

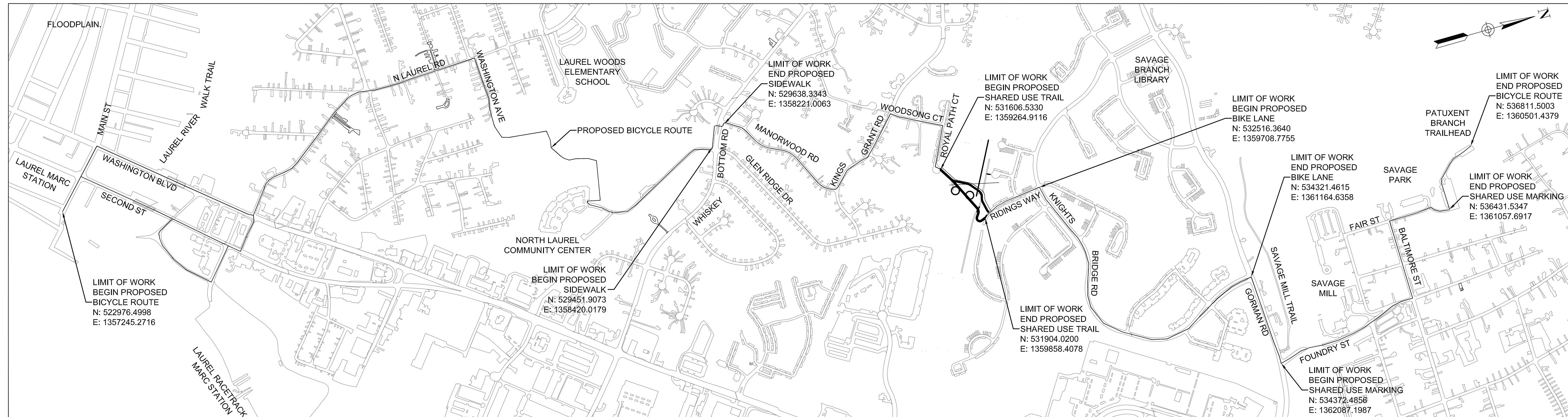
NORTH LAUREL CONNECTIONS

SITE DEVELOPMENT PLAN SDP-XX-XXX

HOWARD COUNTY, MARYLAND

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST HOWARD COUNTY AND MD-SHA STANDARDS AND SPECIFICATIONS AS APPLICABLE.
- 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.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION.
- TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MARYLAND MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MDMUTCD).
- ALL PLAN DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
- THE EXISTING TOPOGRAPHY IS TAKEN FROM PUBLICLY AVAILABLE GIS WITH 2' CONTOUR INTERVALS.
- ALL PROPOSED IMPROVEMENTS SHALL COMPLY WITH ALL APPLICABLE HOWARD COUNTY, ASHTO, MD-MUTCD REQUIREMENTS AND THE US ACCESS BOARD SHARED-USE PATH ACCESSIBILITY GUIDELINES PROPOSED RULE MAKING (3/2010).
- 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.
- NO TRAFFIC, SIGHT DISTANCE, SOILS INVESTIGATION OR NOISE STUDIES HAVE BEEN PERFORMED AS A PART OF THE PRELIMINARY DESIGN OF THIS PROJECT.
- NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND NEW STRUCTURES SHALL BE PERMITTED WITHIN THE REQUIRED WETLANDS, STREAM(S) OR THEIR BUFFERS, AND 100 YEAR



SHEET INDEX

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- C1.2: CONSTRUCTION DETAILS
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- C3.1 - C3.8: PAVEMENT MARKING PLAN

LOCATION MAP

SCALE 1" = 600'

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	KEITH & THERESA THORBURN	LOT 22 .328 AR / 9513 MELLOW CT WHISKEY BOTTOM N	01510	00625	0047	0022	0928	22	TEMPORARY FOR CONSTRUCTION MAY BE NEEDED
12	R-SC	1406526896	HOWARD COUNTY MD	LOT 25 .5077 A OPS / 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	YES
25	R-SC	1406391893	BALTIMORE GAS & ELECTRIC CO	.83981 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)

NORTH LAUREL CONNECTIONS

PROPOSED BIKE ROUTE

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.
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 HANHOLES 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.

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	1-800-672-1281
QUEST GOVERNMENT SERVICES	1-800-388-6460
SPRINT	1-800-521-0579
YIPES COMMUNICATIONS, INC.	1-877-740-6600
XPIEDIUS COMMUNICATIONS	1-800-937-7423
XO COMMUNICATIONS	1-866-295-9696

GRADING, DRAINAGE & PAVEMENT

1. STABLE SUBGRADE SHALL COMPRIZE SOLID, WELL DRAINED, UNDISTURBED EARTH CAPABLE OF SUPPORTING STREET LOADING 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 TRENCH 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 +/- 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 +/- 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 C.B.R. 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 CYCLIST 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 FIELD 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 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: 1% EXCEPT IN SAGS WITH ADEQUATE DRAINAGE
 - MAXIMUM: 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.

C1.1
 DRAWING NUMBER
 SHEET NUMBER

2 of 14

NOT FOR CONSTRUCTION

PREPARED: SPC
 CHECKED: MAB
 DATE
08/16/16

REV 1 -
 REV. 2 -
 REV. 3 -

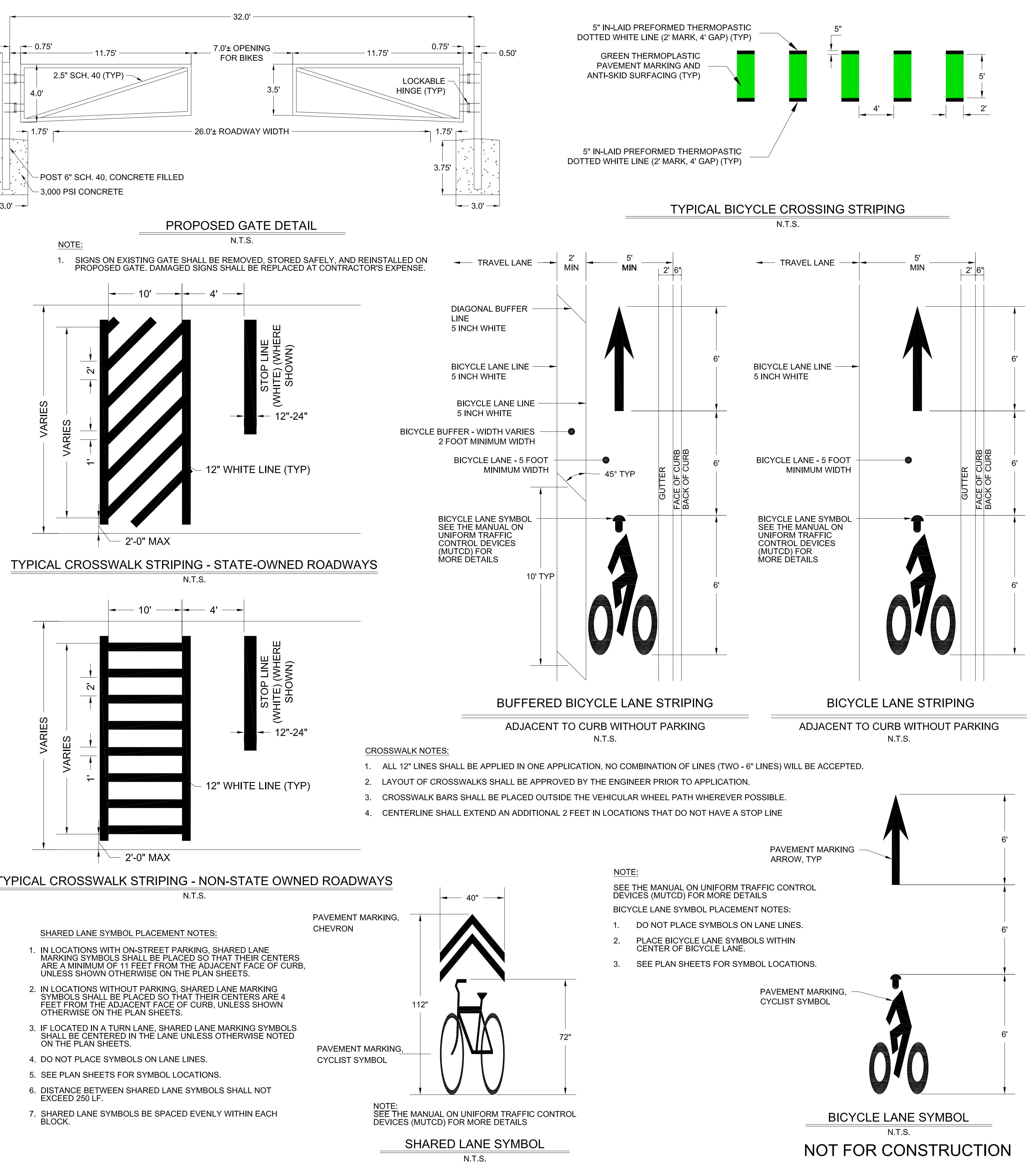
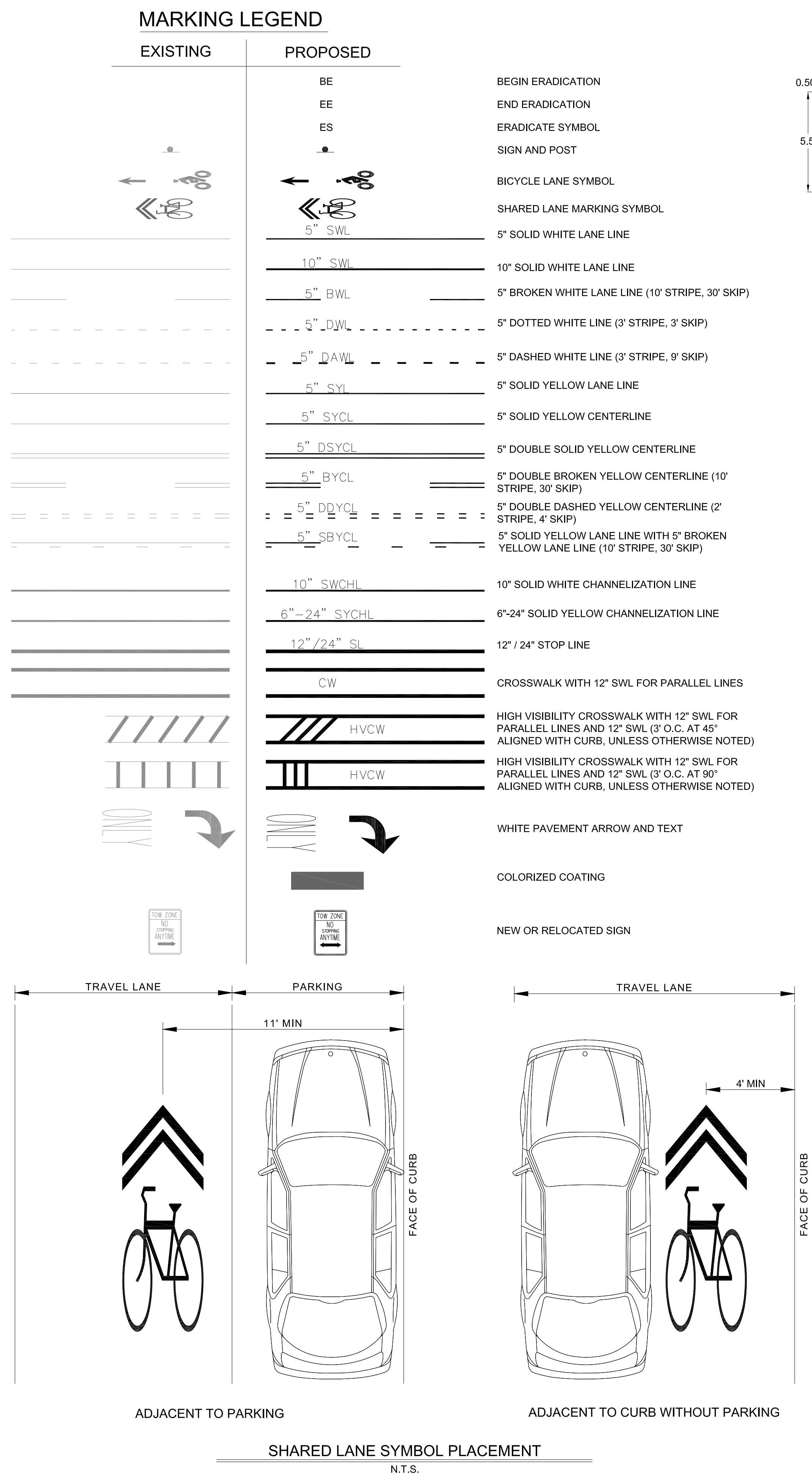
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GENERAL NOTES

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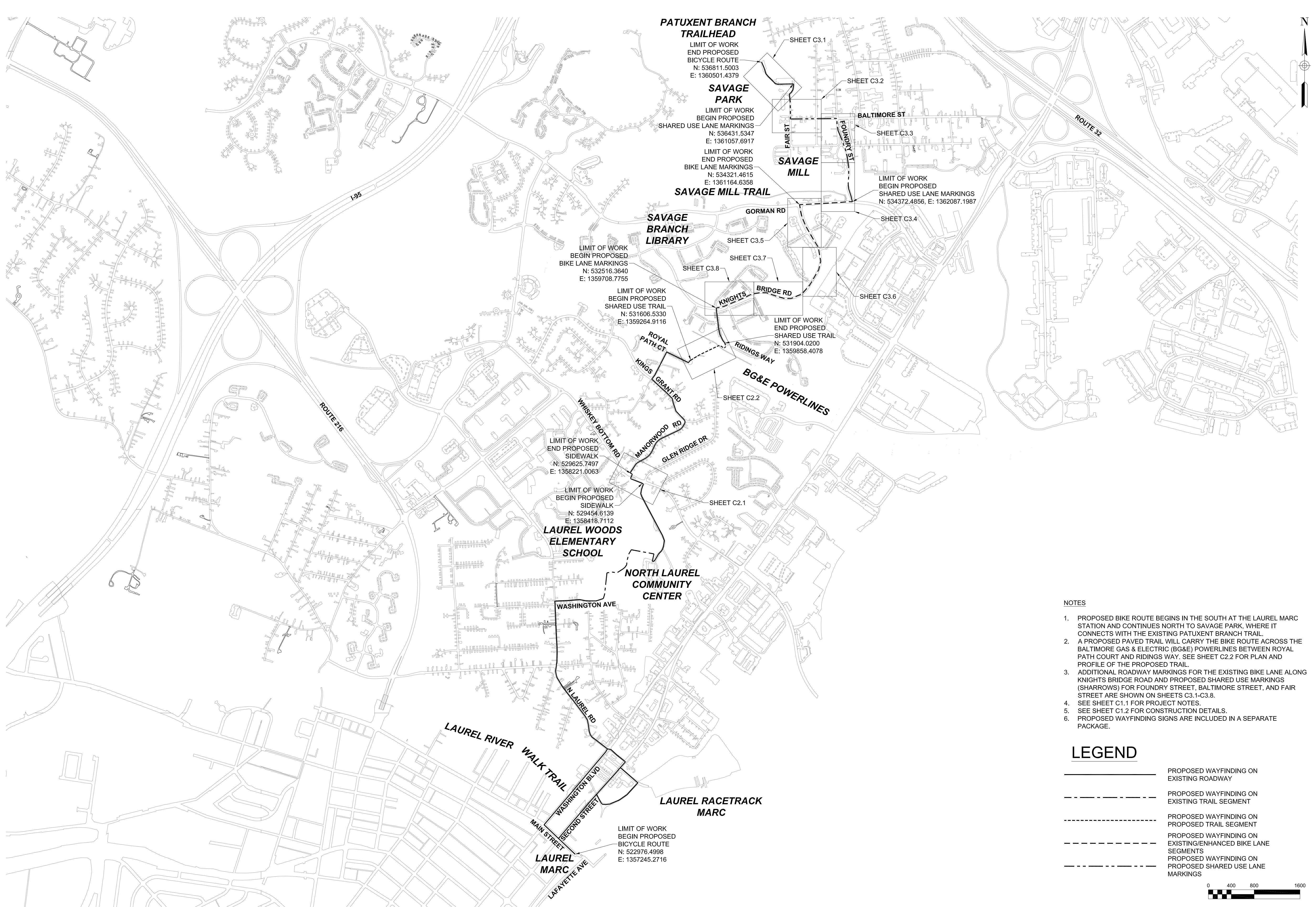
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NORTH LAUREL CONNECTIONS PROPOSED BIKE ROUTE



NORTH LAUREL CONNECTIONS

PROPOSED BIKE ROUTE



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) POWERLINES 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 USE MARKINGS (SHARROWS) FOR FOUNDRY STREET, BALTIMORE STREET, AND FAIR STREET ARE SHOWN ON SHEETS C3.1-C3.8.
4. SEE SHEET C1.1 FOR PROJECT NOTES.
5. SEE SHEET C1.2 FOR CONSTRUCTION DETAILS.
6. PROPOSED WAYFINDING SIGNS ARE INCLUDED IN A SEPARATE PACKAGE.

LEGEND

- PROPOSED WAYFINDING ON EXISTING ROADWAY
- PROPOSED WAYFINDING ON EXISTING TRAIL SEGMENT
- PROPOSED WAYFINDING ON PROPOSED TRAIL SEGMENT
- PROPOSED WAYFINDING ON EXISTING/ENHANCED BIKE LANE SEGMENTS
- PROPOSED WAYFINDING ON PROPOSED SHARED USE LANE MARKINGS

0 400 800 1600

NOT FOR CONSTRUCTION

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08/16/16

REV 1 -
REV. 2 -
REV. 3 -

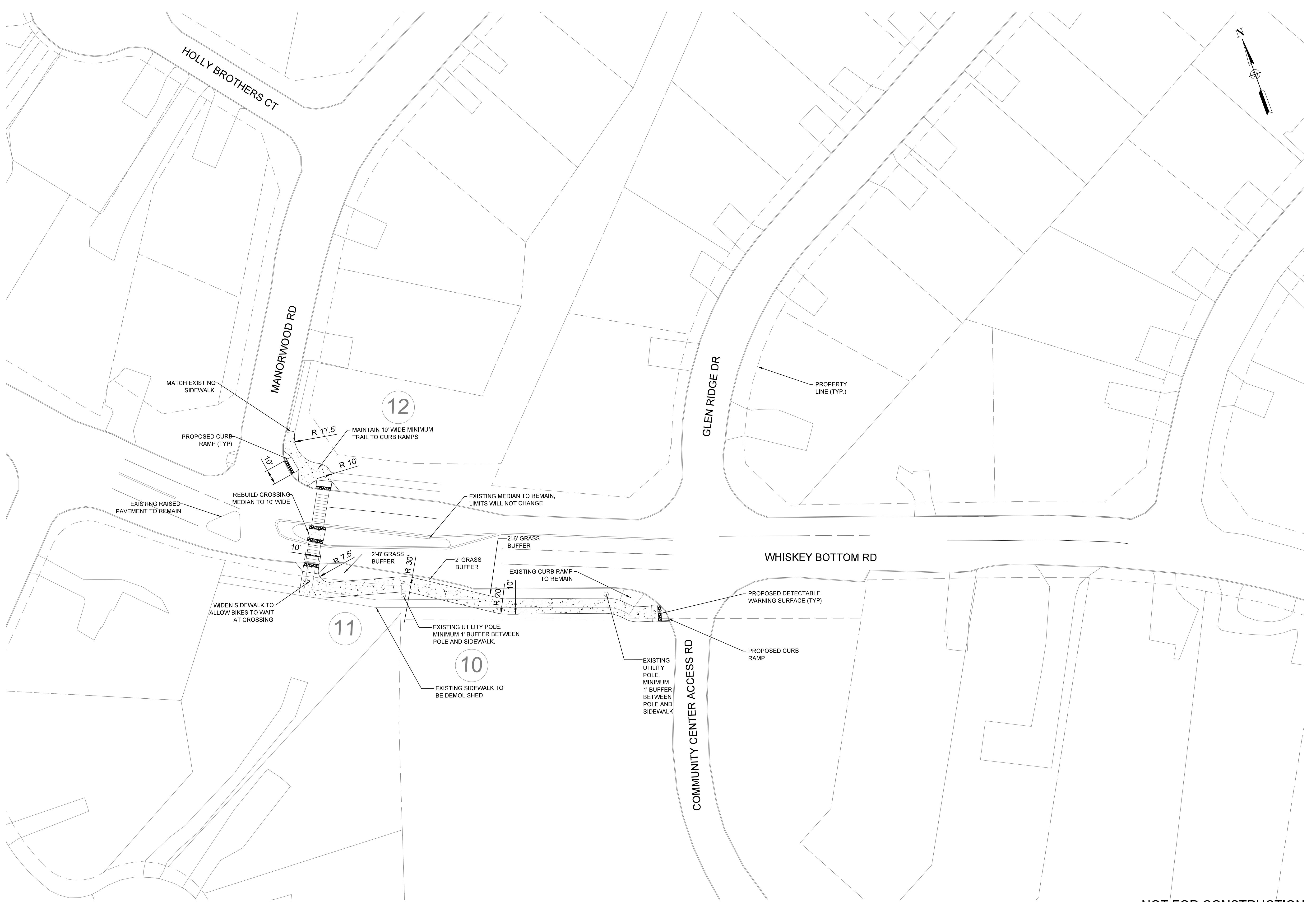
SHEET NAME
OVERALL ROUTE
LAYOUT

DRAWING NUMBER
C1.3

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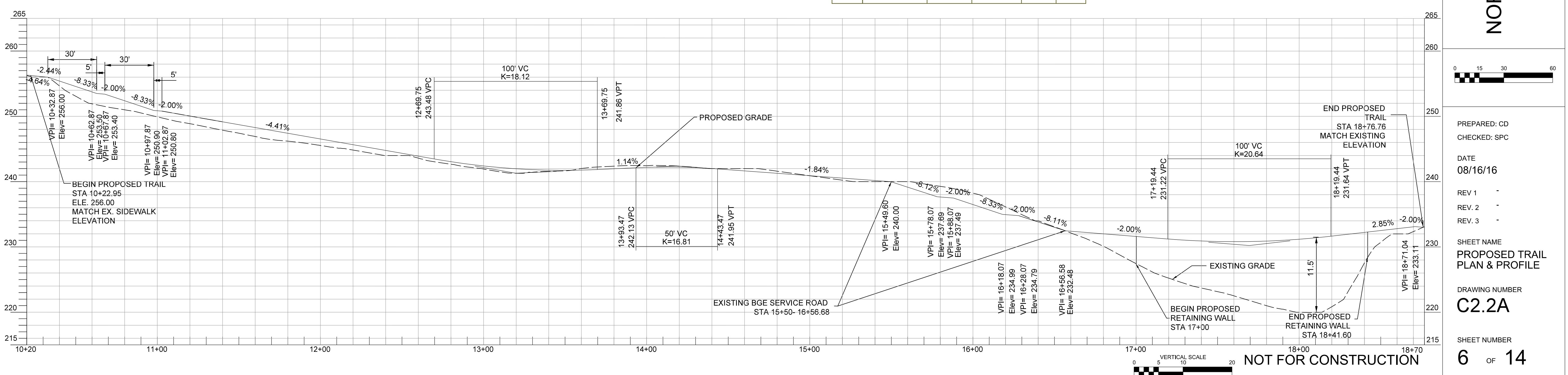
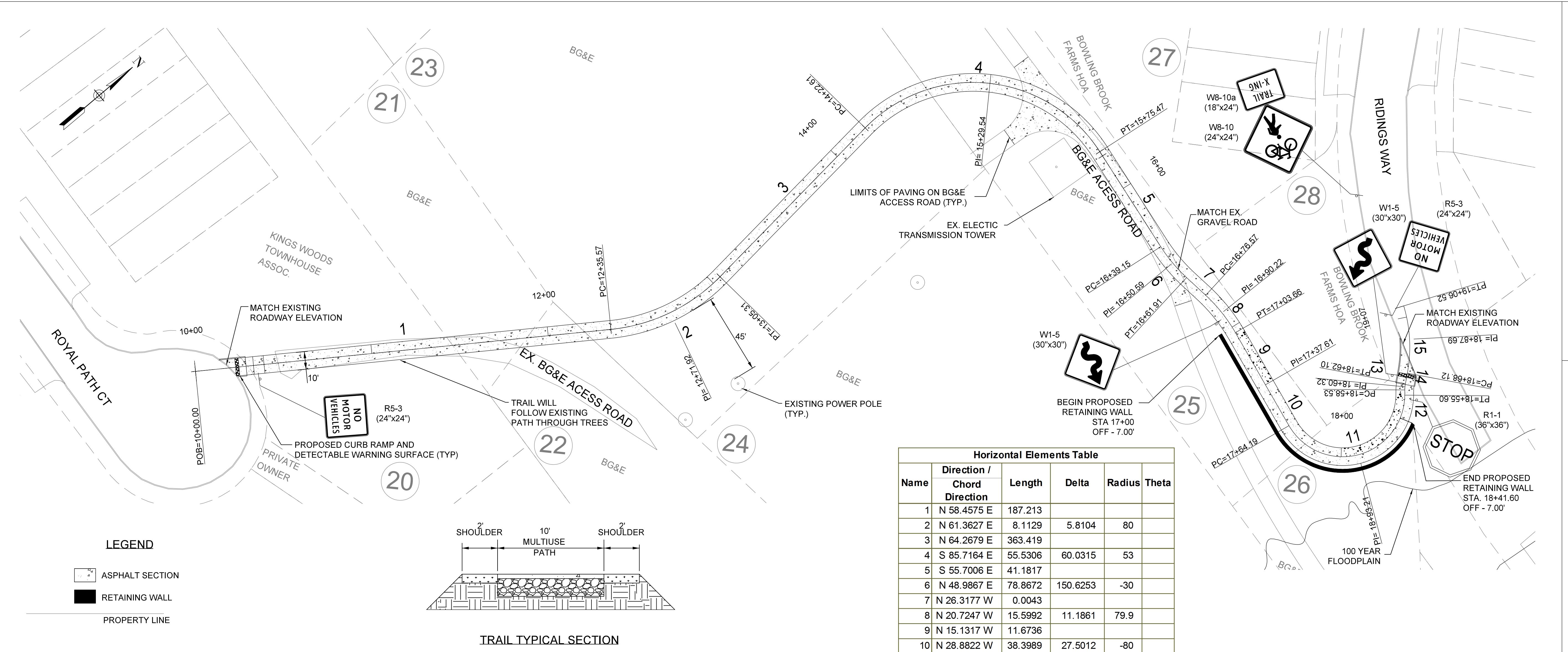
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PROPOSED BIKE ROUTE



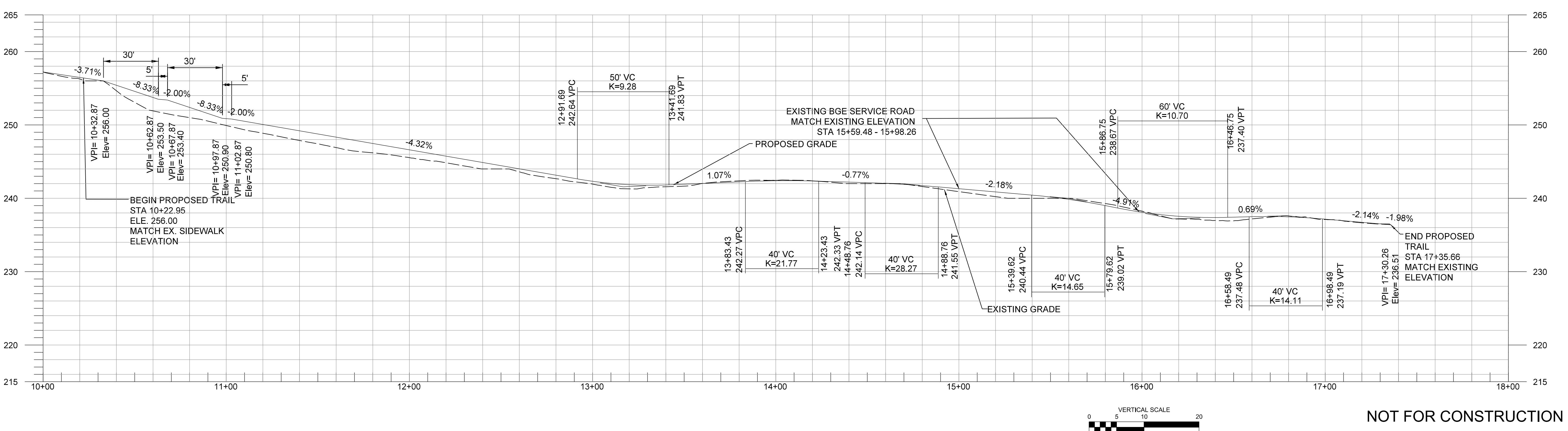
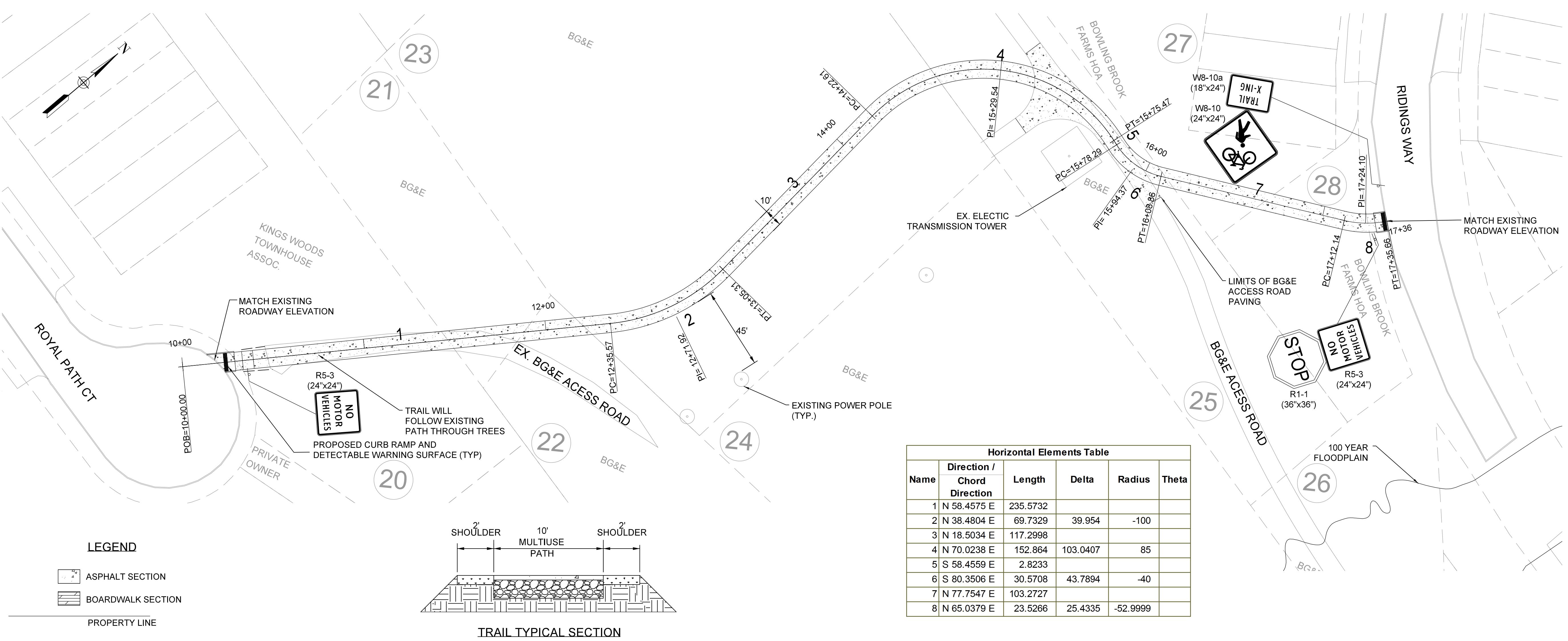
NORTH LAUREL CONNECTIONS

PROPOSED BIKE ROUTE



NORTH LAUREL CONNECTIONS

PROPOSED BIKE ROUTE

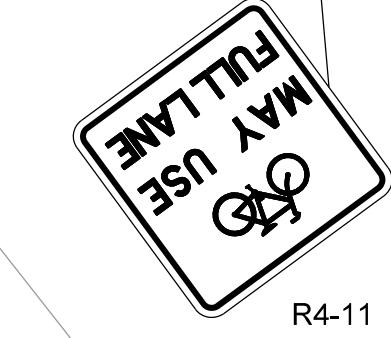


NORTH LAUREL CONNECTIONS
 PROPOSED BIKE ROUTE

PATUXENT BRANCH
 TRAILHEAD

SAVAGE PARK

PROPOSED SHARED LANE
 MARKING (TYP.)
 SEE PAVEMENT MARKING
 DETAIL SHEET



R4-11
 (30" x 30")

MATCHLINE SEE SHEET 8



PREPARED: CD
 CHECKED: SPC

DATE
 08/16/16

REV 1 -
 REV. 2 -
 REV. 3 -

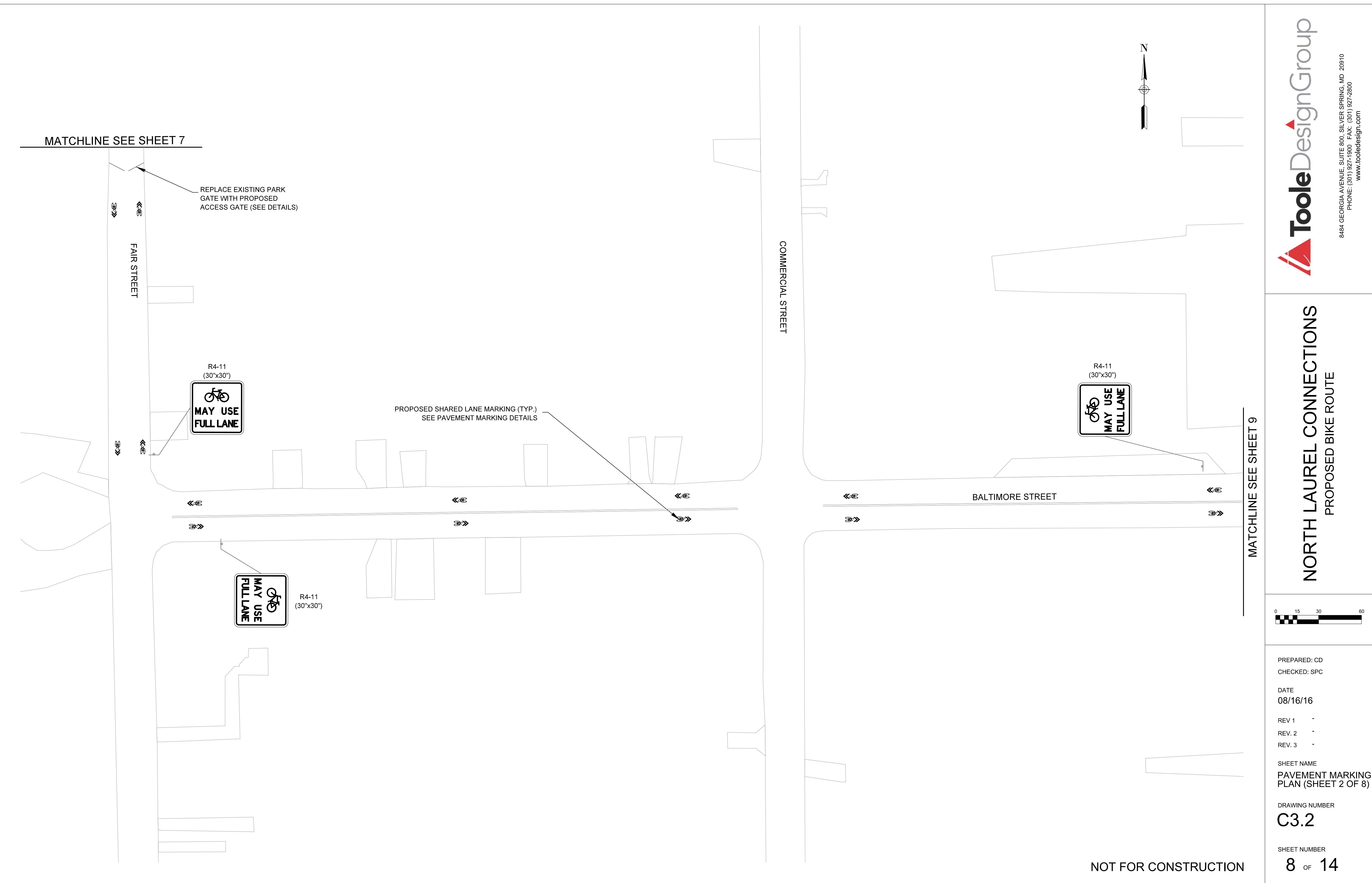
SHEET NAME
 PAVEMENT MARKING
 PLAN (SHEET 1 OF 8)

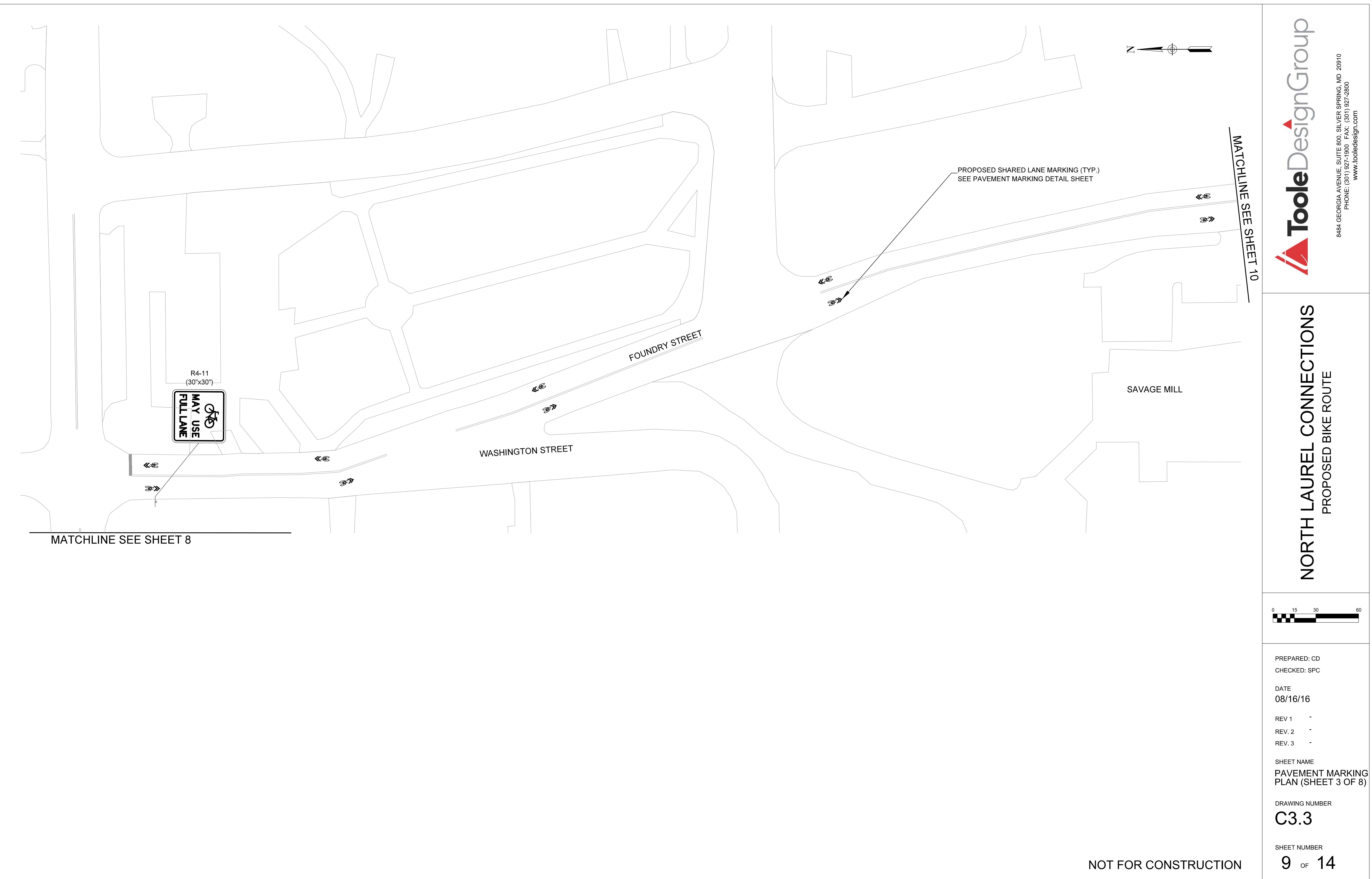
DRAWING NUMBER
 C3.1

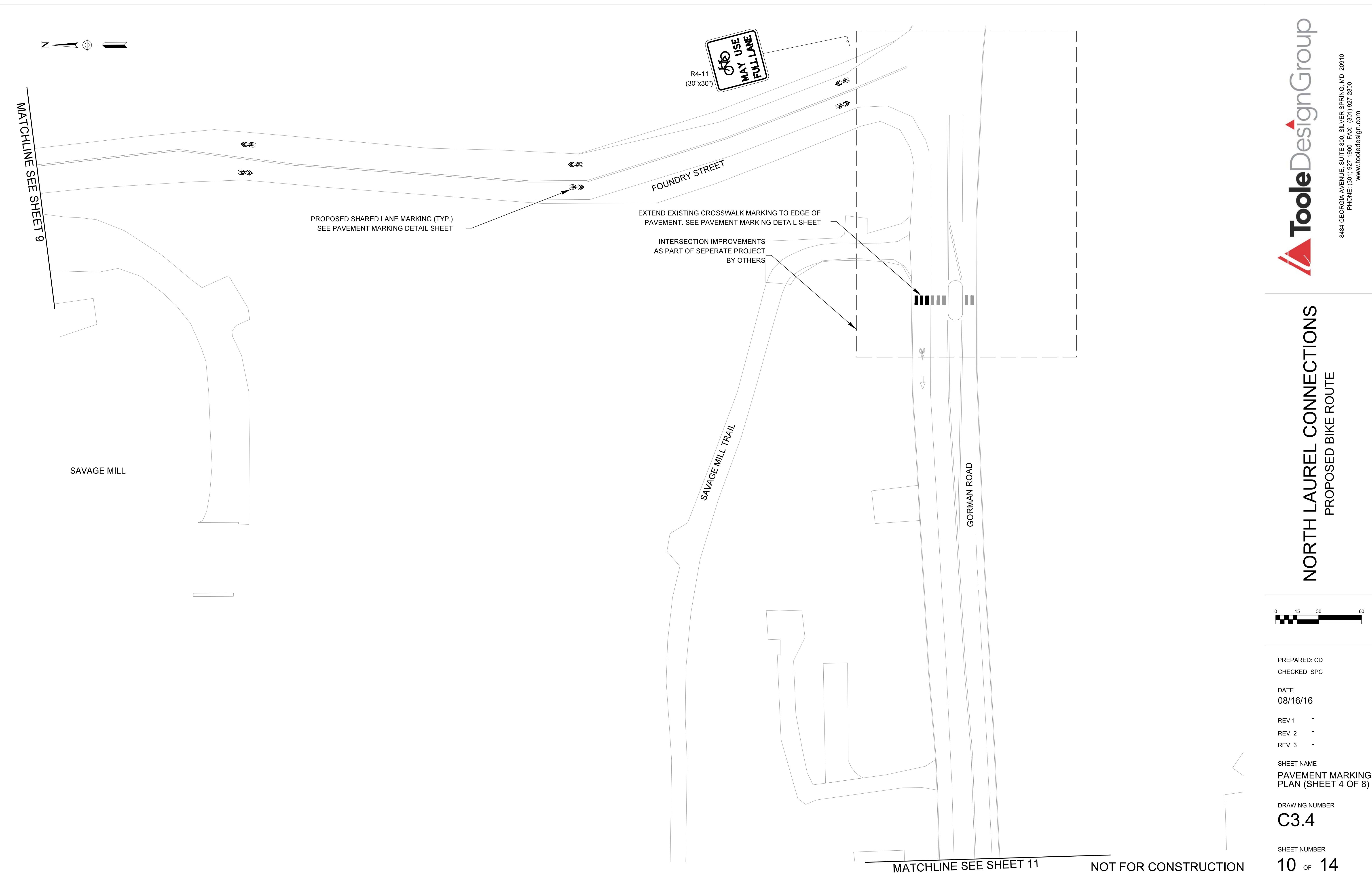
SHEET NUMBER

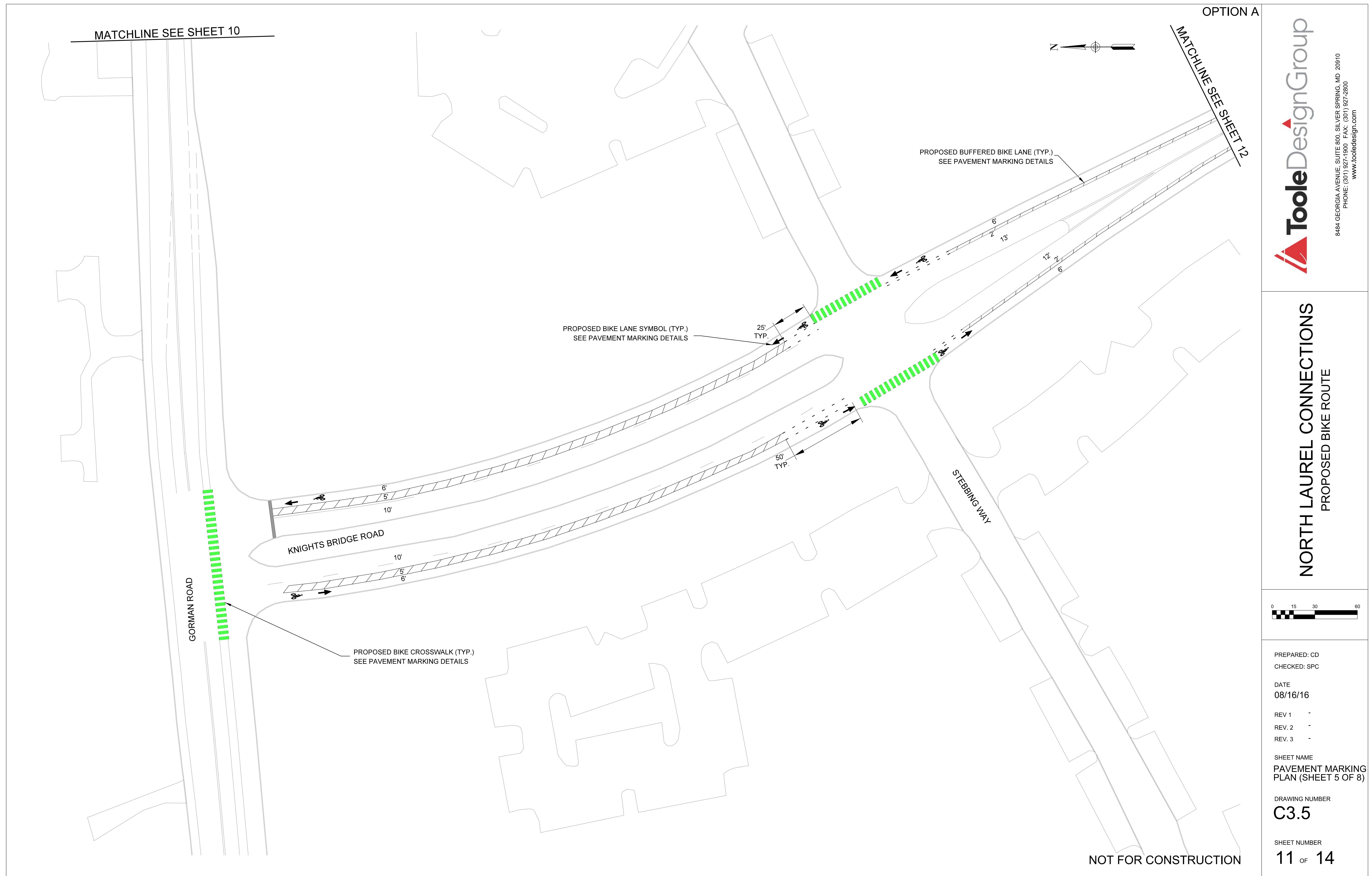
7 OF 14

NOT FOR CONSTRUCTION

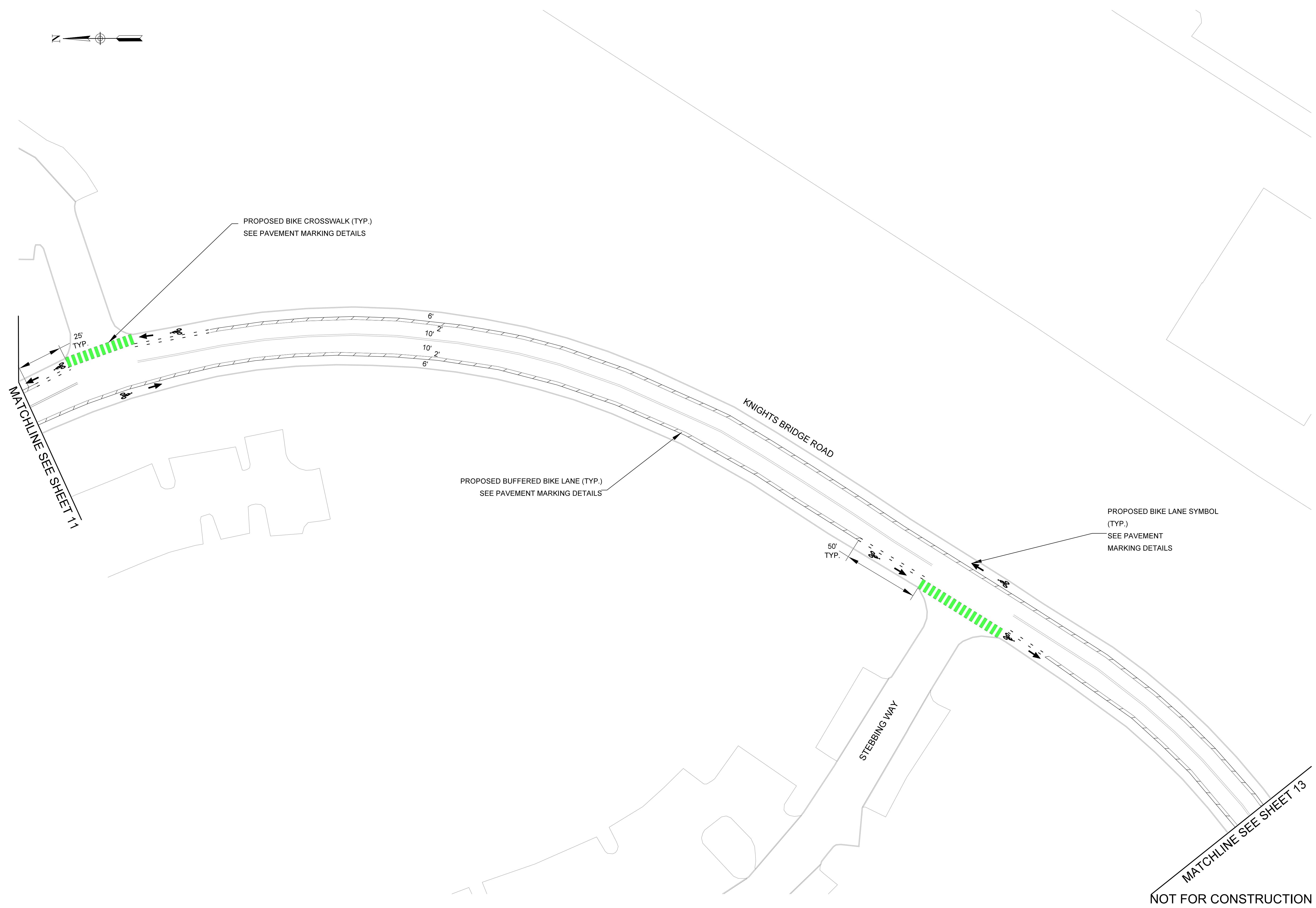








OPTION A



NORTH LAUREL CONNECTIONS
PROPOSED BIKE ROUTE



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PREPARED: CD
CHECKED: SPC

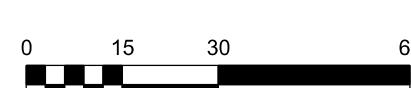
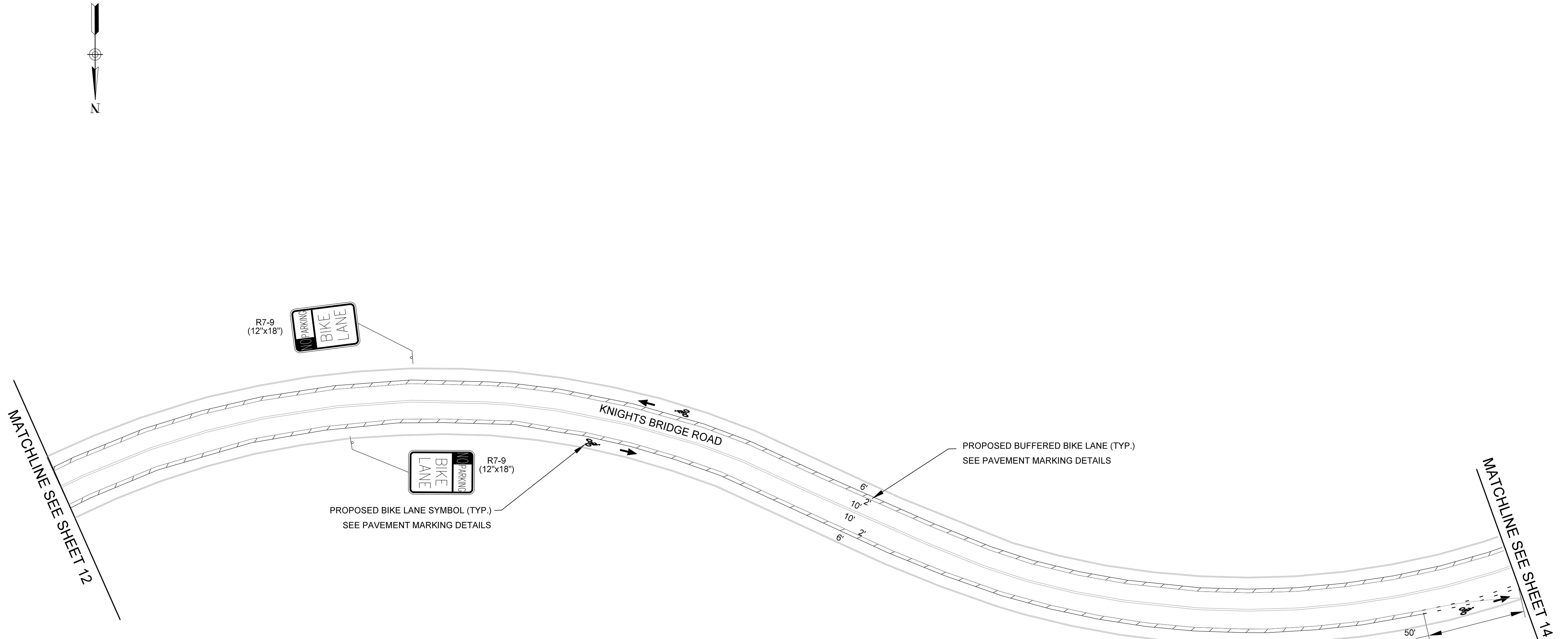
DATE
08/16/16

REV 1 -
REV. 2 -
REV. 3 -

SHEET NAME
PAVEMENT MARKING
PLAN (SHEET 6 OF 8)

DRAWING NUMBER
C3.6

SHEET NUMBER
12 OF 14



PREPARED: CD
CHECKED: SPC

DATE
08/16/16

REV 1 -
REV. 2 -
REV. 3 -

SHEET NAME
PAVEMENT MARKING
PLAN (SHEET 7 OF 8)

DRAWING NUMBER
C3.7

SHEET NUMBER
13 OF 14

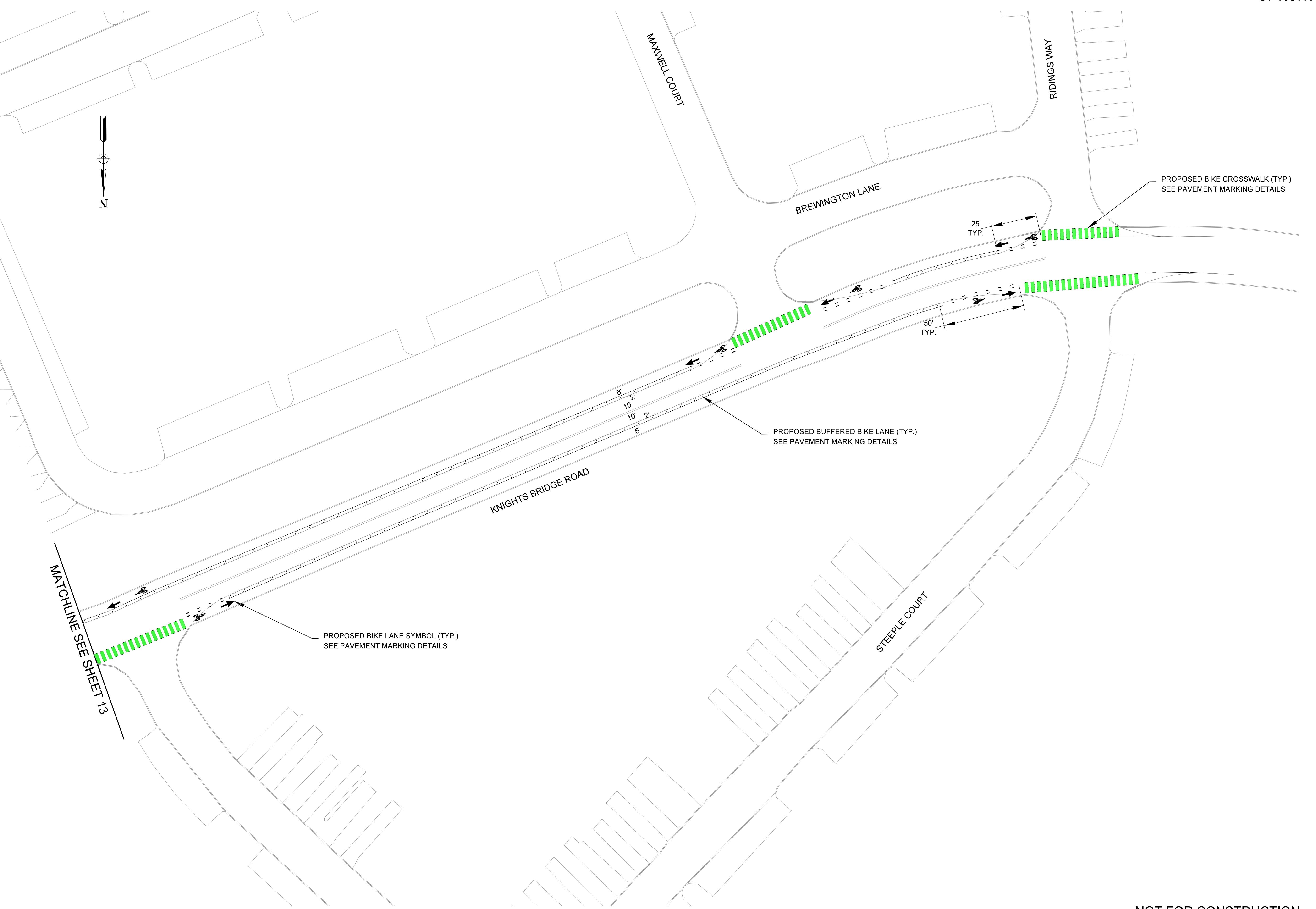
NOT FOR CONSTRUCTION

OPTION A



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NORTH LAUREL CONNECTIONS PROPOSED BIKE ROUTE



PREPARED: CD
CHECKED: SPC

DATE
08/16/16

REV. 1 -
REV. 2 -
REV. 3 -

SHEET NAME

PAVEMENT MARKING
PLAN (SHEET 8 OF 8)

DRAWING NUMBER
C3.8

SHEET NUMBER
14 OF 14

NOT FOR CONSTRUCTION

OPTION B

MATCHLINE SEE SHEET 10

PROPOSED SHARED LANE SYMBOL (TYP.)
SEE PAVEMENT MARKING DETAILS

EXISTING BIKE LANE (TYP.)
PROPOSED BIKE LANE SYMBOL (TYP.)
SEE PAVEMENT MARKING DETAILS

50'
TYP.

25'
TYP.

N

MATCHLINE SEE SHEET 12

NORTH LAUREL CONNECTIONS
PROPOSED BIKE ROUTE



PREPARED: CD
CHECKED: SPC

DATE
08/16/16

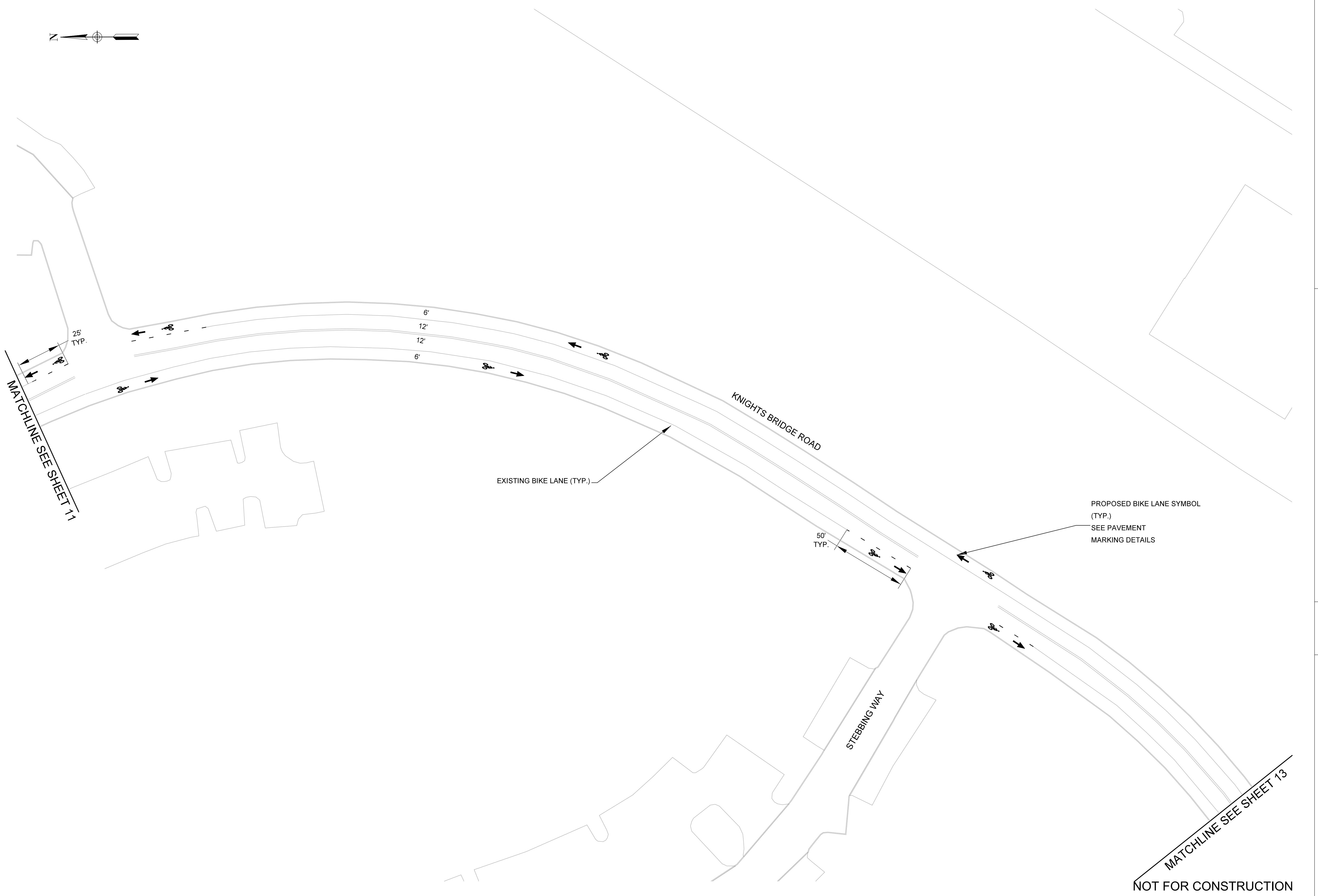
REV 1 -
REV. 2 -
REV. 3 -

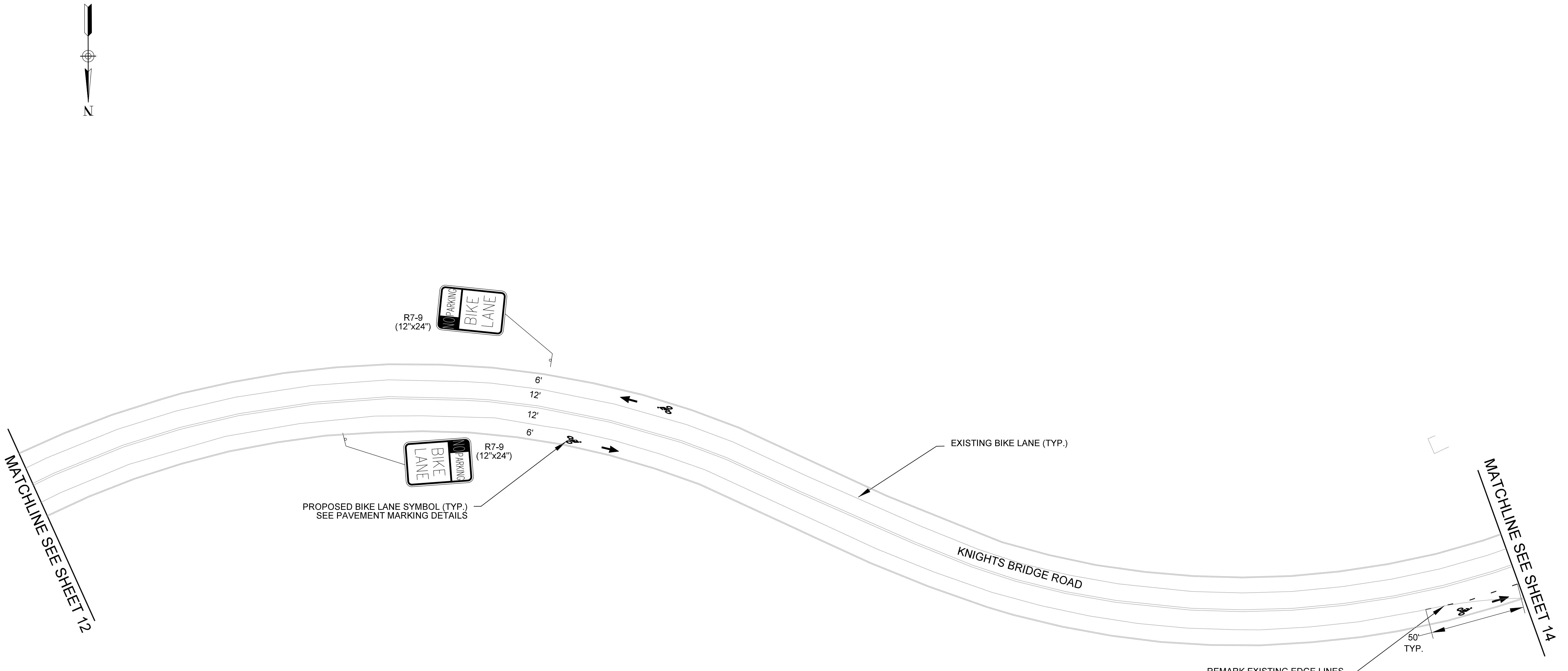
SHEET NAME
PAVEMENT MARKING
PLAN (SHEET 5 OF 8)

DRAWING NUMBER
C3.5

SHEET NUMBER
11 OF 14

OPTION B





NORTH LAUREL CONNECTIONS
PROPOSED BIKE ROUTE



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0 15 30 60

PREPARED: CD
CHECKED: SPC

DATE
08/16/16

REV 1 -
REV. 2 -
REV. 3 -

SHEET NAME
PAVEMENT MARKING
PLAN (SHEET 7 OF 8)

DRAWING NUMBER
C3.7

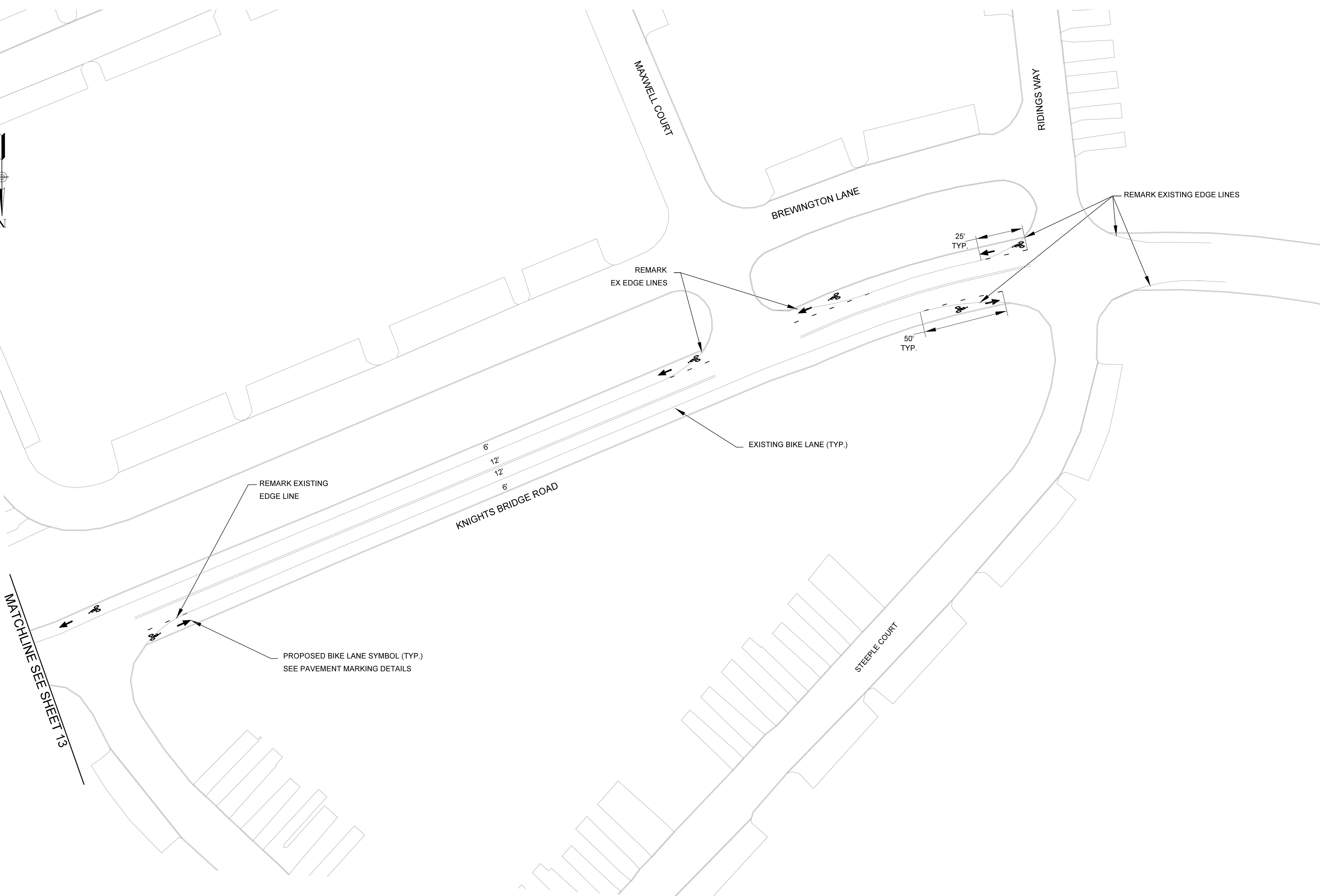
SHEET NUMBER
13 OF 14

OPTION B



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NORTH LAUREL CONNECTIONS PROPOSED BIKE ROUTE



14 OF 14

NOT FOR CONSTRUCTION

C3.8

SHEET NUMBER

PREPARED: CD
CHECKED: SPC

DATE
08/16/16

REV. 1 -
REV. 2 -
REV. 3 -

SHEET NAME
PAVEMENT MARKING
PLAN (SHEET 8 OF 8)

DRAWING NUMBER