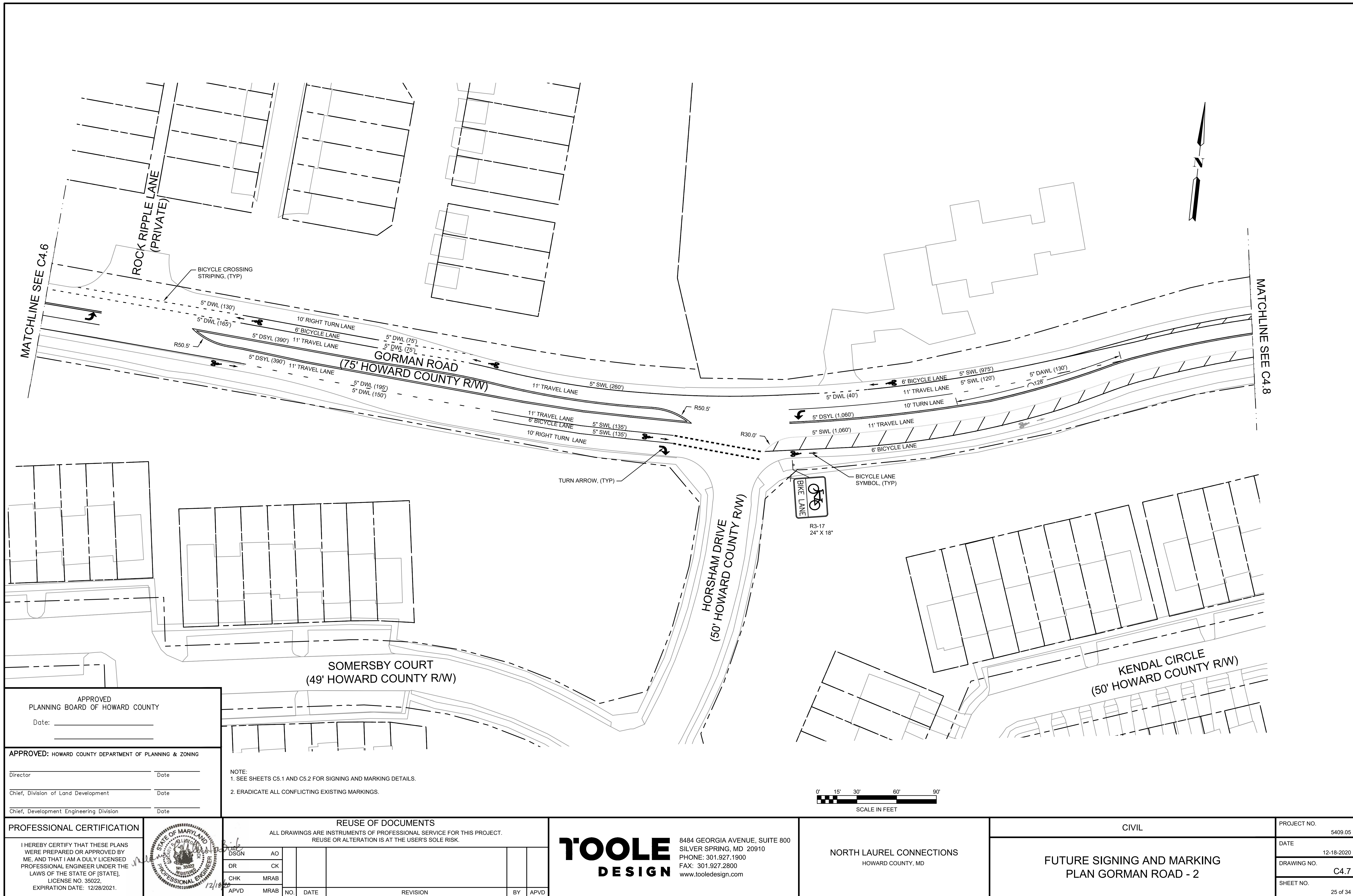
REUSE OF DOCUMENTS					
ALL DRAWINGS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THIS PROJECT. REUSE OR ALTERATION IS AT THE USER'S SOLE RISK.					
DSGN	AO				
DR	CK				
CHK	MRAB				
APVD	MRAB	NO.	DATE	REVISION	BY APVD

TOOLE
DESIGN

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NORTH LAUREL CONNECTIONS
HOWARD COUNTY, MD

CIVIL		PROJECT NO.
FUTURE SIGNING AND MARKING PLAN GORMAN ROAD - 1		5409.05
		DATE 12-18-2020
		DRAWING NO. C4.6
		SHEET NO. 24 of 34



APPROVED
PLANNING BOARD OF HOWARD COUNTY

Date: _____

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

Director _____ Date _____

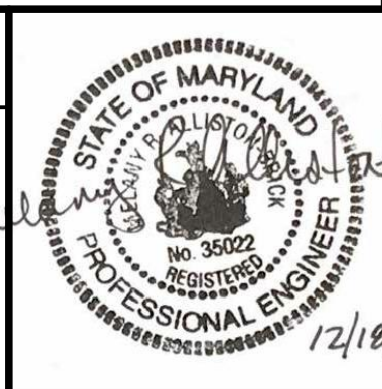
Chief, Division of Land Development _____ Date _____

Chief, Development Engineering Division _____ Date _____

NOTE:
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2. ERADICATE ALL CONFLICTING EXISTING MARKINGS.

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LICENSE NO. 35022
EXPIRATION DATE: 12/28/2021.



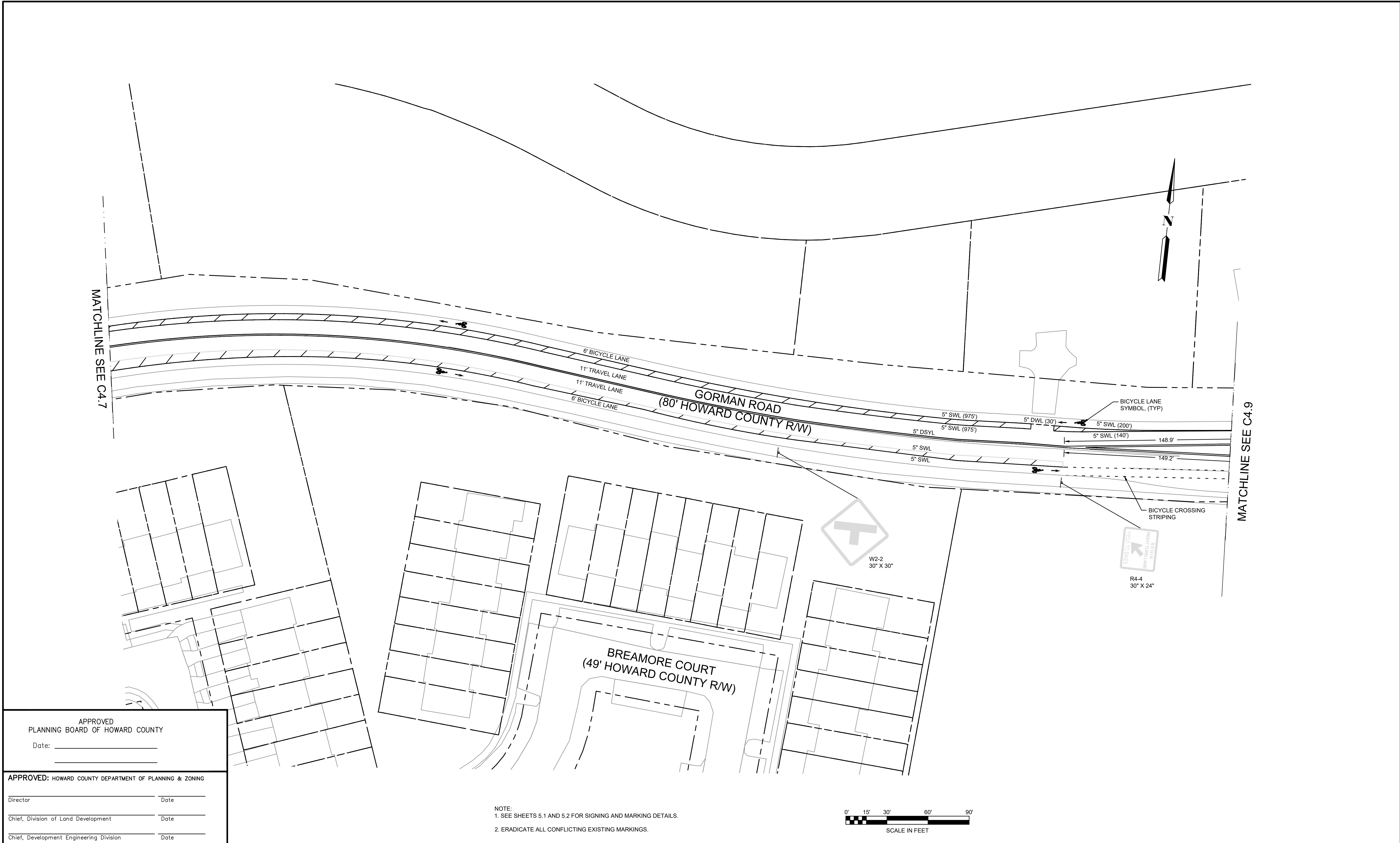
REUSE OF DOCUMENTS					
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DSGN	AO				
DR	CK				
CHK	MRAB				
APVD	MRAB	NO.	DATE	REVISION	BY APVD

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NORTH LAUREL CONNECTIONS
HOWARD COUNTY, MD

CIVIL		PROJECT NO.
FUTURE SIGNING AND MARKING PLAN GORMAN ROAD - 2		5409.05
		DATE 12-18-2020
		DRAWING NO. C4.7
		SHEET NO. 25 of 34



APPROVED
PLANNING BOARD OF HOWARD COUNTY

Date: _____

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

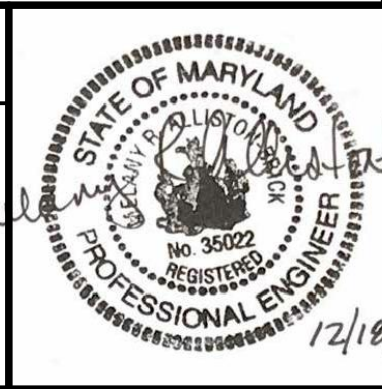
Director _____ Date _____

Chief, Division of Land Development _____ Date _____

Chief, Development Engineering Division _____ Date _____

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LICENSE NO. 35022
EXPIRATION DATE: 12/28/2021.



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DSGN	VLR								
DR	VLR								
CHK	AO								
APVD	MRAB	NO.	DATE	REVISION	BY	APVD			

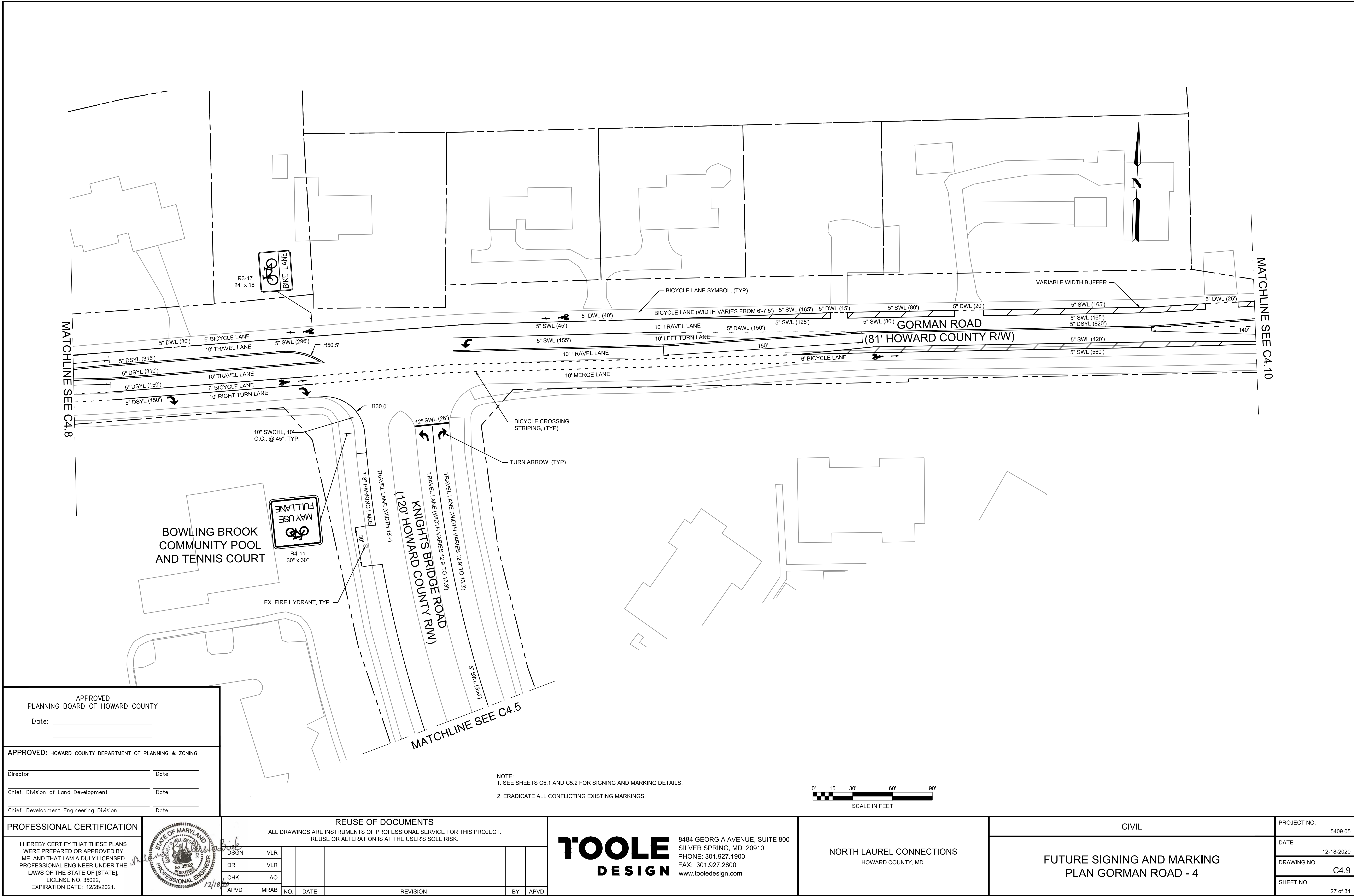
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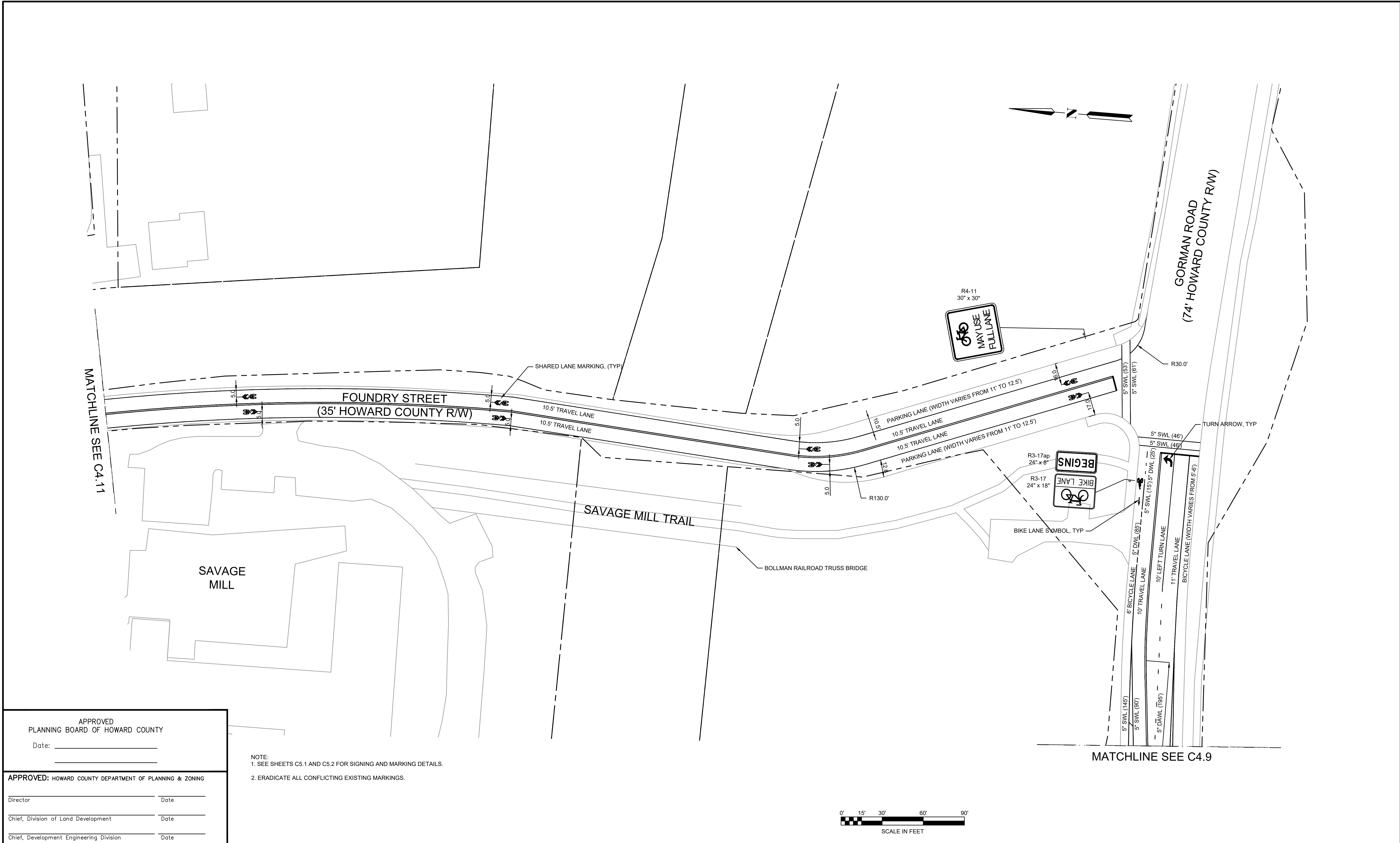
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NORTH LAUREL CONNECTIONS
HOWARD COUNTY, MD

CIVIL	PROJECT NO. 5409.05
FUTURE SIGNING AND MARKING PLAN GORMAN ROAD - 3	DATE 12-18-2020
	DRAWING NO. C4.8
	SHEET NO. 26 of 34





APPROVED
PLANNING BOARD OF HOWARD COUNTY

Date: _____

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

Director _____ Date _____

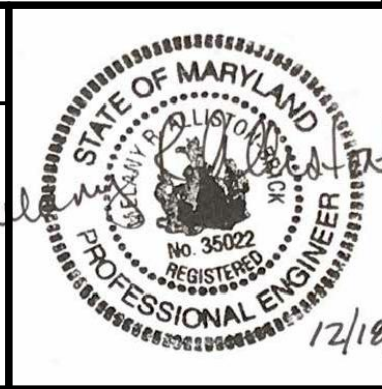
Chief, Division of Land Development _____ Date _____

Chief, Development Engineering Division _____ Date _____

NOTE:
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EXPIRATION DATE: 12/28/2021.



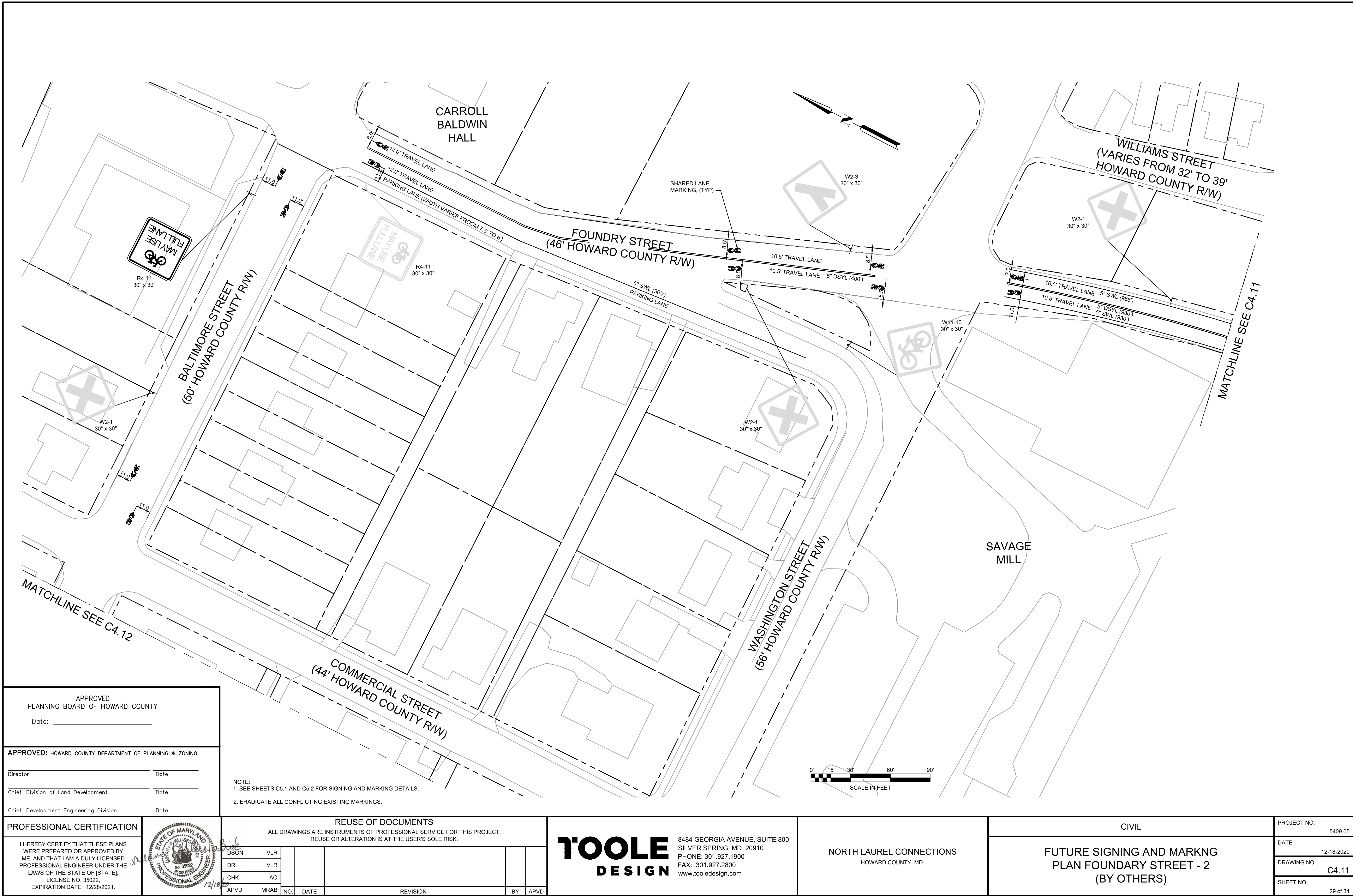
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DSGN	VLR								
DR	VLR								
CHK	AO								
APVD	MRAB	NO.	DATE	REVISION			BY	APVD	

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NORTH LAUREL CONNECTIONS
HOWARD COUNTY, MD

CIVIL		PROJECT NO.
FUTURE SIGNING AND MARKING PLAN FOUNDRY STREET - 1 (BY OTHERS)		5409.05
		DATE 12-18-2020
		DRAWING NO. C4.10
		SHEET NO. 28 of 34



APPROVED
PLANNING BOARD OF HOWARD COUNTY

Date: _____

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

Director _____ Date _____

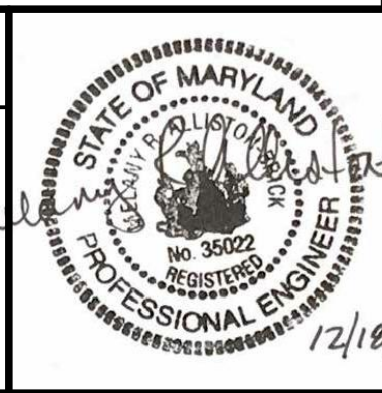
Chief, Division of Land Development _____ Date _____

Chief, Development Engineering Division _____ Date _____

NOTE:
1. SEE SHEETS C5.1 AND C5.2 FOR SIGNING AND MARKING DETAILS.
2. ERADICATE ALL CONFLICTING EXISTING MARKINGS.

PROFESSIONAL CERTIFICATION

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LICENSE NO. 35022
EXPIRATION DATE: 12/28/2021.



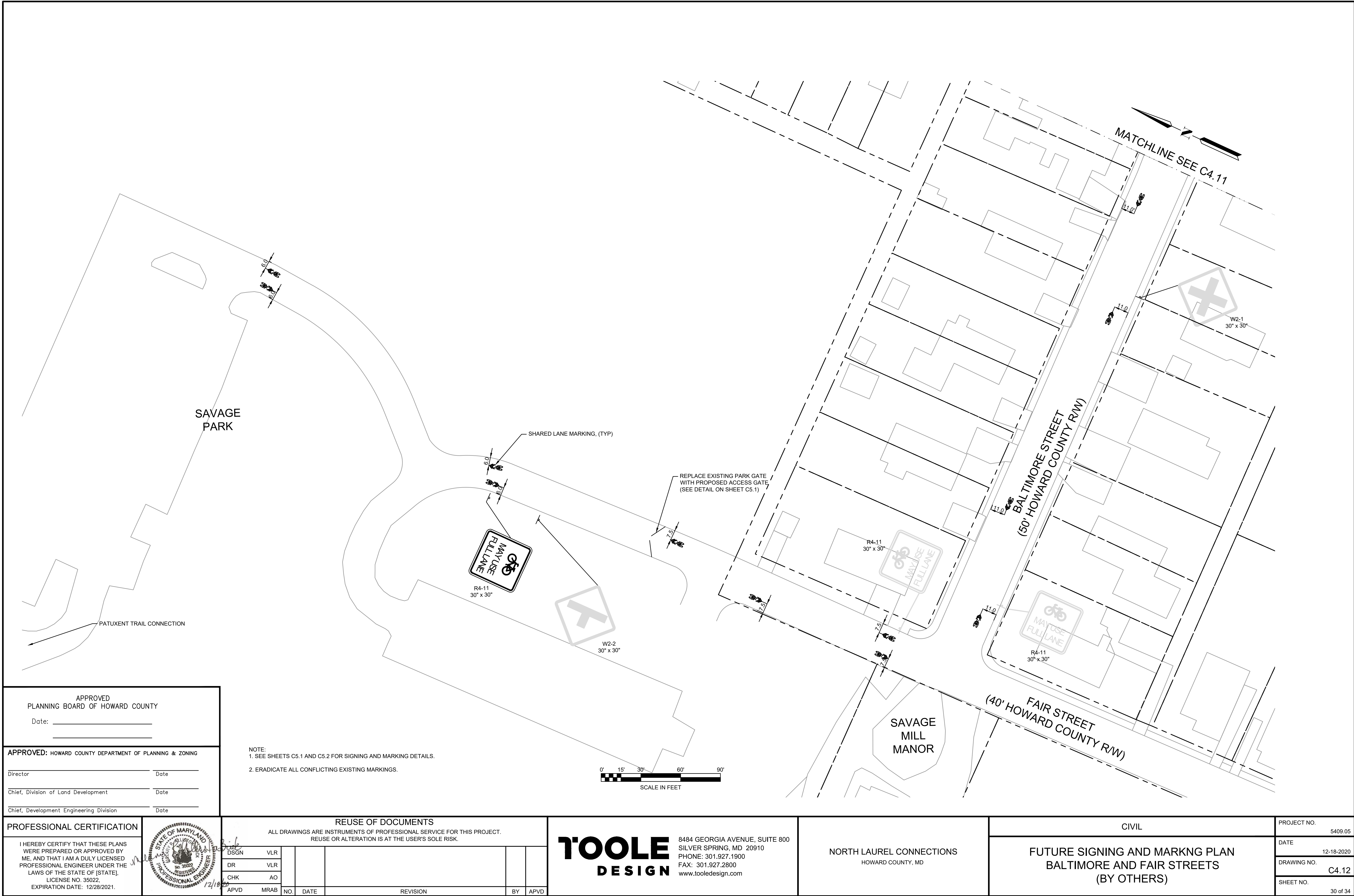
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DR	VLR								
CHK	AO								
APVD	MRAB	NO.	DATE	REVISION	BY	APVD			

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NORTH LAUREL CONNECTIONS
HOWARD COUNTY, MD

CIVIL		PROJECT NO.
FUTURE SIGNING AND MARKING PLAN FOUNDRY STREET - 2 (BY OTHERS)		5409.05
		DATE 12-18-2020
		DRAWING NO. C4.11
		SHEET NO. 29 of 34



APPROVED
PLANNING BOARD OF HOWARD COUNTY

Date: _____

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

Director _____ Date _____

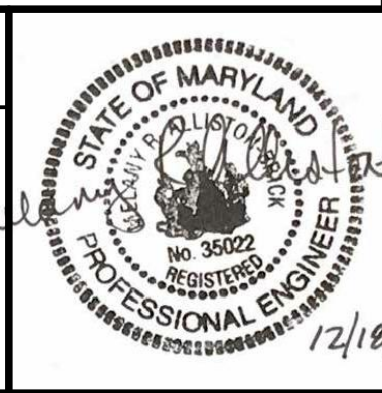
Chief, Division of Land Development _____ Date _____

Chief, Development Engineering Division _____ Date _____

NOTE:
1. SEE SHEETS C5.1 AND C5.2 FOR SIGNING AND MARKING DETAILS.
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LICENSE NO. 35022
EXPIRATION DATE: 12/28/2021.



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DSGN	VLR								
DR	VLR								
CHK	AO								
APVD	MRAB	NO.	DATE	REVISION	BY	APVD			

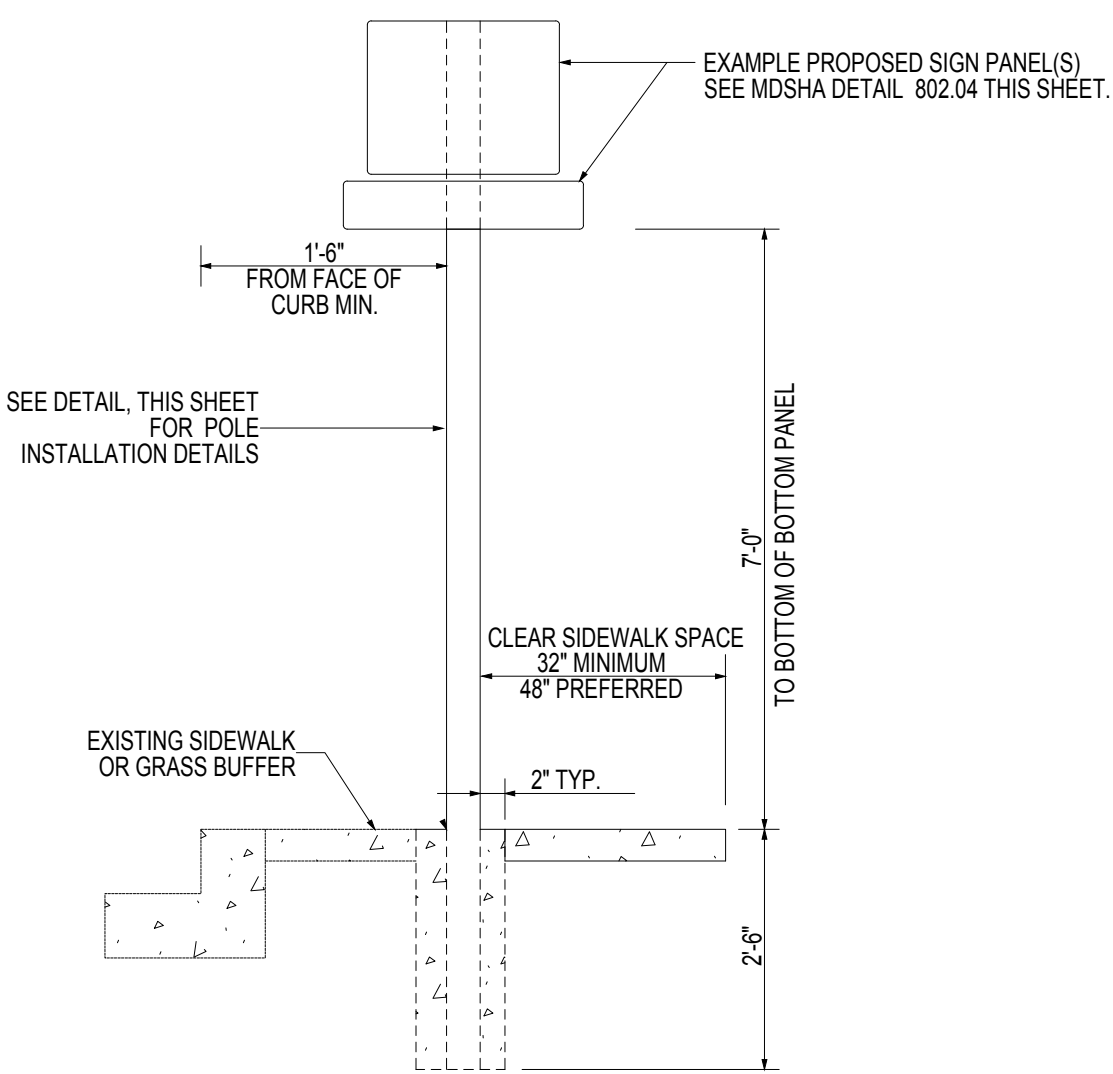
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DESIGN

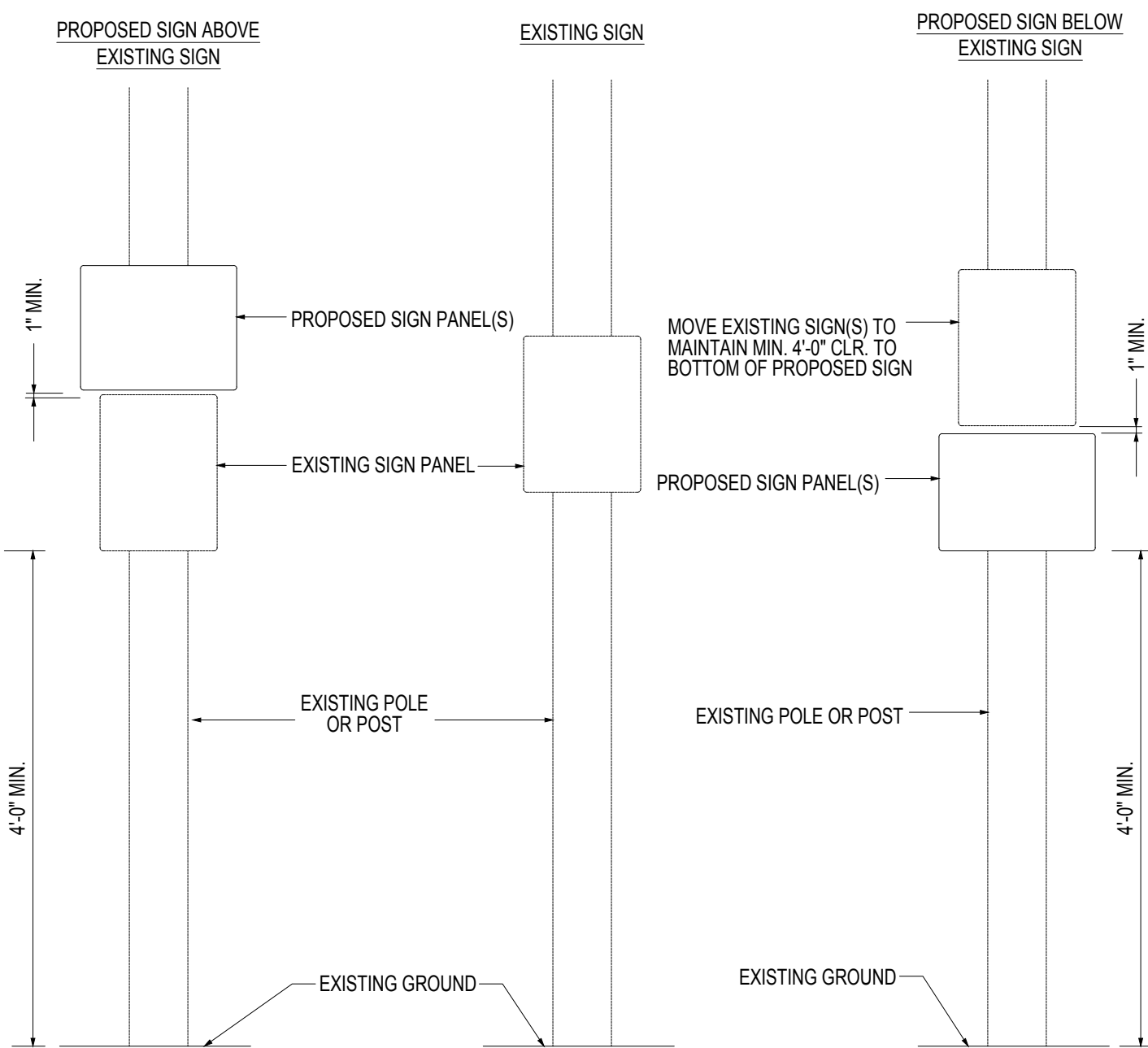
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SILVER SPRING, MD 20910
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FAX: 301.927.2800
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NORTH LAUREL CONNECTIONS
HOWARD COUNTY, MD

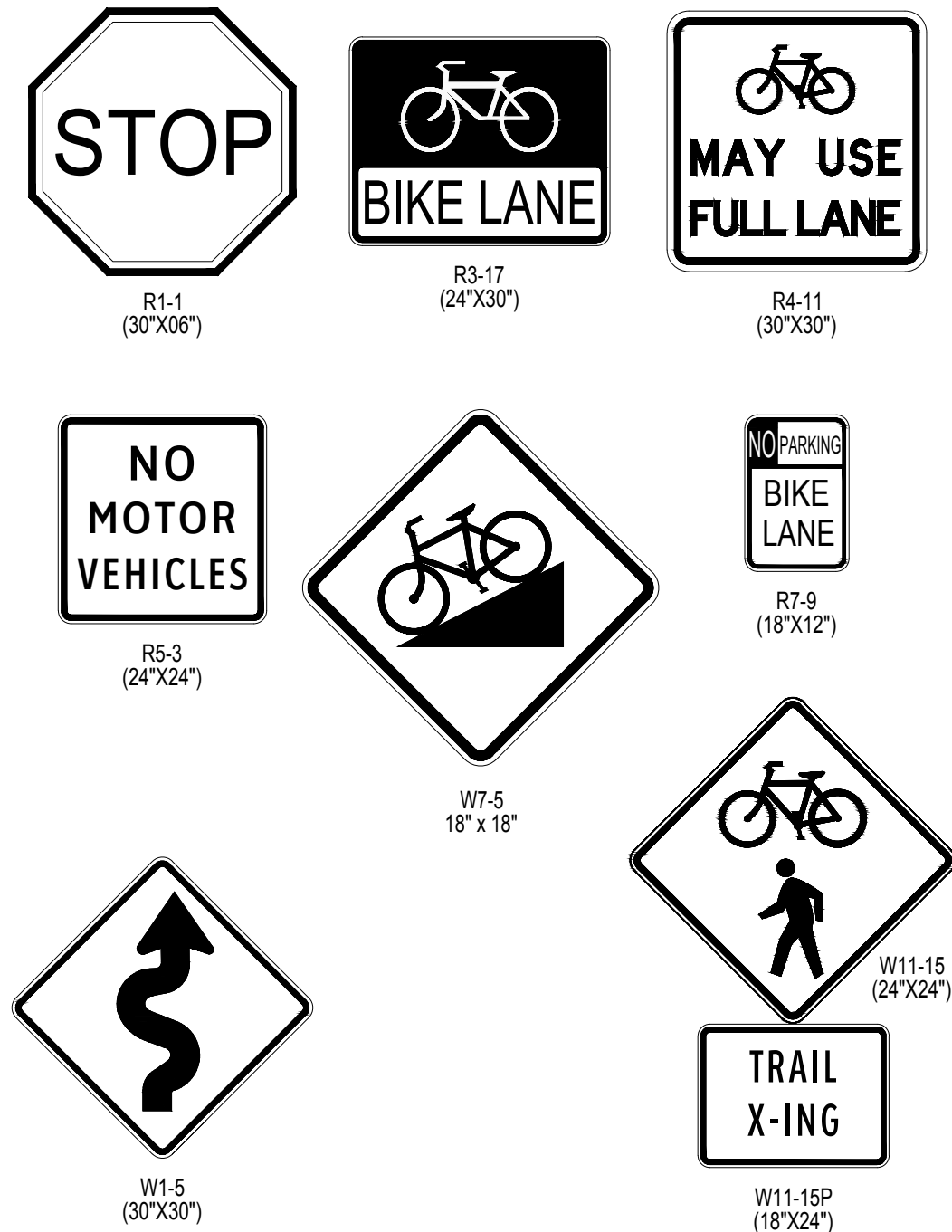
CIVIL			PROJECT NO.
FUTURE SIGNING AND MARKNG PLAN BALTIMORE AND FAIR STREETS (BY OTHERS)			5409.05
			DATE 12-18-2020
			DRAWING NO. C4.12
			SHEET NO. 30 of 34



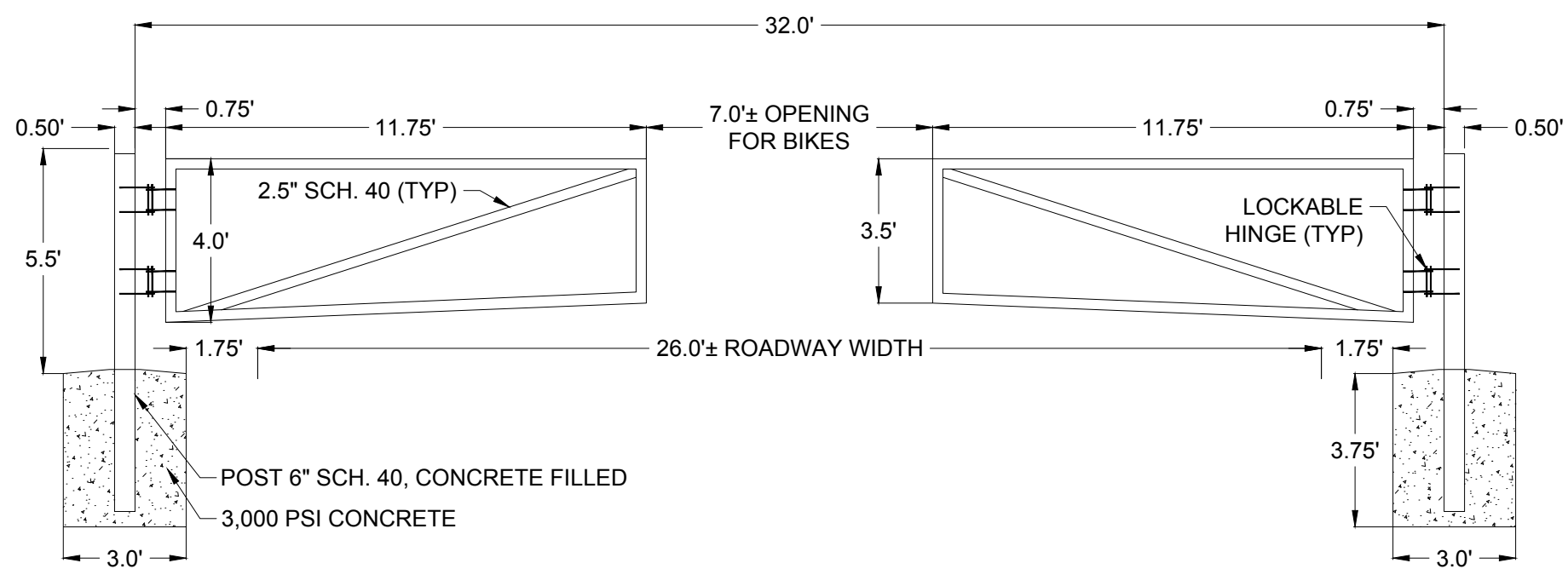
PROPOSED POLE AND SIGN INSTALLATION DETAIL
ELEVATION - N.T.S.



MOUNTING SIGN ON POLE WITH EXISTING SIGN
ELEVATION - N.T.S.

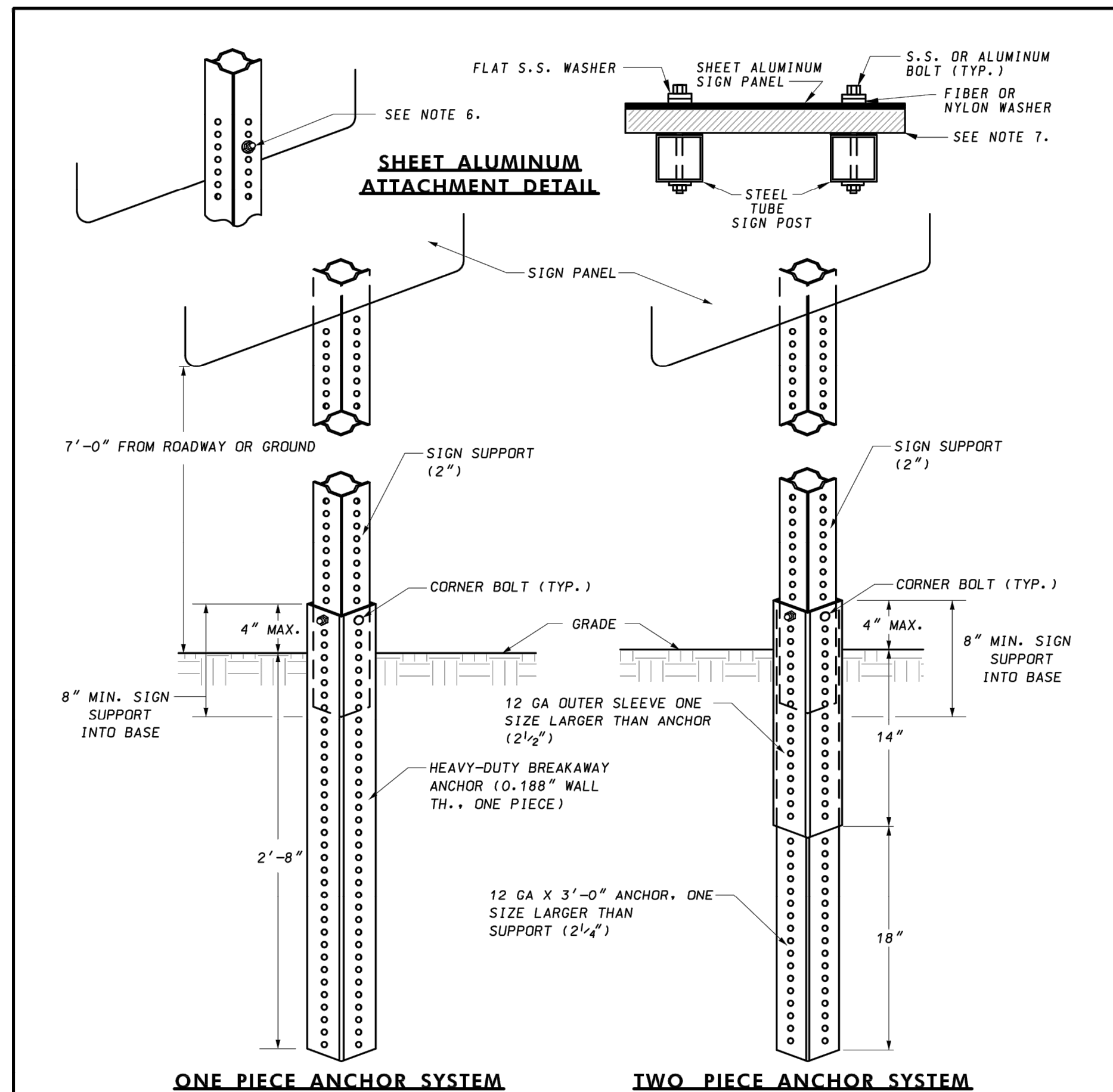


MUTCD STANDARD SIGNS
N.T.S.




PROPOSED GATE DETAIL
N.T.S.

- NOTE:
- SIGNS ON EXISTING GATE SHALL BE REMOVED, STORED SAFELY, AND REINSTALLED ON PROPOSED GATE. DAMAGED SIGNS SHALL BE REPLACED AT CONTRACTOR'S EXPENSE.



ONE PIECE ANCHOR SYSTEM TWO PIECE ANCHOR SYSTEM

- NOTES:
- INSTALLATION SHALL BE PERFORMED PER MANUFACTURER'S RECOMMENDATIONS.
 - CORNER BOLTS AND HARDWARE SHALL BE AS APPROVED BY AASHTO AND PER MANUFACTURER'S RECOMMENDATIONS.
 - THE INSTALLATION SHALL MEET THE LATEST AASHTO BREAKAWAY REQUIREMENTS.
 - SPLICES SHALL NOT BE USED TO EXTEND THE HEIGHT OF A SIGN POST.
 - ONLY 2" SIGN SUPPORTS SHALL BE USED. SIGN POSTS GREATER THAN OR LESS THAN 2" ARE NOT PERMITTED.
 - FOR SHEET ALUMINUM ATTACHMENT, ALL BOLTS SHALL BE 3/8" F593 (18-8 TYPE 303-304) STAINLESS STEEL OR ANODIZED ALUMINUM HEX HEAD BOLT WITH WASHERS AND NUTS SPACED AT 12" MAXIMUM.
 - ALL SHEET ALUMINUM SIGNS 5' WIDE AND LARGER SHALL BE BRACED WITH TWO HORIZONTAL 2"x4" TREATED WOOD OR EQUAL, ATTACHED TO THE SUPPORTS. THE BOLT LENGTHS SHALL BE COORDINATED.

SPECIFICATION 802	CATEGORY CODE ITEMS	Maryland Department of Transportation STATE HIGHWAY ADMINISTRATION STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES BREAKAWAY TUBULAR STEEL SIGN SUPPORTS STANDARD NO. MD 802.04
APPROVED	DIRECTOR - OFFICE OF TRAFFIC AND SAFETY	
	APPROVAL - SHA REVISIONS	
	APPROVAL - FEDERAL HIGHWAY ADMINISTRATION	
	APPROVAL - 8-17-07	
	APPROVAL - 5-2-07	
	REVISION	REVISION
	REVISION	REVISION
	REVISION	REVISION
	REVISION	REVISION

- SIGNAGE NOTES:
- SEE PLAN SHEETS FOR SIGN LOCATIONS.
 - IF POST IS INSTALLED IN SIDEWALK CONCRETE, SURROUND POST WITH A MINIMUM 2" OF CONCRETE ON ALL SIDES THAT CONFORMS TO MARYLAND STATE HIGHWAY ADMINISTRATION STANDARDS AND SPECIFICATIONS FOR CONCRETE SIDEWALKS. COST OF CONCRETE SHALL BE INCLUDED IN THE COST OF THE SIGN INSTALLATION.
 - SEE MANUAL ON UNIFORM TRAFFIC DEVICES (MUTCD) STANDARD HIGHWAY SIGNS FOR SIGN DETAILS.

APPROVED PLANNING BOARD OF HOWARD COUNTY	
Date: _____	
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING	
Director	Date
Chief, Division of Land Development	Date
Chief, Development Engineering Division	Date
PROFESSIONAL CERTIFICATION	
I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF [STATE]. LICENSE NO. 35022 EXPIRATION DATE: 12/28/2021.	
	

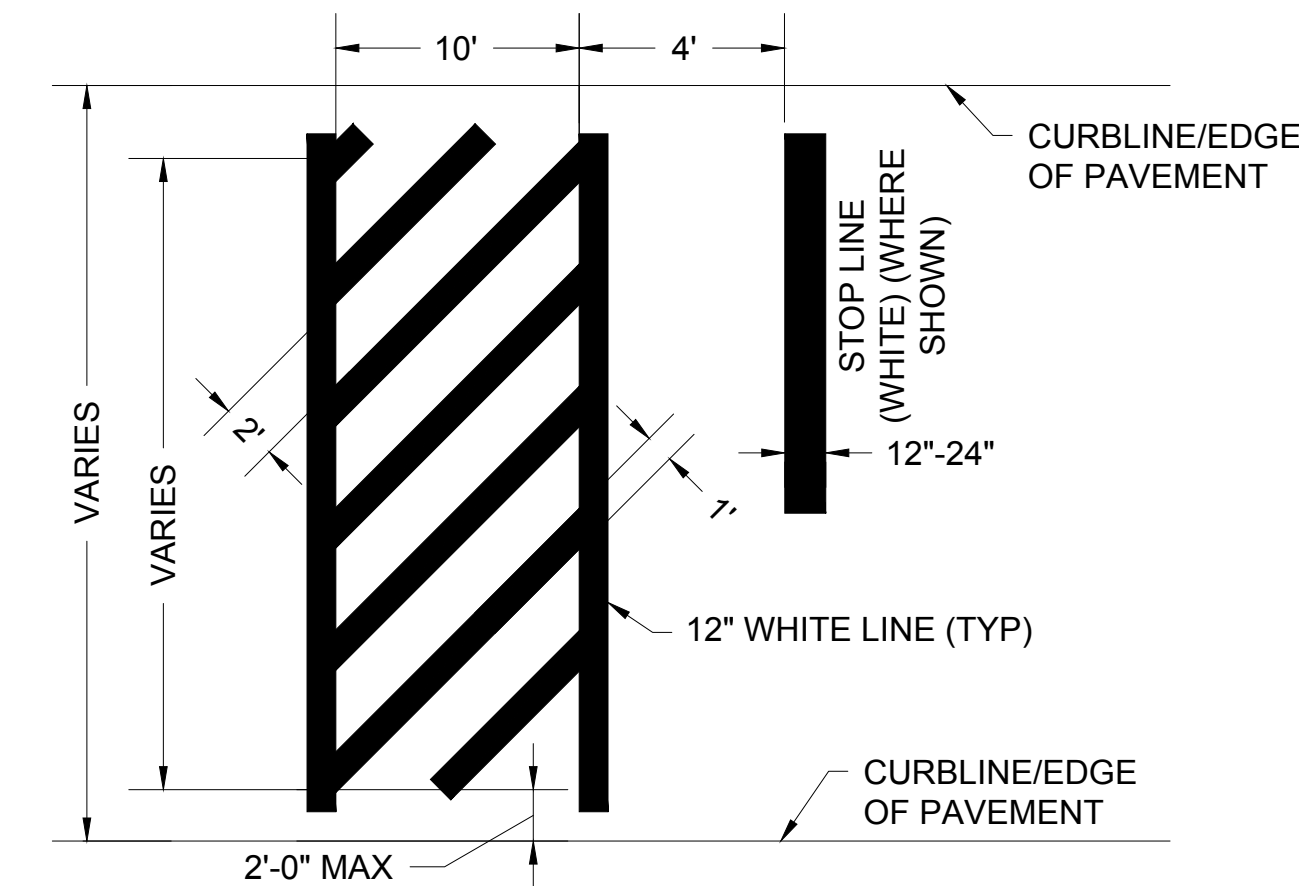
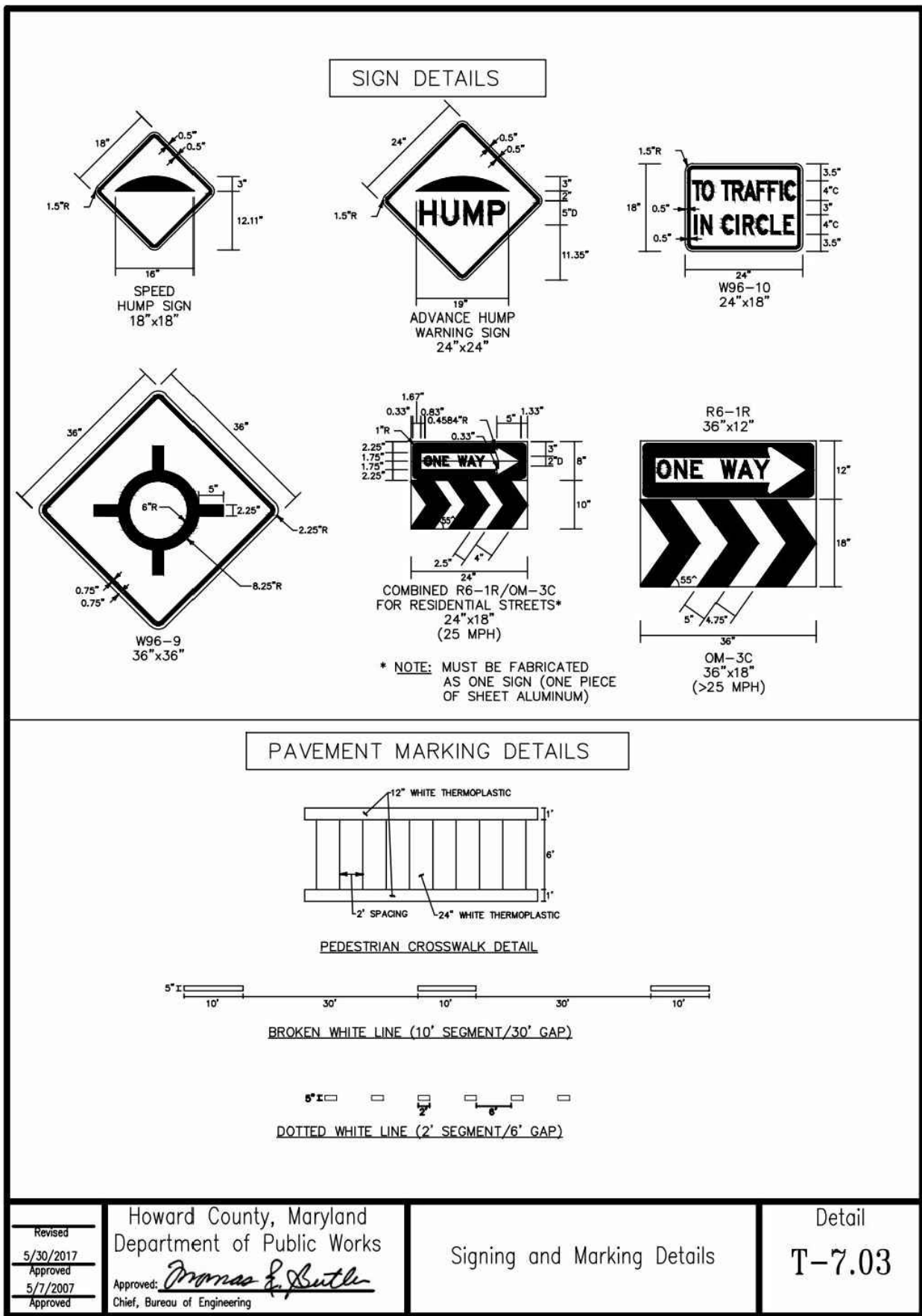
REUSE OF DOCUMENTS					
ALL DRAWINGS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THIS PROJECT. REUSE OR ALTERATION IS AT THE USER'S SOLE RISK.					
DSGN	VL	R			
DR	VL	R			
CHK	AO				
APVD	MRAB	NO.	DATE	REVISION	BY APVD

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DESIGN

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NORTH LAUREL CONNECTIONS
HOWARD COUNTY, MD

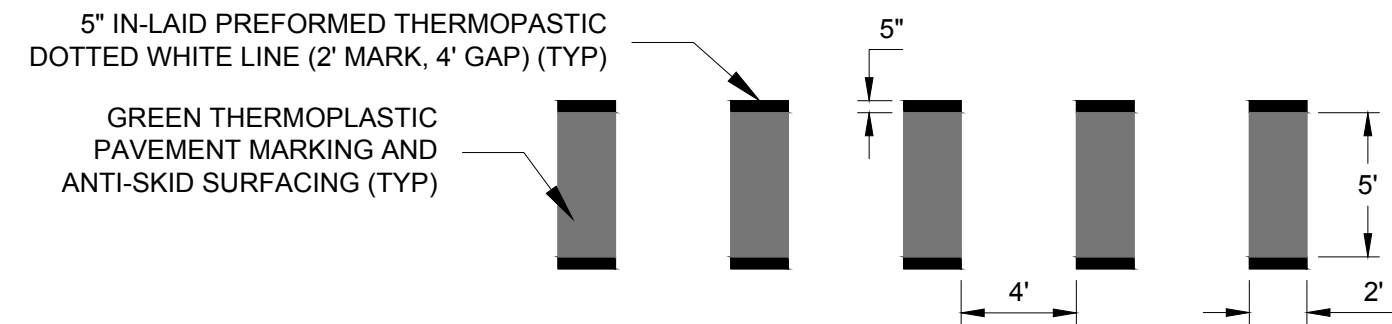
GENERAL		PROJECT NO.
STANDARD DETAILS - 1		5409.05
		DATE 12-18-2020
		DRAWING NO. C5.1
		SHEET NO. 31 of 34



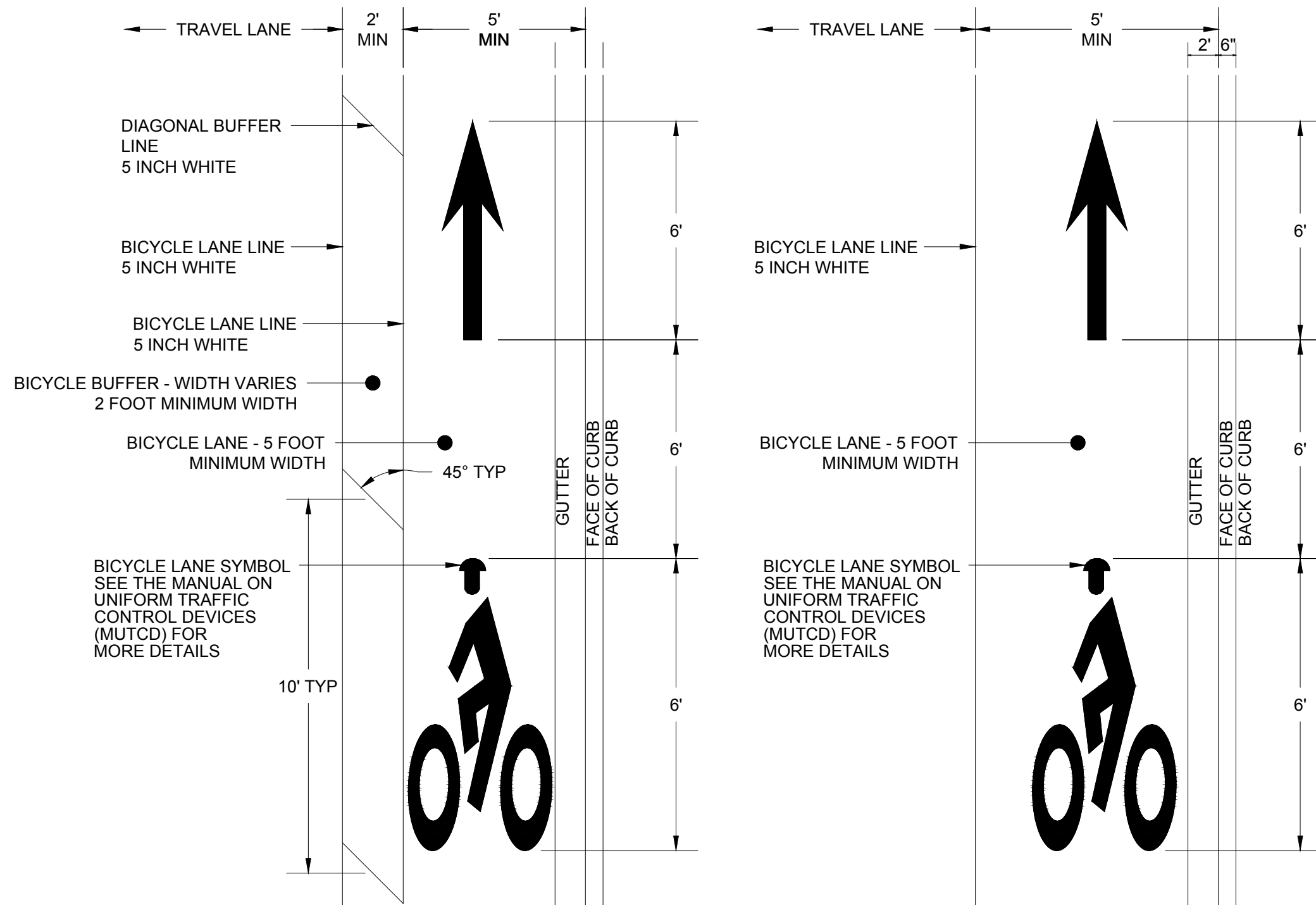
TYPICAL CROSSWALK STRIPING - STATE-OWNED ROADWAYS
N.T.S.

CROSSWALK NOTES:

- ALL 12" LINES SHALL BE APPLIED IN ONE APPLICATION, NO COMBINATION OF LINES (TWO - 6" LINES) WILL BE ACCEPTED.
- LAYOUT OF CROSSWALKS SHALL BE APPROVED BY THE ENGINEER PRIOR TO APPLICATION.
- CROSSWALK BARS SHALL BE PLACED OUTSIDE THE VEHICULAR WHEEL PATH WHEREVER POSSIBLE.
- CENTERLINE SHALL EXTEND AN ADDITIONAL 2 FEET IN LOCATIONS THAT DO NOT HAVE A STOP LINE



TYPICAL BICYCLE CROSSING STRIPING
N.T.S.



BUFFERED BICYCLE LANE STRIPING

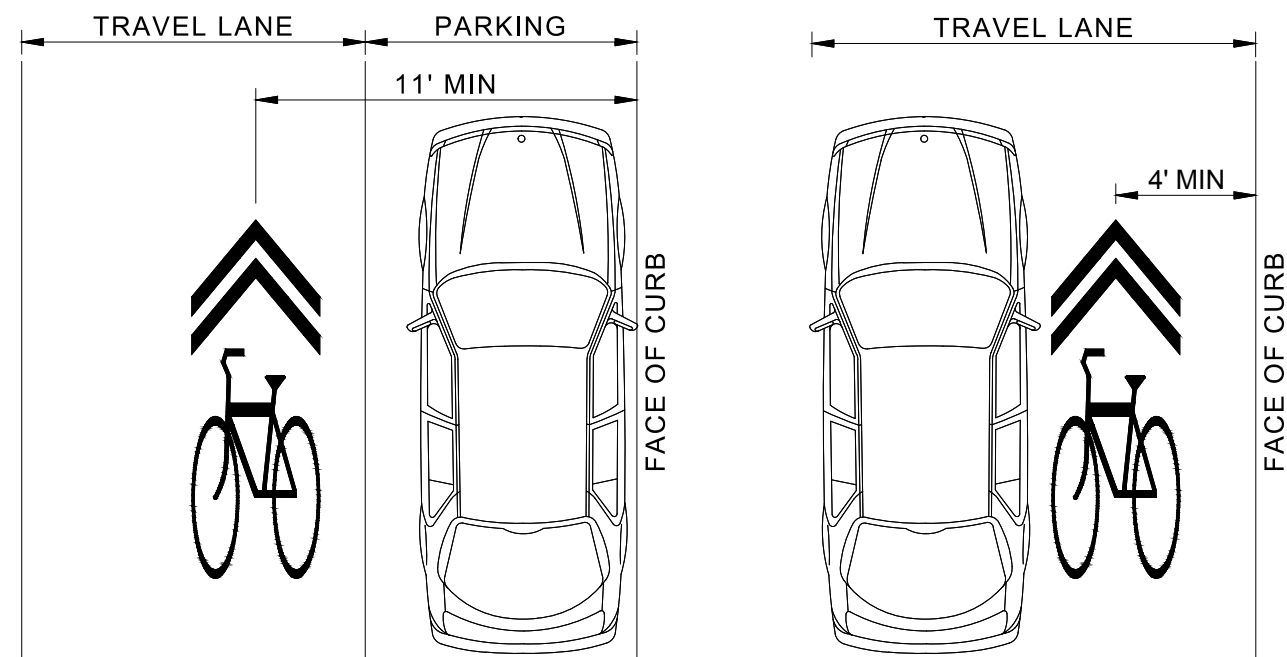
ADJACENT TO CURB WITHOUT PARKING

N.T.S.

BICYCLE LANE STRIPING

ADJACENT TO CURB WITHOUT PARKING

N.T.S.



ADJACENT TO PARKING

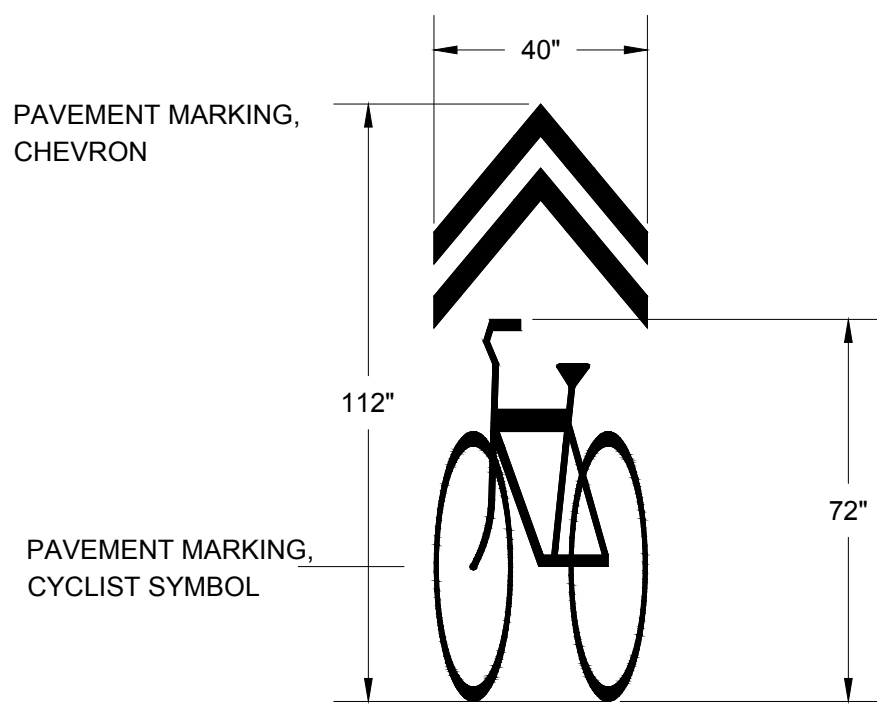
ADJACENT TO CURB WITHOUT PARKING

SHARED LANE SYMBOL PLACEMENT

N.T.S.

SHARED LANE SYMBOL PLACEMENT NOTES:

- IN LOCATIONS WITH ON-STREET PARKING, SHARED LANE MARKING SYMBOLS SHALL BE PLACED SO THAT THEIR CENTERS ARE A MINIMUM OF 11 FEET FROM THE ADJACENT FACE OF CURB, UNLESS SHOWN OTHERWISE ON THE PLAN SHEETS.
- IN LOCATIONS WITHOUT PARKING, SHARED LANE MARKING SYMBOLS SHALL BE PLACED SO THAT THEIR CENTERS ARE 4 FEET FROM THE ADJACENT FACE OF CURB, UNLESS SHOWN OTHERWISE ON THE PLAN SHEETS.
- IF LOCATED IN A TURN LANE, SHARED LANE MARKING SYMBOLS SHALL BE CENTERED IN THE LANE UNLESS OTHERWISE NOTED ON THE PLAN SHEETS.
- DO NOT PLACE SYMBOLS ON LANE LINES.
- SEE PLAN SHEETS FOR SYMBOL LOCATIONS.
- DISTANCE BETWEEN SHARED LANE SYMBOLS SHALL NOT EXCEED 250 LF.
- SHARED LANE SYMBOLS BE SPACED EVENLY WITHIN EACH BLOCK.



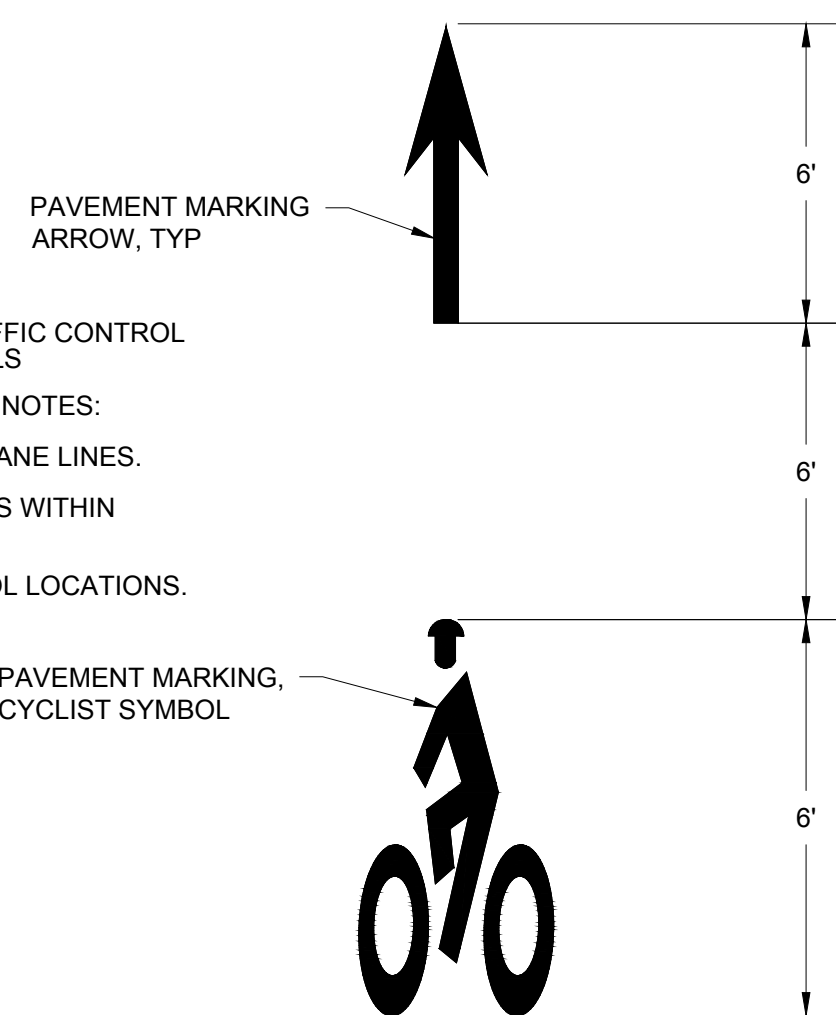
SHARED LANE SYMBOL

N.T.S.

NOTE:
SEE THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR MORE DETAILS

NOTE:

- SEE THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR MORE DETAILS
- BICYCLE LANE SYMBOL PLACEMENT NOTES:
- DO NOT PLACE SYMBOLS ON LANE LINES.
 - PLACE BICYCLE LANE SYMBOLS WITHIN CENTER OF BICYCLE LANE.
 - SEE PLAN SHEETS FOR SYMBOL LOCATIONS.



BICYCLE LANE SYMBOL

N.T.S.

APPROVED
PLANNING BOARD OF HOWARD COUNTY

Date: _____

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

Director _____ Date _____

Chief, Division of Land Development _____ Date _____

Chief, Development Engineering Division _____ Date _____

PROFESSIONAL CERTIFICATION

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LICENSE NO. 35022
EXPIRATION DATE: 12/28/2021.

STATE OF MARYLAND
Professional Engineer
No. 35022
12/10/2021

REUSE OF DOCUMENTS

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NO.	DATE	REVISION	BY	APVD
DSGN	VL	R		
DR	VL	R		
CHK	AO			
APVD	MRAB			

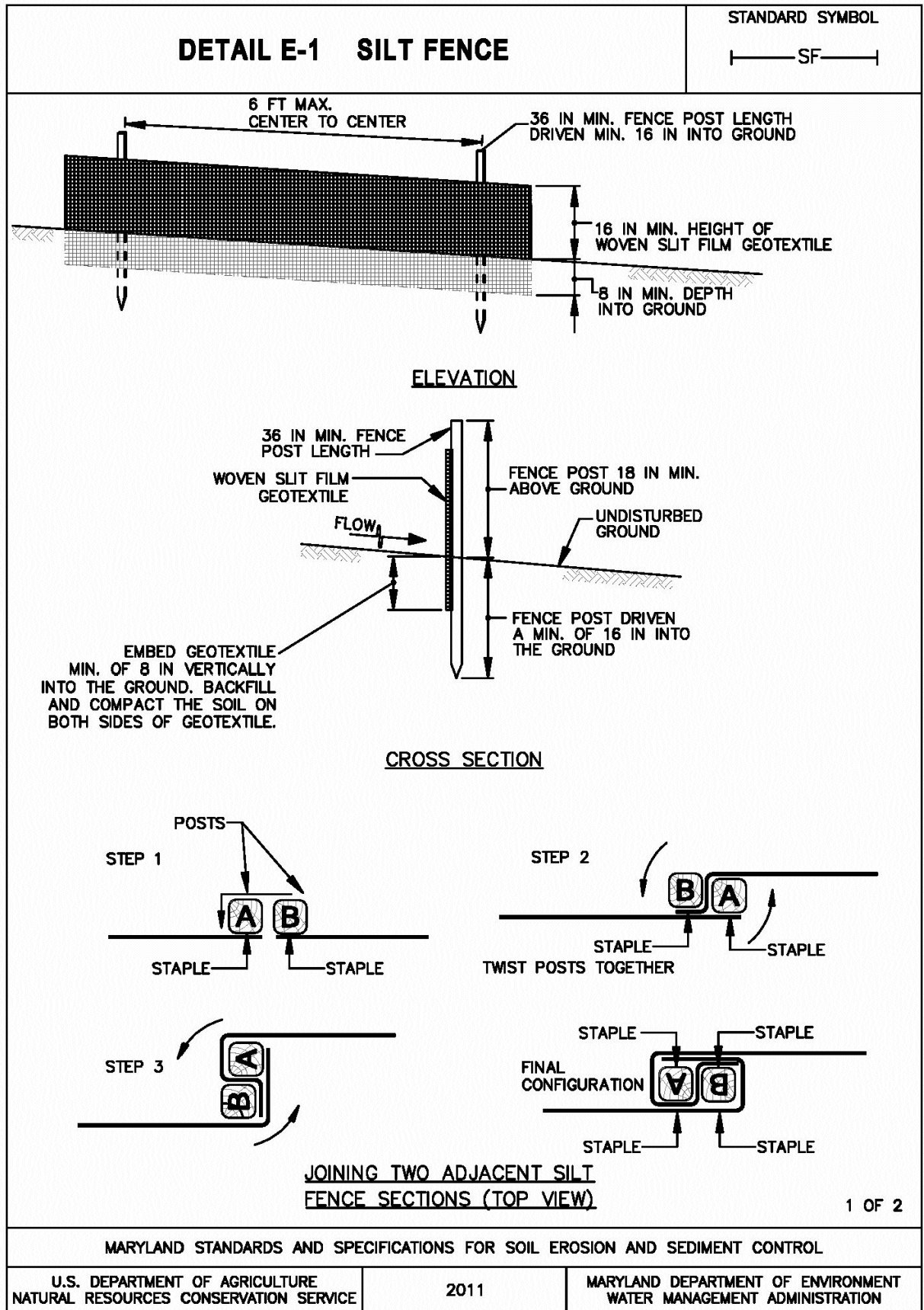
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SILVER SPRING, MD 20910
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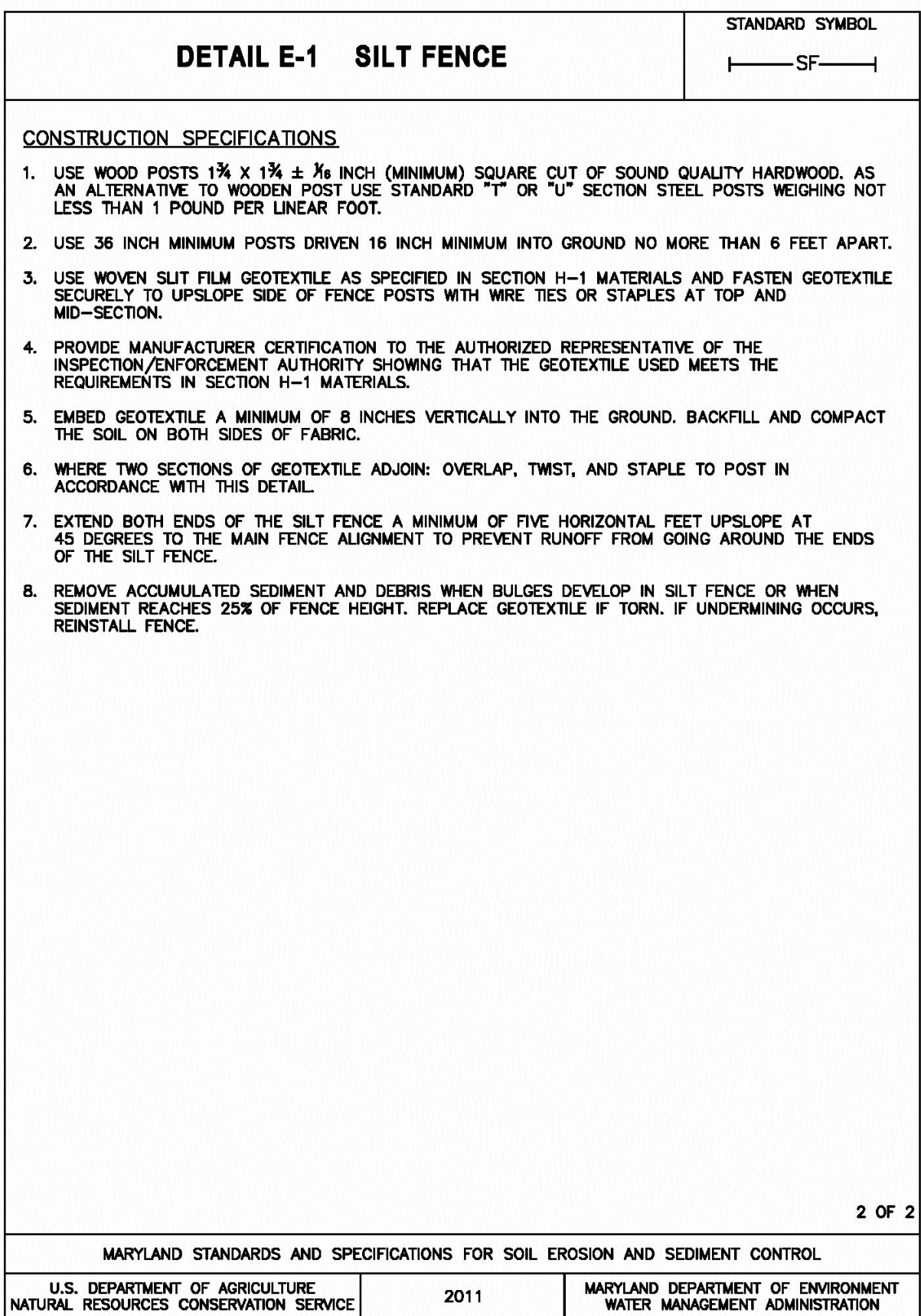
NORTH LAUREL CONNECTIONS
HOWARD COUNTY, MD

STANDARD DETAILS - 2

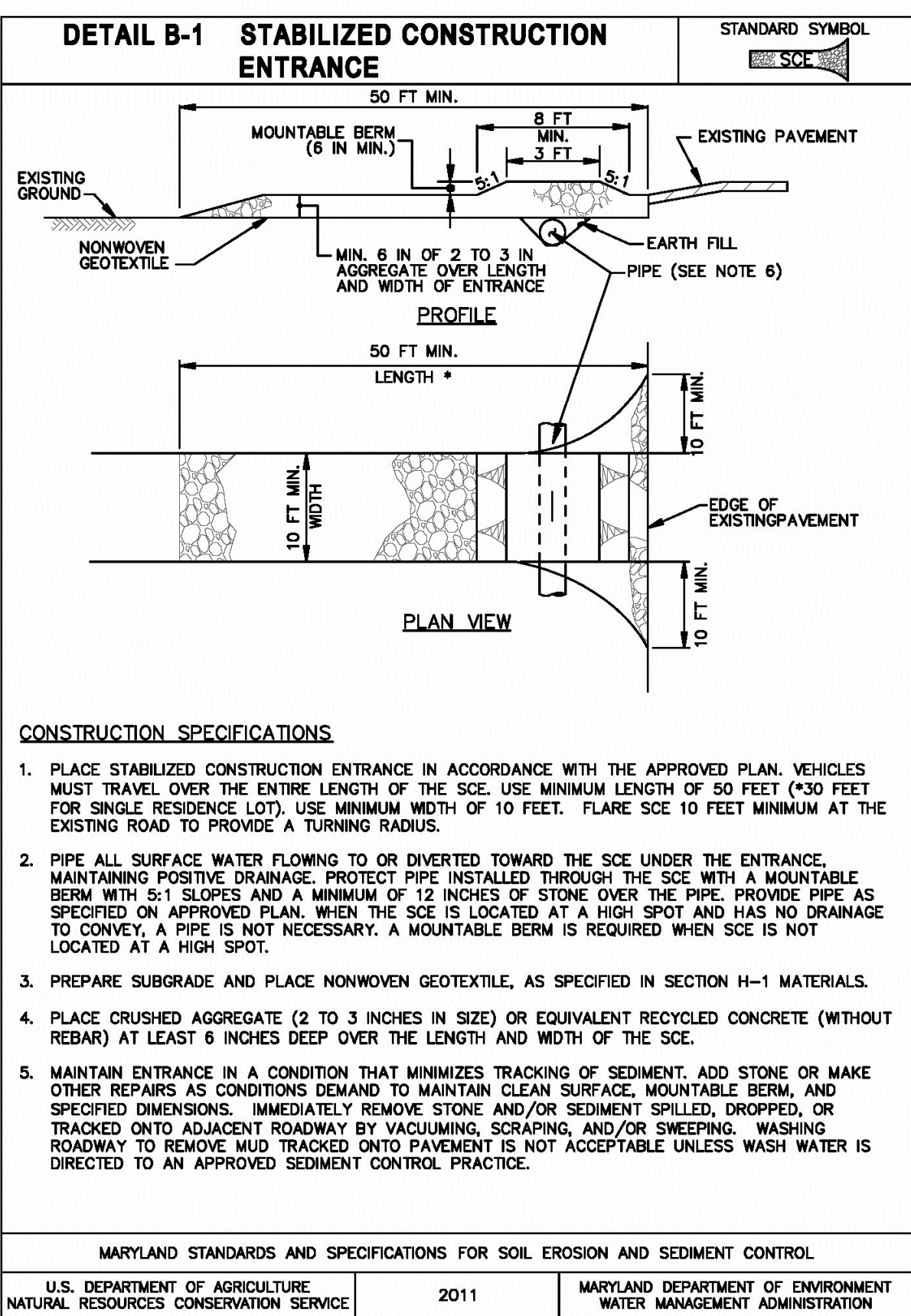
PROJECT NO.	5409.05
DATE	12-18-2020
DRAWING NO.	C5.2
SHEET NO.	32 of 34



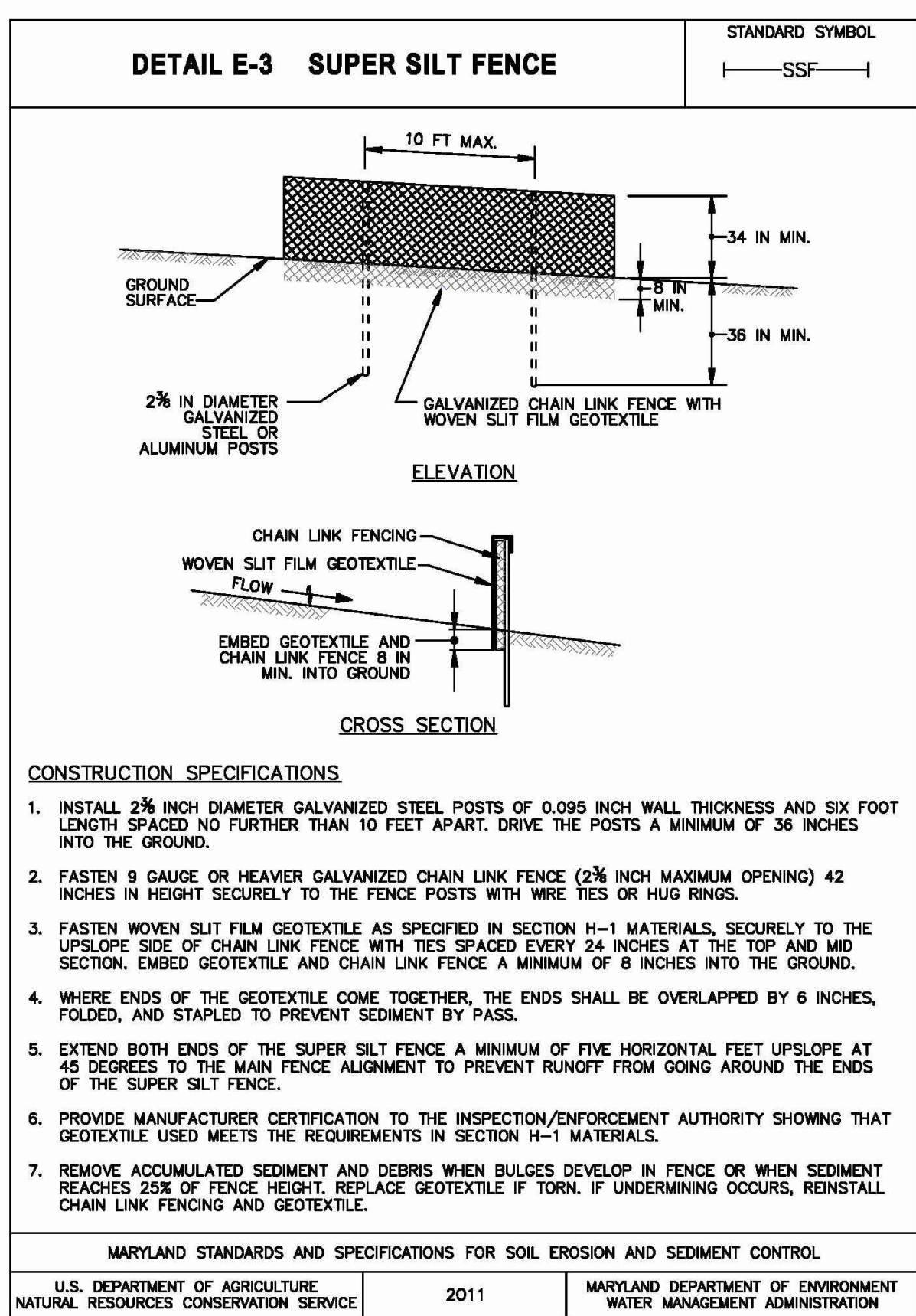
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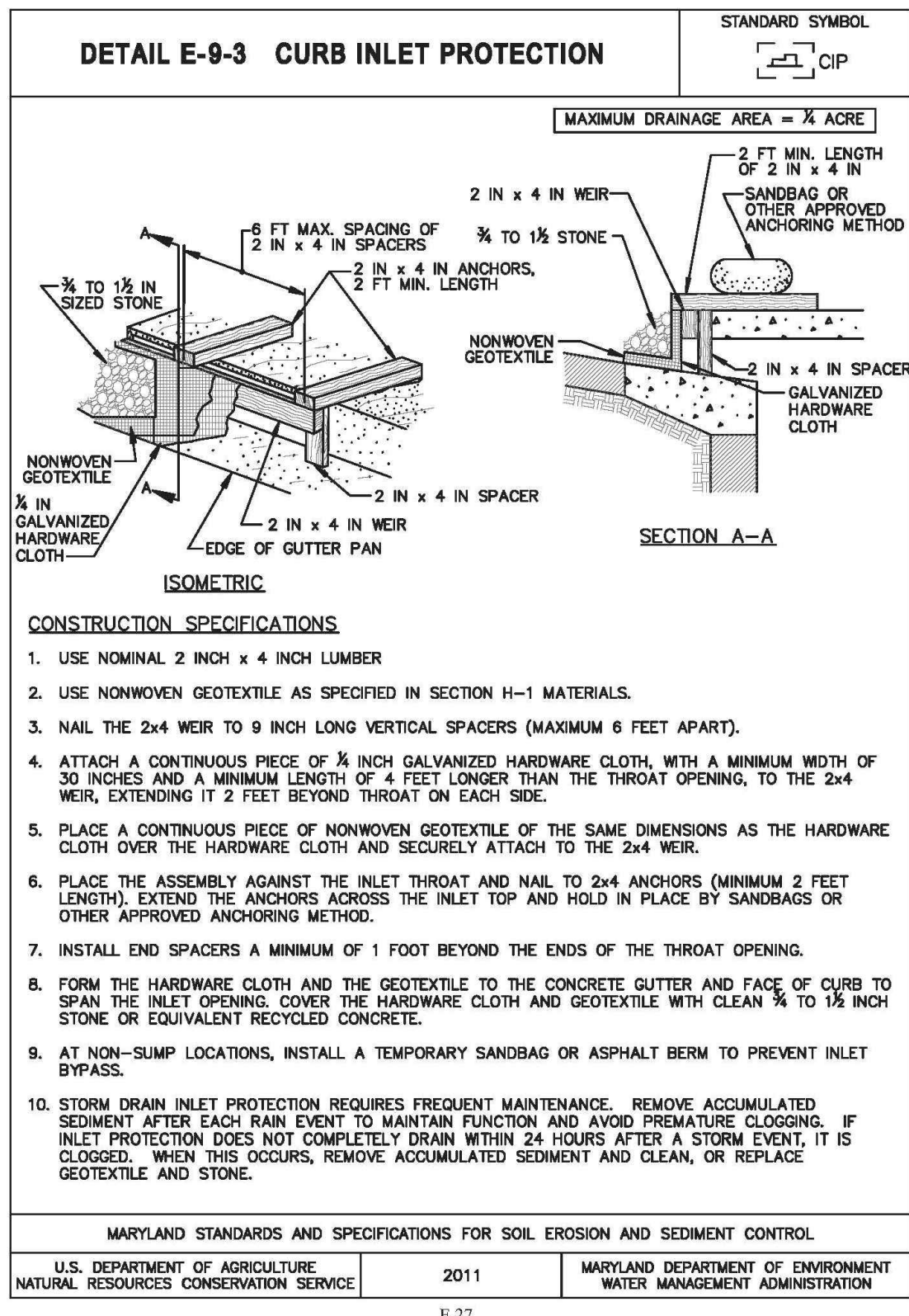
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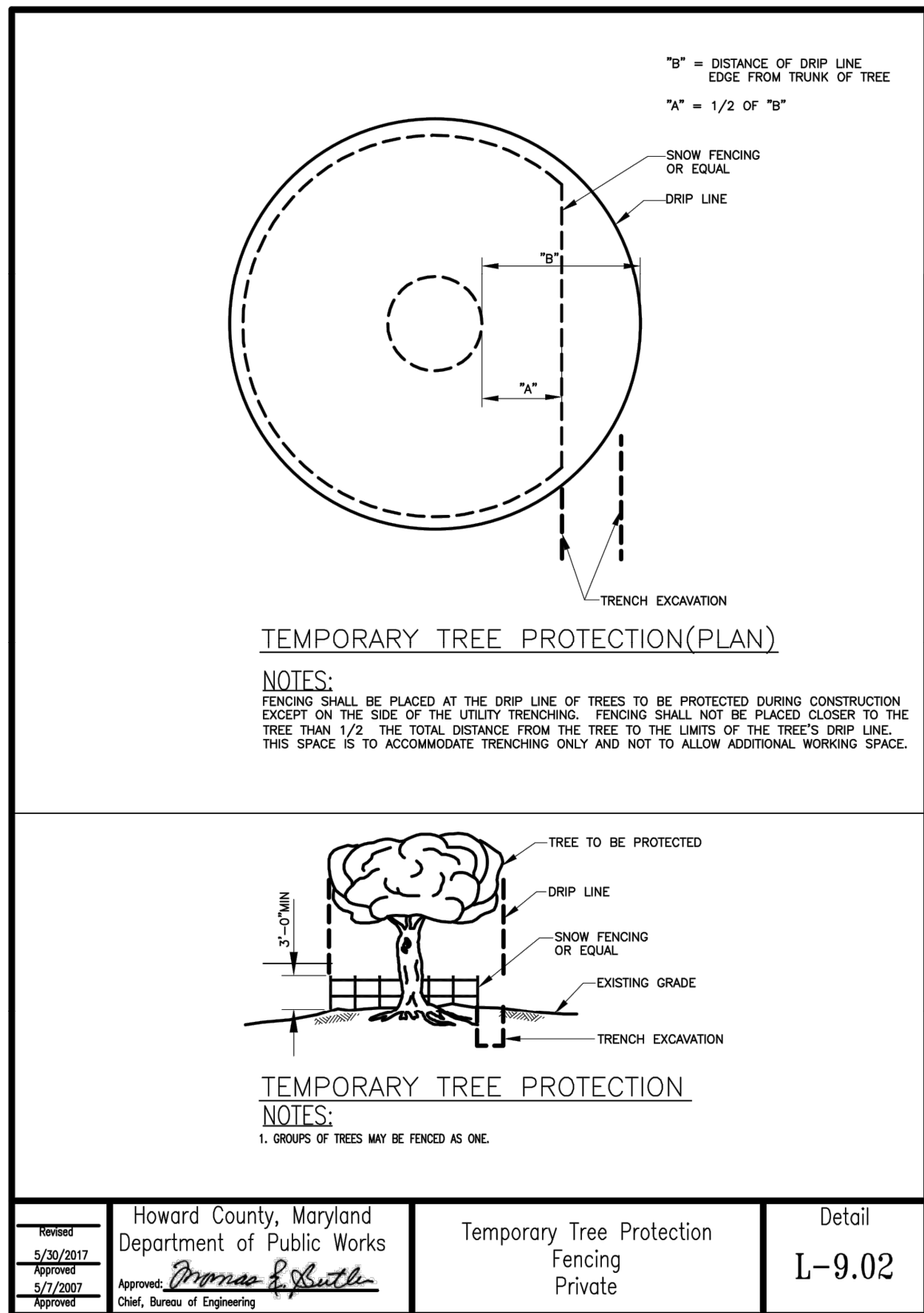
B.2



E.7



E.27



STOCKPILE AREA

DEFINITION: A MOUND OR PILE OF SOIL PROTECTED BY APPROPRIATELY DESIGNED EROSION AND SEDIMENT CONTROL MEASURES. PURPOSE: TO PROVIDE A DESIGNATED LOCATION FOR THE TEMPORARY STORAGE OF SOIL THAT CONTROLS THE POTENTIAL FOR EROSION, SEDIMENTATION, AND CHANGED TO DRAINAGE PATTERNS.

PRACTICE APPLIED: STOCKPILE AREAS ARE UTILIZED WHEN IT IS NECESSARY TO SALVAGE AND STORE SOIL FOR LATER USE.

- THE STOCKPILE LOCATION AND ALL RELATED SEDIMENT CONTROL PRACTICES MUST BE CLEARLY INDICATED ON THE EROSION AND SEDIMENT CONTROL PLAN.
- THE FOOTPRINT OF THE STOCKPILE MUST BE SIZED TO ACCOMMODATE THE ANTICIPATED VOLUME OF MATERIAL AND BASED ON A SIDE SLOPE RATIO NO STEEPER THAN 2:1. BENCHING MUST BE PROVIDED IN ACCORDANCE WITH SECTION B-3 LAND GRADING.
- RUNOFF FROM THE STOCKPILE AREA MUST DRAIN TO A SUITABLE SEDIMENT CONTROL PRACTICE.
- ACCESS THE STOCKPILE AREA FROM THE UPGRADE SIDE.
- CLEAR WATER RUNOFF INTO THE STOCKPILE AREA MUST BE MINIMIZED BY USE OF DIVERSION DEVICE SUCH AS AN EARTH DIKE, TEMPORARY SWALE OR DIVERSION FENCE. PROVISIONS MUST BE MADE FOR DISCHARGE CONCENTRATED FLOW IN A NON-EROSIVE MANNER.
- WHERE RUNOFF CONCENTRATES ALONG THE TOE OF THE STOCKPILE FILL, AS APPROPRIATE EROSION/SEDIMENT CONTROL PRACTICE MUST BE USED TO INTERCEPT THE DISCHARGE.
- STOCKPILES MUST BE STABILIZED IN ACCORDANCE WITH THE 3/7 DAY STABILIZATION REQUIREMENT AS WELL AS STANDARD B-4-1 INCREMENTAL STABILIZATION AND STANDARD B-4-4 TEMPORARY STABILIZATION.
- IF STOCKPILE IS LOCATED ON AN IMPERVIOUS SURFACE, A LINER SHOULD BE PROVIDED BELOW THE STOCKPILE TO FACILITATE CLEANUP. STOCKPILES CONTAINING CONTAMINATED MATERIAL MUST BE COVERED WITH IMPERMEABLE SHEETING.

MAINTENANCE: THE STOCKPILE AREA MUST CONTINUOUSLY MEET THE REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT IN ACCORDANCE WITH SECTION B-4 VEGETATIVE STABILIZATION. SIDE SLOPES MUST BE MAINTAINED AT NO STEEPER THAN A 2:1 RATIO. THE STOCKPILE AREA MUST BE KEPT FREE OF EROSION. IF THE VERTICAL HEIGHT OF A STOCKPILE EXCEEDS 20 FEET FOR A 2:1 SLOPES, 30 FEET FOR 3:1 SLOPES, OR 40 FEET FOR 4:1 SLOPES, BENCHING MUST BE PROVIDED IN ACCORDANCE WITH SECTION B-3 LAND GRADING.

DIVERSION FENCE

DEFINITION: A TEMPORARY BARRIER OF IMPERMEABLE SHEETING OVER CHAIN LINK FENCE LOCATED IN SUCH A MANNER TO DIRECT WATER TO A DESIRED LOCATION.

PURPOSE: TO DIRECT SEDIMENT-LADEN RUNOFF TO A SEDIMENT TRAPPING PRACTICE, OR TO INTERCEPT AND DIVERT CLEAR WATER AWAY FROM DISTURBED AREAS.

PRACTICE APPLIED: CONSTRUCTED ALONG THE LIMIT OF DISTURBANCE (LOD) OR ACROSS DISTURBED AREAS, A DIVERSION FENCE IS USED WHEN THERE IS INSUFFICIENT SPACE TO CONSTRUCT AN EARTH DIKE, TEMPORARY SWALE, OR PERIMETER TRAPPING DIKE SWALE.

- TO DIVERT SEDIMENT-LADEN RUNOFF FROM A DISTURBED AREA TO A SEDIMENT TRAPPING PRACTICE.
- TO SEGMENT DRAINAGE AREAS FOR REDUCING ACREAGE TO SEDIMENT CONTROL PRACTICES.
- TO DIVERT CLEAR WATER FROM AN UNDISTURBED AREA TO A STABLE OUTLET AT NON-EROSIVE VELOCITIES.

DESIGN CRITERIA:

- THE MAXIMUM SLOPE ALONG FENCE IS 10 PERCENT.
 - THE MAXIMUM DRAINAGE AREA IS 2 ACRES.
 - FOR DRAINAGE AREAS LARGER THAN 2 ACRES, AN ENGINEERING DESIGN MAY BE USED BASED ON THE 2-YEAR FREQUENCY STORM WITH NRCS METHODOLOGIES (I.E., TR-55, TR-20), ASSUMING THE WORST SOIL COVER CONDITIONS TO PREVAIL IN THE CONTRIBUTING DRAINAGE AREA OVER THE LIFE OF THE DIVERSION FENCE.
 - MAINTAIN POSITIVE DRAINAGE ALONG THE ENTIRE LENGTH OF THE DIVERSION FENCE. SPOT ELEVATIONS MUST BE PROVIDED FOR DIVERSION FENCE HAVING LONGITUDINAL SLOPES FLATTER THAN 1%.
 - DISCHARGE VELOCITIES FROM DIVERSION FENCE MUST BE NON-EROSIVE.
 - WHERE DIVERSION FENCE IS USED TO CONVEY RUNOFF FROM DISTURBED AREAS, THE DISCHARGE MUST BE TO A SEDIMENT CONTROL PRACTICE SUITABLE FOR CONCENTRATED FLOW. SILT FENCE AND SUPER SILT FENCE ARE UNACCEPTABLE FOR RECEIVING DISCHARGES FROM DIVERSION FENCE.
 - WHERE DIVERSION FENCE IS USED TO CONVEY CLEAR WATER RUNOFF, THE DISCHARGE MUST BE TO AN UNDISTURBED, STABLE AREA AT A NON-EROSIVE VELOCITY (4 FPS); OTHERWISE, PROVIDE OUTLET PROTECTION.
 - WHEN DIVERSION FENCE IS USED IN CONJUNCTION WITH A SEDIMENT TRAPPING DEVICE, SEQUENCE CONSTRUCTION SO THAT THE DIVERSION FENCE INSTALLATIONS FOLLOWS COMPLETION OF THE SEDIMENT TRAPPING DEVICE(S).
- MAINTENANCE: THE FLOW SURFACE ALONG THE DIVERSION FENCE AND AT THE POINT OF DISCHARGE MUST BE KEPT FREE OF EROSION. ACCUMULATED SEDIMENT AND DEBRIS MUST BE REMOVED AND POSITIVE DRAINAGE MAINTAINED. IMPERMEABLE SHEETING MUST BE REPLACED IF TORN. IF UNDERMINING OCCURS, REINSTALL FENCE.

Chief, Development Engineering Division

Date

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF [STATE].

LICENSE NO. 35022

EXPIRATION DATE: 12/28/2021.



REUSE OF DOCUMENTS

ALL DRAWINGS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THIS PROJECT. REUSE OR ALTERATION IS AT THE USER'S SOLE RISK.

DSGN	SD				
DR	RB				
CHK	AO				
APVD	MRAB	NO.	DATE	REVISION	BY

TOOLE
DESIGN

8484 GEORGIA AVENUE, SUITE 800
SILVER SPRING, MD 20910
PHONE: 301.927.1900
FAX: 301.927.2800
www.tooledesign.com

NORTH LAUREL CONNECTIONS
HOWARD COUNTY, MD

GENERAL

EROSION AND SEDIMENT CONTROL DETAILS

PROJECT NO.

5409.05

DATE

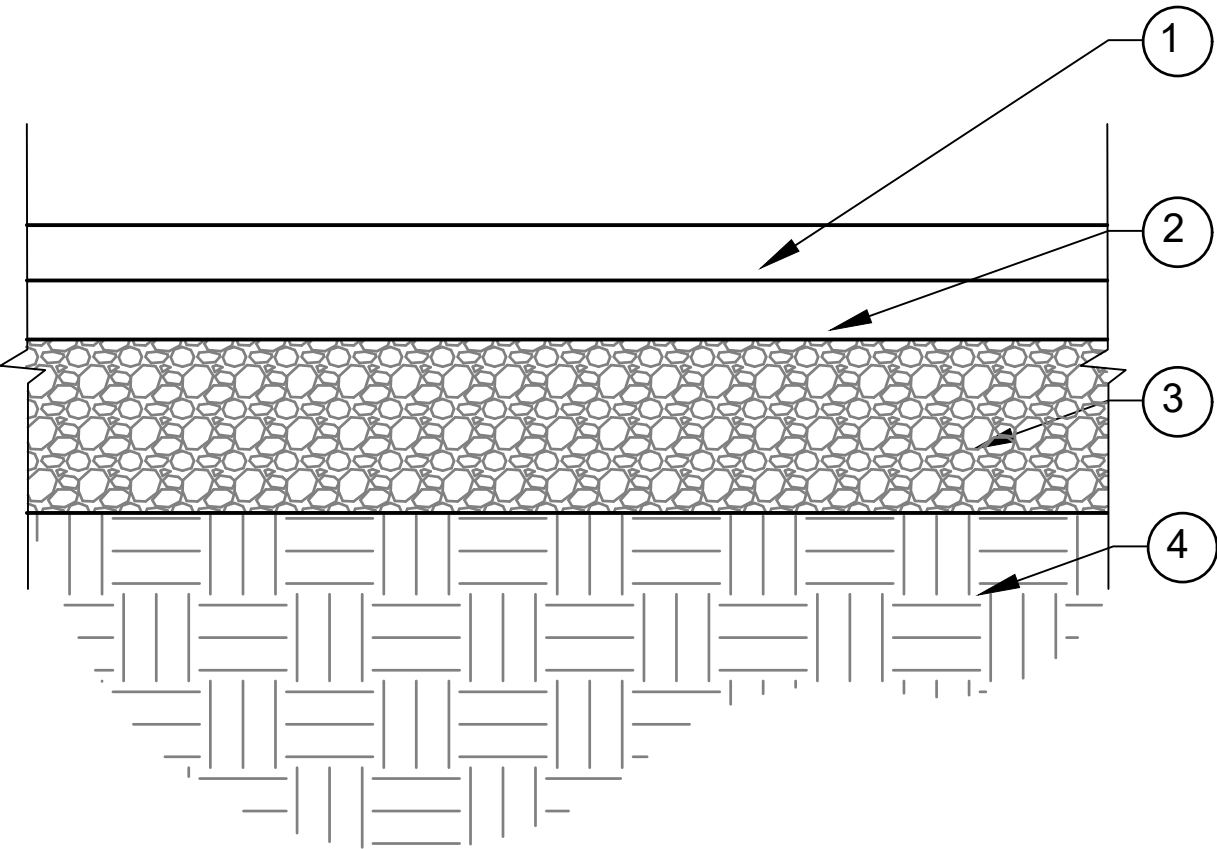
12-18-2020

DRAWING NO.

C5.3

SHEET NO.

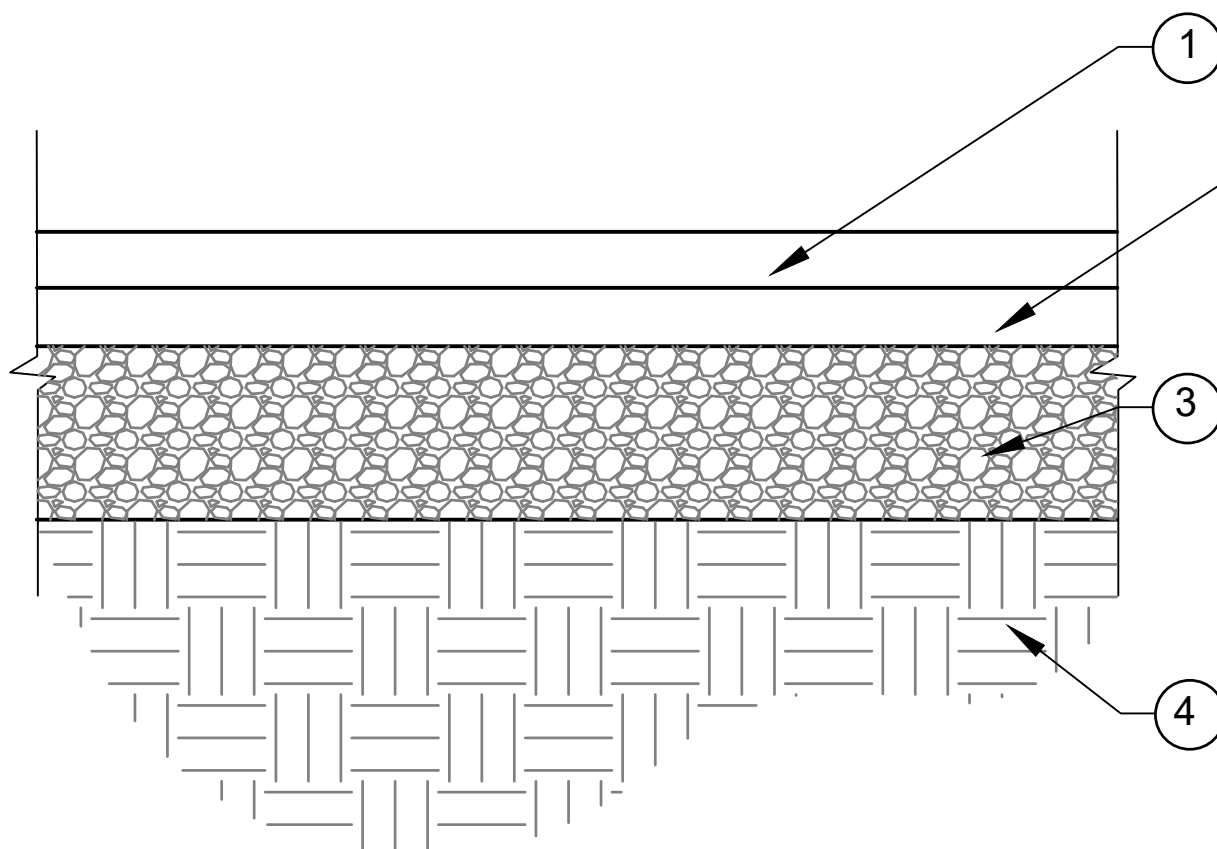
33 of 34



- ① 1.5" ASPHALT SUPERPAVE SURFACE COURSE 9.5MM
② 2.5" ASPHALT SUPERPAVE BASE COURSE 12.5 MM
③ 6" COMPACTED AGGREGATE BASE
④ COMPACTED SOIL SUBGRADE

MEDIUM-DUTY ASPHALT PAVEMENT

NTS

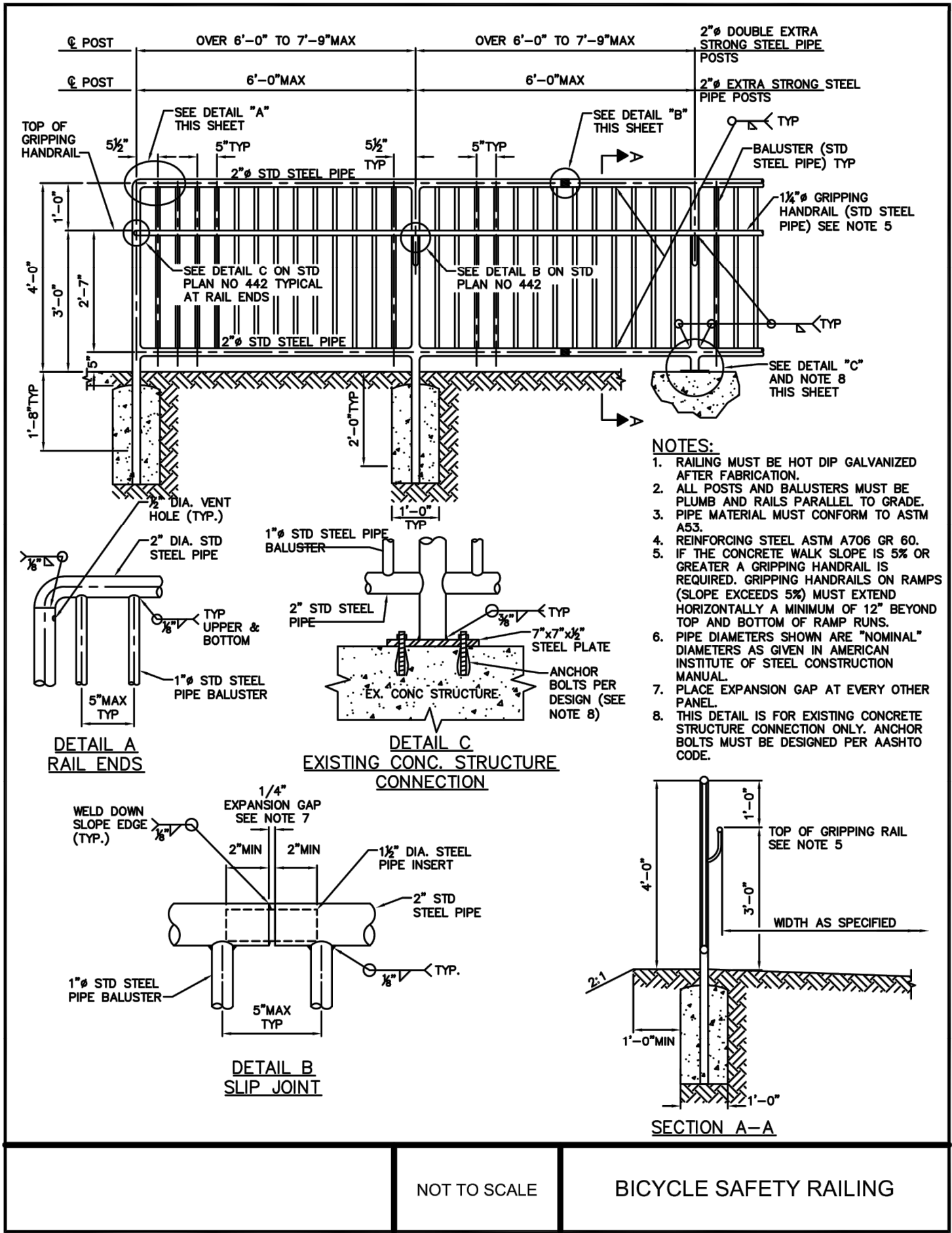


- ① 2" SM-9.5A SURFACE
② 3" BM-25.0 BASE
③ 6" AGGREGATE
④ COMPACTED SOIL SUBGRADE

NOTES:
1. PAVEMENT THICKNESS AS SHOWN, OR TO MATCH EXISTING, WHICHEVER IS GREATER.

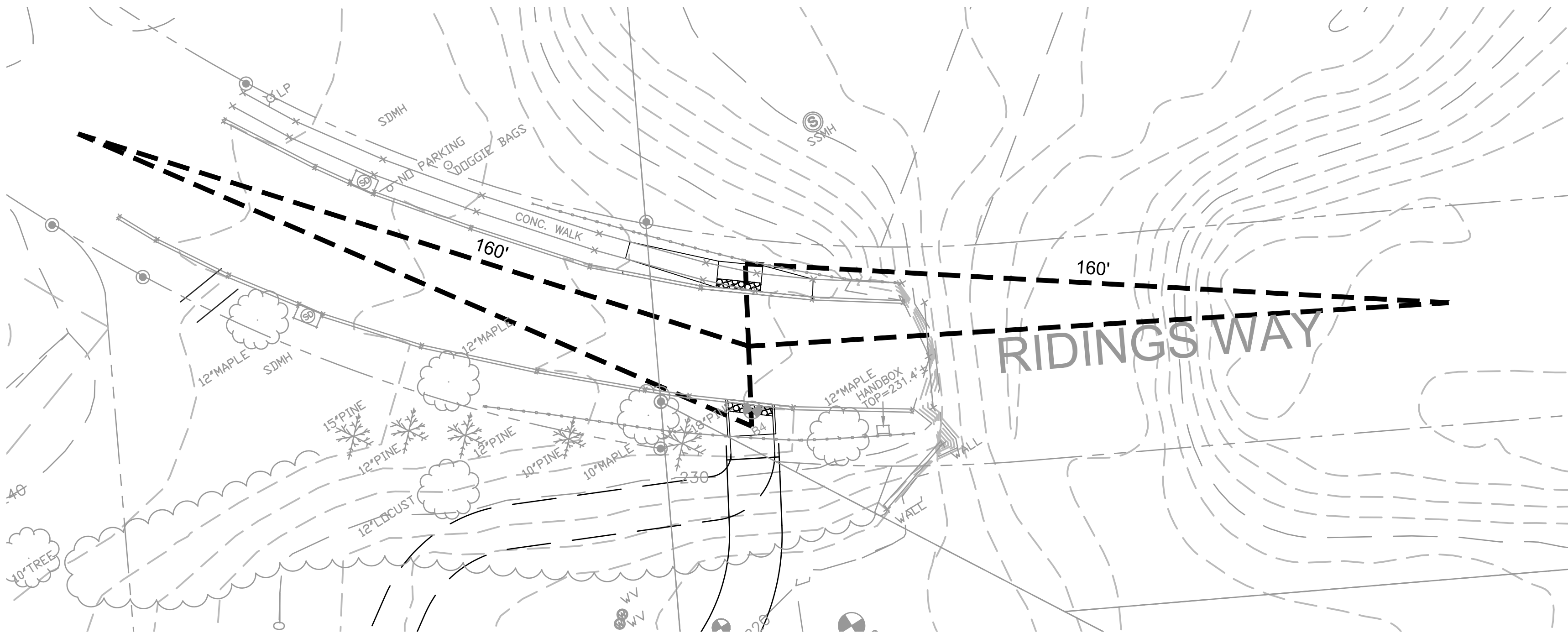
FULL DEPTH PAVEMENT REPAIR

NTS



BICYCLE SAFETY RAILING

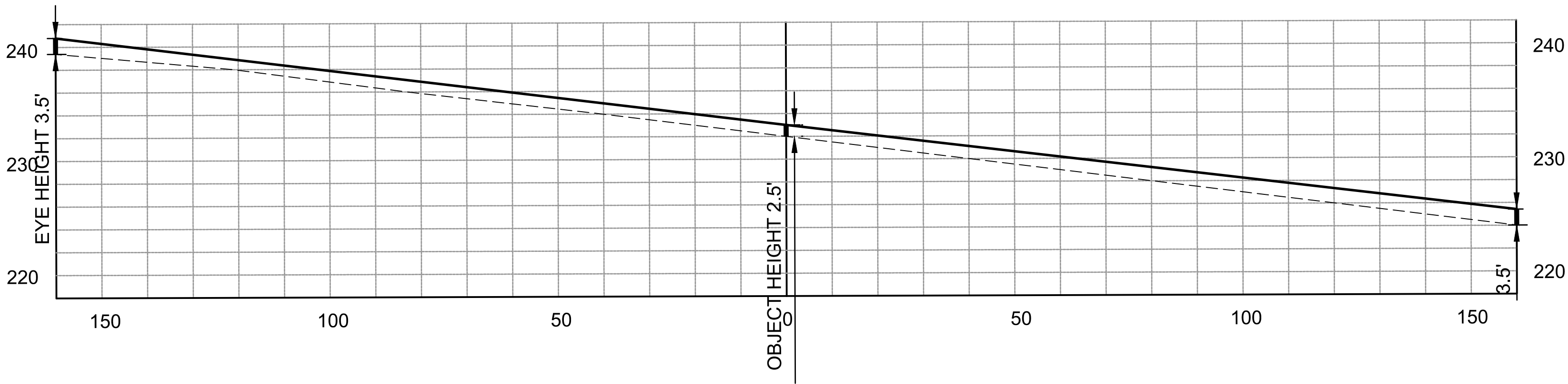
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SIGHT DISTANCE FROM BGE TRAIL AT RIDINGS WAY PLAN VIEW

NTS

NOTES:
1. SIGHT DISTANCE STUDY IS BASED ON 25 MPH DESIGN SPEED.



SIGHT DISTANCE FROM BGE TRAIL AT RIDINGS WAY PROFILE

NTS

NOTES:
1. SIGHT DISTANCE STUDY IS BASED ON 25 MPH DESIGN SPEED.

APPROVED
PLANNING BOARD OF HOWARD COUNTY
Date: _____
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
Director _____ Date _____
Chief, Division of Land Development _____ Date _____
Chief, Development Engineering Division _____ Date _____

PROFESSIONAL CERTIFICATION		REUSE OF DOCUMENTS	
I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF [STATE]. LICENSE NO. 35022 EXPIRATION DATE: 12/28/2021.		ALL DRAWINGS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THIS PROJECT. REUSE OR ALTERATION IS AT THE USER'S SOLE RISK.	
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NORTH LAUREL CONNECTIONS
HOWARD COUNTY, MD

STANDARD DETAILS
AND SIGHT DISTANCE ALONG
RIDINGS WAY

PROJECT NO.	5409.05
DATE	12-18-2020
DRAWING NO.	C5.4
SHEET NO.	34 of 34