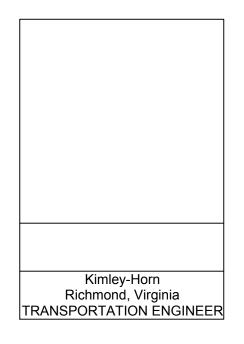
# **CITY OF RICHMOND, VIRGINIA DEPARTMENT OF PUBLIC WORKS TRANSPORTATION ENGINEERING DIVISION**



### **INDEX OF SHEETS**

### SHEET TITLE

### SHEET NO.

TITLE SHEET GENERAL NOTES AND LEGEND TYPICAL DETAILS SIGNING AND MARKING PLANS

1
Z
3-4
5-7

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE CITY OF RICHMOND.

THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE APPLICABLE CITY OF RICHMOND DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS, 2020 VDOT ROAD AND BRIDGE SPECIFICATIONS, 2016 VDOT ROAD AND BRIDGE STANDARDS, 2009 FHWA MUTCD, 2011 VIRGINIA SUPPLEMENT TO THE MUTCD, 2011 VIRGINIA WORK AREA PROTECTION MANUAL, AND AS AMENDED BY CONTRACT PROVISIONS AND THE COMPLETE ELECTRONIC VERSION OF THE PLAN ASSEMBLY INCLUDING ALL REVISIONS.

ALL WORK IS CONTAINED WITHIN EXISTING RIGHT-OF-WAY AND NO PROPOSED RIGHT-OF-WAY OR PERMANENT EASEMENTS ARE REQUIRED.

THE ORIGINAL SIGNED/APPROVED TITLE SHEET, INCLUDING ORIGINAL SIGNATURES, IS FILED IN THE CITY OF RICHMOND DEPARTMENT OF PUBLIC WORKS OFFICE.





# **ACCELERATED BIKE LANES BROAD ROCK ROAD** FOREST HILL AVENUE TO BELT BOULEVARD

**CITY PROJECT NO. 106868 AWARD NO. 500309** 

FOREST HILL AVENUE

MIDLOTHIAN

TURNPIKE



SPAINE STREET

APHIC SCALE IN FEET 250 500

# **LOCATION MAP**

MCGUIRE DRI.

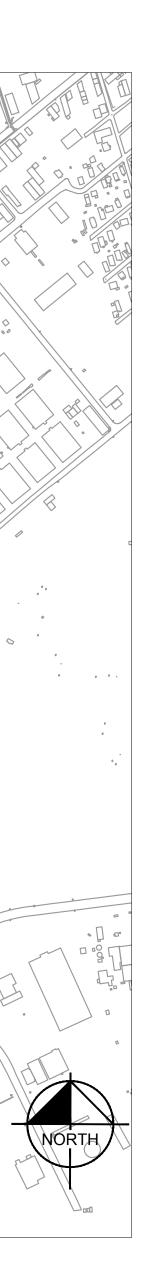
STREET

### **SEPTEMBER 2020**

90% PLANS - 09/02/2020

HESE PLANS ARE UNFINISHED AND ARE NO ised for any type CQUISITION OF RIGHT OF WAY





REVISIONS					
NO.	DATE	COMMENTS			

### CITY OF RICHMOND

APPROVED FOR CONSTRUCTION

ATTROVED FOR CONSTRUCTION				
 DATE	SURVEY SUPERINTENDENT			
DATE	MAINTENANCE ENGINEER			
 DATE	CITY TRANSPORTATION ENGINEER			
DATE	CAPITAL PROJECTS ADMINISTRATOR			
DATE				
 DATE	DIRECTOR OF PUBLIC WORKS			

**DRAWING NO. 0-28925** 

**Kimley**»Horn

KIMLEY-HORN AND ASSOCIATES, INC. 1700 WILLOW LAWN DRIVE, SUITE 200, RICHMOND, VA 23230 PHONE: (804) 673-3882

Associates, Inc.			GENERAL	NOTE	S		
Horn and Assoc	1. THIS PROJECT CONSISTS OF BICYCLE AND PEDESTRIAN MOBILITY AND SAFETY IMPROVEMENTS WITHIN THE EXISTING ROADWAY CROSS-SECTIONS OF BROAD ROCK ROAD FROM FOREST HILL AVENUE TO BELT BOULEVARD IN THE CITY OF RICHMOND, THE SECTION OF BROAD ROCK ROAD BETWEEN FOREST HILL AVENUE AND PRINCE HALL DRIVE IS				LT BOULEVARD IN THE CITY OF	1.	
<imley-< th=""><th colspan="4">ASSOCIATED WITH A PARALLEL CITY RESURFACING PROJECT. 2. THE CONTRACTOR SHALL PERFORM ALL WORK AND CONSTRUCT AND INSTALL ALL ITEMS WITHIN EXISTING CITY OF</th><th></th><th>2.</th></imley-<>	ASSOCIATED WITH A PARALLEL CITY RESURFACING PROJECT. 2. THE CONTRACTOR SHALL PERFORM ALL WORK AND CONSTRUCT AND INSTALL ALL ITEMS WITHIN EXISTING CITY OF					2.	
nut liability to h	<ul> <li>RICHMOND RIGHT OF WAY.</li> <li>ALL CONSTRUCTION AND MATERIALS SHALL CONFORM WITH THE LATEST STANDARDS AND SPECIFICATIONS OF THE</li> </ul>					3.	
. ĕ		CITY OF RICHMOND, THE LATE	ST STANDARDS AND SPECIFIC/ E MANUAL ON UNIFORM TRAFF	ATIONS OF THE	VIRGINIA DE	PARTMENT OF	4.
GENERAL shall be with	4.		EXCEPT AS NOTED ON THE PL	ANS.	、		5. 6.
	5.	PRIOR TO COMMENCING CONS	STRUCTION.		-		7.
Associates, Inc.	6.	CONSTRUCTION.				8. 9.	
and		UNDERNEATH, OR OTHERWISE	E ALONG THE LINE OF PROPOSI E FOR ALL DAMAGE DONE TO A	ED WORK ARE N	IOT SHOWN	ON THESE PLANS. THE	10.
Kimley-Horn an	7.	NEGLIGENCE OR CARELESSNE ALL UTILITY CLEARANCES ARE			AND SHALL E	E OBTAINED PRIOR TO	11.
	8.				ECIFICATION	IS MUST BE APPROVED BY THE	12.
adaptation by	9.	IF A CONFLICT WITH THE PLAN		OUND TO EXIST,			13.
o pug	10.	THE CONTRACTOR SHALL BE F	( IS STARTED IN ORDER TO COORESPONSIBLE FOR PROTECTIN	G EXISTING UTI	LITIES AND S	SHALL REPLACE AT NO	14.
ithout written authorization of		ADDITIONAL COST, IF DAMAGED, AS DIRECTED BY THE CITY. EXISTING UTILITIES THAT ARE IN CONFLICT AND MAY NEED TO BE REMOVED OR RELOCATED, WILL BE COORDINATED BY THE CITY. RELOCATIONS OF CITY FACILITIES WILL BE ADMINISTERED BY THE CITY DEPARTMENT OF PUBLIC UTILITIES. IN CASE OF EMERGENCIES OF UTILITY BREAKAGE/CONFLICT CONTACT:					15.
ut written		UTILITY	TELEPHONE NUMBER	S			16. 17.
∕ ≥		GAS WATER	646-8300, 646-8309, 646-83 646-8300, 646-8309, 646-83	10			18.
		SEWER POWER	646-8600, 646-8426 888-667-3000				19.
e on this do		TRAFFIC SIGNAL	311, 646-7000				20.
ad ta 70-00 iproper reliance	11.		IOWN WITHIN THE PLANS ARE <sup>-</sup> ENGINEER. THE CITY WILL MEE T MARKINGS PRIOR TO INSTALL	T WITH THE CO			21.
and in	12.		ARY BY THE CITY OF RICHMONI	).			
C) sus	THE NEED FOR A FORMAL E & S CONTROL PLAN.						22. 23.
pared.	14.	THE COMPLETE PAPER COPY ( THE SOLE OFFICIAL CONSTRU	CTION PLANS.				24.
						25.	
accelerated nt for which it	16.	IN THEIR EXACT LOCATIONS. ALL EXISTING RIGHT OF WAY L					26.
and client for	LOCATION AND ORIENTATION OF ALL PROPOSED ITEMS SHALL BE FIELD VERIFIED AND APPROVED BY THE ENGINEER				27. 28.		
purpose	17.ALL EXISTING SIGNS TO BE REMOVED BY THE CONTRACTOR SHALL BE SALVAGED AND RETURNED TO THE CITY OF29RICHMOND TRANSPORTATION ENGINEERING DIVISION SHOP. THE CONTRACTOR SHALL CALL THE SHOP AT (804)646-146630				29. 30. 31.		
the specific	18. ANY AREA THAT IS DISTURBED OUTSIDE OF THE LIMITS OF CONSTRUCTION DURING THE LIFE OF THIS PROJECT SHALL				32.		
ended only for the	19.	THE ENGINEER RESERVES THINE NECESSARY.	E RIGHT TO MAKE ANY CHANGE	S TO THESE PL	ANS AND TR	AFFIC CONTROL AS DEEMED	33.
is intended o	20. ANY TRAFFIC CONTROL DEVICES INCLUDING BUT NOT LIMITED TO PAVEMENT MARKINGS, SIGNS, AND TRAFFIC CONTROL34.SIGNAL EQUIPMENT DAMAGED OR DESTROYED BY THE CONTRACTOR MUST BE REPLACED AT THE CONTRACTOR'S35.EXPENSE UNLESS THEIR REMOVAL OR DESTRUCTION IS CALLED FOR BY THE PLANS.35.						
of service,	21.	THE CONTRACTOR SHALL REM FULL SECTIONS TO THE NEARI TO THE GREATEST EXTENT PR	EST JOINT. REPLACEMENT SIDE				
an instrument o							1.
zuzu herein, as							2. 3.
presented							4.
d designs pres							5. 6. 7
an							7. 8.
upout. Eurouti							
							9.
the							10.
Set. N sument,							11.
This							
					+	Kimley	
						IVIIICA	
						© 2020 KIMLEY-HO 1700 WILLOW LAWN DR, S PHONE:	SUITE 20 804-67
No.		REVISIO	ONS	DATE	BY	WWW.KIM	ley—HO

## SIGNING AND STRIPING NOTES

THE CONTRACTOR SHALL PREPARE THE PAVEMENT SURFACE FOR THE PROPER ADHESION, REGARDLESS OF PAVEMENT TYPE. ANY SWEEPING OR REMOVAL OF DEBRIS, GRAVEL, DIRT OR OTHER FOREIGN MATERIALS SHALL BE CONSIDERED AS INCIDENTAL TO THE INSTALLATION, AND NO SEPARATE PAYMENT THEREFORE.

UNLESS SPECIFIED OTHERWISE, THE BASIS OF MEASUREMENT SHALL BE ALONG THE LONGITUDINAL CENTERLINE OF PAVEMENT MARKINGS. MEASUREMENT FOR LEGENDS SHALL BE PER MESSAGE, COMPLETE AND IN PLACE.

ALL MARKINGS IMPROPERLY APPLIED OR LOCATED IN THE OPINION OF THE ENGINEER SHALL BE COMPLETELY REMOVED AND CORRECTLY REAPPLIED, AT THE SOLE EXPENSE OF THE CONTRACTOR.

ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE SPECIFIED ON THE PLANS OR DIRECTED BY THE CITY OF RICHMOND ENGINEER.

THERMOPLASTIC PAVEMENT MARKINGS SHALL NOT BE INSTALLED AT ANYTIME WITHIN A 48 HOUR PERIOD FOLLOWING A RAINFALL.

COLORS SHALL CONFORM TO STANDARD HIGHWAY COLORS THROUGHOUT THE EXPECTED LIFE OF THE FILM. THE CONTRACTOR SHALL REMOVE COMPLETELY ALL PREVIOUS OR EXISTING PAVEMENT MARKINGS OR SIGNS, WHICH IN THE OPINION OF THE ENGINEER OR CITY'S INSPECTOR CONFLICT WITH THE PROPOSED PAVEMENT MARKINGS AND SIGNS.

THE CONTRACTOR SHALL NOT INSTALL NEW PAVEMENT MARKINGS ON TOP OF ANY EXISTING MARKINGS. PRIOR TO APPLICATION, THE CONTRACTOR SHALL FIELD CHECK AND LOCATE ALL PAVEMENT MARKINGS TO THE SATISFACTION OF THE PROJECT MANAGER.

MARKINGS SHALL NOT BE APPLIED TO EXISTING CONCRETE GUTTER.

MARKINGS SHALL NOT BE APPLIED TO NON-PAVEMENT SURFACES, INCLUDING BUT NOT LIMITED TO MANHOLES, VALVES, HANDHOLES, AND METERS. THE CONTRACTOR MAY LEAVE A GAP IN THE PROPOSED MARKING OR COVER THE APPURTENANCE DURING APPLICATION AND REMOVE ANY COVERING ONCE THE MARKING HAS BEEN APPLIED.

MARKING MATERIAL SHALL BE APPLIED AT THE SPECIFIED DIMENSIONS AND AT A RATE TO RESULT IN A MARKING THICKNESS OF 90 MILS ±5 MILS (NOT INCLUDING GLASS BEAD TOP DRESSING).

THE MARKINGS SHALL BE PROVIDED IN SPECIFIED WIDTHS AND SHAPES. PREFORMED WORDS AND SYMBOLS SHALL CONFORM TO THE APPLICABLE SHAPES AND SIZES AS OUTLINED IN THE MUTCD.

UNLESS OTHERWISE SPECIFIED ON THE PLANS OR IN CONTRACT DOCUMENTS, ALL PAVEMENT MARKINGS AND LEGENDS IN THE PUBLIC RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH VDOT SPECIFICATIONS.

SIGNS SHALL BE ERECTED WHERE DESIGNATED IN ACCORDANCE WITH THE PLANS. ALL SIGNS THAT REQUIRE MOUNTING SHALL BE ON STEEL U-CHANNEL POSTS INSTALLED DIRECTLY IN THE GROUND (2' MAXIMUM DEPTH - CONTRACTOR IS TO VERIFY LOCATION AND UTILITY CONFLICTS PRIOR TO INSTALLING).

SIGN MOUNTING HEIGHT AND DISTANCE FROM FACE OF CURB SHALL CONFORM TO MUTCD GUIDELINES.

FOR SIGN POST INSTALLATIONS INTO EXISTING CONCRETE OR BRICK SURFACES, NO SLEEVES SHALL BE USED. CONTRACTOR SHALL CORE THROUGH SURFACE AND INSTALL U-CHANNEL POSTS AS SPECIFIED.

METAL BANDS AND BRACKETS SHALL BE USED FOR MOUNTING SIGNS TO EXISTING POLES IN ACCORDANCE WITH TYPICAL DETAIL SHEET 3. SIGN ATTACHMENTS TO EXISTING POLES MAY BE MADE AT THE CONTRACTOR'S DISCRETION, HOWEVER THEY MUST FIRST BE CONFIRMED ACCEPTABLE BY THE PROJECT MANAGER.

THE PROJECT MANAGER OR HIS/HER DESIGNEE SHALL CONFIRM THAT ALL SIGN AND SIGN POSTS INSTALLATIONS ARE ACCEPTABLE TO THE CITY OF RICHMOND PRIOR TO PROJECT COMPLETION.

PARKING AREAS SHALL BE NO CLOSER THAN 30' FROM A MARKED CROSSWALK, CURB RAMP, OR CURB RETURN WHERE THERE IS AN ADJACENT DEDICATED BIKE LANE. PARKING AREAS SHALL BE NO CLOSER THAN 20' FROM AN ALLEY OR DRIVEWAY WHERE THERE IS AN ADJACENT DEDICATED BIKE LANE. IF NO ADJACENT DEDICATED BIKE LANE IS PRESENT, PARKING AREAS SHALL BE NO CLOSER THAN 20' FROM A CROSSWALK, CURB RAMP, OR CURB RETURN. PARKING AREAS ARE NOT PERMITTED IN FRONT OF ALLEYS OR DRIVEWAYS, AND SHALL BE NO CLOSER THAN 15' FROM A FIRE HYDRANT.

BUFFER AREA PAVEMENT MARKINGS SHALL NOT EXTEND INTO INTERSECTIONS, ALLEYS, OR DRIVEWAYS. IF BUFFER AREA IS GREATER THAN 4 FEET IN WIDTH, THE BUFFER AREA AT DRIVEWAYS SHALL END USING 5 FOOT RADIUS CURVES AS SHOWN ON

PLANS, UNLESS OTHERWISE NOTED. IF ACTUAL ROADWAY CROSS SECTION IS LESS THAN THE WIDTH OF THE TYPICAL SECTION SHOWN ON THE PLANS, THE CONTRACTOR SHALL REDUCE THE WIDTH OF THE BUFFER BY THE DIFFERENCE IN WIDTH TO MAINTAIN 11' TRAVEL LANES.

IF ACTUAL ROADWAY CROSS SECTION IS GREATER THAN THE WIDTH TO MAINTAIN TO TRAVEL LANES. IF ACTUAL ROADWAY CROSS SECTION IS GREATER THAN THE WIDTH OF THE TYPICAL SECTION SHOWN ON THE PLANS, THE CONTRACTOR SHALL INCREASE THE WIDTH OF THE BUFFER AREA BY THE DIFFERENCE IN WIDTH TO MAINTAIN 11' TRAVEL LANES AND SPECIFIED PARKING LANE WIDTH. CALLOUTS ON THE PLANS ARE NOT SHOWN FOR EACH INDIVIDUAL CHEVRON, FLEXI-POST, PAVEMENT MARKING ETC. IF THE CONTRACTOR IS UNCLEAR WHICH PAY ITEM IS DENOTED IN THE PLANS, THE CONTRACTOR SHALL VERIFY THE ITEM WITH THE PROJECT MANAGER OR ENGINEER. THE VERTICAL FLEXIBLE DELINEATOR (FLEXI-POST) SHOWN ON THE PLANS SHALL BE THE PEXCO FG300 MODEL UR OR EQUIVALENT, APPROVED EQUAL. THE PROPOSED VERTICAL FLEXIBLE DELINEATOR SHALL BE APPROVED BY THE CITY OF RICHMOND PROJECT MANAGER.

STOP BARS SHALL BE 24" WIDE WHITE MARKINGS AND SHALL BE INSTALLED PERPENDICULAR TO THE PATH OF VEHICULAR TRAVEL.

PROPOSED STOP BAR FOR TWO-WAY APPROACH SHALL EXTEND FROM FACE OF CURB TO CENTER OF ROADWAY OR TO MARKED CENTERLINE. PROPOSED STOP BAR FOR ONE-WAY APPROACH SHALL EXTEND THE FULL WIDTH OF THE ROADWAY.

IF EXISTING STOP BARS ARE IN GOOD CONDITION AND ARE GREATER THAN 3' FROM THE PROPOSED CROSSWALK, THEN AT THE DISCRETION OF THE CITY'S INSPECTOR THE EXISTING STOP BAR MAY REMAIN.

ALL PROPOSED CROSSWALK MARKINGS SHALL BE PLACED CENTERED WITH PEDESTRIAN RAMPS AND AS SHOWN ON TYPICAL DETAIL SHEET 3, UNLESS OTHERWISE NOTED ON THE PLANS.

CROSSWALKS SHALL BE INSTALLED AS CLOSE TO PERPENDICULAR TO VEHICULAR TRAVEL AS PRACTICAL.

CORNER CLEARANCE MARKINGS SHALL BE INSTALLED PER TYPICAL DETAIL SHEET 3 UNLESS OTHERWISE NOTED ON THE PLANS. CORNER CLEARANCE MARKING CORNER CLEARANCE MARKINGS SHALL NOT BE INSTALLED WHERE ON-STREET PARKING IS PROHIBITED OR IF PARKING LANES ARE NOT PRESENT.

## MAINTENANCE OF TRAFFIC NOTES

ALL TEMPORARY TRAFFIC CONTROL, DEVICES, METHODS, AND APPLICATIONS SHALL COMPLY WITH THE MOST RECENT VERSIONS OF THE <u>VIRGINIA</u> <u>WORK AREA PROTECTION MANUAL</u> (VWAPM), THE <u>MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES</u> (MUTCD), SPECIAL PROVISIONS OF CONTRACT DOCUMENTS, THE CITY OF RICHMOND'S "DEPARTMENT OF PUBLIC WORKS SPECIAL PROVISIONS" AND/OR AS DIRECTED BY THE PROJECT MANAGER. WHICHEVER IS MORE RESTRICTIVE TAKES PRECEDENCE.

CONSTRUCTION SHALL BE PROHIBITED ON STREETS BETWEEN THE HOURS OF 7 AM TO 9 AM AND 3:30 PM TO 6 PM MONDAY THROUGH FRIDAY. THE CONTRACTOR SHALL SUBMIT A PROPOSED TRAFFIC CONTROL PLAN FOR APPROVAL BY THE CITY'S PROJECT MANAGER PRIOR TO BEGINNING CONSTRUCTION.

RESIDENT AND EMERGENCY ACCESS SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

KHA PROJECT

113357041

DATE SEPTEMBER 2021

ESIGNED BY JSB

RAWN BY HMM

HECKED BY GDG

NTS

SCALE

PEDESTRIAN ACCESS AT INTERSECTIONS AND TO ALL RESIDENCES AND BUSINESSES SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL TRAFFIC CONTROL AND WORK-IN-STREETS PERMITS WITHIN THE CITY. THE COST OF ALL TRAFFIC CONTROL DEVICES SHALL BE PAID FOR BY THE CONTRACTOR.

THE COST OF ALL TRAFFIC CONTROL DEVICES SHALL BE FAID FOR BT THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ALL EXISTING AND TEMPORARY TRAFFIC CONTROL DEVICES ARE PROPERLY MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION. THE CITY PROJECT MANAGER WILL DETERMINE IF SIGNS ARE BEING MAINTAINED IN THE PROPER MANNER BY THE CONTRACTOR. THE CONTRACTOR WILL BE CHARGED FOR ANY COSTS INCURRED BY THE CITY OF RICHMOND AS A RESULT OF THE CONTRACTOR'S FAILURE TO PROPERLY MAINTAIN TEMPORARY TRAFFIC CONTROL DEVICES WITHIN THE PROJECT AREA. THE CONTRACTOR SHALL PROVIDE THE NAMES AND PHONE NUMBERS TO THE CITY PROJECT MANAGER OF PERSONS DESIGNATED BY THE CONTRACTOR TO BE CONTACTED AFTER WORKING HOURS CONCERNING ANY PROBLEMS WHICH MAY ARISE REGARDING TEMPORARY TRAFFIC

CONTROL DEVICES ON THIS PROJECT. ALL MATERIALS AND EQUIPMENT SHALL BE DELIVERED, UNLOADED, AND STORED AT LOCATIONS APPROVED BY THE PROJECT MANAGER. THE CONTRACTOR SHALL MAKE ARRANGEMENTS TO STORE EQUIPMENT AND MATERIALS.

PERSONAL VEHICLES OF THE CONTRACTOR'S EMPLOYEES SHALL NOT BE PARKED IN THE TRAVELED WAY OF ANY ROADWAY AT ANY TIME, INCLUDING ANY SECTION OF ROADWAY CLOSED TO TRAFFIC.

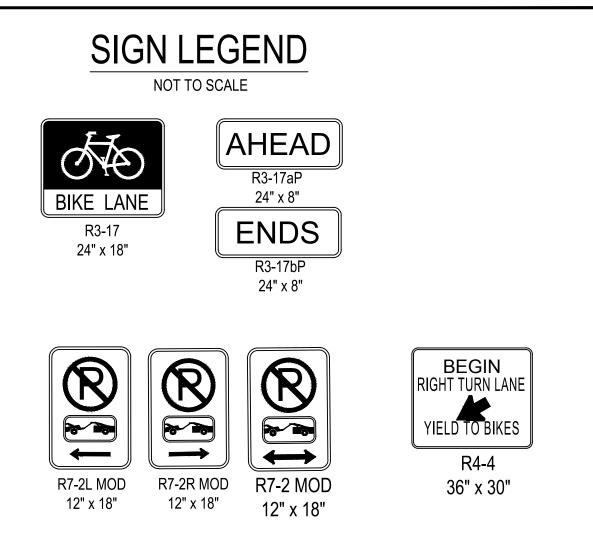
KIRGINIA.





CITY OF RICHMOND

VIRGINIA



### UTILITY AND SIGN LEGEND

EXISTING SIGNAL POLE
 EXISTING MAST ARM
 EXISTING PEDESTRIAN SIGNAL HEAD

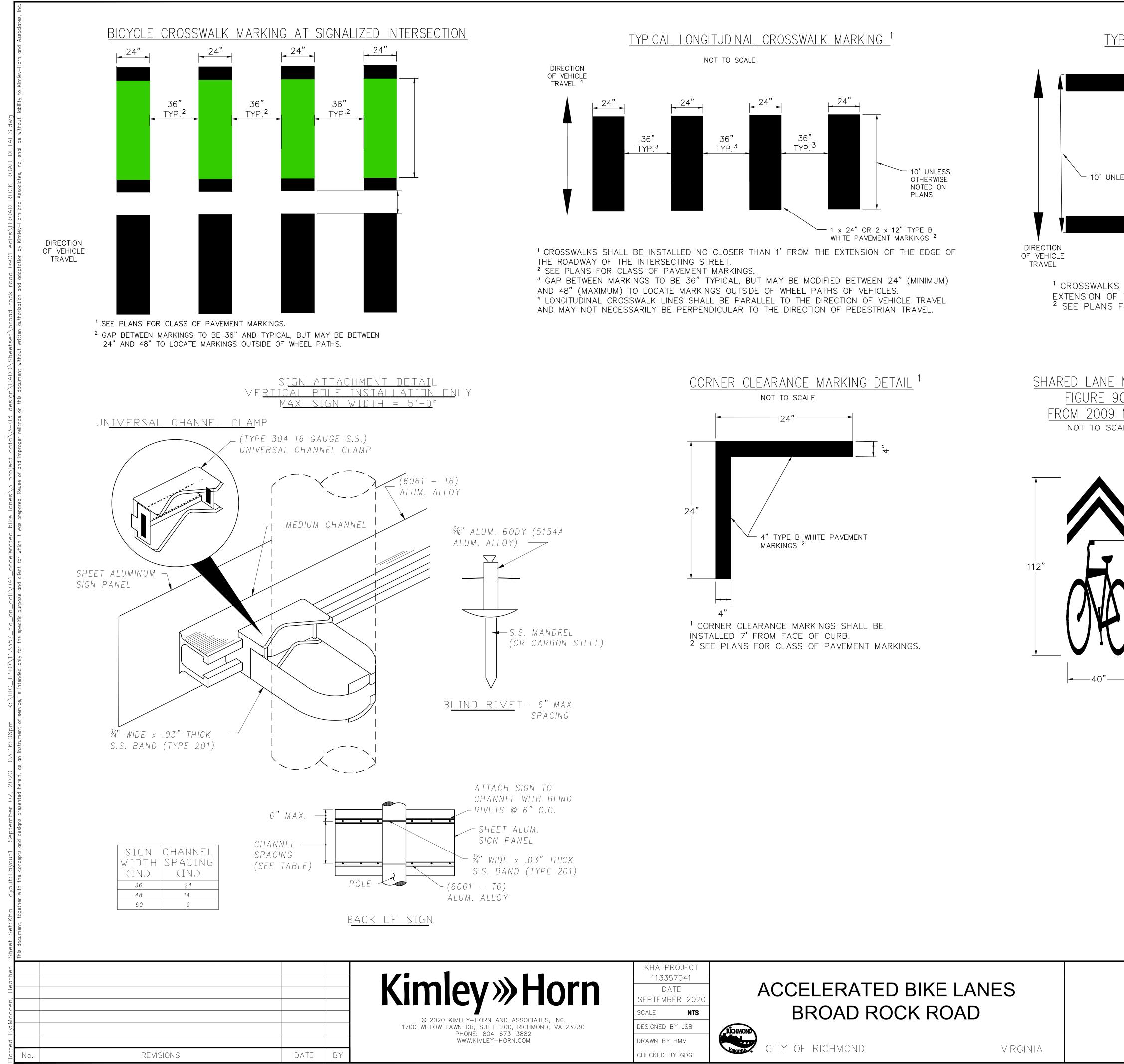
EXISTING UTILITY POLEEXISTING LIGHT POLE

- EXISTING GROUND MOUNTED SIGN
- PROPOSED GROUND MOUNTED SIGN
- PROPOSED FLEXI-POST

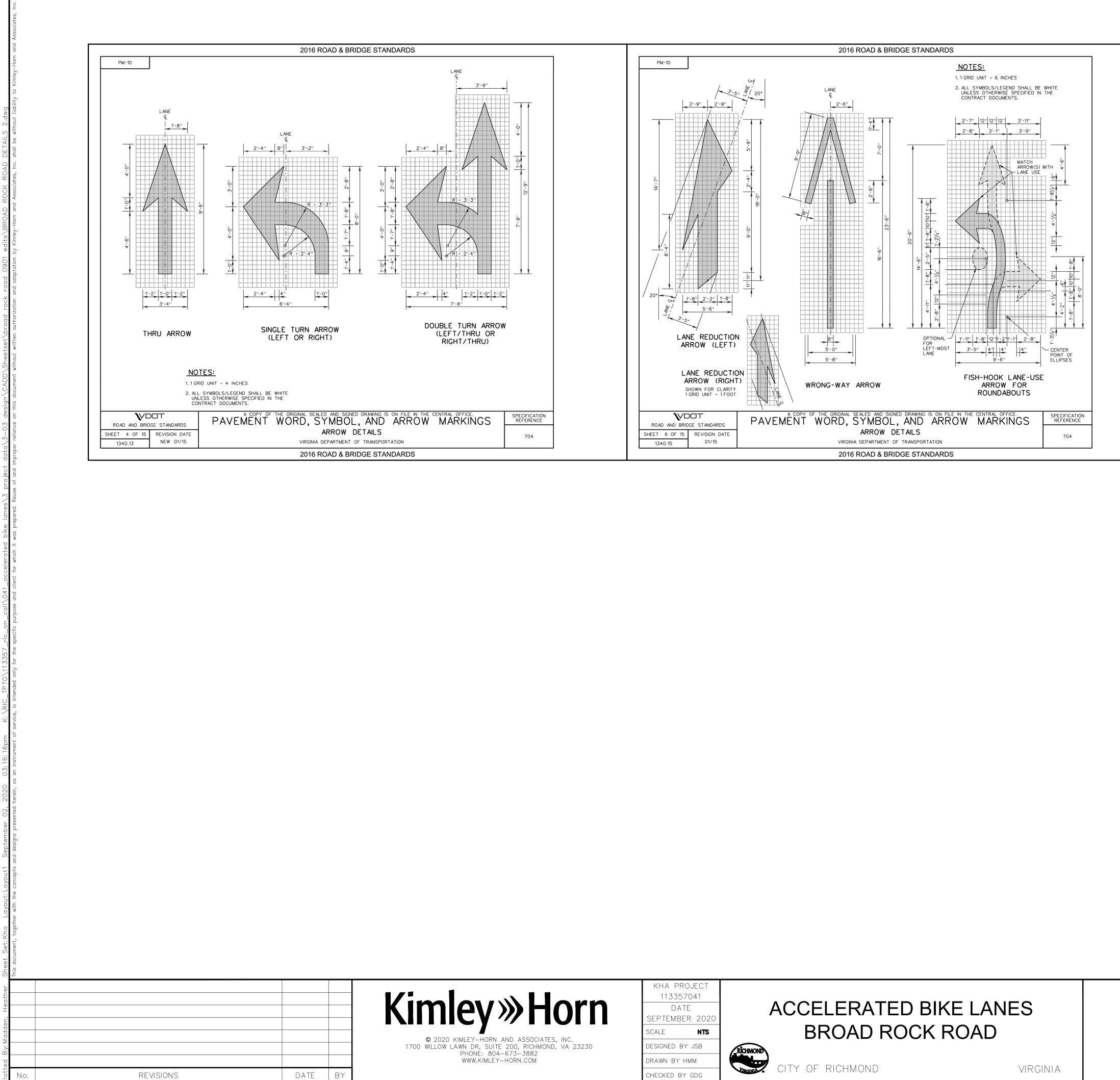
GENERAL NOTES AND LEGEND

2

SHEET NUMBER



	1	
typical ti	RANSVERSE CROSSWALK MARKING <sup>1</sup> not to scale	
	12"	
UNLESS OTHERW	ISE NOTED ON PLANS	
	12"	
	1 X 12" TYPE B WHITE PAVEMENT MARKINGS <sup>2</sup>	
	INSTALLED NO CLOSER THAN 1' FROM THE	
	OF THE ROADWAY OF THE INTERSECTING STREET. OF PAVEMENT MARKINGS.	
<u>E MARKIN(</u> 9C-9	<u>HELMETED BICYCLE SYMBOL,</u> <u>FIGURE 9C-3</u>	
<u>9 MUTCD</u> scale	FROM 2009 MUTCD NOT TO SCALE	
	72"	
	72"	
	"	
<b>&gt;</b>	070	
		SHEET NUMBER
	TYPICAL DETAILS	3
		-



SHEET NUMBER

## TYPICAL DETAILS

4

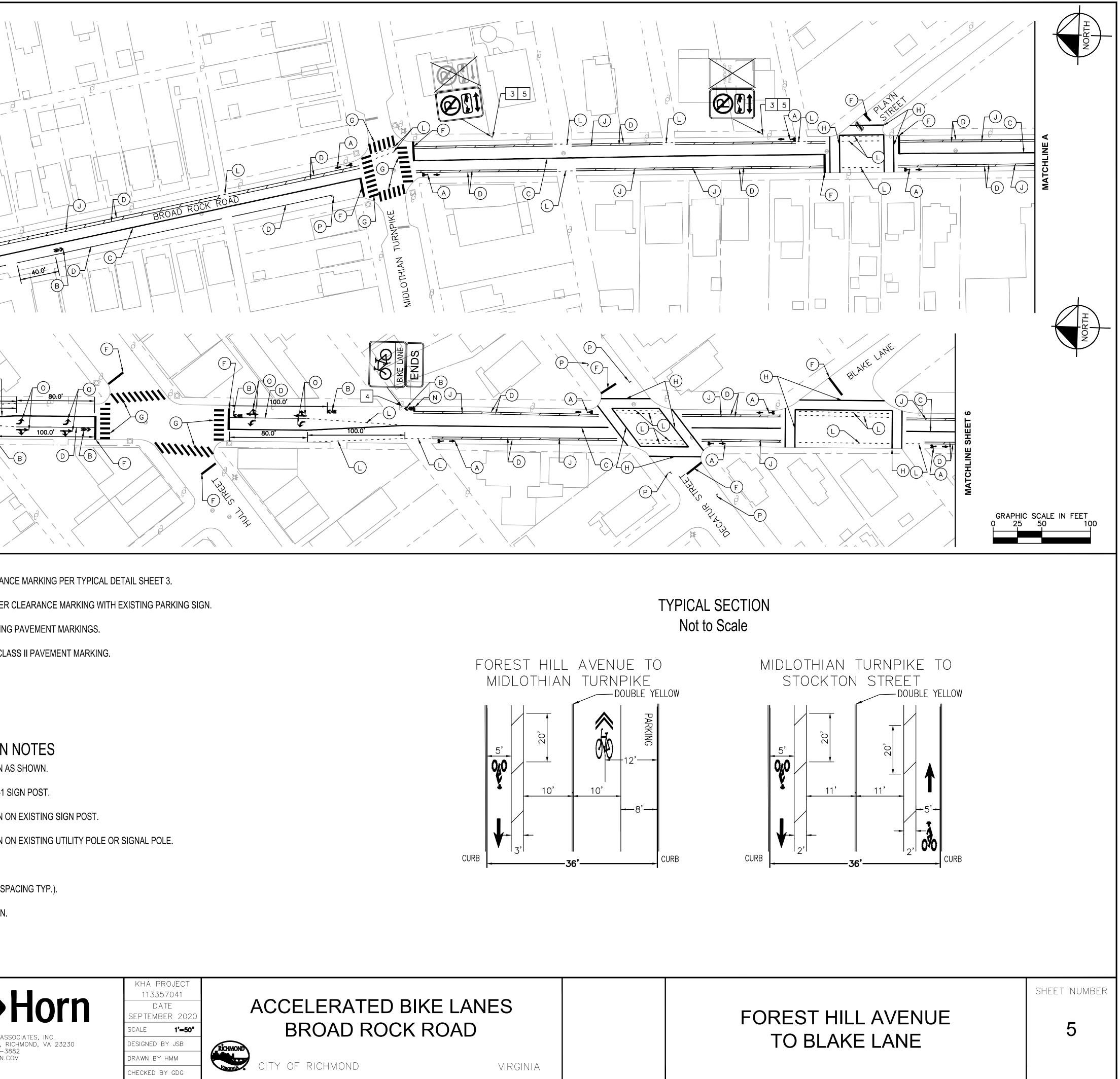
ad rock road 0901 edits\BROADROCK 1.dwg horization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.		POREST HILL AVENUE		
ted bike lanes/3 project data/3-03 design/CADD/Sheetset/broc it was prepared. Reuse of and improper reliance on this document without written auth-				Image: With the second seco
call\041_accelerat ose and client for which	A	PAVEMENT MARKING NOTES INSTALL TYPE B CLASS II WHITE HELMETED BICYCLIST SYMBOL PAVEMENT MARKING PER TYPICAL DETAIL SHEET 3.	P	INSTALL CORNER CLEARAN
_ric_on_call specific purpose	В	INSTALL TYPE B CLASS II WHITE SHARROW PAVEMENT MARKING PER TYPICAL DETAIL SHEET 3.	Q R	ALIGN PROPOSED CORNER
_TPT0\113357_ ended only for the	С	INSTALL 4" DOUBLE YELLOW TYPE B CLASS I PAVEMENT MARKING.	S	INSTALL GREEN TYPE B CL
C_TPTO\ intended onl	D	INSTALL 4" SOLID WHITE TYPE B CLASS I PAVEMENT MARKING.		
K: \RIC service, is in	E	INSTALL 6" SOLID WHITE TYPE B CLASS I PAVEMENT MARKING.		
of J	F	INSTALL 24" SOLID WHITE TYPE B CLASS I PAVEMENT MARKING.		
03:16:53pı an instrument	G	INSTALL LONGITUDINAL CROSSWALK MARKING PER DETAIL SHEET 3.	1	CONSTRUCTION INSTALL PROPOSED SIGN A
2020 (	H	INSTALL TRANSVERSE CROSSWALK MARKING PER DETAIL SHEET 3.	2	INSTALL VDOT ST'D. STP-1
02, sented l		INSTALL BICYCLE CROSSWALK MARKING PER DETAIL SHEET 3.	3	INSTALL PROPOSED SIGN (
September 02, d designs presented	J	INSTALL 4" SOLID WHITE TYPE B CLASS I PAVEMENT MARKING ON 45° ANGLE WITH LONGITUDINAL LINES THEY INTERSECT.	4	INSTALL PROPOSED SIGN (
and	K	INSTALL 4" SOLID WHITE TYPE B CLASS I PAVEMENT MARKING, 10' LONG, 30' SPACING.	5	REMOVE EXISTING SIGN.
ayout: Layout1 with the concepts	L	INSTALL 4" SOLID WHITE TYPE B CLASS I PAVEMENT MARKING, 2' LONG, 4' SPACING.	6	INSTALL FLEXI-POST (40' SF
Ŭ L	M	INSTALL 6" SOLID WHITE TYPE B CLASS I PAVEMENT MARKING, 2' LONG, 4' SPACING.	7	RELOCATE EXISTING SIGN.
Set: Kha ment, toge	N	INSTALL 12" YIELD LINE MARKINGS.		
Sheet Set: Kha I This document, togethe	0	INSTALL ARROW MARKING PER TYPICAL DETAIL SHEET 4.		
ed By: Madden, Heather				© 2020 KIMLEY-HORN AND AS WILLOW LAWN DR, SUITE 200, F PHONE: 804-673-3 WWW.KIMLEY-HORN.

DATE BY

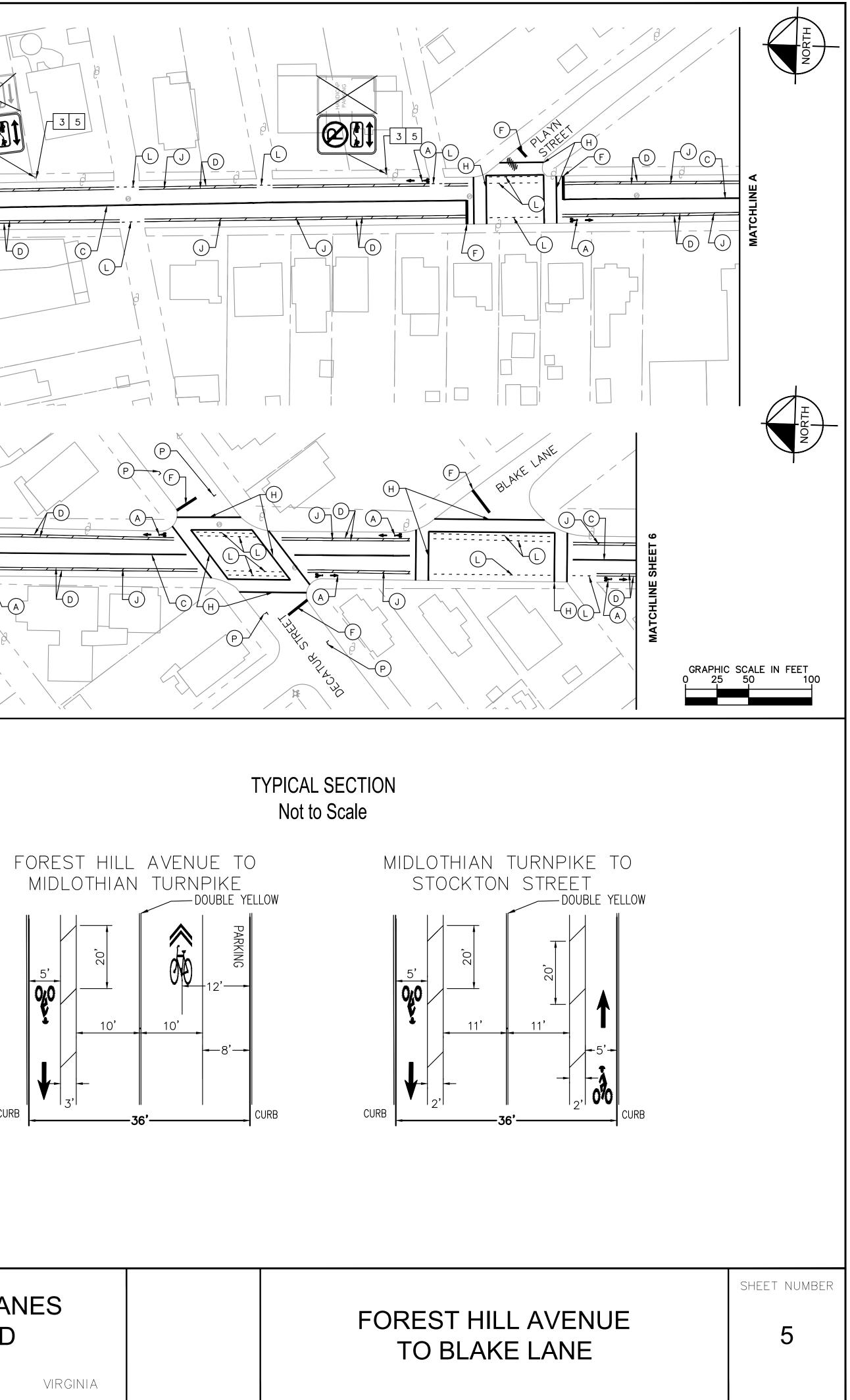
REVISIONS

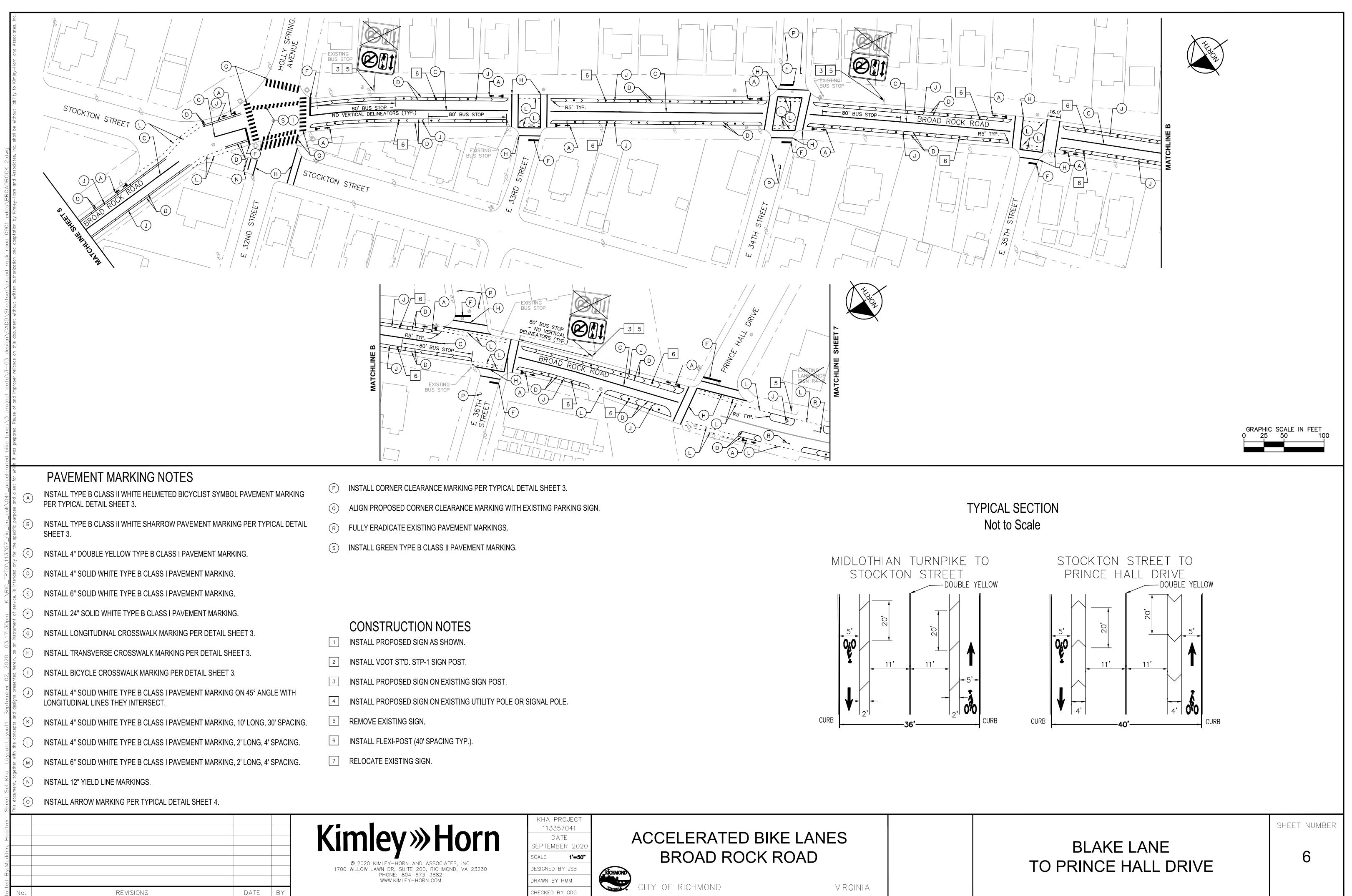
No.

Allen Avenue









HECKED BY GDG

