

BOSTON TRANSPORTATION DEPARTMENT

HYDE PARK AVENUE RAPID RESPONSE BUS LANE MBTA CONTRACT XXXXXXXX

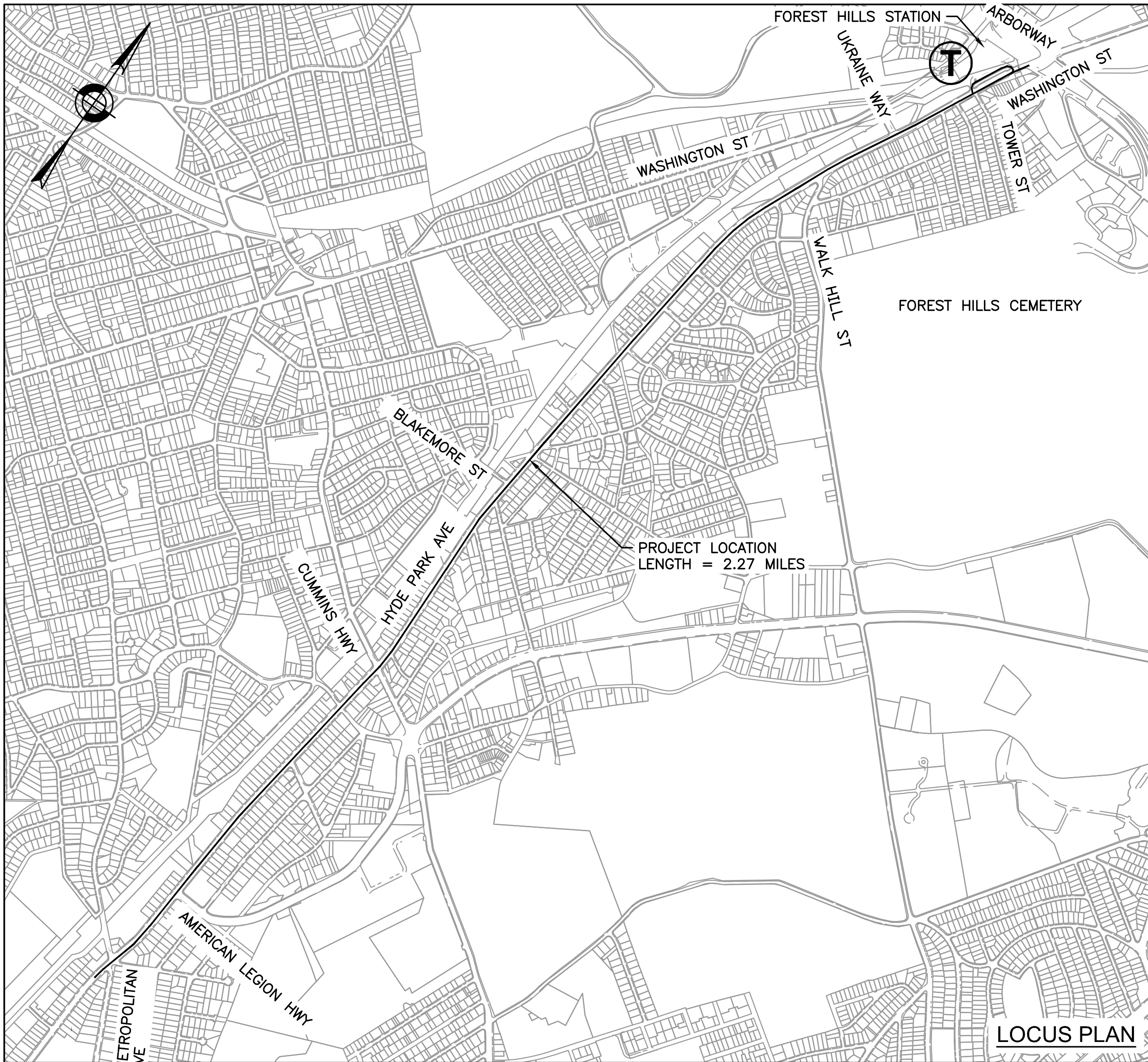
BOSTON, MA

INDEX

DWG. NO.	SHEET NO.	PLAN TITLE	PLAN TYPE
G-001	1	TITLE SHEET AND INDEX	GENERAL
G-002 - G-003	2 - 3	KEY PLAN	GENERAL
G-004	4	GENERAL NOTES AND LEGEND	GENERAL
DET-001 - DET-003	5 - 7	DETAILS	DETAILS
SP-001 - SS-011	8-29	TRAFFIC SIGNAL PLAN & TRAFFIC SIGNAL SCHEDULE	TRAFFIC SIGNAL PLAN
PM-001 - PM-023	30-52	PAVEMENT MARKINGS AND SIGNAGE PLAN	PAVEMENT MARKINGS AND SIGNAGE PLAN
TMP-001 - TMP-002	53-54	TRAFFIC MANAGEMENT DETAILS	TRAFFIC MANAGEMENT PLAN
TMP-003 - TMP-025	55-77	NB_SB INSIDE LANE TRAFFIC MANAGEMENT PLAN	TRAFFIC MANAGEMENT PLAN
TMP-026 - TMP-048	78-100	NB_SB OUTSIDE LANE TRAFFIC MANAGEMENT PLAN	TRAFFIC MANAGEMENT PLAN
TSS-001	101	TRAFFIC SIGN SUMMARY	TRAFFIC SIGN SUMMARY

ALL WORK SHALL CONFORM TO THESE PLANS, THE BOSTON TRANSPORTATION DEPARTMENT STANDARDS AND SPECIFICATIONS, THE MASSACHUSETTS HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES DATED 1995, THE SUPPLEMENTAL SPECIFICATIONS DATED NOVEMBER 8, 2000, THE 1996 CONSTRUCTION AND TRAFFIC STANDARDS, THE SUPPLEMENTAL DRAWINGS DATED OCTOBER 25, 2000, THE OCTOBER 1997 MASSHIGHWAY WHEELCHAIR RAMP STANDARDS, THE 1968 STANDARD DRAWINGS FOR TRAFFIC SIGNALS AND HIGHWAY LIGHTING, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, 2003 EDITION, THE 1990 STANDARD DRAWINGS FOR SIGNS AND SUPPORTS, AND ALL INTERIM REVISIONS PUBLISHED BY AASHTO. WHERE CONFLICTS EXIST, THE BOSTON TRANSPORTATION DEPARTMENT STANDARDS AND SPECIFICATIONS SHALL GOVERN.

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DRAWN BY LP
CHECKED BY AKB
APPROVED BY RCP

CITY OF BOSTON TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION
MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS

HYDE PARK AVENUE

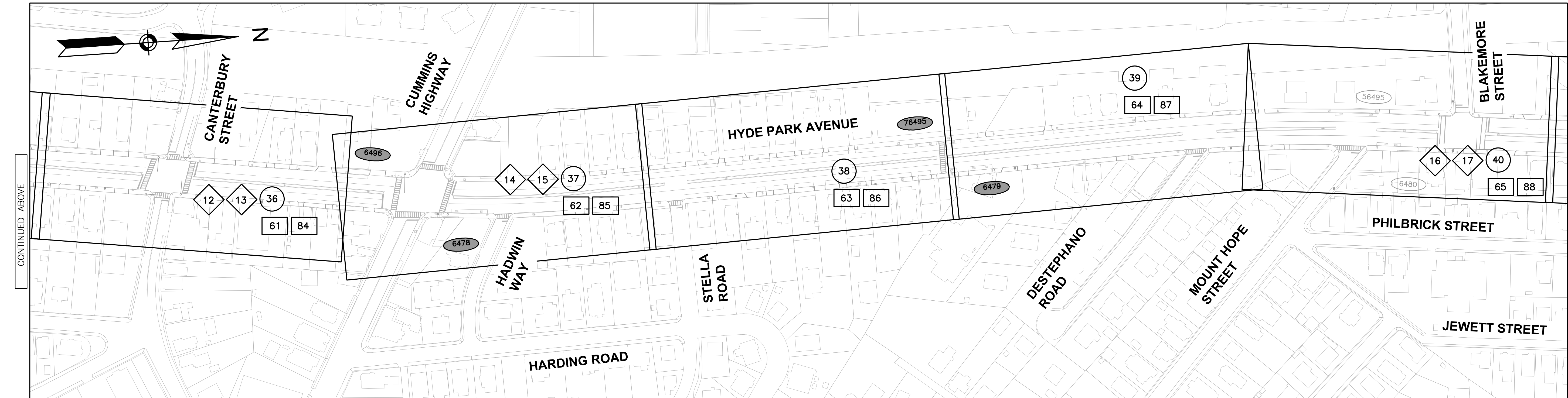
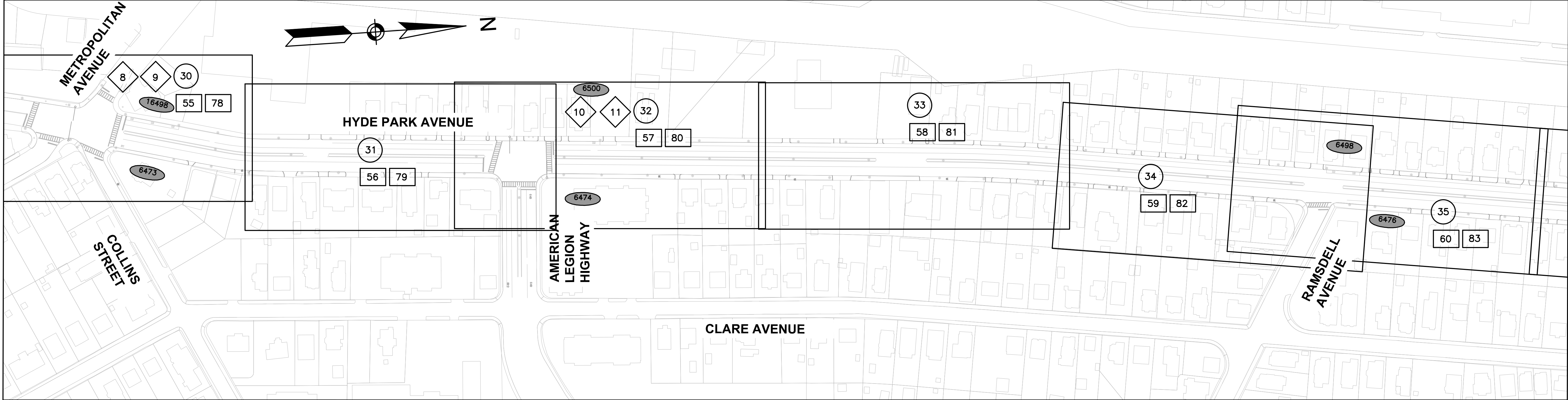
TITLE SHEET AND INDEX

AREA: - BOSTON AUGUST 2020
DISTRICT: # DRAWING NO. G-001
SHEET 01 OF 101



HDR ENGINEERING, INC.
99 HIGH STREET, SUITE 2300
BOSTON, MASSACHUSETTS 02110-2378
(617) 357-7700

c:\pwworking\east01\1626747\MBTA-HPA-G-002.dwg



LEGEND:

- TRAFFIC SIGNAL PLAN SHEET NUMBER
- TRAFFIC SIGN AND PAVEMENT MARKINGS SHEET NUMBER
- TRAFFIC MANAGEMENT PLAN SHEET NUMBER
- EXISTING (TO REMAIN) BUS STOP ID #
- EXISTING (TO REMOVE) BUS STOP ID #

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MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS
HYDE PARK AVENUE

KEY PLAN 1 OF 2

AREA: - BOSTON AUGUST 2020
DISTRICT: # DRAWING NO. G-002
SHEET 02 OF 101

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- LEGEND:**
- TRAFFIC SIGNAL PLAN SHEET NUMBER
 - TRAFFIC SIGN AND PAVEMENT MARKINGS SHEET NUMBER
 - TRAFFIC MANAGEMENT PLAN SHEET NUMBER
 - PROPOSED (EXISTING TO REMAIN) BUS STOP ID #

100 0 100 200
SCALE IN FEET

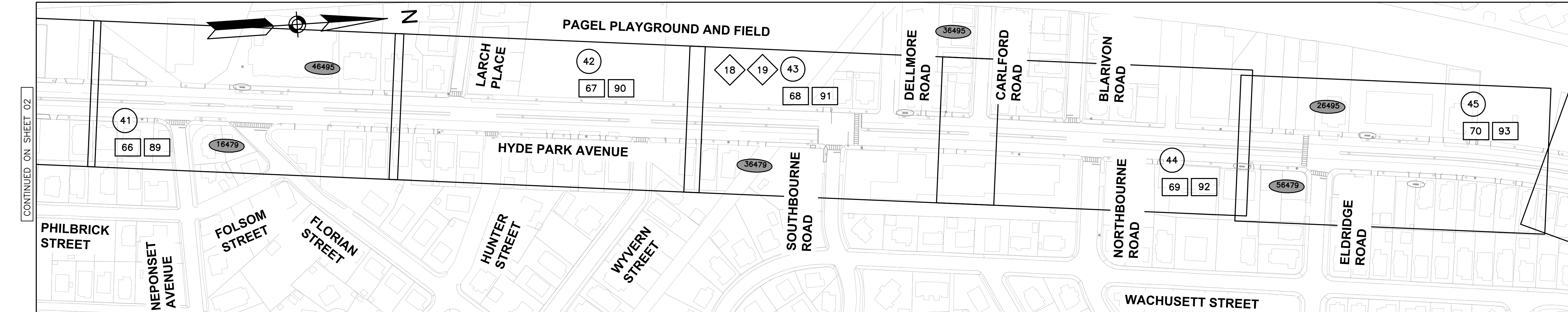
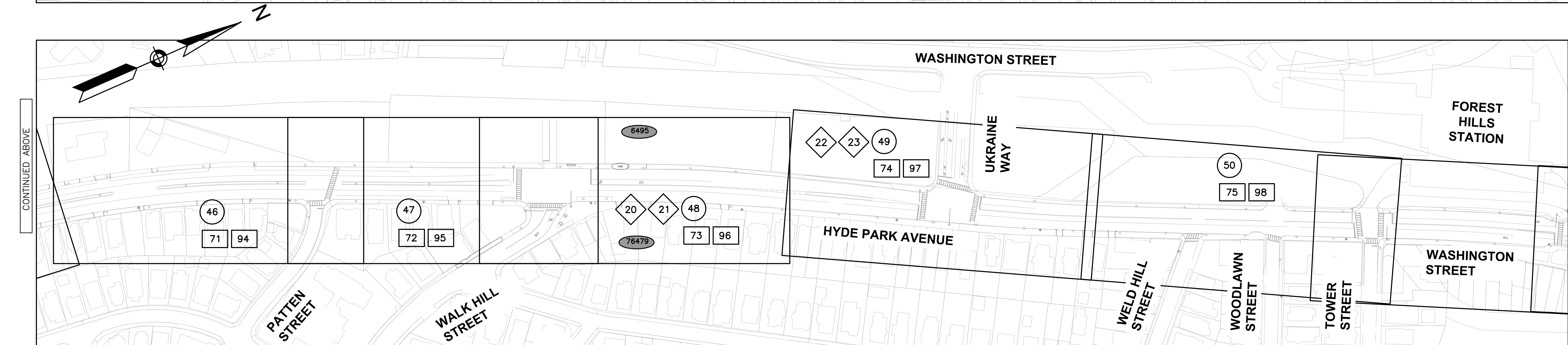
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ENGINEERING DIVISION
MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS

HYDE PARK AVENUE

KEY PLAN 2 OF 2

AREA: - BOSTON AUGUST 2020
DISTRICT: # DRAWING NO. G-003
SHEET 03 OF 101



c:\pwworking\east01\1626747\MBTA-HPA-G-004.dwg

GENERAL NOTES

1. TREE TRIMMING SHALL BE PERFORMED IN LOCATIONS WHERE TREES IMPACT BUS OPERATIONS AND BICYCLIST MANEUVERS AS DETERMINED BY THE MBTA AND CITY OF BOSTON ARBORIST.
2. EXISTING BASEMAP IS BASED OFF OF CITY GIS DATA.
3. EXISTING PAVEMENT MARKINGS SHALL BE FIELD VERIFIED. REMOVE EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH PROPOSED PAVEMENT MARKINGS AND AS DIRECTED BY THE ENGINEER.
4. BUS LANE LEGEND AND ARROWS SHALL BE WHITE PAINT WITH HIGH FRICTION SURFACE COATING. RED AND GREEN PAINT SHALL BE HIGH FRICTION SURFACE TREATMENT. ALL OTHER PERMANENT PAVEMENT MARKINGS SHALL BE THERMOPLASTIC MATERIAL UNLESS OTHERWISE NOTED AND SHALL CONFORM TO BTD LAYOUT SPECIFICATIONS.
5. ALL EXISTING REGULATORY AND WARNING SIGNS WITHIN THE PROJECT LIMITS WHICH CONFLICT WITH THE PROPOSED SIGNS ARE TO BE REMOVED AND RETURNED TO BTD SIGN SHOP UNLESS OTHERWISE NOTED.
6. SIGN LOCATIONS ARE APPROXIMATE. ALL SIGN POSTS SHALL BE FIELD LOCATED TO PROVIDE A MINIMUM OFFSET OF 18 INCHES AND A MAXIMUM OFFSET OF 2 FEET FROM THE CURB WITH THE EXCEPTION OF SP SIGNS WHICH SHALL BE INSTALLED AT A MINIMUM OFFSET OF 2 FEET.
7. SEE TRAFFIC SIGN SUMMARY FOR PROPOSED SIGNS.
8. PARKING REGULATION SIGNAGE SHALL BE INSTALLED AT A 45 DEGREE ANGLE TO THE DIRECTION OF TRAFFIC. ALL OTHER SIGNS SHALL BE INSTALLED PERPENDICULAR TO TRAFFIC.
9. MBTA BUS STOP SIGNS SHALL BE INSTALLED AND RELOCATED BY THE MBTA WITH THE UPDATED STOP ID, AS APPLICABLE. NEW POSTS FOR THE MBTA BUS STOP SIGNS TO BE INSTALLED BY MBTA. CONTRACTOR SHALL BAG/UNBAG NEW OR RELOCATED MBTA BUS STOP SIGNS UNTIL THE PROPOSED PAVEMENT MARKINGS ARE INSTALLED.
10. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SEQUENCE THE WORK SUCH THAT THERE WILL BE NO CONFLICTS AT ANY TIME BETWEEN TRAFFIC PATTERNS AND TRAFFIC CONTROL DEVICES (NEW OR TEMPORARY) WITHIN THE LIMITS OF CONSTRUCTION. NEW SIGNS SHALL BE FULLY INSTALLED AT THE SAME TIME OR PRIOR TO THE INSTALLATION OF NEW PAVEMENT MARKINGS. SIGNS CONFLICTING WITH EXISTING PAVEMENT MARKINGS SHALL BE COVERED UNTIL THE FINAL PAVEMENT MARKINGS ARE INSTALLED. ONCE THE NEW PAVEMENT MARKINGS ARE INSTALLED, SIGNS SHALL BE PROMPTLY UNCOVERED.
11. PROPERTY LINES SHOWN ARE APPROXIMATE AND BASED OFF OF CITY GIS INFORMATION UNLESS OTHERWISE NOTED.

TRAFFIC SIGNAL LEGEND

PROPOSED	EXISTING (TO REMAIN)	REMOVE/ABANDON	DESCRIPTION
			SIGNAL POST
			MAST ARM
			VEHICULAR SIGNAL
			PULL BOX
			CONDUIT
			SYSTEM DETECTOR

PAVEMENT MARKING LEGEND

	4" SOLID WHITE EDGE LINE
	4" SOLID YELLOW EDGE LINE
	4" SOLID WHITE LANE LINE
	4" BROKEN WHITE LANE LINE 10' MARK - 30' SKIP
	4" DOTTED WHITE LANE LINE 2' MARK - 4' SKIP
	8" SOLID WHITE CHANNELIZATION LINE
	8" SOLID YELLOW CHANNELIZATION LINE
	2-4" YELLOW CENTER LINES, 4" GAP
	WHITE STOP LINE (24" UNLESS OTHERWISE SPECIFIED)
	WHITE - CROSS WALK (12" LINES, 10' O.C.; 12" LONGITUDINAL LINES, 4' O.C.) (UNLESS OTHERWISE SHOWN)
	8" SOLID WHITE CHANNELIZATION (5' O.C. @45').
	4" DOTTED YELLOW CENTER LINES, 4" GAP 2' MARK - 4' SKIP

STREET FURNITURE LEGEND

PROPOSED	EXISTING	DESCRIPTION
		SIGN POST
		STREET LIGHT
		HYDRANT
		MAILBOX
		FIRE ALARM BOX
		WHEELCHAIR RAMP

ABBREVIATIONS

ADJ	ADJUST
ABAN.	ABANDON
RET.	RETAIN
REM.	REMOVE
R&D	REMOVE & DISCARD
R&S	REMOVE & STACK
R&R	REMOVE & RESET
R&T	REMOVE & TRANSPORT
N.I.C.	NOT IN CONTRACT
B.O.	BY OTHERS
F & C	FRAME AND COVER
F & G	FRAME AND GRATE
R.C.P.	REINFORCED CONCRETE PIPE
D.I.P.	DUCTILE IRON PIPE
PBS	PLANTABLE SOIL BORROW
TS	TRAFFIC SIGNAL
C.I.T.	CHANGE IN TYPE

OTHER LEGEND

PROPOSED	EXISTING	DESCRIPTION
		PROPOSED (NEW) BUS STOP ID #
		PROPOSED (EXISTING TO REMAIN) BUS STOP ID #
		EXISTING (TO REMOVE) BUS STOP ID #
		SAWCUT
		PROPERTY LINE (APPROXIMATE)
		POLICE DETAIL

BUS STOP ELEMENTS LEGEND

	LANDING AREA
	CLEAR ZONE
	40' BUS FOOTPRINT (PROVIDED ON PLAN FOR REFERENCE PURPOSES ONLY)

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MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS

HYDE PARK AVENUE

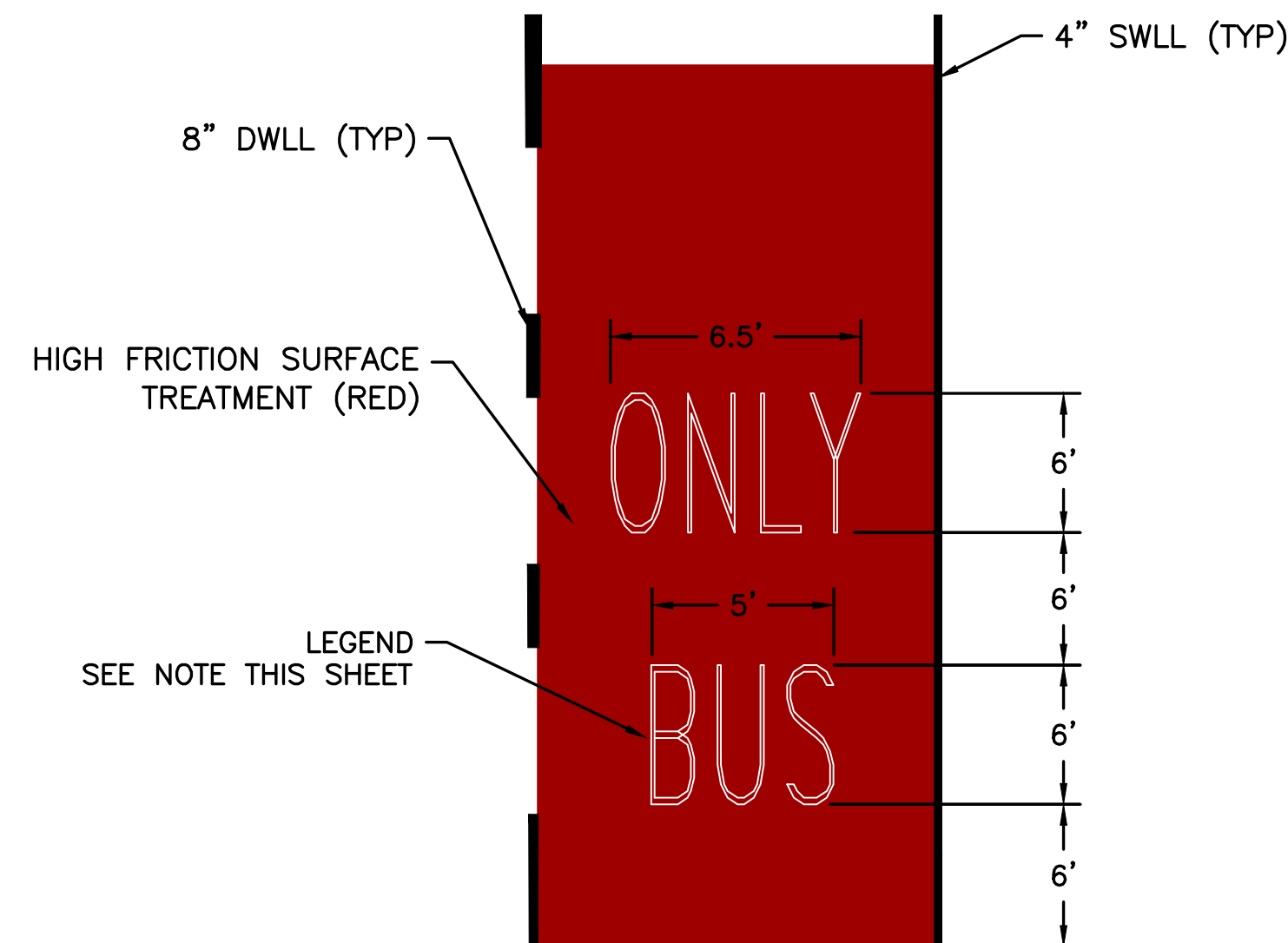
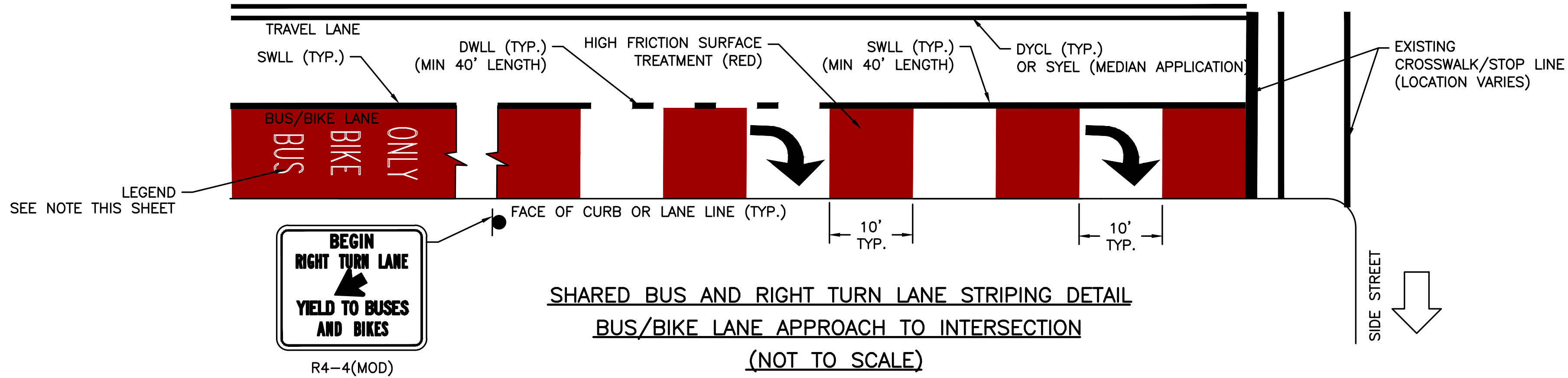
GENERAL NOTES AND LEGEND

AREA: -	BOSTON	AUGUST 2020
DISTRICT: #		DRAWING NO. G-004
		SHEET 04 OF 101

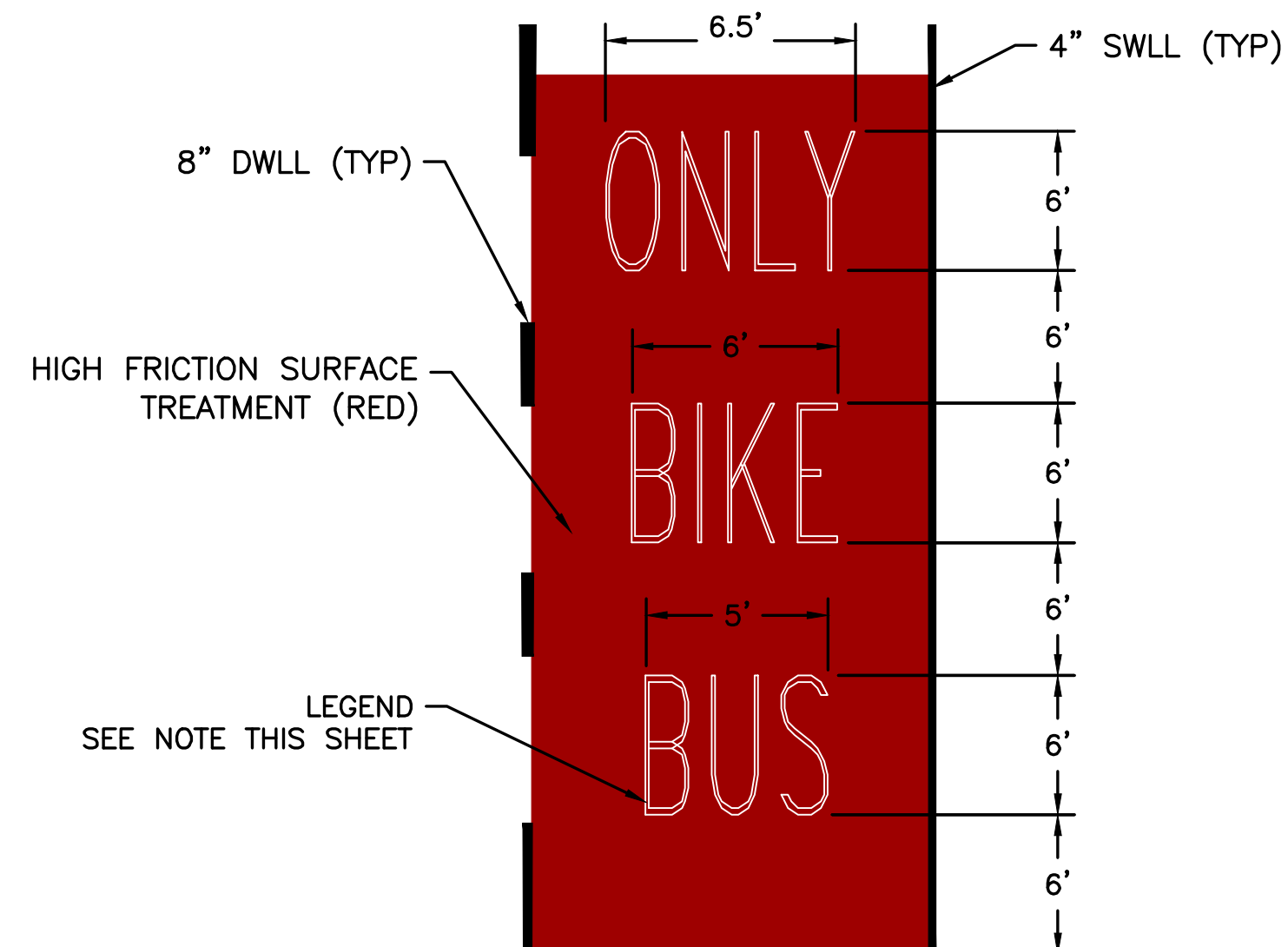
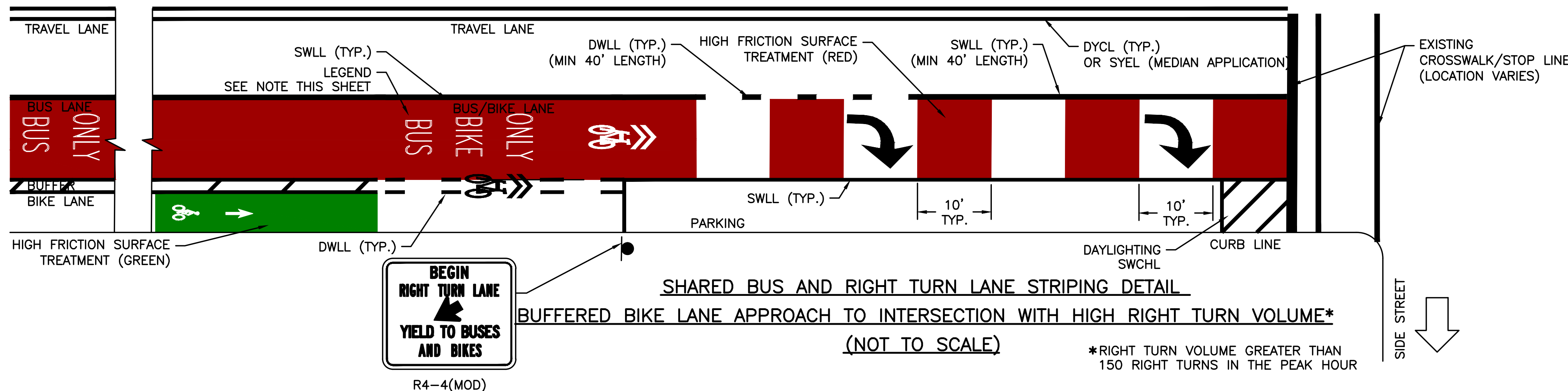
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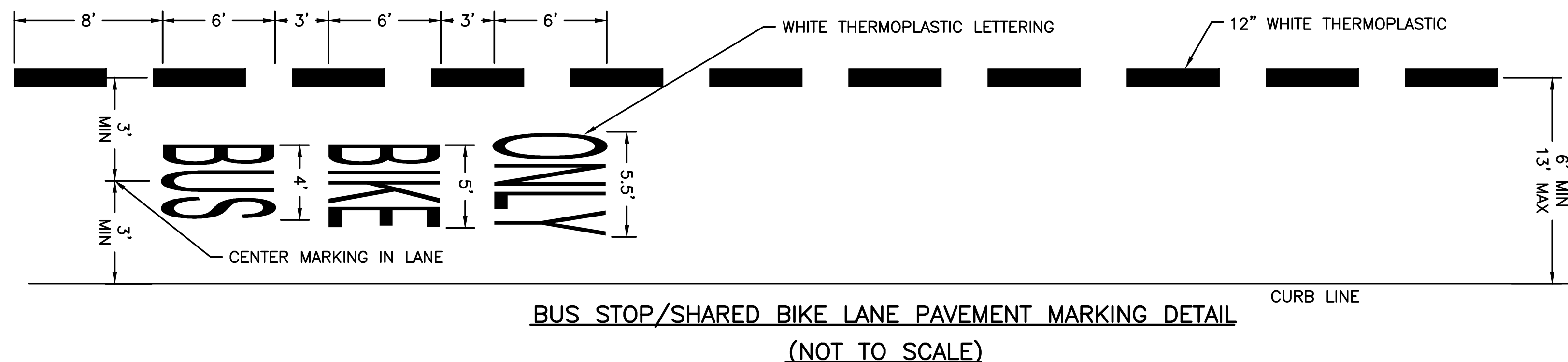
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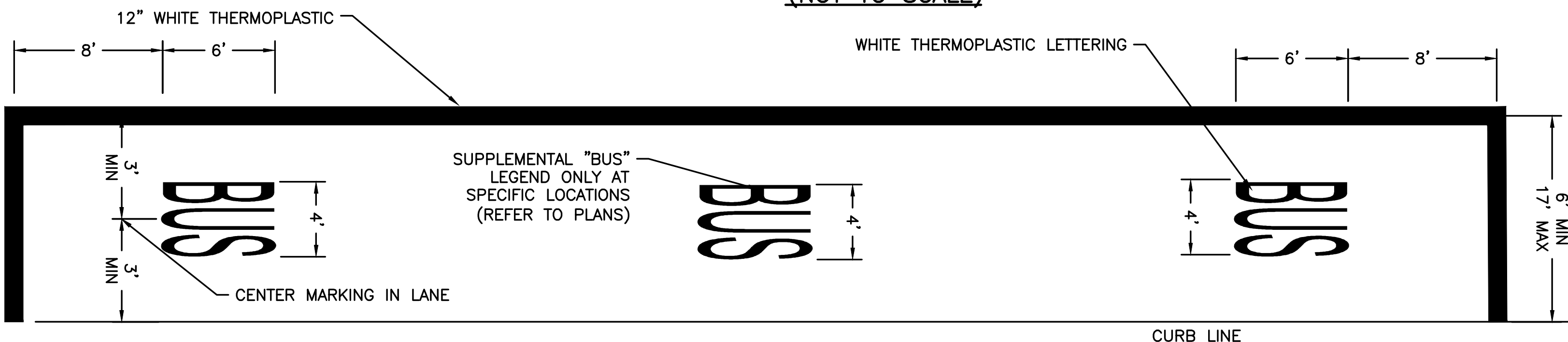
"BUS ONLY" LANE PAVEMENT MARKING DETAIL
(NOT TO SCALE)



"BUS BIKE ONLY" LANE PAVEMENT MARKING DETAIL
(NOT TO SCALE)



BUS STOP/SHARED BIKE LANE PAVEMENT MARKING DETAIL
(NOT TO SCALE)



BUS STOP PAVEMENT MARKING DETAIL
(NOT TO SCALE)

NOTE: LEGEND SHALL BE CENTERED WITHIN BUS LANE AND SHALL BE PAINT WITH HIGH FRICTION SURFACE COATING.

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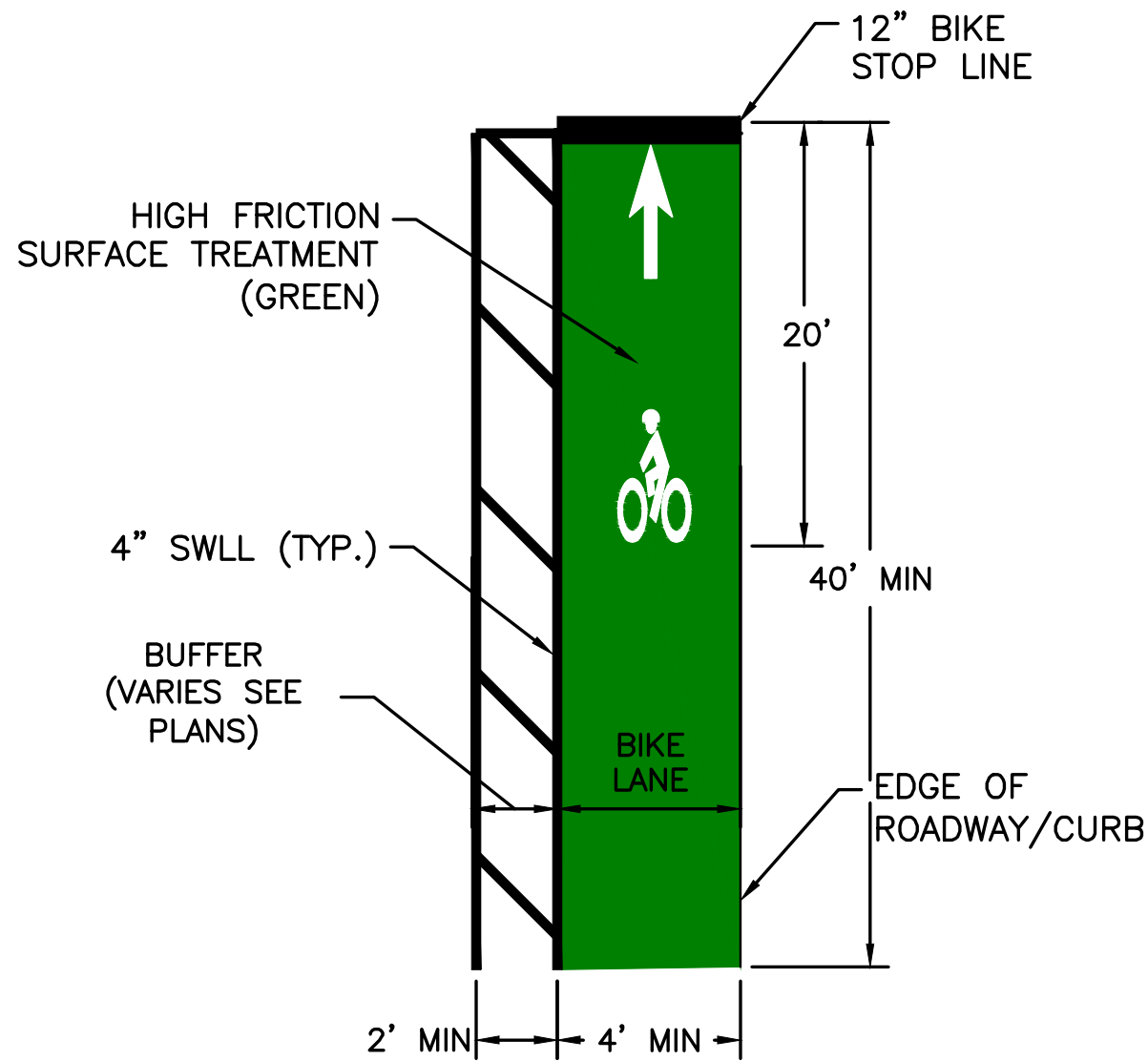
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ENGINEERING DIVISION
MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS
HYDE PARK AVENUE

DETAILS

AREA: -
DISTRICT: #
BOSTON
AUGUST 2020
DRAWING NO. DET-001
SHEET 05 OF 101

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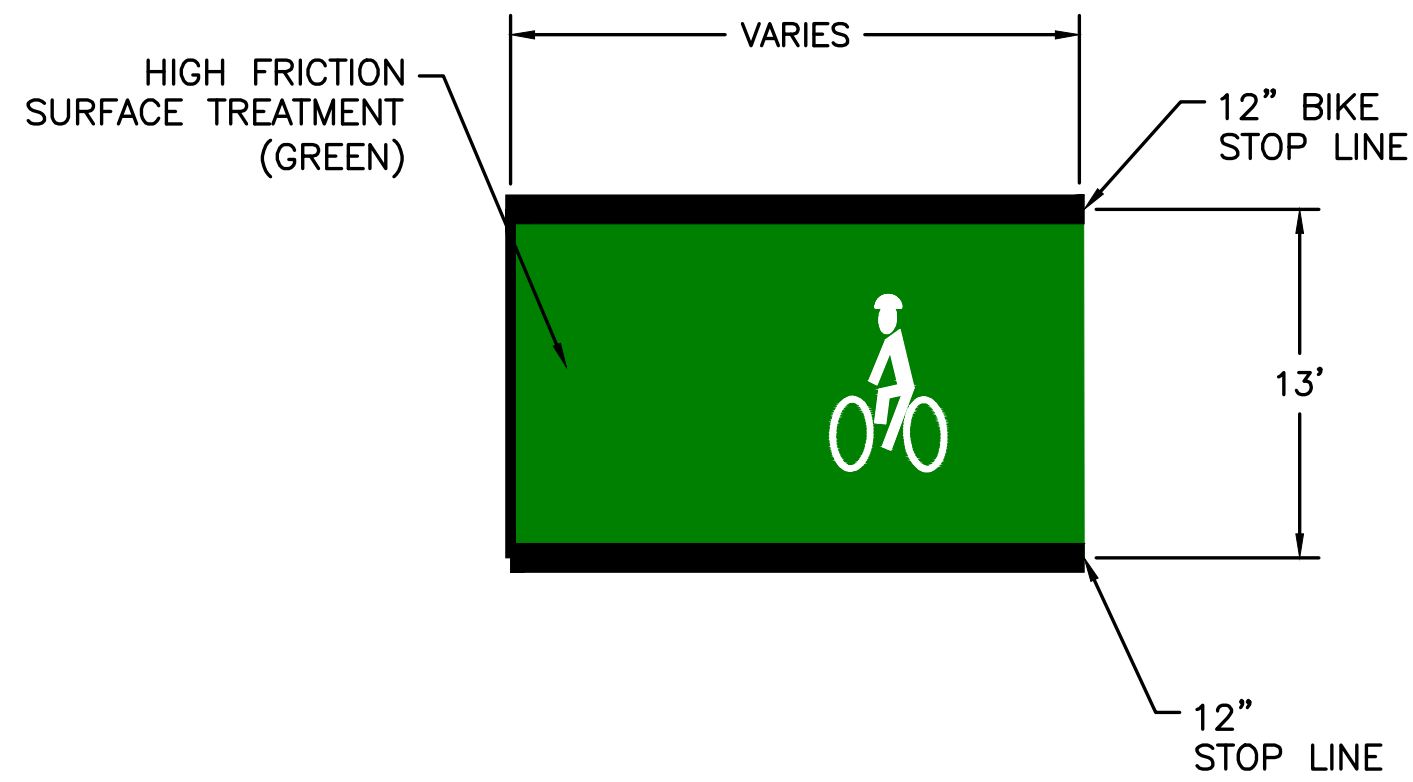
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BIKE LANE AT INTERSECTION DETAIL

(NOT TO SCALE)

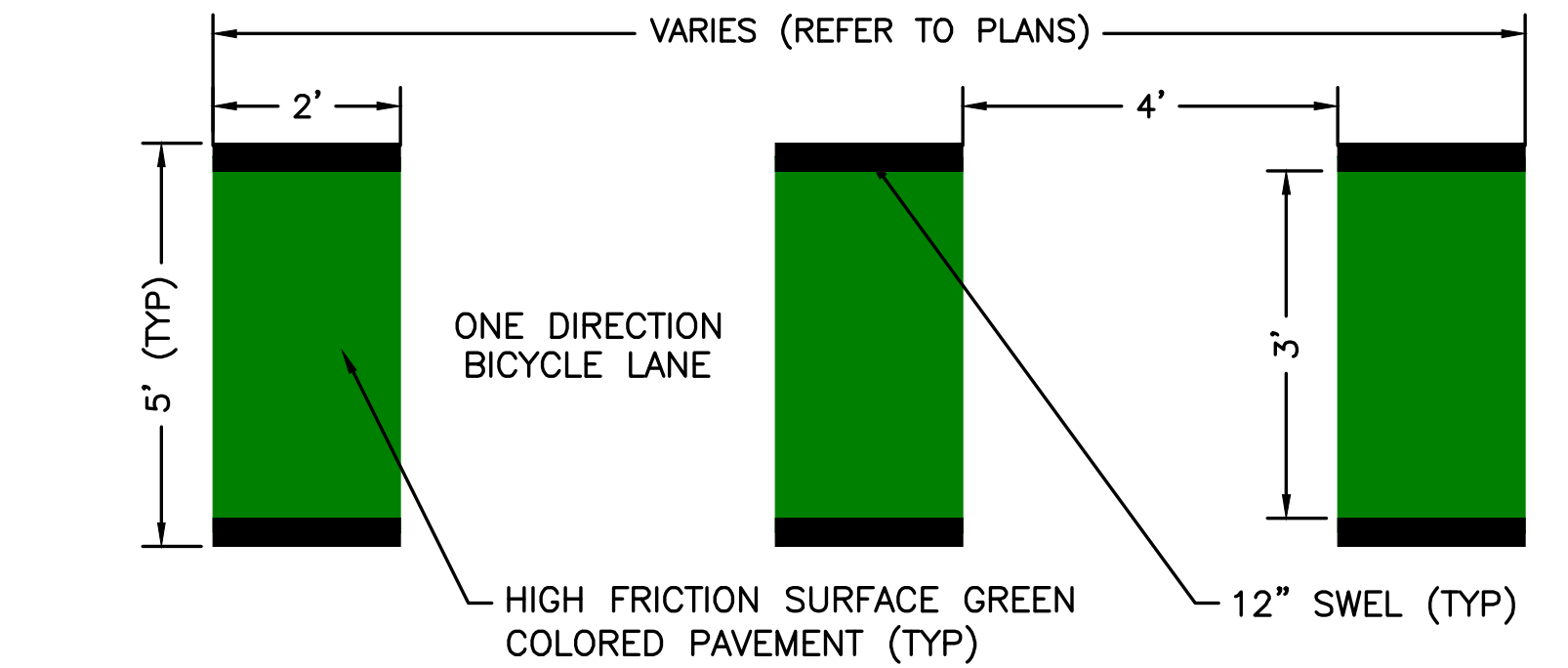
NOTE: BICYCLE SYMBOL SHALL BE PAINT WITH HIGH FRICTION SURFACE COATING



BIKE BOX DETAIL

(NOT TO SCALE)

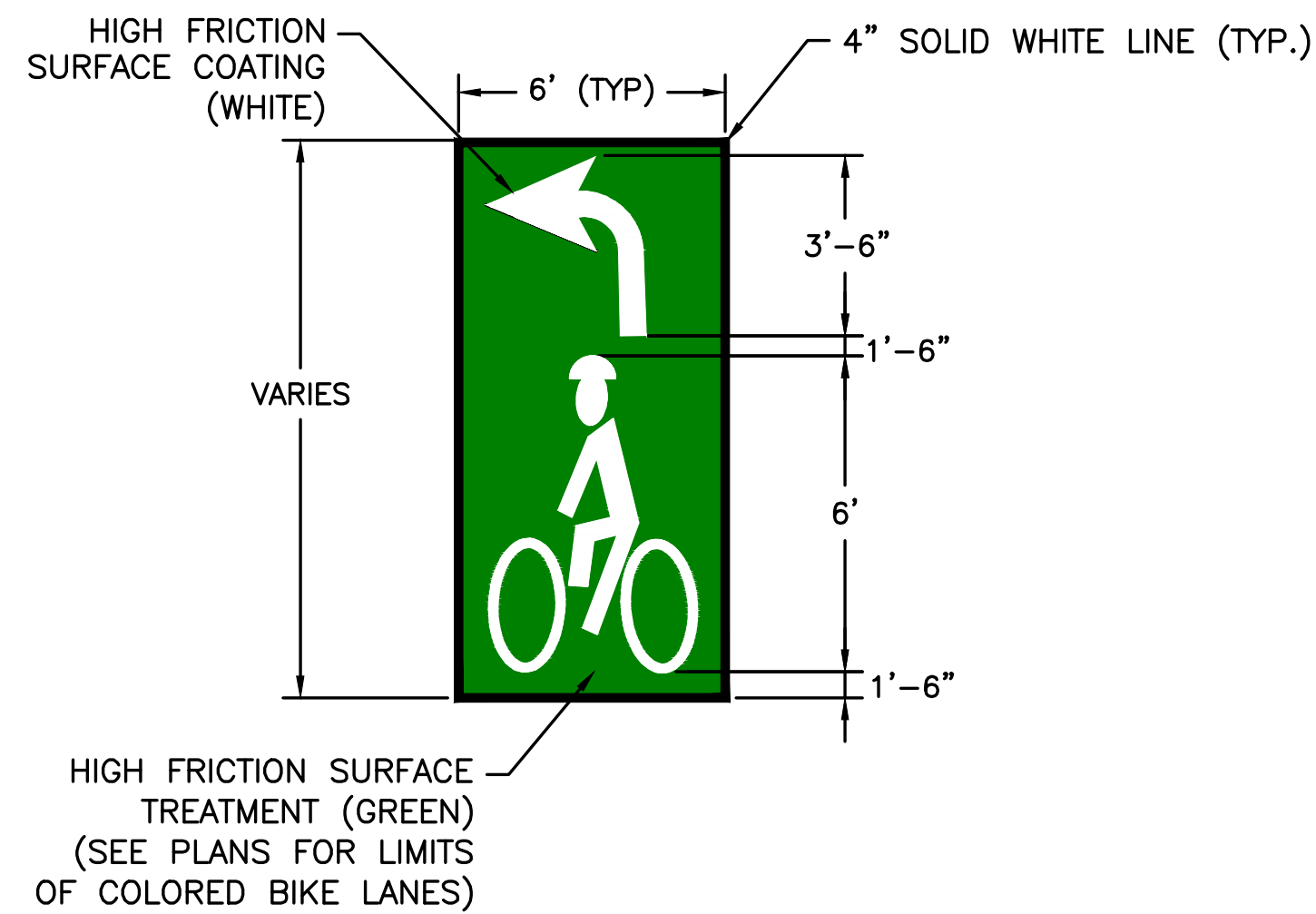
NOTE: BICYCLE SYMBOL SHALL BE PAINT WITH HIGH FRICTION SURFACE COATING



BICYCLE INTERSECTION CROSSWALK (BICW) PAVEMENT MARKING DETAIL

(NOT TO SCALE)

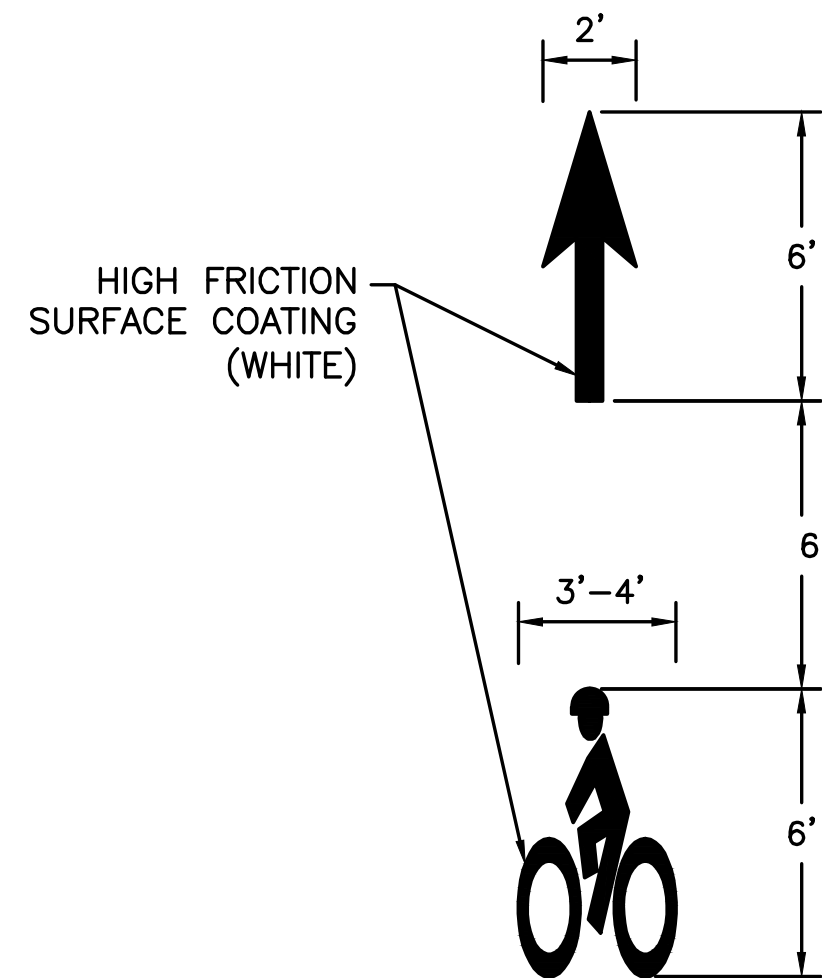
- NOTES:
1. HIGH FRICTION SURFACE TREATMENT (GREEN) IS USED WHERE MOTOR VEHICLE TRAFFIC CAN TURN RIGHT ACROSS THE BICYCLE LANE. SEE PLANS FOR LOCATIONS.
 2. INSTALL HIGH FRICTION SURFACE TREATMENT (GREEN) BETWEEN 2' DASHED WHITE LANE LINES AS SHOWN ON PLANS
 3. INSTALL HIGH FRICTION SURFACE TREATMENT (GREEN) SO THAT CROSSWALK MARKINGS ARE NOT DISTURBED.
 4. DESIGN PLANS SHOULD BE CONSULTED FOR VARIATIONS.



BIKE TWO-STAGE LEFT TURN BOX DETAIL

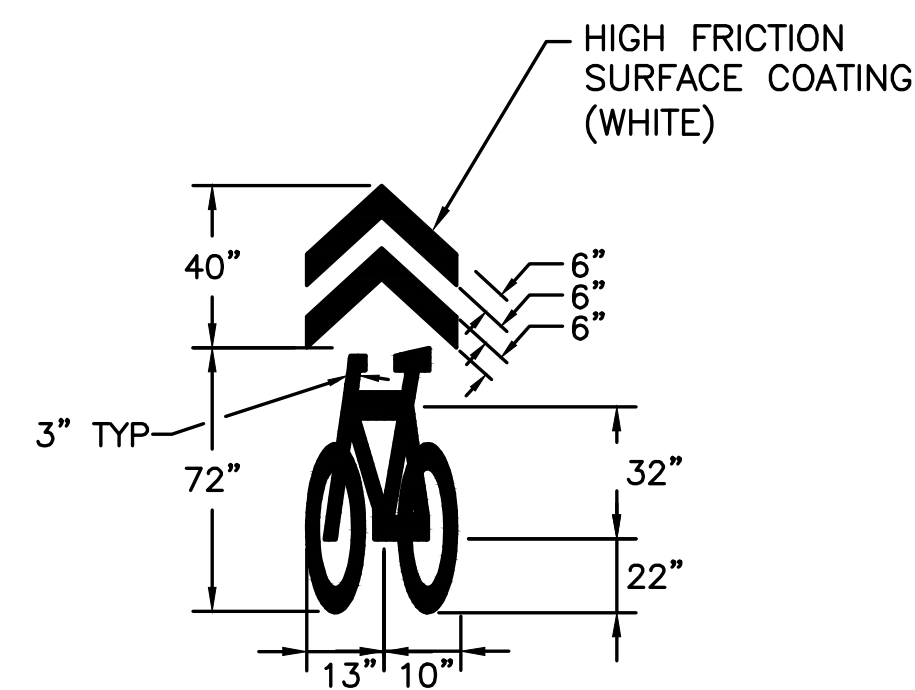
(NOT TO SCALE)

- NOTES:
1. REFER TO FIGURE 9C-6 IN THE MUTCD FOR MORE DETAIL.



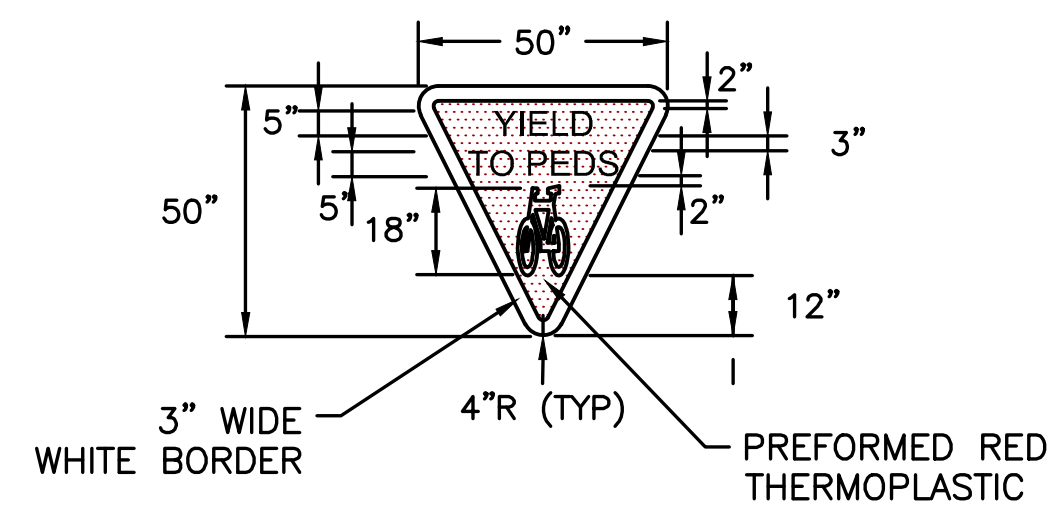
BICYCLE LANE PAVEMENT MARKING DETAIL

(NOT TO SCALE)



BIKE SHARROW DETAIL

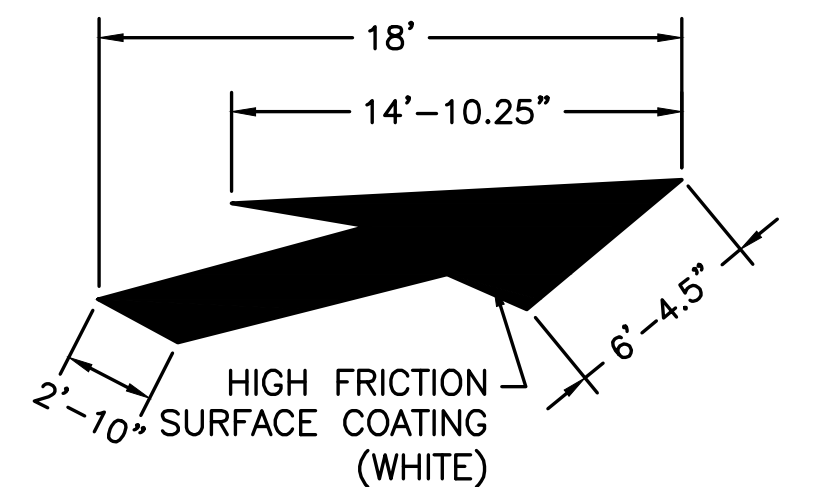
(NOT TO SCALE)



BIKES YIELD TO PEDS PAVEMENT MARKING DETAIL

(NOT TO SCALE)

- NOTE: BIKES YIELD TO PEDS PAVEMENT MARKINGS SHALL BE SURFACE APPLIED TAPE.



DROP LANE ARROW - LEFT

(NOT TO SCALE)

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MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS

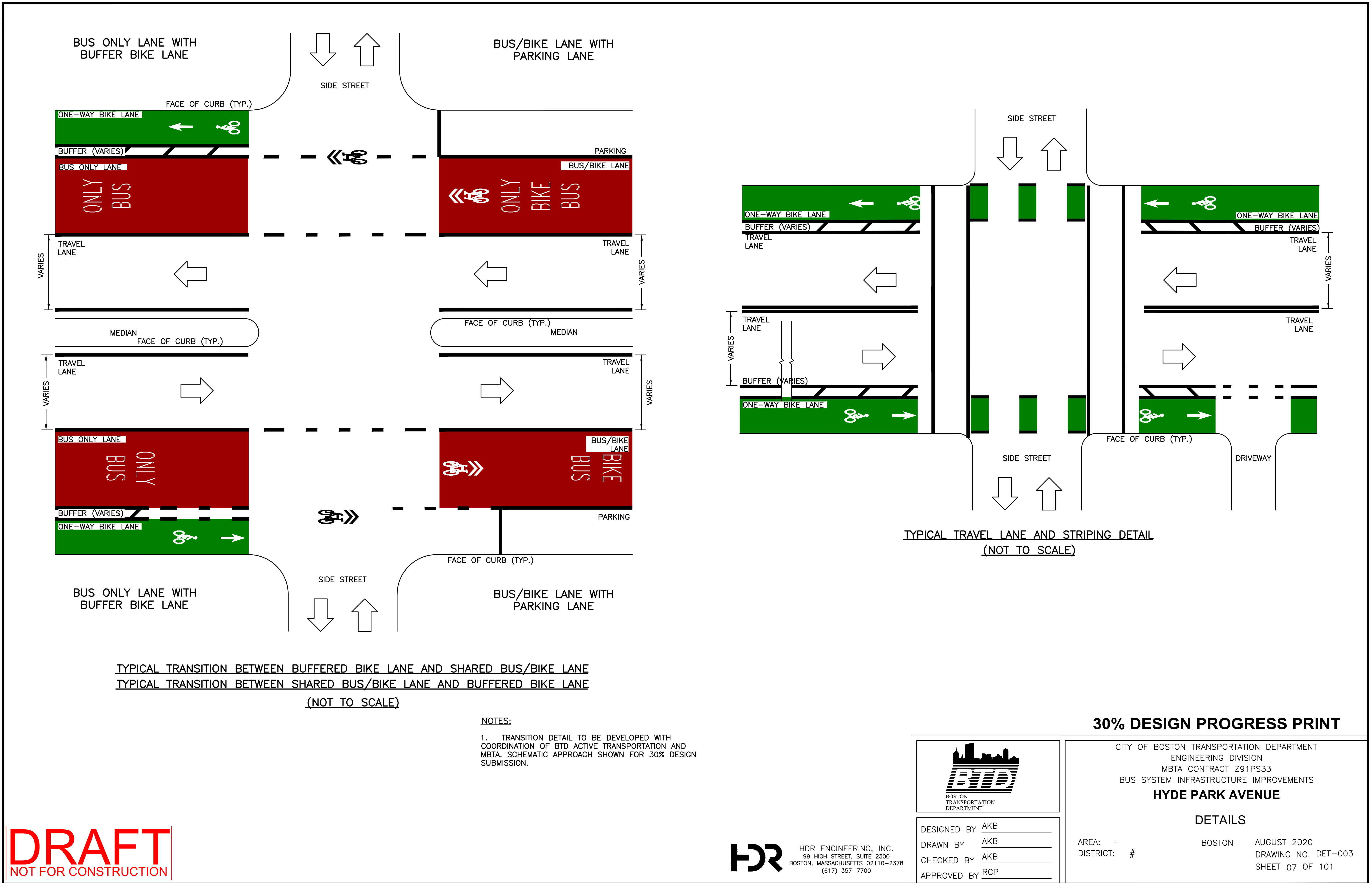
HYDE PARK AVENUE

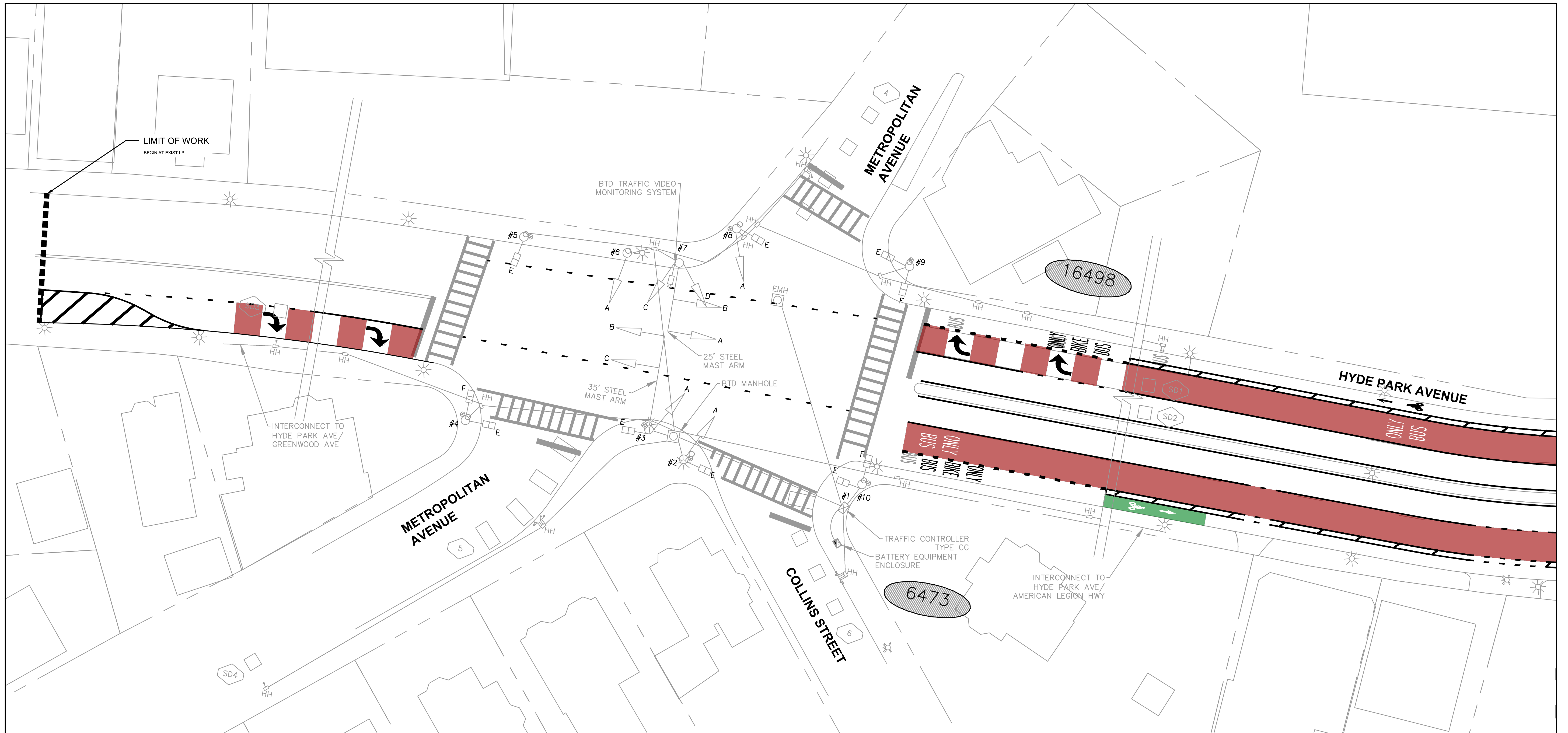
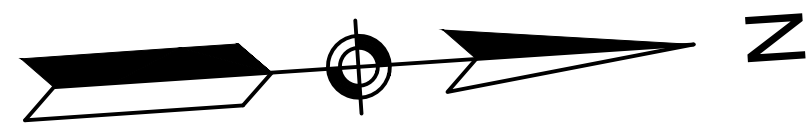
DETAILS

AREA: -
DISTRICT: #

BOSTON AUGUST 2020
DRAWING NO. DET-002
SHEET 06 OF 101

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NOTES

1. NO TRAFFIC SIGNAL EQUIPMENT MODIFICATIONS ARE PROPOSED FOR THE RAPID RESPONSE BUS LANE PROJECT. EXISTING TRAFFIC SIGNAL EQUIPMENT SHOWN

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BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS

HYDE PARK AVENUE

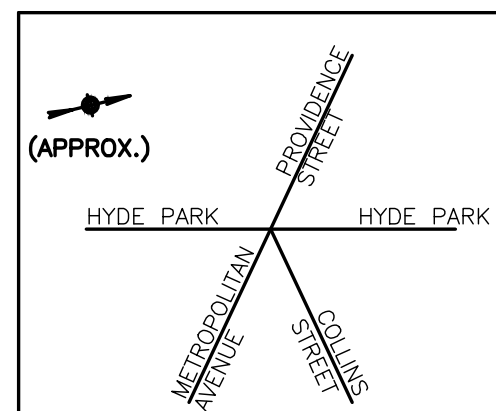
**TRAFFIC SIGNAL PLAN AT
METROPOLITAN AVENUE**

AREA: - BOSTON AUGUST 2020
DISTRICT: # DRAWING NO. SP-001
SHEET 08 OF 101

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TIMING AND SEQUENCE CHART

(APPROX.) 																							OPERATION FLASHING
		Ø1 + Ø3			Ø2 + Ø3			Ø4			Ø5			Ø6									
		GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL							
STREET/DIRECTION/DISPLAY		GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL							
HYDE PARK AVE/NB/3B,3C		G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R							FY
HYDE PARK AVE/SB/7B		G	Y	R	R	R	R	R	R	R	R	R	R	G	Y	R							FY
HYDE PARK AVE/SB LT/7A		G	Y	R	R	R	R	R	R	R	R	R	R	GL/G	YL/G	G							FY
COLLINS ST/WB/7D,8A		R	R	R	R	R	R	G	Y	R	R	R	R	R	R	R							FR
METROPOLITAN AVE/WB/6A,7C		R	R	R	R	R	R	G	Y	R	R	R	R	R	R	R							FR
PROVIDENCE ST/EB/2A,3A		R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R							FR
CROSSWALK/E-W/4F,5F,9F,10F		DW	DW	DW	W	FDW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW							OFF
CROSSWALK/N-S/2E,3E,4E,8E,9E,10E		W/FDW	DW	DW	W	FDW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW							OFF
INTERSECTIONS SECONDARY	MINIMUM GREEN	10						5			5			4									
	VEHICLE EXTENSION	2						2			2			2									
	MAXIMUM 1 GREEN	50						15			15			10									
	MAXIMUM 2 GREEN	-						-			-			-									
	YELLOW CLEARANCE		3					3			3			3									
	RED CLEARANCE			2			4			1			1.5			1							
	WALK INTERVAL	7			7																		
	PED. CLEARANCE	10				12																	
MEMORY		-			-			NON-LOCK			NON-LOCK			NON-LOCK									
RECALL		MAX/PED			OFF			OFF			OFF			OFF									

PROGRAM/COORDINATION										
CYCLE NO.	PATTERN	CYCLE LENGTH	OFFSET (SEC.)	PHASE SPLITS IN SECONDS						
				Ø1	Ø2	Ø4	Ø5	Ø6		
1	20	90	8	28	23	14	15	10	HOURS OF OPERATION	
2	19	100	96	28	23	14	25	10	ALL OTHER TIMES	
3	21	100	47	33	23	14	20	10	M-F, 6:00 AM – 10:00 AM	
									M-F, 3:00 PM – 7:00 PM	
COORDINATED OPERATION									EVERYDAY	
PROGRAMMED FLASH									3:00AM – 6:00AM	

[illegible]

S/P = SERIES/PARALLEL
E = EXISTING

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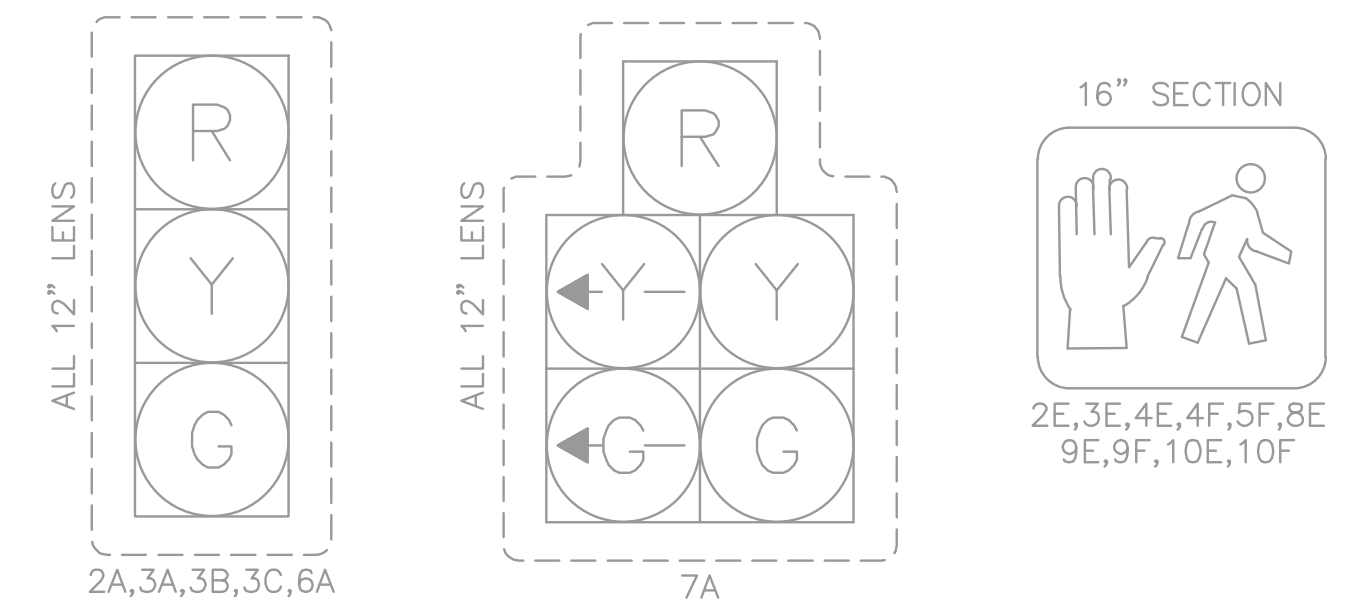


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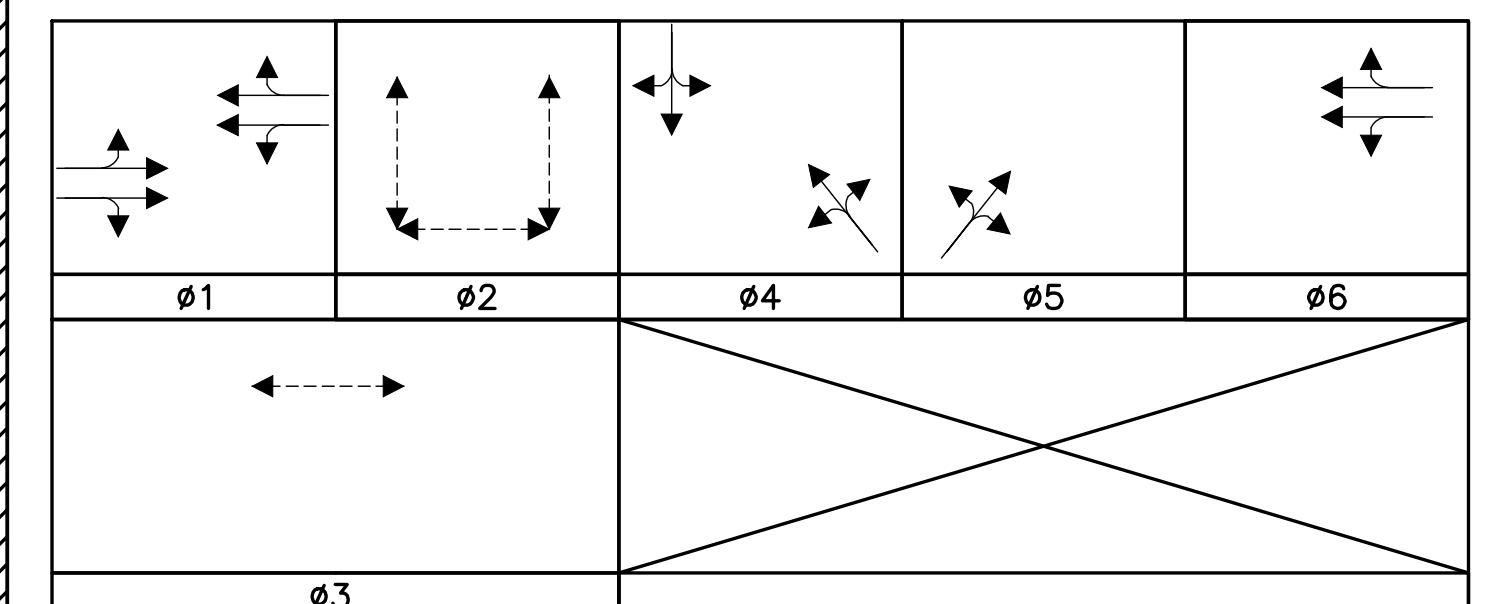


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SIGNAL DISPLAY
PER BTD SPECIFICATIONS



PHASING DIAGRAM



MAJOR ITEMS REQUIRED

[illegible]

NOTE:

- | | |
|----|--|
| 1. | EXISTING TIMING DATA SHOWN. PROPOSED TIMING AND COORDINATION DATA TO BE INCLUDED IN FUTURE SUBMISSIONS AFTER CONFIRMATION OF SIGNAL PHASING WITH BTD AND MBTA. |
| 2. | DETECTION DATA TO BE INCLUDED IN FUTURE SUBMISSIONS AFTER CONFIRMATION OF EXISTING DETECTION AT THE INTERSECTION. |

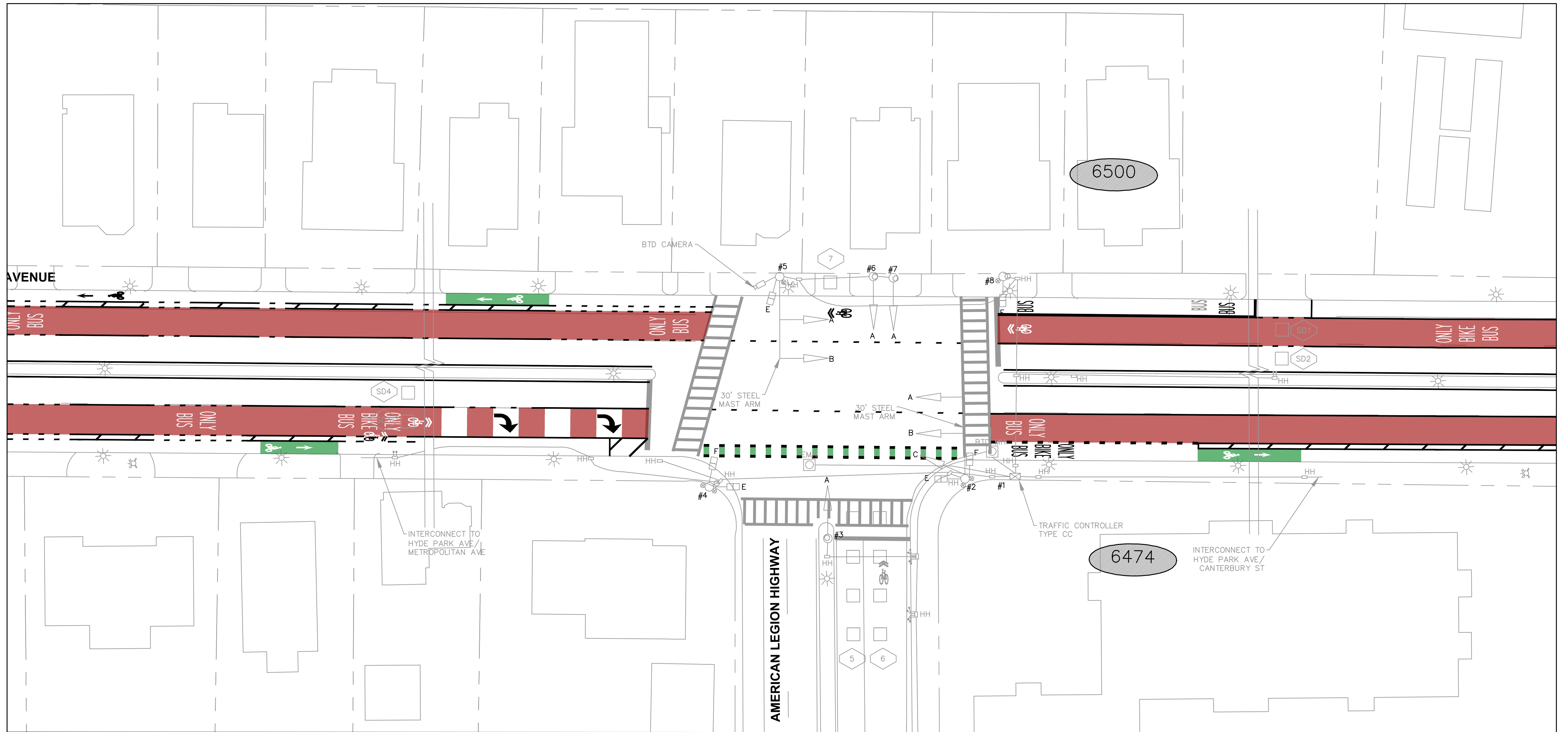
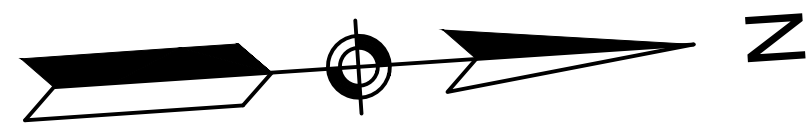
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HYDE PARK AVENUE

TRAFFIC SIGNAL SCHEDULE AT METROPOLITAN AVENUE

AREA: - BOSTON AUGUST 2020
DISTRICT: # DRAWING NO. SS-001
SHEET 09 OF 101



NOTES

1. NO TRAFFIC SIGNAL EQUIPMENT MODIFICATIONS ARE PROPOSED FOR THE RAPID RESPONSE BUS LANE PROJECT. EXISTING TRAFFIC SIGNAL EQUIPMENT SHOWN

30% DESIGN PROGRESS PRINT



DESIGNED BY GSA
DRAWN BY GSA
CHECKED BY AKB
APPROVED BY RCP

CITY OF BOSTON TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION
MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS

HYDE PARK AVENUE
TRAFFIC SIGNAL PLAN AT AMERICAN
LEGION HIGHWAY

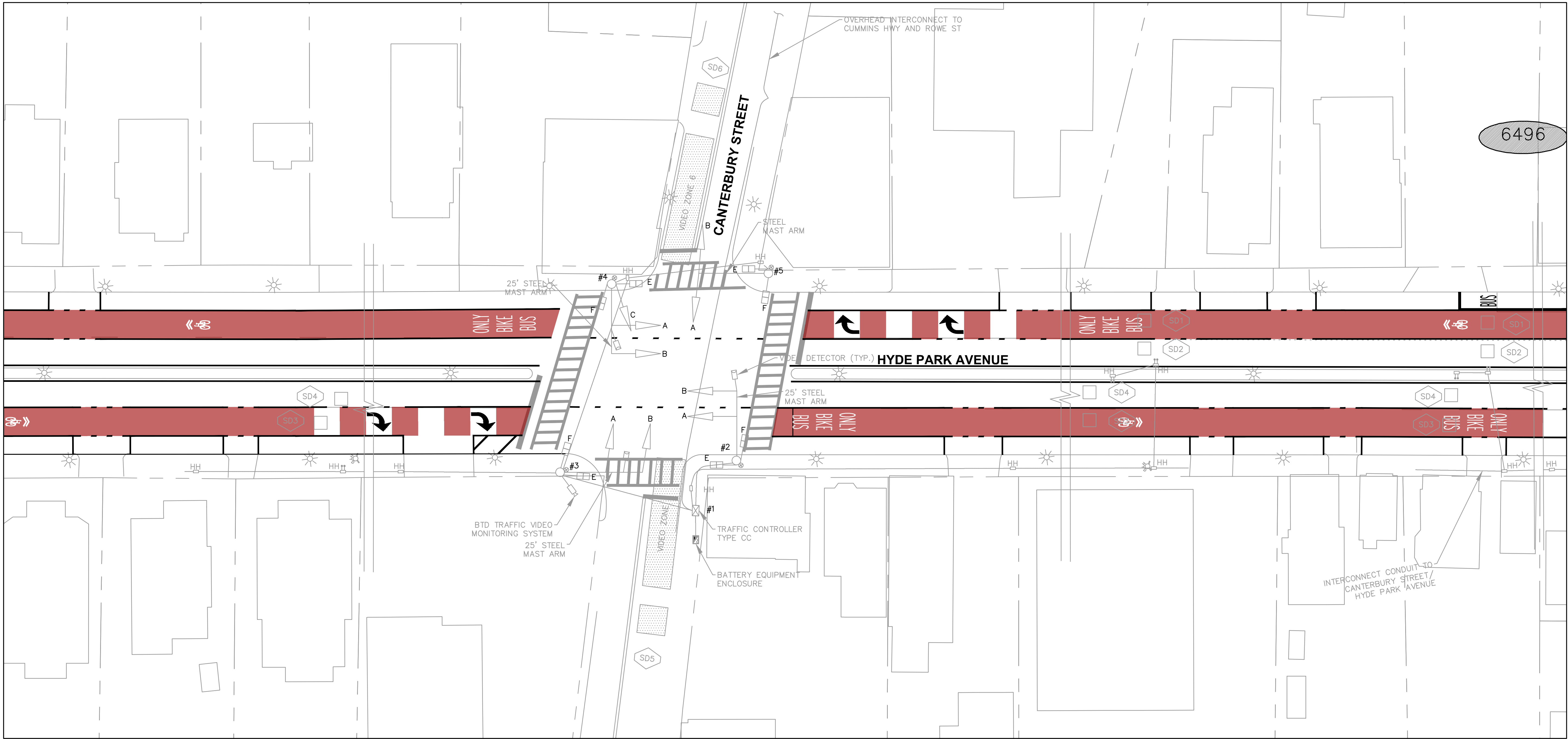
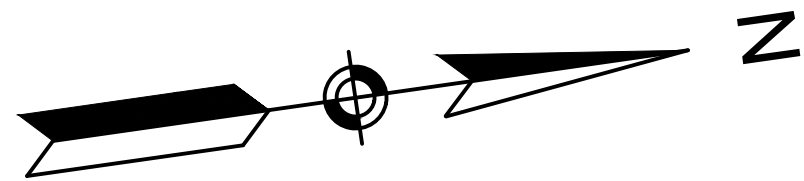
AREA: - BOSTON AUGUST 2020
DISTRICT: # DRAWING NO. SP-002
SHEET 10 OF 101

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NOTES

1. NO TRAFFIC SIGNAL EQUIPMENT MODIFICATIONS ARE PROPOSED FOR THE RAPID RESPONSE BUS LANE PROJECT. EXISTING TRAFFIC SIGNAL EQUIPMENT SHOWN

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CITY OF BOSTON TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION
MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS

HYDE PARK AVENUE

TRAFFIC SIGNAL PLAN AT
CANTERBURY STREET

AREA: - BOSTON AUGUST 2020
DISTRICT: # DRAWING NO. SP-003
SHEET 12 OF 101

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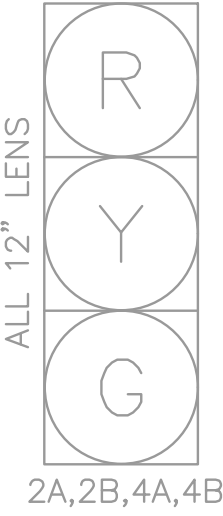
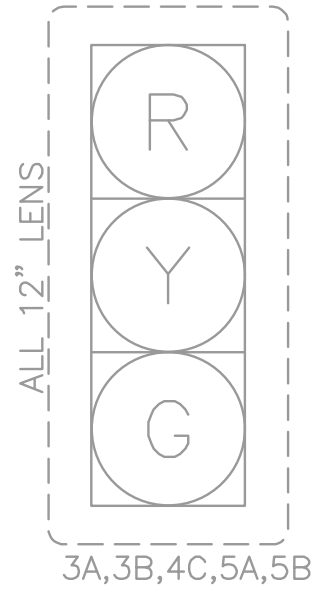
(APPROX.) CANTERBURY AVENUE HYDE PARK AVENUE				TIMING AND SEQUENCE CHART												OPERATION FLASHING		
				ø1,3			ø2,3			ø5								
STREET/DIRECTION/DISPLAY		GRN	CL	CL	GRN	CL	CL	GRN	CL	CL								
HYDE PARK AVE/NB/2A,2B		G	Y	R	R	R	R	R	R	R				FY				
HYDE PARK AVE/SB/4A,4B		G	Y	R	R	R	R	R	R	R				FY				
CANTERBURY ST/EB/3A,3B,5B		R	R	R	R	R	R	G	Y	R				FR				
CANTERBURY ST/WB/4C,5A		R	R	R	R	R	R	G	Y	R				FR				
CROSSWALK/N-S/2E-3E,4E-5E		W/FDW	DW	DW	W	FDW	DW	DW	DW	DW				OFF				
CROSSWALK/E-W/2F-3F,4F-5F		DW	DW	DW	W	FDW	DW	DW	DW	DW				OFF				
INTERSECTOR VERTICAL	MINIMUM GREEN	10			—			8										
	VEHICLE EXTENSION	2			—			2										
	MAXIMUM 1 GREEN	40			—			35										
	MAXIMUM 2 GREEN	45			—			40										
	YELLOW CLEARANCE		3					3										
	RED CLEARANCE			2			4			2								
	WALK INTERVAL	7*			7													
	PED. CLEARANCE	8				13												
MEMORY		—			—			NON-LOCK										
RECALL		MAX/PED			OFF			OFF										
PROGRAM/COORDINATION																		
CYCLE NO.	PATTERN	CYCLE LENGTH	OFFSET (SEC.)	PHASE SPLITS IN SECONDS														
				ø1		ø2		ø5				HOURS OF OPERATION						
1	20	90	71	33		24		33				ALL OTHER TIMES						
2	19	110	62	44		24		42				6:00AM-10:00AM, M-F						
3	21	110	76	42		24		44				3:00PM-7:00PM, M-F						
COORDINATED OPERATION											EVERYDAY							
PROGRAMMED FLASH											3:00AM - 5:00AM							
DETECTOR DATA									CLEARANCES					TECHNICAL NOTES				
IDENT.	QTY.	SIZE	SPLICE	TURNS	MODE	øCALL	øEXT.	CHNL.	FROM	TO				1. *ø3 PED SHALL REST IN WALK DURING ø1				
SD1	1	5'x5'	E	3	PRES.	SYSTEM	—	9		G	R	W	DW	2. ø2 SUBJECT TO PUSHBUTTON ACTUATION ONLY				
SD2	1	5'x5'	E	3	PRES.	SYSTEM	—	10	G	G	Y	—	—					
SD3	1	5'x5'	E	3	PRES.	SYSTEM	—	11	—	—	—	—	—					
SD4	1	5'x5'	E	3	PRES.	SYSTEM	—	12	W	—	—	W	FDW					
SD5	1	VIDEO DETECTOR			PRES.	SYSTEM	—	—										
SD6	1	VIDEO DETECTOR			PRES.	SYSTEM	—	—										
VZ5	1	VIDEO DETECTOR			PRES.	ø4	ø4	—										
VZ6	1	VIDEO DETECTOR			PRES.	ø4	ø4	—										

S/P = SERIES/PARALLEL
E = EXISTING
SD = SYSTEM DETECTOR
VZ = VIDEO ZONE

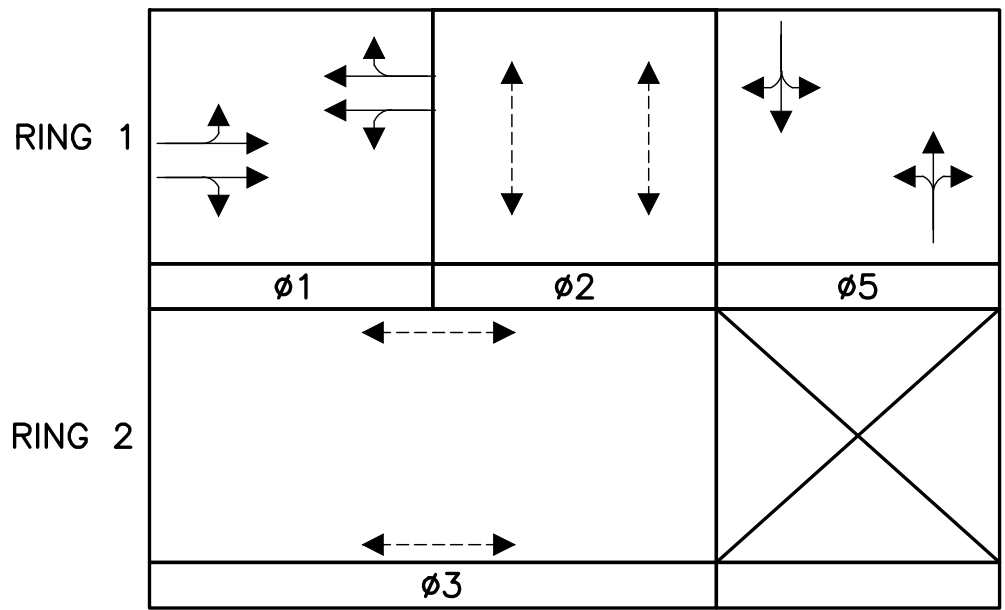
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SIGNAL DISPLAY

PER BTD SPECIFICATIONS



PHASING DIAGRAM



MAJOR ITEMS REQUIRED

QUANTITY	MAJOR ITEMS REQUIRED

- NOTE:
- EXISTING TIMING DATA SHOWN. PROPOSED TIMING AND COORDINATION DATA TO BE INCLUDED IN FUTURE SUBMISSIONS AFTER CONFIRMATION OF SIGNAL PHASING WITH BTD AND MBTA.
 - DETECTION DATA TO BE INCLUDED IN FUTURE SUBMISSIONS AFTER CONFIRMATION OF EXISTING DETECTION AT THE INTERSECTION.

30% DESIGN PROGRESS PRINT

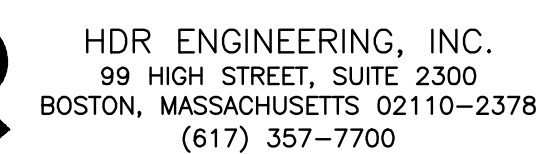
	CITY OF BOSTON TRANSPORTATION DEPARTMENT ENGINEERING DIVISION MBTA CONTRACT Z91PS33 BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS		
	HYDE PARK AVENUE		
	TRAFFIC SIGNAL SCHEDULE AT CANTERBURY STREET		
	DESIGNED BY <u>GSA</u>	AREA: <u>-</u>	BOSTON AUGUST 2020
DRAWN BY <u>GSA</u>	CHECKED BY <u>AKB</u>	DISTRICT: <u>#</u>	DRAWING NO. SS-003
	APPROVED BY <u>RCP</u>		SHEET 13 OF 101



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(617) 357-7700



1. NO TRAFFIC SIGNAL EQUIPMENT MODIFICATIONS ARE PROPOSED FOR THE RAPID RESPONSE BUS LANE PROJECT. EXISTING TRAFFIC SIGNAL EQUIPMENT SHOWN



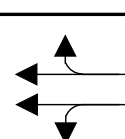
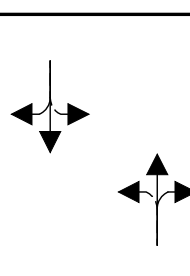
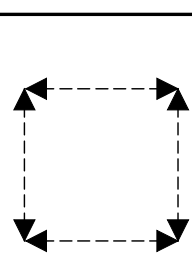
DESIGNED BY	GSA
DRAWN BY	GSA
CHECKED BY	AKB
APPROVED BY	RCP

CITY OF BOSTON TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION
MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS

HYDE PARK AVENUE

TRAFFIC SIGNAL PLAN AT CUMMINS HIGHWAY

AREA: - BOSTON AUGUST 2020
DISTRICT: # DRAWING NO. SP-004
SHEET 14 OF 101

OPERATION
FLASHING[illegible]

CROSSWALK/E-W/5E,6E	DW	DW	DW	W	FDW	DW	DW	DW	DW	DW	DW	DW								OFF
CROSSWALK/E-W/3F,4E,6F,7E	DW	DW	DW	W	FDW	DW	DW	DW	DW	DW	DW	DW								OFF
CROSSWALK/N-S/2E,3E	W/FDW	DW	DW	W	FDW	DW	DW	DW	DW	DW	DW	DW								OFF

[illegible]

MEMORY	—	NON—LOCK	NON—LOCK	—				
RECALL	MAX/PED	OFF	OFF	MAX.				

				PROGRAM/COORDINATION							
CYCLE NO.	PATTERN	CYCLE LENGTH	OFFSET (SEC.)	PHASE SPLITS IN SECONDS							
				Ø1 + Ø3	Ø2 + Ø3	Ø4	Ø5				
1	20	90	68	28	22	30	0				
2	19	110	65	39	22	39	10				M—
3	21	110	70	42	22	36	10				M—
COORDINATED OPERATION											
PROGRAMMED FLASH											

[illegible]

CLEARANCES							
FROM	TO						
	GL	G	R	W	DW		
GL	—	YL	YL	—	—		
G	—	G	Y	—	—		
W	—	—	—	W	FDW		

[illegible]

S/P = SERIES/PARALLEL
E = EXISTING

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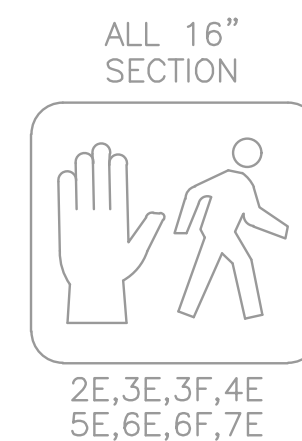
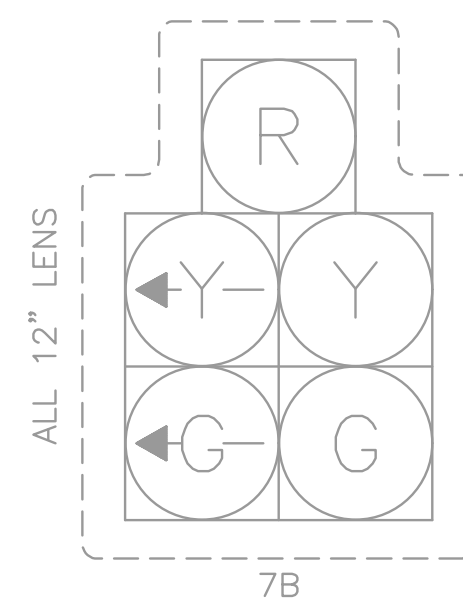
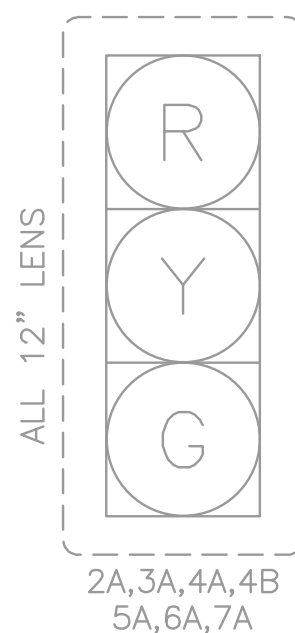


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SIGNAL DISPLAY



ø1	ø2	ø4	ø5
ø3			

[illegible]

NOTE:

1. EXISTING TIMING DATA SHOWN. PROPOSED TIMING AND COORDINATION DATA TO BE INCLUDED IN FUTURE SUBMISSIONS AFTER CONFIRMATION OF SIGNAL PHASING WITH BTD AND MBTA.
2. DETECTION DATA TO BE INCLUDED IN FUTURE SUBMISSIONS AFTER CONFIRMATION OF EXISTING DETECTION AT THE INTERSECTION.

30% DESIGN PROGRESS PRINT

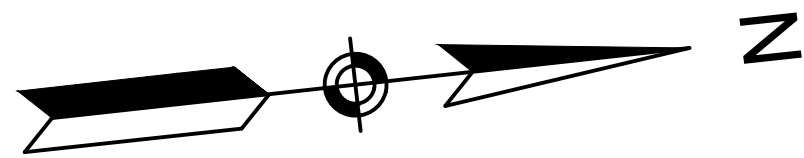
CITY OF BOSTON TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION
MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS

HYDE PARK AVENUE

TRAFFIC SIGNAL SCHEDULE AT CUMMINS HIGHWAY

AREA: - BOSTON AUGUST 2020
DISTRICT: # DRAWING NO. SS-004
SHEET 15 OF 101

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NOTES

1. NO TRAFFIC SIGNAL EQUIPMENT MODIFICATIONS ARE PROPOSED FOR THE RAPID RESPONSE BUS LANE PROJECT. EXISTING TRAFFIC SIGNAL EQUIPMENT SHOWN

30% DESIGN PROGRESS PRINT



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ENGINEERING DIVISION
MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS

HYDE PARK AVENUE

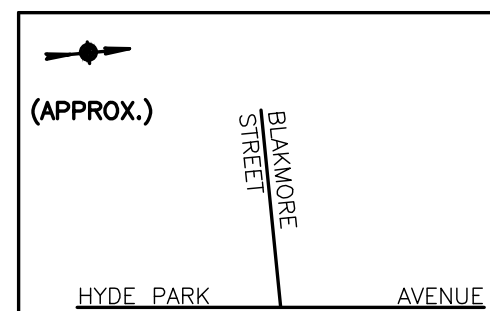
TRAFFIC SIGNAL PLAN AT
BLAKEMORE STREET

AREA: -
DISTRICT: #
BOSTON
AUGUST 2020
DRAWING NO. SP-005
SHEET 16 OF 101

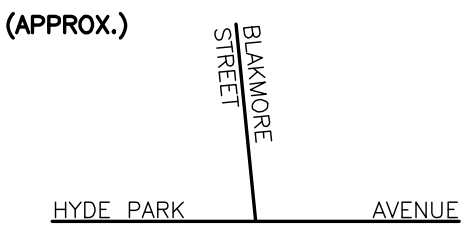
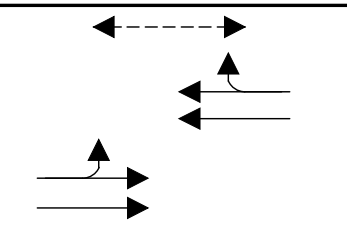
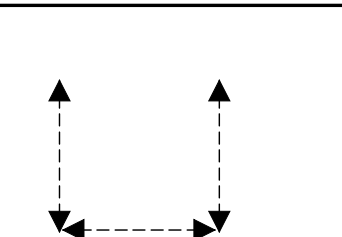
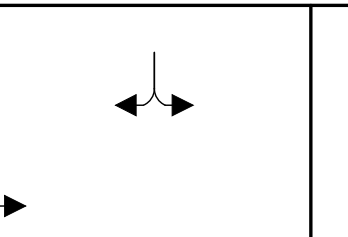
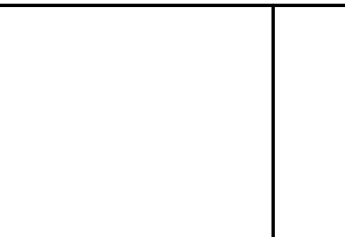
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TIMING AND SEQUENCE CHART

(APPROX.) 																				OPERATION FLASHING
		Ø1 + Ø3			Ø2 + Ø3			Ø4			Ø5									
		STREET/DIRECTION/DISPLAY	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL						
HYDE PARK AVE/NB/6A		G	Y	R	R	R	R	R	R	R	G	G	G						FY	
HYDE PARK AVE/NB LT/6B		G	Y	R	R	R	R	R	R	R	GL/G	YL/G	G						FY	
HYDE PARK AVE/SB/2A,2B		G	Y	R	R	R	R	R	R	R	R	R	R						FY	
BLAKEMORE ST/EB/6C,7A		R	R	R	R	R	R	G	Y	R	R	R	R						FR	
DRIVEWAY/WB/2C,3A		R	R	R	R	R	R	G	Y	R	R	R	R						FR	
CROSSWALK/E-W/2E,5E,6E,8E		DW	DW	DW	W	FDW	DW	DW	DW	DW	DW	DW	DW						OFF	
CROSSWALK/N-S/2F,4E		W/FDW	DW	DW	W	FDW	DW	DW	DW	DW	DW	DW	DW						OFF	
INTERSECTIONS SECONDS	MINIMUM GREEN	10						8			4									
	VEHICLE EXTENSION	2						2			0									
	MAXIMUM 1 GREEN	50						25			10									
	MAXIMUM 2 GREEN	50						25			10									
	YELLOW CLEARANCE		3						3			3								
	RED CLEARANCE			2			4			2			1							
	WALK INTERVAL	7			7															
	PED. CLEARANCE	9				9														
MEMORY		-			-			LOCK			LOCK									
RECALL		MAX/PED			OFF			OFF			OFF									

PROGRAM/COORDINATION										
CYCLE NO.	PATTERN	CYCLE LENGTH	OFFSET (SEC.)	PHASE SPLITS IN SECONDS						
				ø1 + ø3	ø2 + ø3	ø4	ø5			HOURS OF OPERATION
1	20	90	21	34	20	25	11			ALL OTHER TIMES
2	19	100	8	37	20	34	9			M-F, 6:00 AM – 10:00 AM
3	21	100	12	46	20	25	9			M-F, 2:30 PM – 7:00 PM
COORDINATED OPERATION										EVERYDAY
PROGRAMMED FLASH										3:00AM – 6:00AM

[illegible]

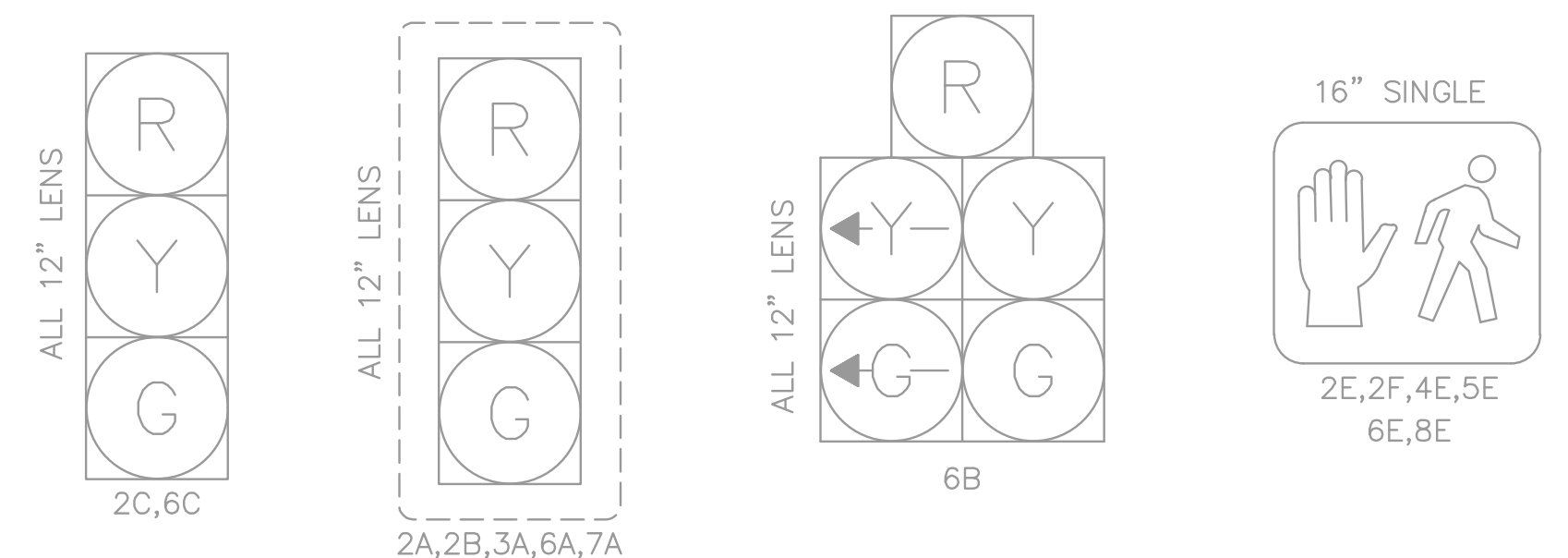
S/P = SERIES/PARALLEL
E = EXISTING

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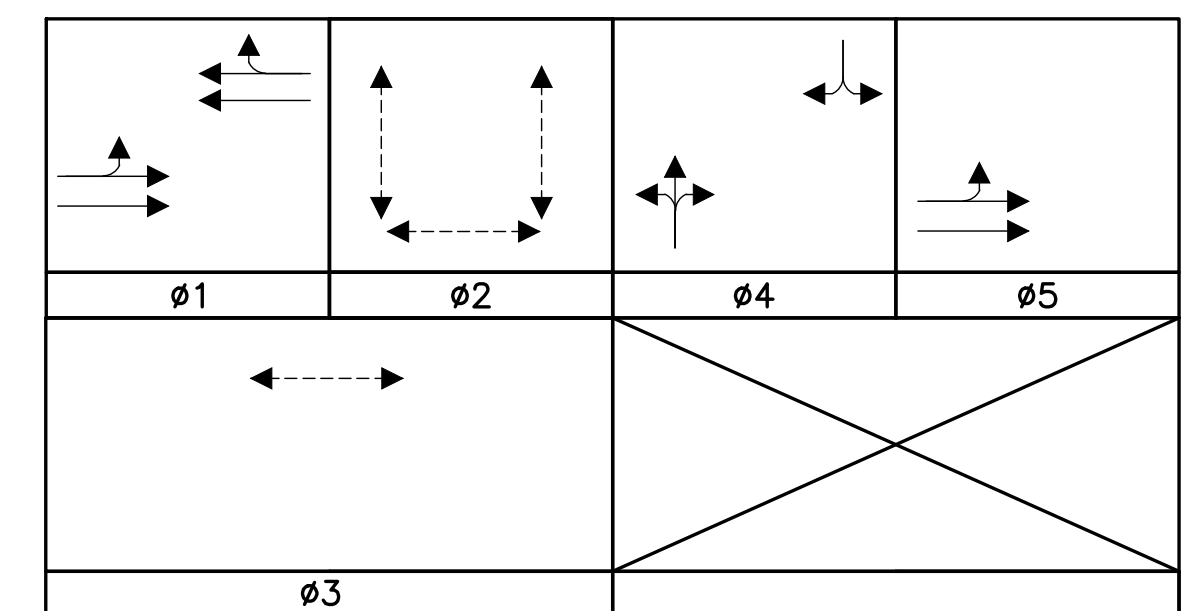


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SIGNAL DISPLAY
PER BTD SPECIFICATIONS



PHASING DIAGRAM



MAJOR ITEMS REQUIRED

[illegible]

NOTE:

1. EXISTING TIMING DATA SHOWN. PROPOSED TIMING AND COORDINATION DATA TO BE INCLUDED IN FUTURE SUBMISSIONS AFTER CONFIRMATION OF SIGNAL PHASING WITH BTD AND MBTA.
2. DETECTION DATA TO BE INCLUDED IN FUTURE SUBMISSIONS AFTER CONFIRMATION OF EXISTING DETECTION AT THE INTERSECTION.

30% DESIGN PROGRESS PRINT



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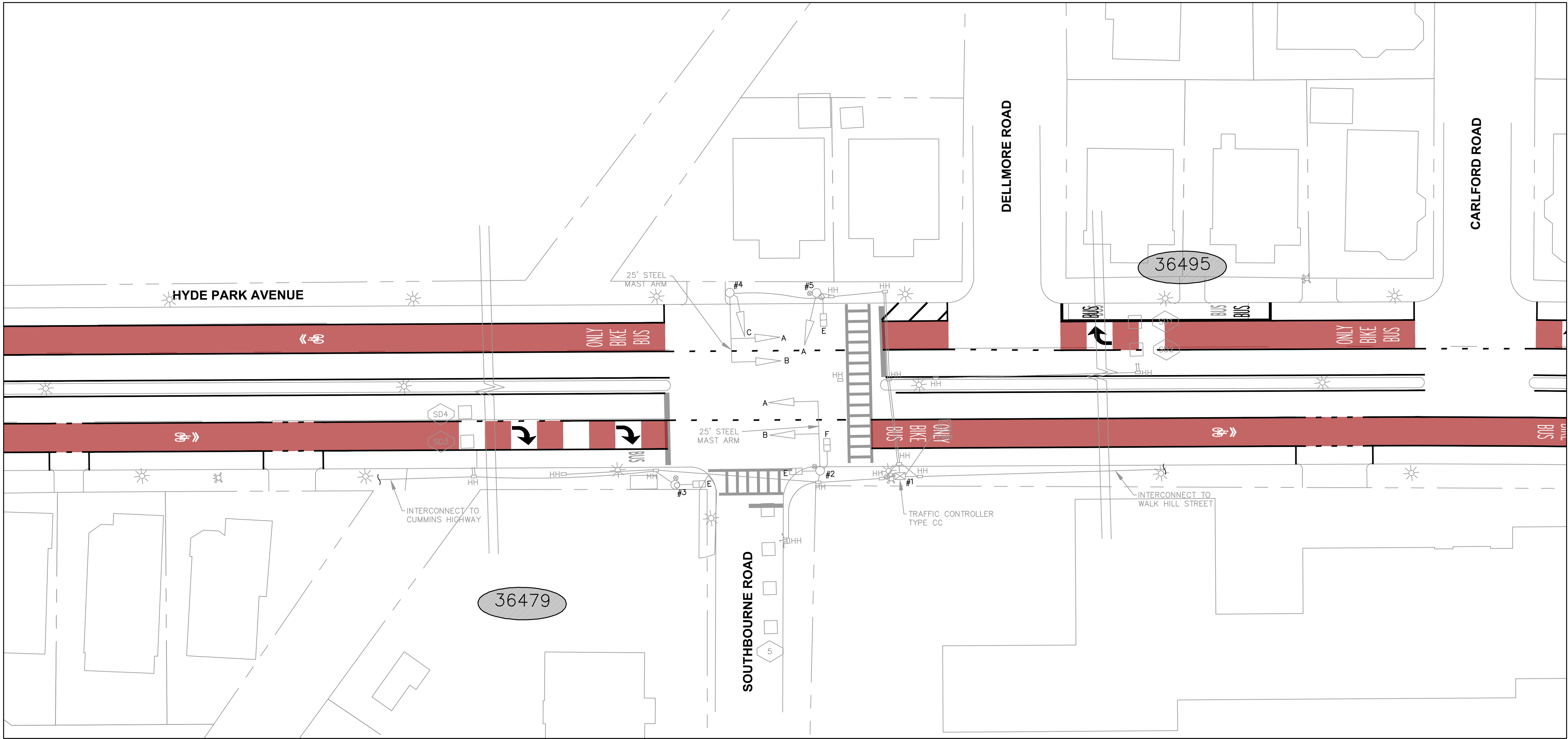
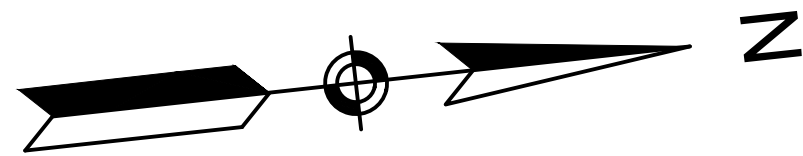
CITY OF BOSTON TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION
MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS

HYDE PARK AVENUE

TRAFFIC SIGNAL SCHEDULE AT BLAKEMORE STREET

AREA: - BOSTON AUGUST 2020
DISTRICT: # DRAWING NO. SS-005
SHEET 17 OF 101

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NOTES

1. NO TRAFFIC SIGNAL EQUIPMENT MODIFICATIONS ARE PROPOSED FOR THE RAPID RESPONSE BUS LANE PROJECT. EXISTING TRAFFIC SIGNAL EQUIPMENT SHOWN

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CITY OF BOSTON TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION
MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS

HYDE PARK AVENUE

**TRAFFIC SIGNAL PLAN AT
SOUTHBOURNE ROAD**

AREA: -
DISTRICT: #

BOSTON AUGUST 2020
DRAWING NO. SP-006
SHEET 18 OF 101

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OPERATION FLASHING

STREET/DIRECTION/DISPLAY	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	IN
HYDE PARK AVE/NB/2A,2B	G	Y	R	R	R	R	R	R	R	R	R	R							FY
HYDE PARK AVE/SB/4A,4B	G	Y	R	R	R	R	R	R	R	R	R	R							FY
SOUTHBOURNE RD/WB/4C,5A	R	R	R	R	R	R	R	R	R	G	Y	R							FR
CROSSWALK/E-W/2F-5E	DW	DW	DW	W	FDW	DW	DW	DW	DW	DW	DW	DW							OFF
CROSSWALK/N-S/2E-3E	DW	DW	DW	DW	DW	DW	W/FDW	DW	DW	DW	DW	DW							OFF

INTERVAL	SECONDS	MINIMUM GREEN	10		—	—	—	8						
		VEHICLE EXTENSION	2		—	—	—	2						
		MAXIMUM 1 GREEN	60		—	—	—	12						
		MAXIMUM 2 GREEN	55		—	—	—	16						
		YELLOW CLEARANCE		4		—	—		3.5					
		RED CLEARANCE			2.5		4		6.5		1.5			
		WALK INTERVAL				7		7*						
		PED. CLEARANCE					14		5**					
MEMORY		—		NON-LOCK		NON-LOCK		NON-LOCK						
RECALL		MAX		OFF		OFF		OFF						

				PROGRAM/COORDINATION						
CYCLE NO.	PATTERN	CYCLE LENGTH	OFFSET (SEC.)	PHASE SPLITS IN SECONDS						
				Ø1,Ø3	Ø2,Ø3	—	Ø4			
1	20	90	64	44	25	—	21			
2	19	100	23	58	25	—	17			MON-
3	21	100	0	61	25	—	14			MON-
COORDINATED OPERATION										
PROGRAMMED FLASH										

[illegible]

CLEARANCES							
FROM	TO						
	G	R	W	DW			
G	G	Y	—	—			
R	—	R	—	—			
W	—	—	W	FDW			
DW	—	—	—	DW			

TECHNICAL NOTES	
1.	MAX 1 DURING FREE OPERATION.
2.	MAX 2 DURING COORDINATED OPERATION.
3.	Ø2 PED UPON PUSH BUTTON ACTUATION ONLY.

* PED SHALL REST IN WALK DURING CO-ORD Ø1
 ** PEDESTRIAN INDICATION SHALL NOT DISPLAY FDW THROUGH
 CONCURRENT VEHICULAR YELLOW AND RED CLEARANCE
 INTERVALS

S/P = SERIES/PARALLEL
E = EXISTING

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DRAWN BY	GSA
CHECKED BY	AKB
APPROVED BY	RCP

ALL 12" LENS

2A,2B,4A,4B,4C,5A

16" SINGLE
SECTION COUNTDOWN

2E,2F,3E,5E

$\varnothing 1$	$\varnothing 2$	$\varnothing 4$
$\varnothing 3$		

[illegible]

NOTE:

1. EXISTING TIMING DATA SHOWN. PROPOSED TIMING AND COORDINATION DATA TO BE INCLUDED IN FUTURE SUBMISSIONS AFTER CONFIRMATION OF SIGNAL PHASING WITH BTD AND MBTA.
2. DETECTION DATA TO BE INCLUDED IN FUTURE SUBMISSIONS AFTER CONFIRMATION OF EXISTING DETECTION AT THE INTERSECTION.

30% DESIGN PROGRESS PRINT

CITY OF BOSTON TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION
MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS

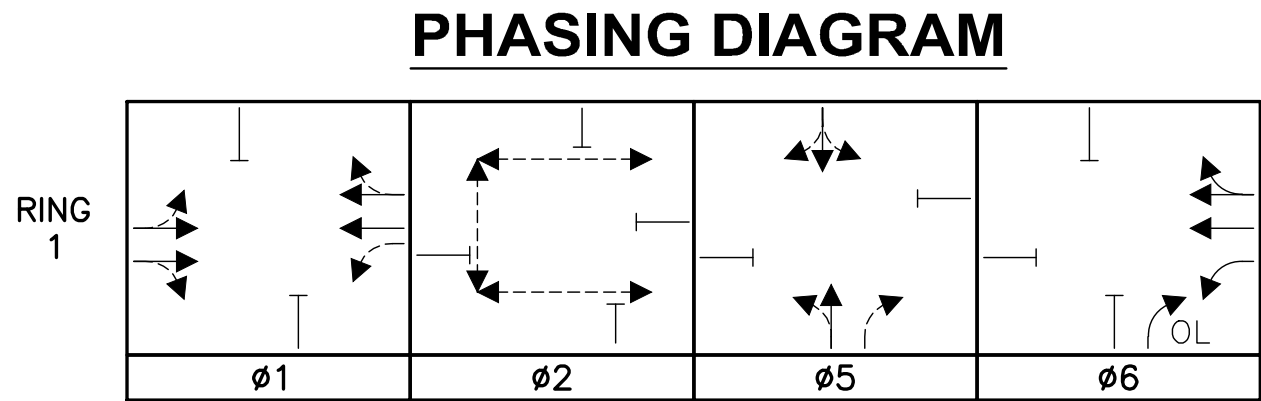
HYDE PARK AVENUE

TRAFFIC SIGNAL SCHEDULE AT SOUTHBOURNE ROAD

AREA: - BOSTON AUGUST 2020
DISTRICT: # DRAWING NO. SS-006
SHEET 19 OF 101

			TIMING AND SEQUENCE CHART														OPERATION FLASHING												
ø1			ø2			ø5			ø6																				
STREET/DIRECTION/FACE			GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL															
HYDE PARK AVE/NB/5A,5B			G	Y	R	R	R	R	R	R	R	R	R	R									FY						
HYDE PARK AVE/SB/8B,8C			G	Y	R	R	R	R	R	R	R	G	G	G									FY						
HYDE PARK AVE/SB-LT/8A			FYL	YL	RL	RL	RL	RL	RL	RL	RL	GL	YL	RL									FY						
SITE DRIVEWAY/EB/6A,6B			R	R	R	R	R	R	G	Y	R	R	R	R									FR						
WALK HILL ST/WB-RT/4A,5C			R	R	R	R	R	R	G	Y	R	R-GR	R-YR	R									FR						
WALK HILL ST/WB-LT/3A			R	R	R	R	R	R	G	Y	R	R	R	R									FR						
C.W./N-S/2E,3E,5E,6E			DW	DW	DW	W	FDW	DW	DW	DW	DW	DW	DW	DW									OFF						
C.W./E-W/7E,8E			DW	DW	DW	W	FDW	DW	DW	DW	DW	DW	DW	DW							OFF								
N T E R V A L S	MINIMUM GREEN		8				-						8				6												
	VEHICLE EXTENSION		-				-						2				2												
	MAXIMUM 1 GREEN		33				-						23				33												
	MAXIMUM 2 GREEN		29				-						25				40												
	YELLOW CLEARANCE			4					-				4				4												
	RED CLEARANCE				3					4					2.5					2									
	WALK INTERVAL							7																					
	PED. CLEARANCE							16																					
MEMORY			-			NON-LOCK			NON-LOCK			NON-LOCK																	
RECALL			MAX			OFF			OFF			OFF																	
PROGRAM/COORDINATION																													
CYCLE NO.	CYCLE LENGTH	OFFSET (SEC.)	PHASE SPLITS IN SECONDS																		HOURS OF OPERATION								
1	110	1	ø1			ø2			ø5			ø6									ALL OTHER TIMES								
2	120	66	36			27			19			28									MON-FRI 6:00 AM - 10:00 AM								
3	120	65	37			27			31			25									MON-FRI 3:00 PM - 7:00 PM								
			27			27			20			46									-----								
COORDINATED OPERATION																					EVERYDAY								
---																					-----								
---																					-----								
PROGRAMMED FLASH																					3:00 AM - 6:00 AM								
LOOP DETECTOR DATA										CLEARANCES										TECHNICAL NOTES									
IDENT.	QTY.	SIZE	SPLICE	TURNS	MODE	øCALL	øEXT.	CHNL.	FROM	TO							ø2 PEDESTRIAN PHASE IS PUSH BUTTON ACTUATED ONLY.												
1A	1	5' x 5'	S/P	4	PRES.	ø5	ø5	1	G	G	-	-	RL	R	W	DW													
1B	1	5' x 5'	S/P	3	PRES.	ø5	ø5	1	G	G	-	-	-	Y	-	-													
2A	1	5' x 15'	S/P	4	PRES.	ø5	ø5	2	R-GR	-	-	-	-	R-YR	-	-													
2B	1	5' x 15'	S/P	3	PRES.	ø5	ø5	2	-	-	-	-	-	-	-	-													
2C	2	5' x 5'	S/P	3	PRES.	ø5	ø5	3	GL	-	-	-	YL	-	-	-													
3A	1	5' x 5'	S/P	4	PRES.	ø6	ø6	3	FYL	-	-	-	YL	-	-	-													
3B	4	5' x 5'	S/P	3	PRES.	ø6	ø6	4	-	-	-	-	-	-	-	-													
SD1	1	E	E	E	PRES.	SYSTEM	-	9	W	-	-	-	-	-	W	FDW													
SD2	1	E	E	E	PRES.	SYSTEM	-	10	DW	-	-	-	-	-	-	DW													
SD3	1	E	E	E	PRES.	SYSTEM	-	11																					
SD4	1	E	E	E	PRES.	SYSTEM	-	12																					
SD5	1	E	E	E	PRES.	SYSTEM	-	13																					
E = EXISTING PRES. = PRESENCE S/P = SERIES/PARALLEL																													

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DEPARTMENT

DESIGNED BY GSA

DRAWN BY GSA

CHECKED BY AKB

APPROVED BY RCP

CITY OF BOSTON TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION
MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS

HYDE PARK AVENUE

**TRAFFIC SIGNAL SCHEDULE AT
WALK HILL STREET**

AREA: —

DISTRICT: #

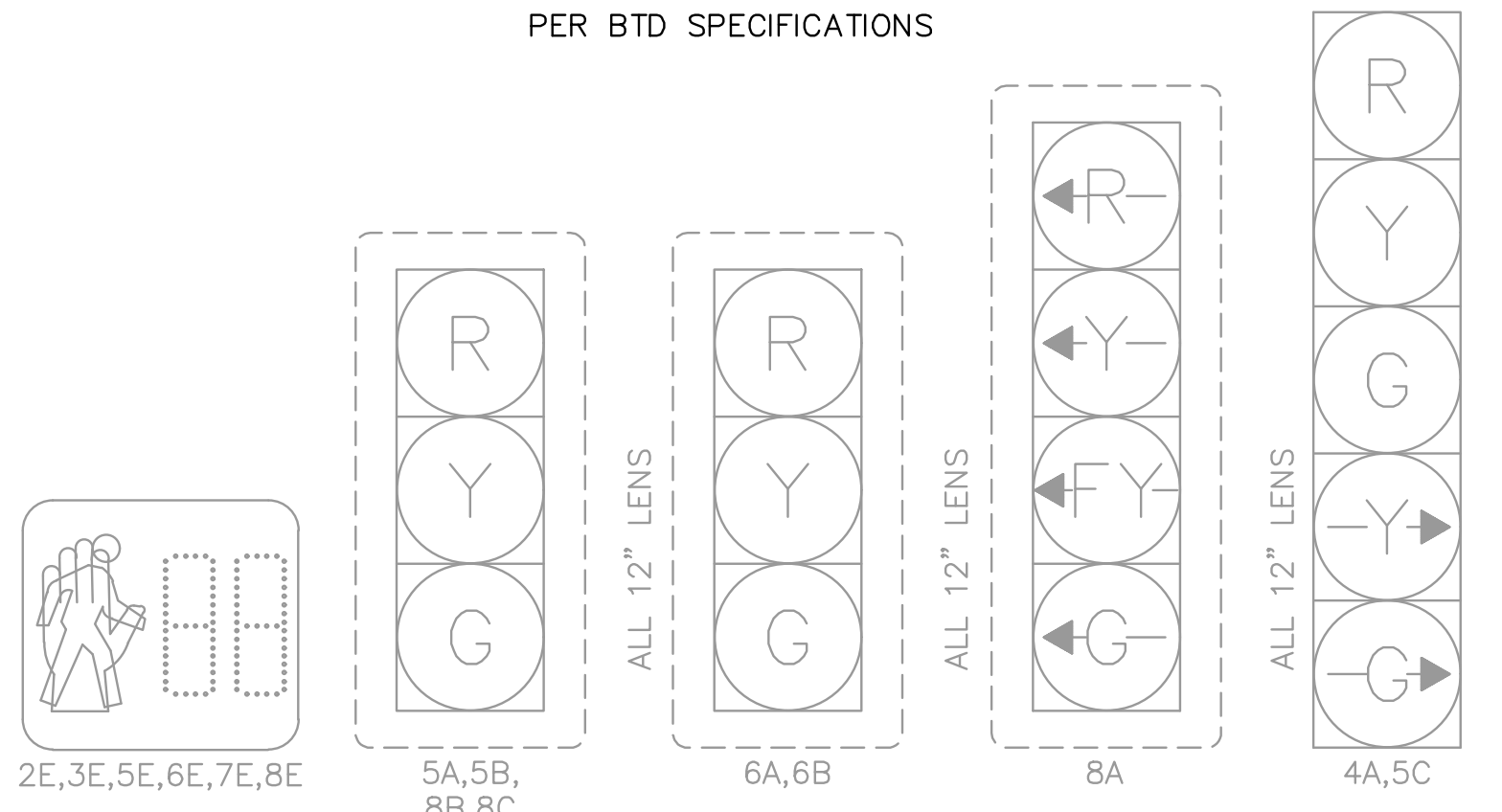
BOSTON

AUGUST 2020

DRAWING NO. SS-007

SHEET 21 OF 101

SIGNAL FACES
PER BTD SPECIFICATIONS



NOTES:

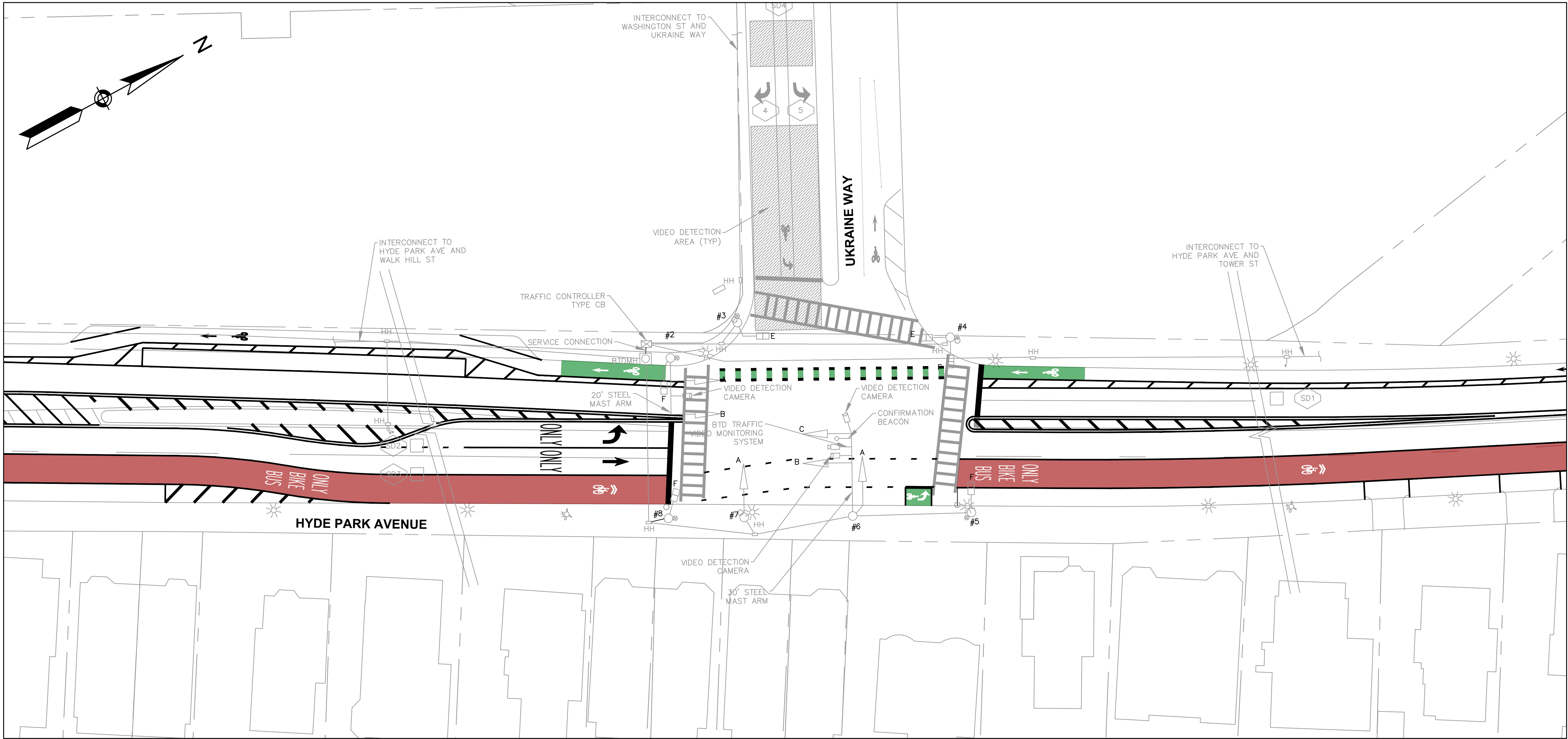
- ALL VEHICLE INDICATIONS 12" L.E.D. AND EQUIPPED WITH TUNNEL VISORS.
- ALL PEDESTRIAN INDICATIONS 16" L.E.D. COUNTDOWN AND EQUIPPED WITH SUN CAP VISORS.
- ALL VEHICLE INDICATIONS MOUNTED ON MAST ARMS RIGID MOUNTED AND EQUIPPED WITH 5" NON-LOUVERED BACKPLATES IF FACING IN AN EASTERLY OR WESTERLY DIRECTION.
- PEDESTRIAN WALK AND DON'T WALK SYMBOLS SOLID-TYPE L.E.D.

QUANTITY	MAJOR ITEMS REQUIRED

- NOTE:
- EXISTING TIMING DATA SHOWN. PROPOSED TIMING AND COORDINATION DATA TO BE INCLUDED IN FUTURE SUBMISSIONS AFTER CONFIRMATION OF SIGNAL PHASING WITH BTD AND MBTA.
 - DETECTION DATA TO BE INCLUDED IN FUTURE SUBMISSIONS AFTER CONFIRMATION OF EXISTING DETECTION AT THE INTERSECTION.

30% DESIGN PROGRESS PRINT

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NOTES

1. NO TRAFFIC SIGNAL EQUIPMENT MODIFICATIONS ARE PROPOSED FOR THE RAPID RESPONSE BUS LANE PROJECT. EXISTING TRAFFIC SIGNAL EQUIPMENT SHOWN

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ENGINEERING DIVISION
MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS
HYDE PARK AVENUE
TRAFFIC SIGNAL PLAN AT UKRAINE WAY

AREA: -
DISTRICT: #

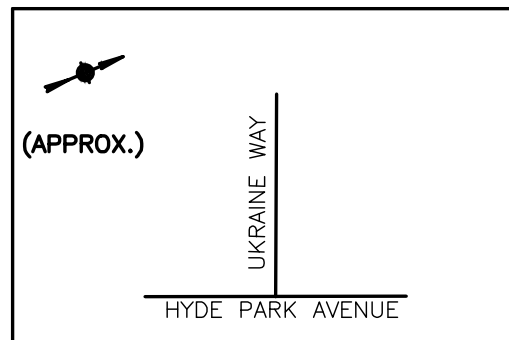
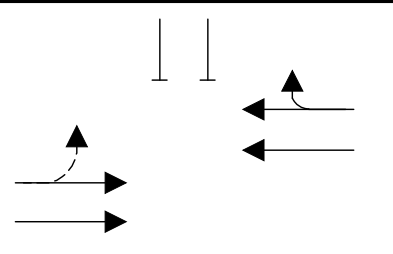
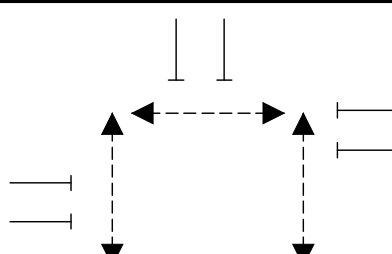
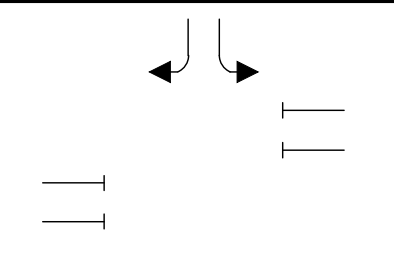
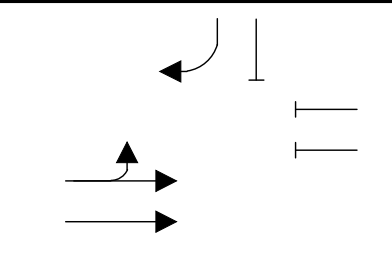
BOSTON AUGUST 2020
DRAWING NO. SP-008
SHEET 22 OF 101

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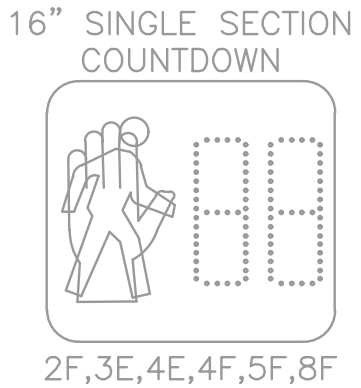
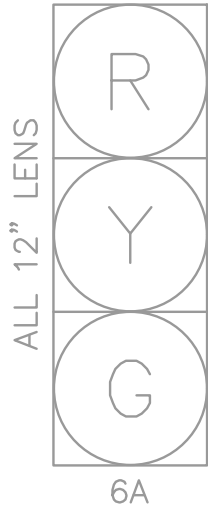
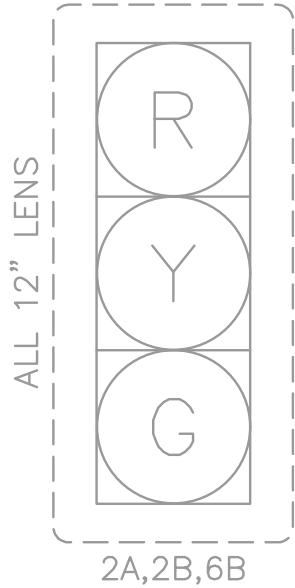
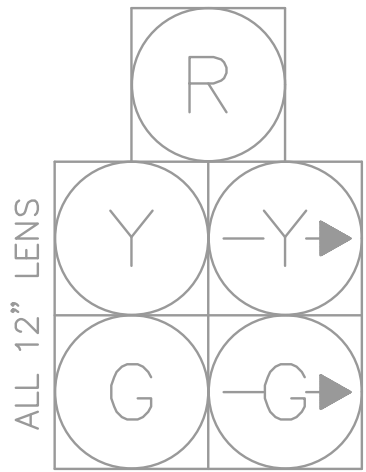
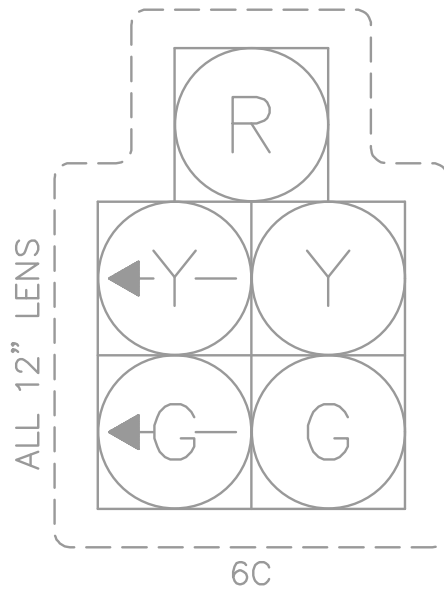
DRAWING PREPARED BY HDR ENGINEERING, INC.

 (APPROX.) UKRAINE WAY HYDE PARK AVENUE				TIMING AND SEQUENCE CHART															OPERATION FLASHING								
																											
				ø1			ø2			ø4			ø5														
STREET/DIRECTION/DISPLAY				GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL						
HYDE PARK AVE/NB/6B				G	Y	R	R	R	R	R	R	R	G	Y	R							FY					
HYDE PARK AVE/NB/6C				G	Y	R	R	R	R	R	R	R	GL/G	YL/G	G							FY					
HYDE PARK AVE/SB/2A,2B				G	Y	R	R	R	R	R	R	R	R	R	R							FY					
UKRAINE WAY/EB/6A				R	R	R	R	R	R	R	G	Y	R	R	R	R						FR					
UKRAINE WAY/EB/7A				R	R	R	R	R	R	R	G	Y	R	R/GR	R/YR	R						FR					
CROSSWALK/E-W/2F,8F				DW	DW	DW	W	FDW	DW	DW	DW	DW	DW	DW	DW							OFF					
CROSSWALK/E-W/4F,5F				DW	DW	DW	W	FDW	DW	DW	DW	DW	DW	DW	DW							OFF					
CROSSWALK/N-S/3E,4E				DW	DW	DW	W	FDW	DW	DW	DW	DW	DW	DW	DW							OFF					
INTERSECTIONS SECONDS VAL	MINIMUM GREEN			10										8				8									
	VEHICLE EXTENSION			2										3				2									
	MAXIMUM 1 GREEN			25										20				26									
	MAXIMUM 2 GREEN			38										20				44									
	YELLOW CLEARANCE				3							3					3										
	RED CLEARANCE					3									3						3						
	WALK INTERVAL						7										3										
	PED. CLEARANCE							10																			
MEMORY				-			NON-LOCK			-			-														
RECALL				MAX			OFF			MAX			MAX														
PROGRAM/COORDINATION																											
CYCLE NO.	PATTERN	CYCLE LENGTH	OFFSET (SEC.)	PHASE SPLITS IN SECONDS																							
				ø1			ø2			ø4			ø5														
1	20	90	72	24			21			22			23									HOURS OF OPERATION					
2	19	120	10	25			21			24			50									ALL OTHER TIMES					
3	21	120	4	43			21			32			24									M-F, 6:00 AM – 10:00 AM					
																						M-F, 2:30 PM – 7:30 PM					
COORDINATED OPERATION																						EVERYDAY					
PROGRAMMED FLASH																						3:00AM – 6:00AM					
LOOP DETECTOR DATA									CLEARANCES								TECHNICAL NOTES										
IDENT.	QTY.	SIZE	SPLICE	TURNS	MODE	øCALL	øEXT.	CHNL.	FROM	TO																	
4	E	VIDEO			PRES	4	-	1	G	G	GL/G	R/GR	R	W	DW												
5	E	VIDEO			PRES	4	-	1	G	G	GL/G	Y	Y	-	-												
SD1	E	E	E	E	PRES	3	-	17	GL/G	YL/G	GL/G	-	YL/Y	-	-												
SD2	E	E	E	E	PRES	3	-	18	R/GR	R/YR	-	R/GR	Y/YR	-	-												
SD3	E	E	E	E	PRES	3	-	19	Y	-	-	-	R	-	-												
									W	-	-	-	-	W	FDW												
									DW	-	-	-	-	-	DW												

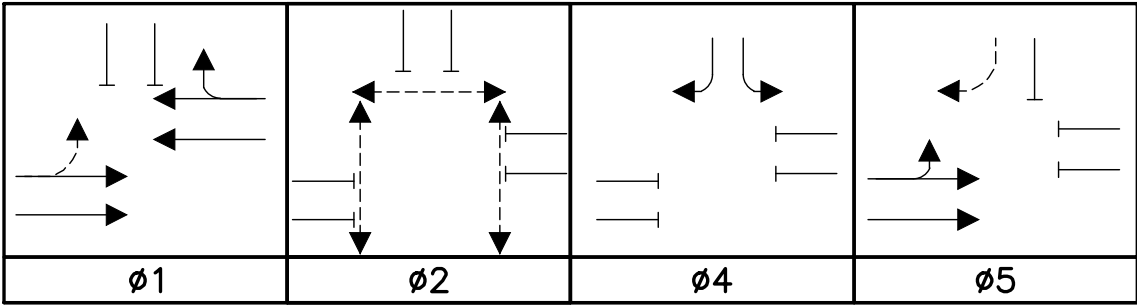
S/P = SERIES/PARALLEL
E = EXISTING

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SIGNAL DISPLAY
PER BTD SPECIFICATIONS



PHASING DIAGRAM



MAJOR ITEMS REQUIRED

QUANTITY	MAJOR ITEMS REQUIRED

- NOTE:
- EXISTING TIMING DATA SHOWN. PROPOSED TIMING AND COORDINATION DATA TO BE INCLUDED IN FUTURE SUBMISSIONS AFTER CONFIRMATION OF SIGNAL PHASING WITH BTD AND MBTA.
 - DETECTION DATA TO BE INCLUDED IN FUTURE SUBMISSIONS AFTER CONFIRMATION OF EXISTING DETECTION AT THE INTERSECTION.

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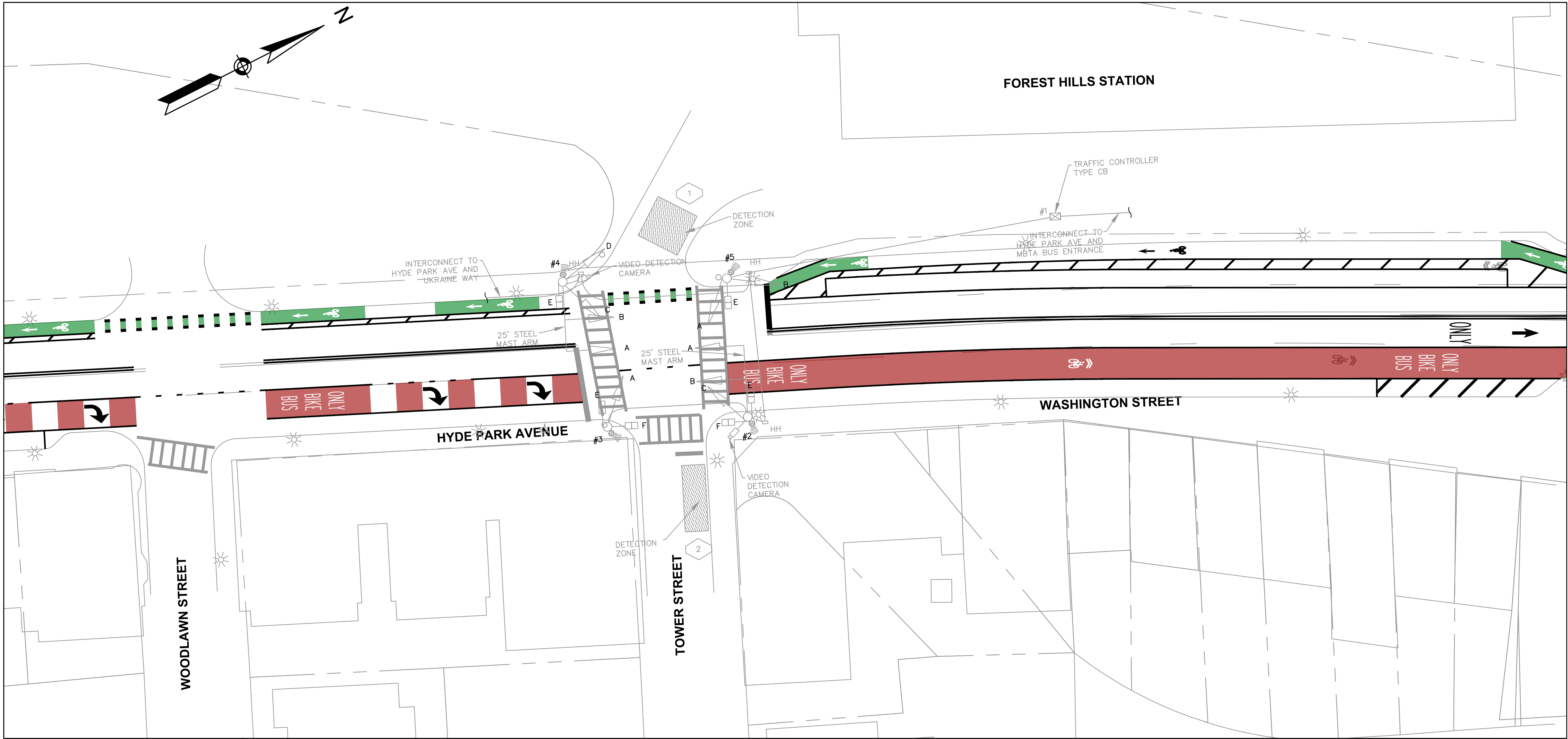
CHECKED BY AKB

APPROVED BY RCP

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BOSTON, MASSACHUSETTS 02110-2378
(617) 357-7700

CITY OF BOSTON TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION
MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS
HYDE PARK AVENUE
TRAFFIC SIGNAL SCHEDULE AT
UKRAINE WAY
AREA: - BOSTON AUGUST 2020
DISTRICT: # DRAWING NO. SS-008
SHEET 23 OF 101

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NOTES

1. NO TRAFFIC SIGNAL EQUIPMENT MODIFICATIONS ARE PROPOSED FOR THE RAPID RESPONSE BUS LANE PROJECT. EXISTING TRAFFIC SIGNAL EQUIPMENT SHOWN

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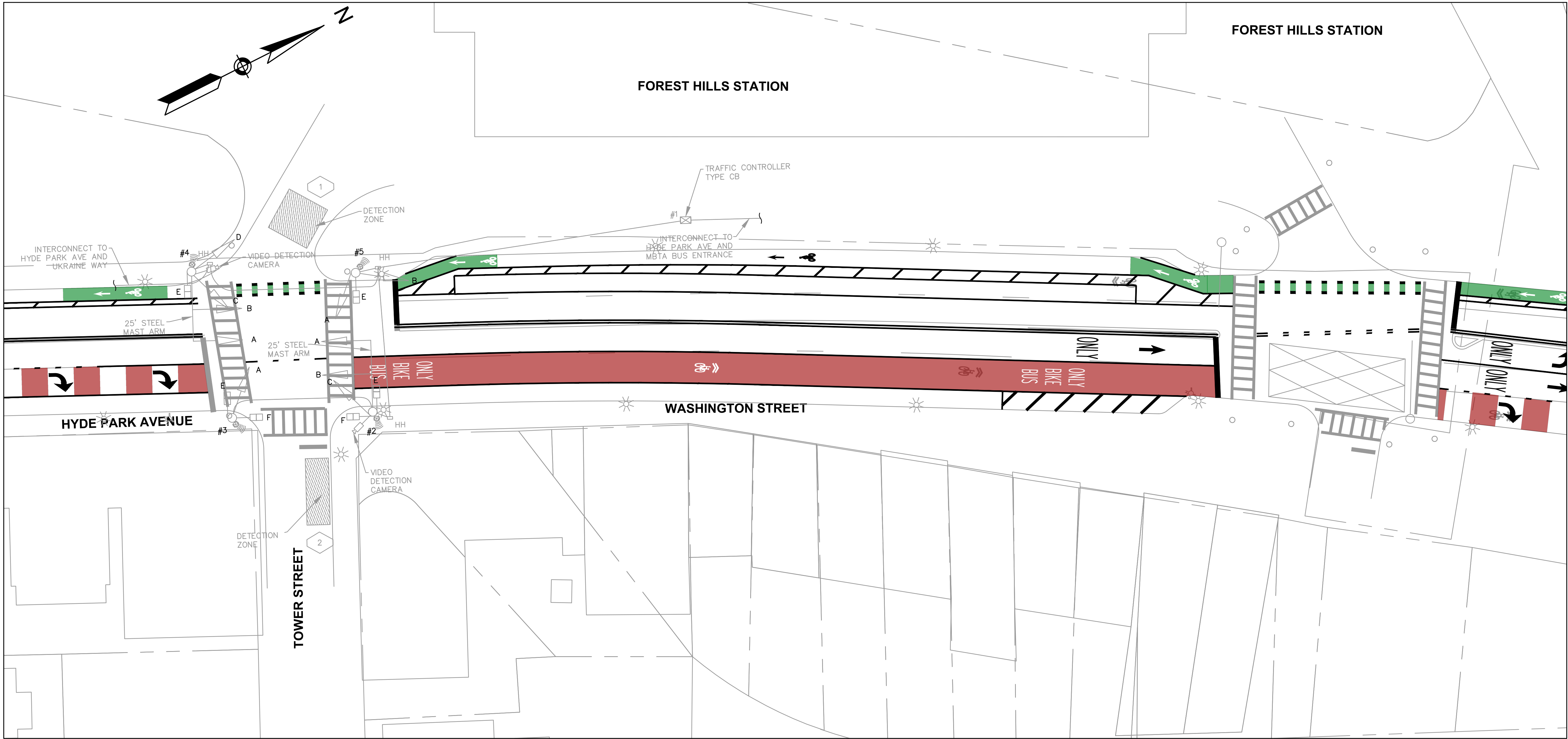
CITY OF BOSTON TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION
MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS

HYDE PARK AVENUE

TRAFFIC SIGNAL PLAN AT TOWER STREET

AREA: -
DISTRICT: #
BOSTON
AUGUST 2020
DRAWING NO. SP-009
SHEET 24 OF 101

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NOTES

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MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS

HYDE PARK AVENUE

**TRAFFIC SIGNAL PLAN AT FOREST
HILLS LOWER BWY DWY**

AREA: - BOSTON AUGUST 2020
DISTRICT: # DRAWING NO. SP-010
SHEET 26 OF 101

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ENGINEERING DIVISION
MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS

HYDE PARK AVENUE

TRAFFIC SIGNAL SCHEDULE AT FOREST HILLS LOWER BWY DWY

AREA: - BOSTON AUGUST 2020
DISTRICT: # DRAWING NO. SS-010
SHEET 27 OF 101

NOTE:

1. PROPOSED TIMING AND COORDINATION DATA TO BE INCLUDED IN FUTURE SUBMISSIONS. AFTER CONFIRMATION OF SIGNAL PHASING WITH LTD AND MBTA.
2. DETECTION DATA TO BE INCLUDED IN FUTURE SUBMISSIONS AFTER CONFIRMATION OF EXISTING DETECTION AT THE INTERSECTION.

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NOTES

1. NO TRAFFIC SIGNAL EQUIPMENT MODIFICATIONS ARE PROPOSED FOR THE RAPID RESPONSE BUS LANE PROJECT. EXISTING TRAFFIC SIGNAL EQUIPMENT SHOWN

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ENGINEERING DIVISION
MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS
HYDE PARK AVENUE

TRAFFIC SIGNAL PLAN AT ARBORWAY

AREA: - BOSTON AUGUST 2020
DISTRICT: # DRAWING NO. SP-011
SHEET 28 OF 101

- NOTE:
1. TRAFFIC SIGNAL UNDER DCR JURISDICTION.
 2. TRAFFIC SIGNAL EQUIPMENT AND DETECTION DATA TO BE PROVIDED AFTER 30% SUBMISSION.

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CITY OF BOSTON TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION
MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS

HYDE PARK AVENUE

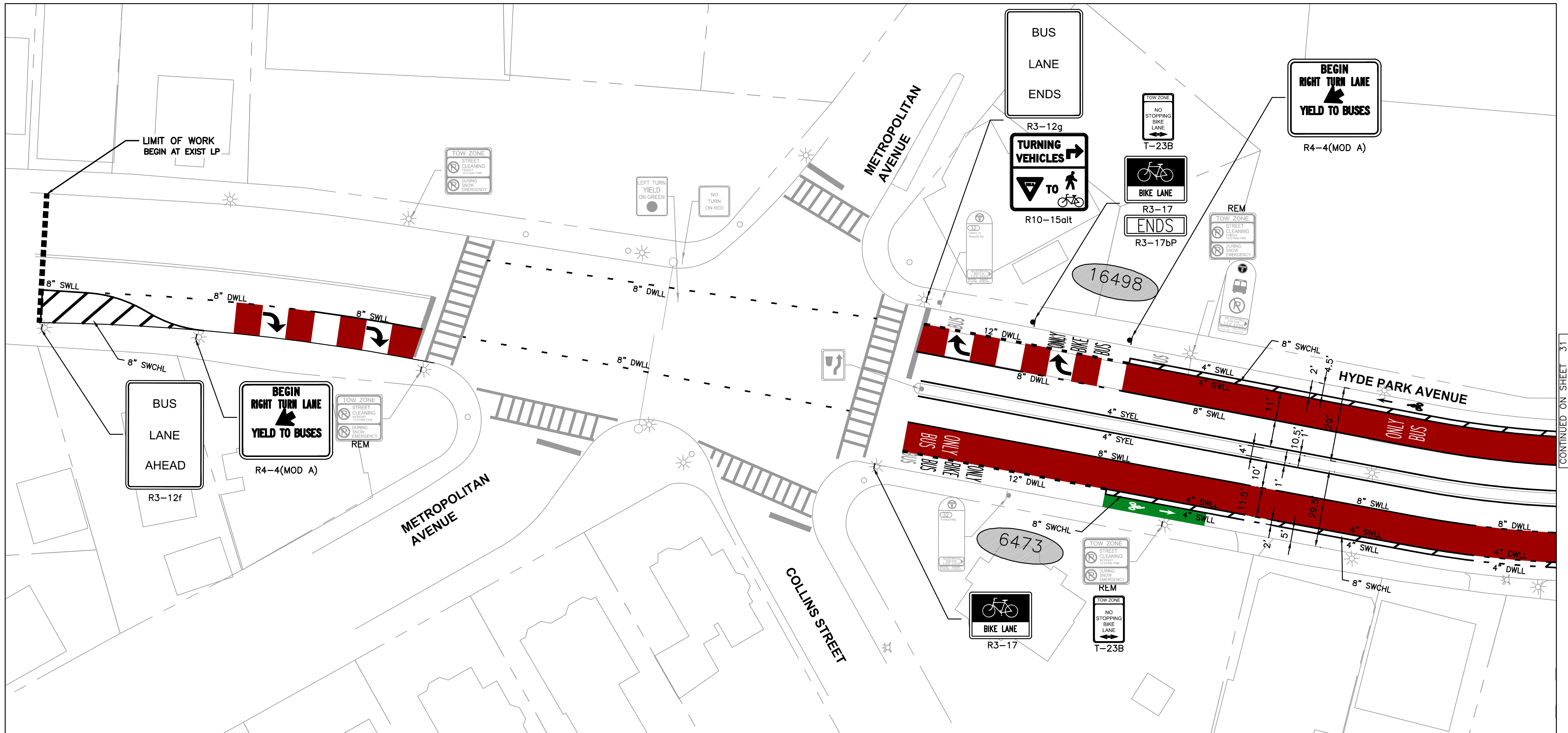
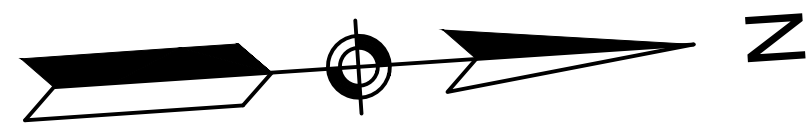
TRAFFIC SIGNAL SCHEDULE AT
ARBORWAY

AREA: -
DISTRICT: #

BOSTON AUGUST 2020
DRAWING NO. SS-011
SHEET 29 OF 101

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NOT FOR CONSTRUCTION

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CONTINUED ON SHEET 31

30% DESIGN PROGRESS PRINT



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CITY OF BOSTON TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION
MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS

HYDE PARK AVENUE PAVEMENT MARKINGS AND SIGNAGE PLAN

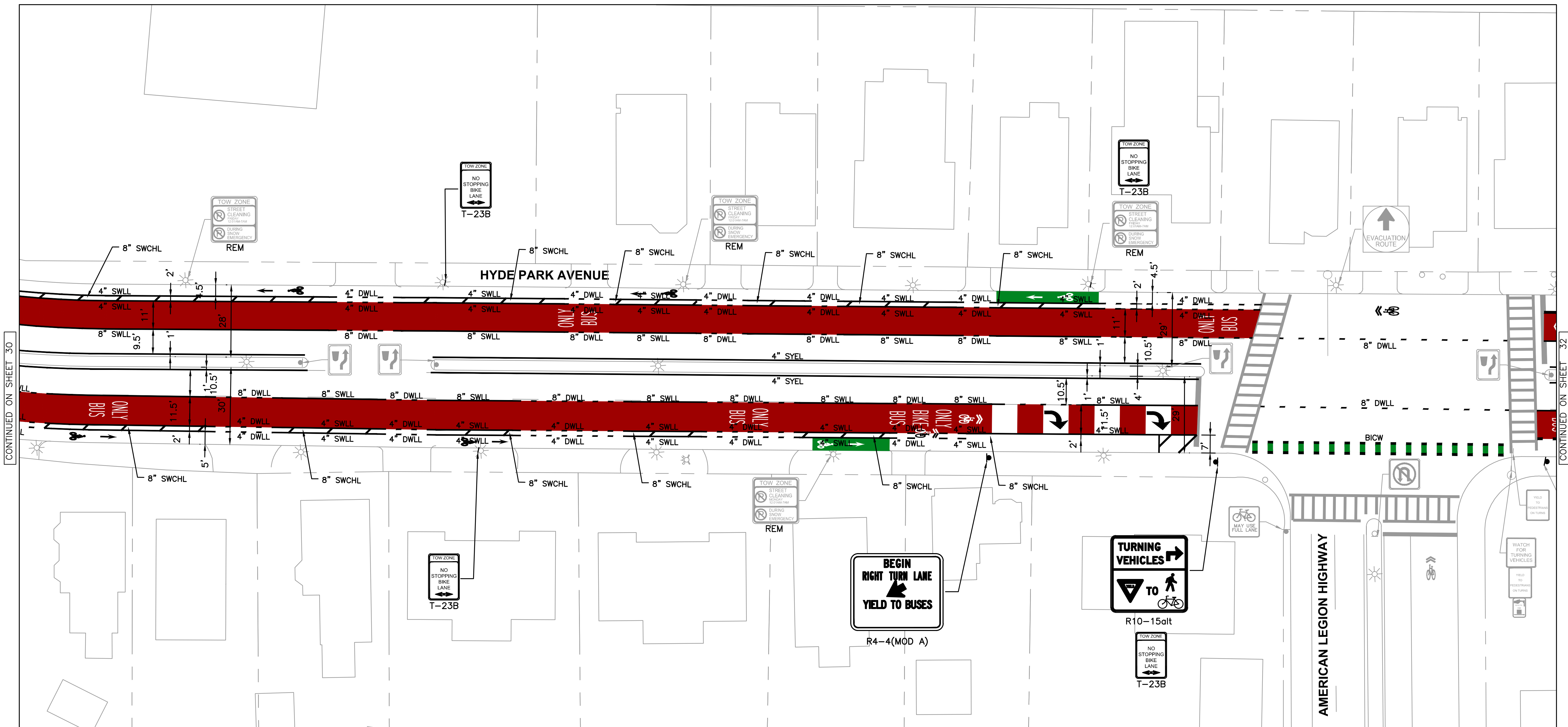
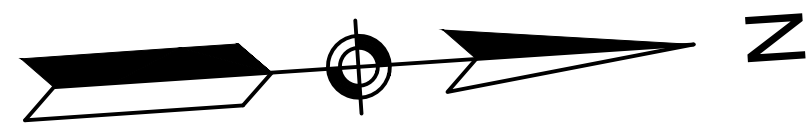
AREA: -
DISTRICT: #
BOSTON AUGUST 2020
DRAWING NO. PM-001
SHEET 30 OF 101

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20 0 20 40
SCALE IN FEET



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CONTINUED ON SHEET 30

CONTINUED ON SHEET 32

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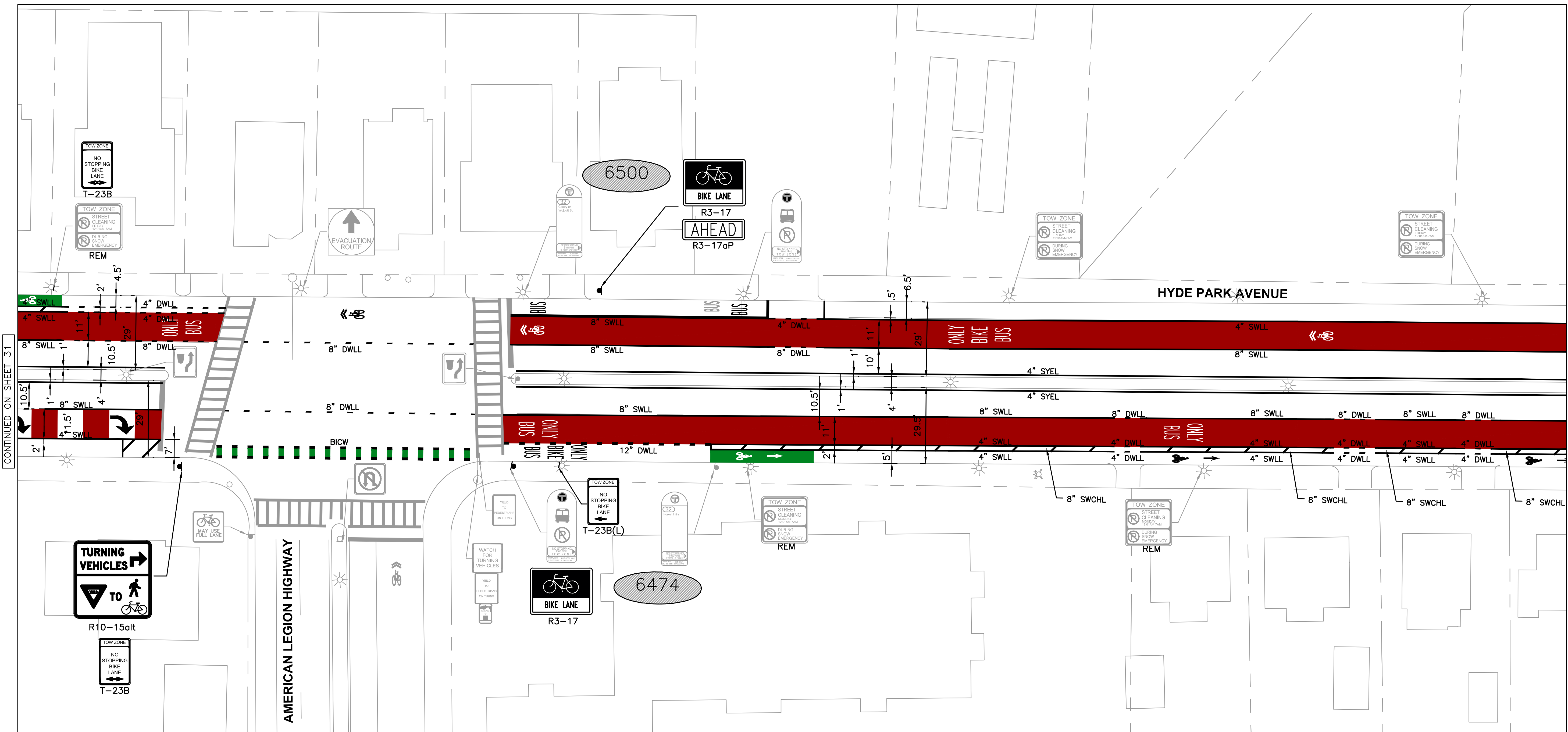
DRAWING PREPARED BY HDR ENGINEERING, INC.



DESIGNED BY SSN
DRAWN BY SSN
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CITY OF BOSTON TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION
MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS
HYDE PARK AVENUE
PAVEMENT MARKINGS AND SIGNAGE
PLAN
AREA: -
DISTRICT: #
BOSTON AUGUST 2020
DRAWING NO. PM-002
SHEET 31 OF 101



BOSTON
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DEPARTMENT

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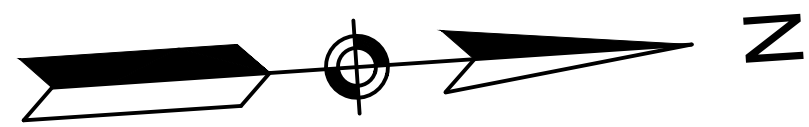
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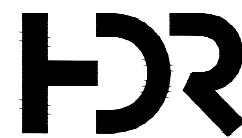
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CONTINUED ON SHEET 32

CONTINUED ON SHEET 34

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DRAWN BY SSN
CHECKED BY AKB
APPROVED BY RCP

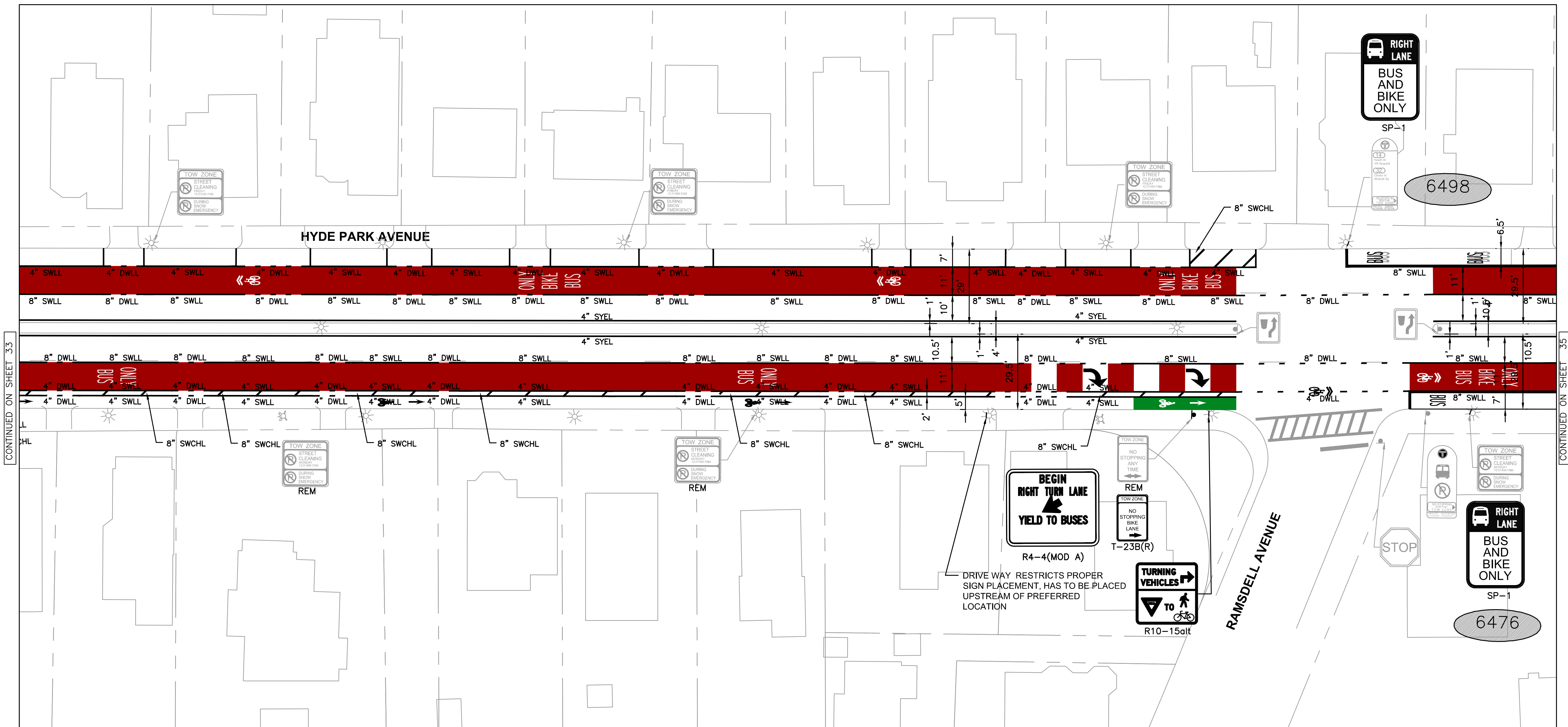
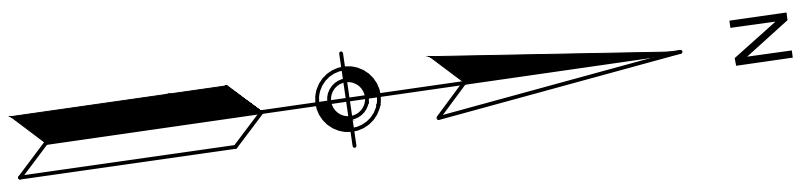
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ENGINEERING DIVISION
MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS

HYDE PARK AVENUE PAVEMENT MARKINGS AND SIGNAGE PLAN

AREA: -
DISTRICT: #

BOSTON AUGUST 2020
DRAWING NO. PM-004
SHEET 33 OF 101



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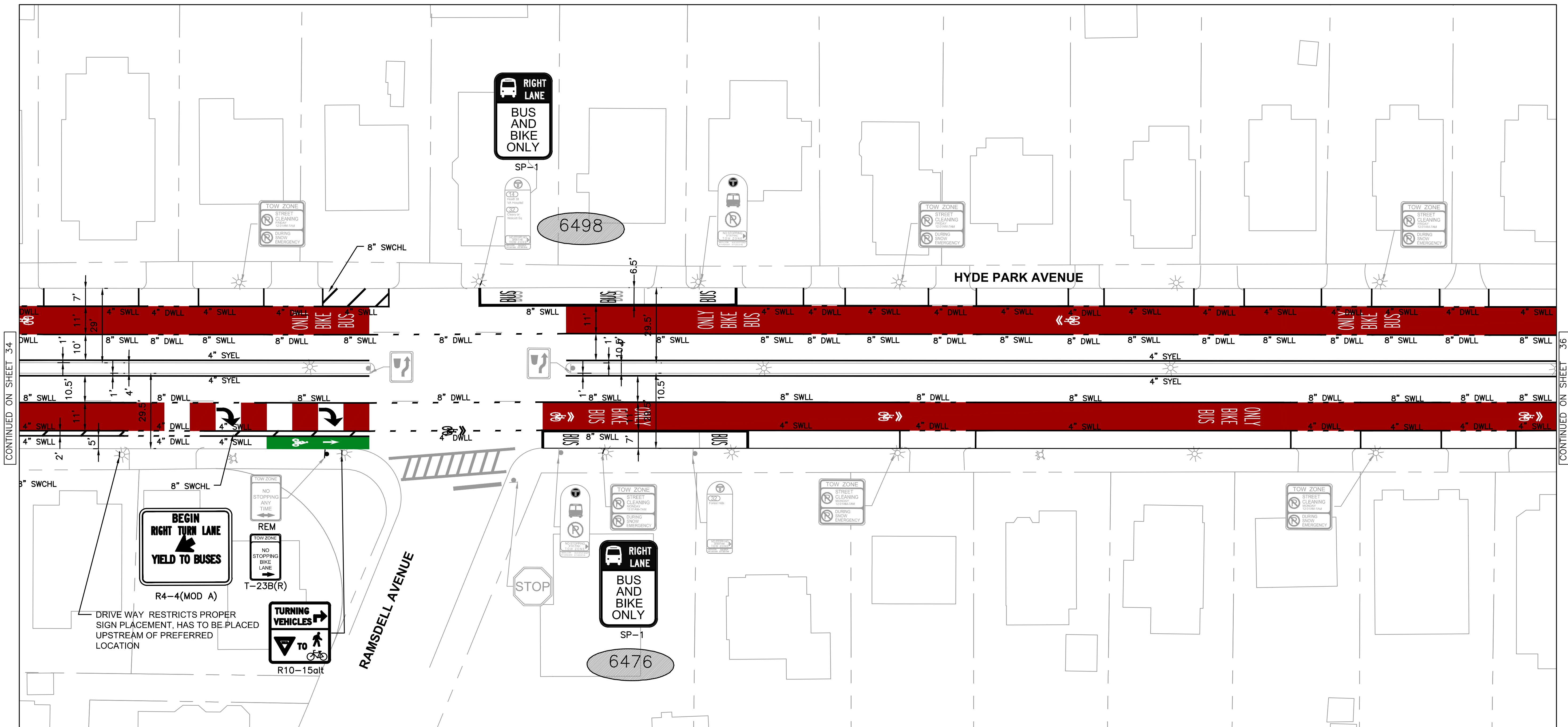
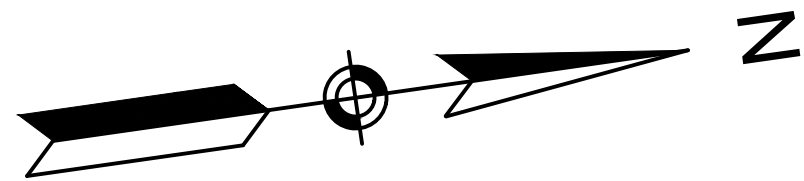
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BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS

HYDE PARK AVENUE PAVEMENT MARKINGS AND SIGNAGE PLAN

AREA: -
DISTRICT: #
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DRAWING NO. PM-005
SHEET 34 OF 101

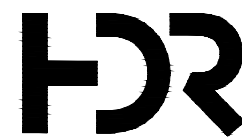
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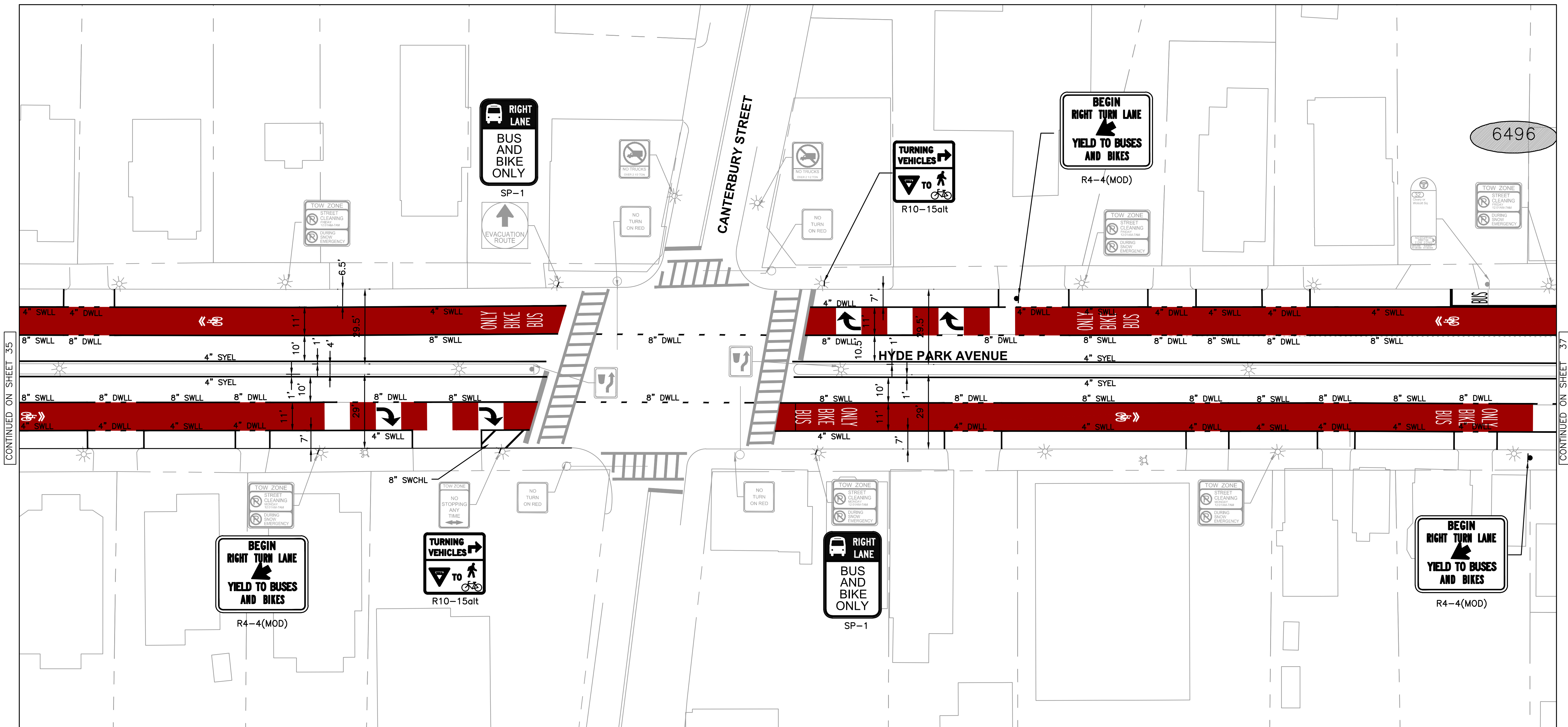
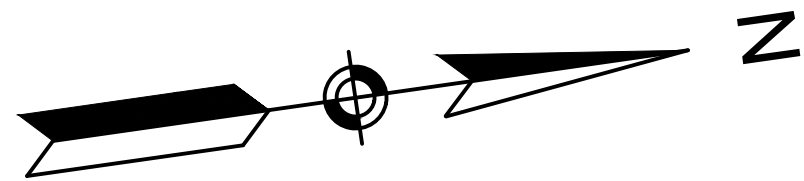
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MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS

HYDE PARK AVENUE PAVEMENT MARKINGS AND SIGNAGE PLAN

AREA: -
DISTRICT: #
BOSTON AUGUST 2020
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SHEET 35 OF 101

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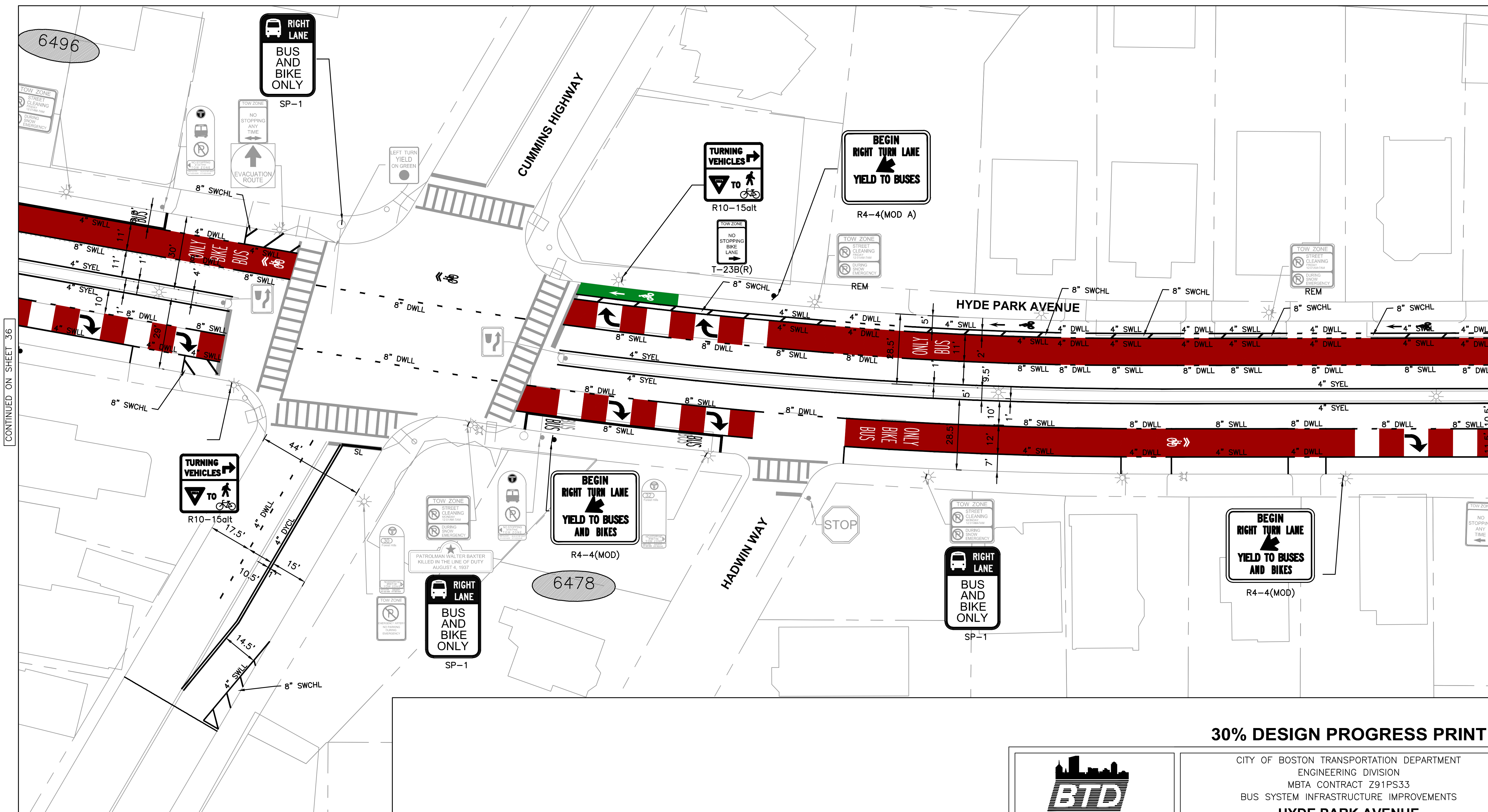
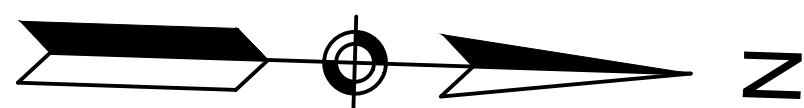
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BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS

HYDE PARK AVENUE PAVEMENT MARKINGS AND SIGNAGE PLAN

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SHEET 36 OF 101



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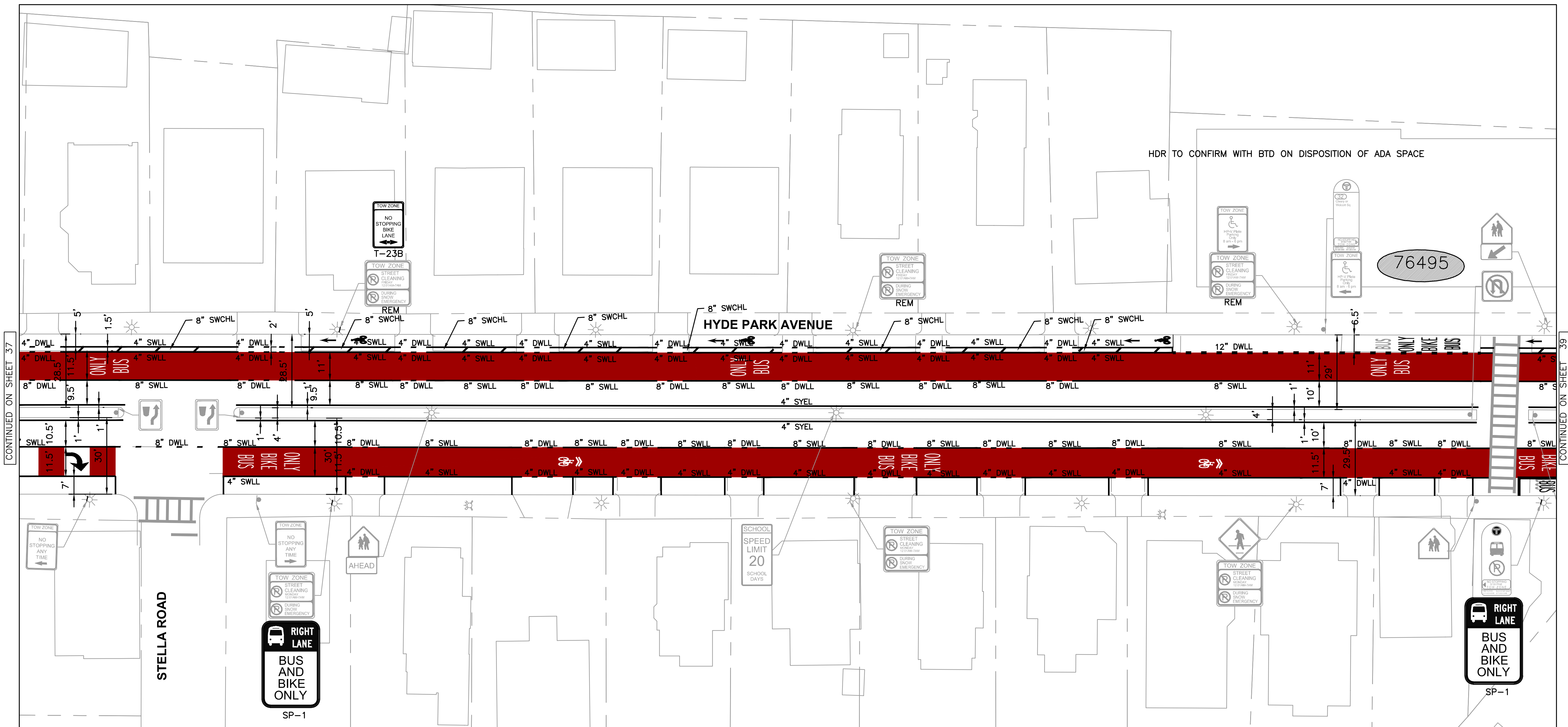
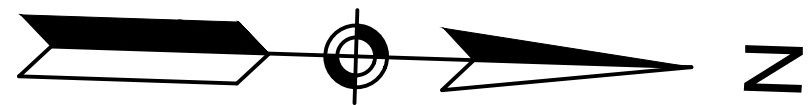
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HYDE PARK AVENUE PAVEMENT MARKINGS AND SIGNAGE PLAN

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MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS

HYDE PARK AVENUE PAVEMENT MARKINGS AND SIGNAGE PLAN

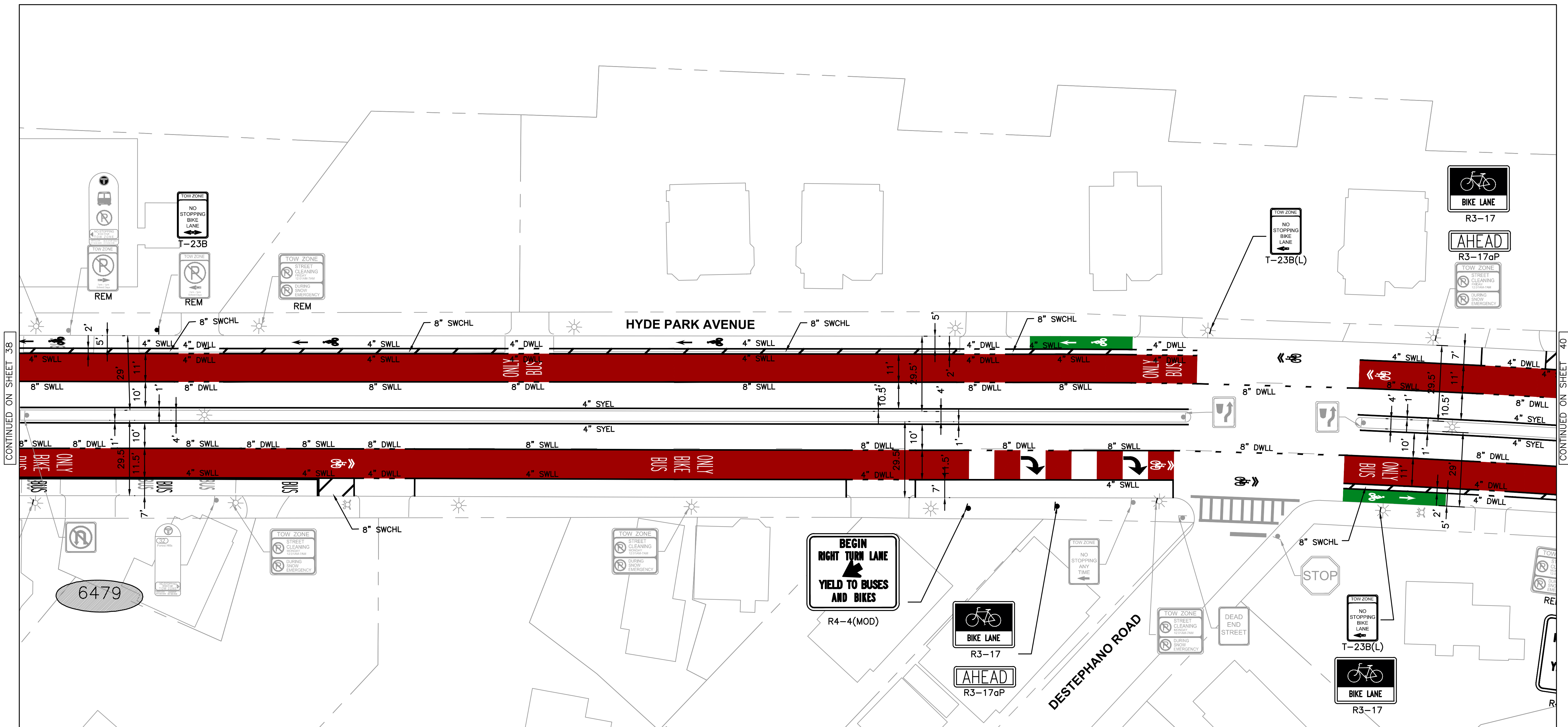
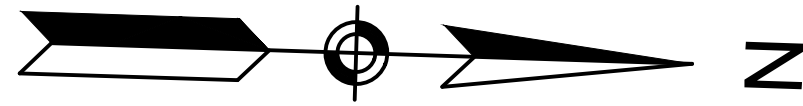
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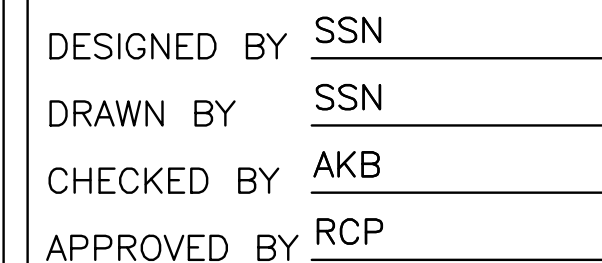
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BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS

HYDE PARK AVENUE PAVEMENT MARKINGS AND SIGNAGE PLAN

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SHEET 39 OF 101

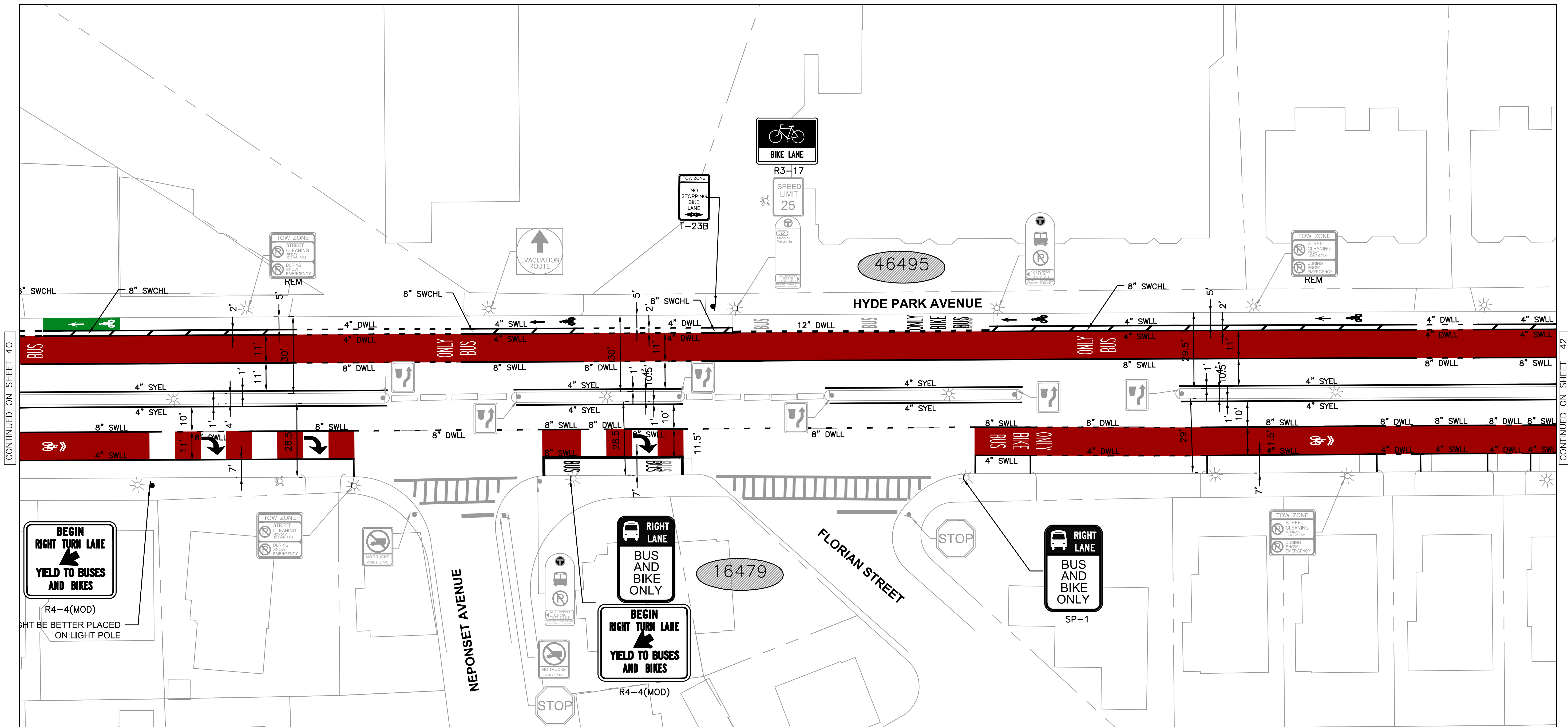
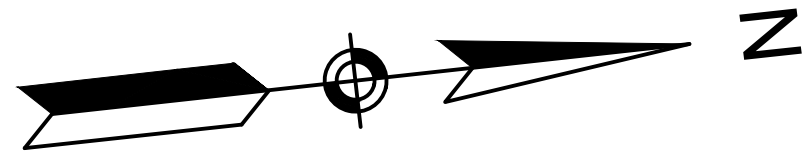


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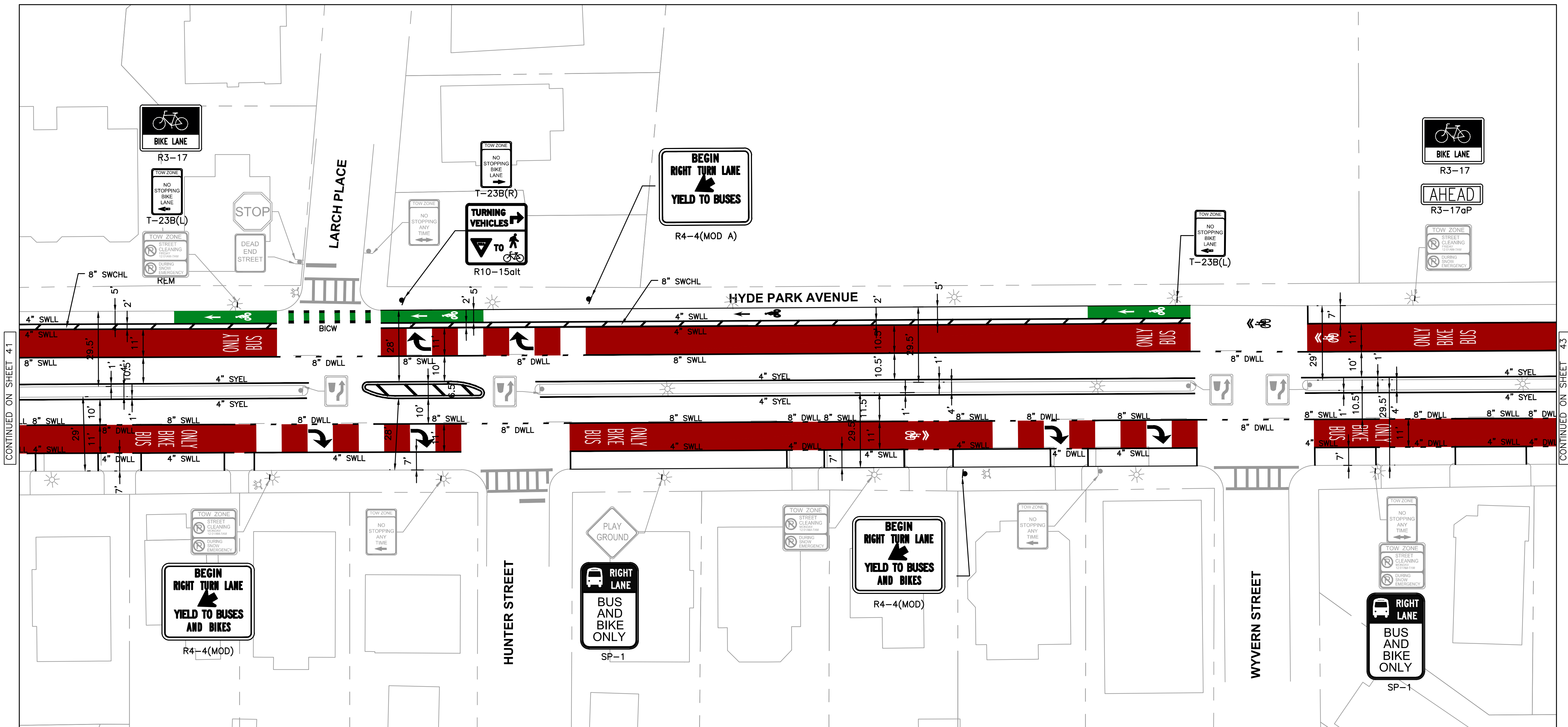
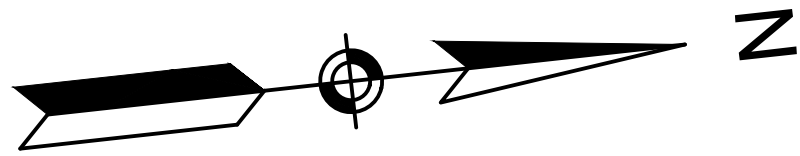
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ENGINEERING DIVISION
MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS

**HYDE PARK AVENUE
PAVEMENT MARKINGS AND SIGNAGE
PLAN**

AREA: -
DISTRICT: #
BOSTON AUGUST 2020
DRAWING NO. PM-012
SHEET 41 OF 101

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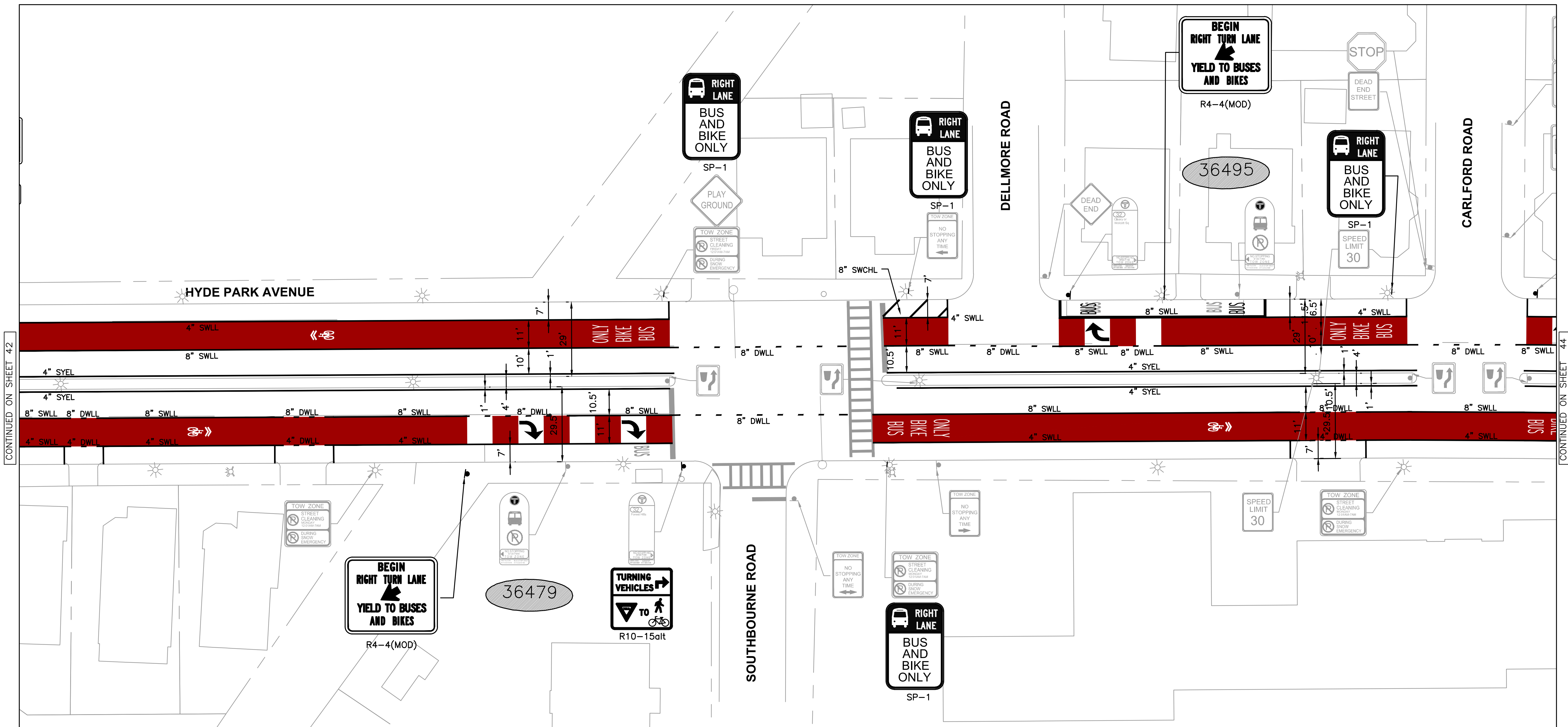
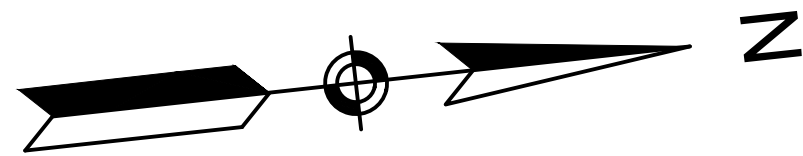
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ENGINEERING DIVISION
MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS

HYDE PARK AVENUE PAVEMENT MARKINGS AND SIGNAGE PLAN

AREA: -
DISTRICT: #
BOSTON AUGUST 2020
DRAWING NO. PM-013
SHEET 42 OF 101

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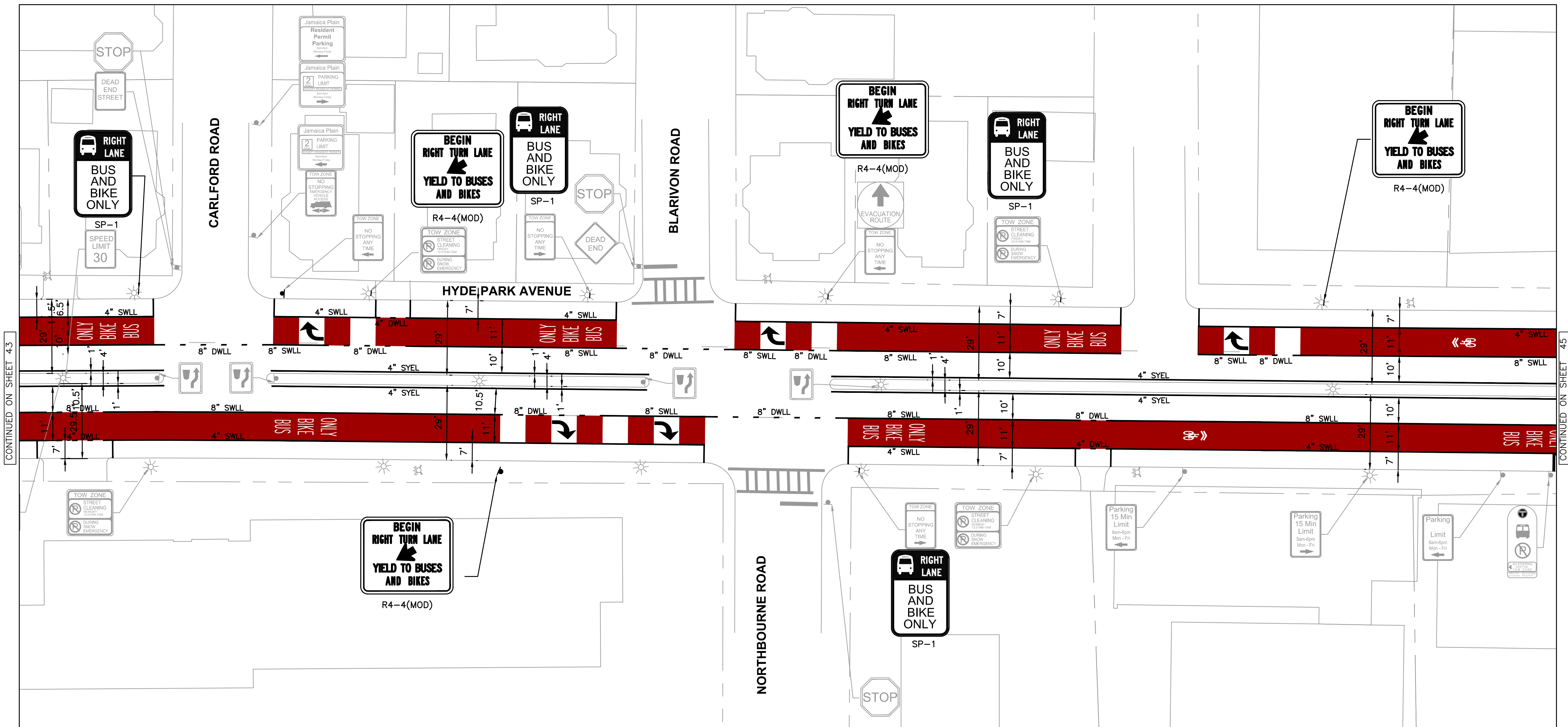
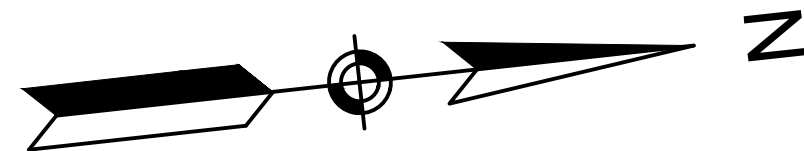
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ENGINEERING DIVISION
MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS

**HYDE PARK AVENUE
PAVEMENT MARKINGS AND SIGNAGE
PLAN**

AREA: -
DISTRICT: #
BOSTON
AUGUST 2020
DRAWING NO. PM-014
SHEET 43 OF 101

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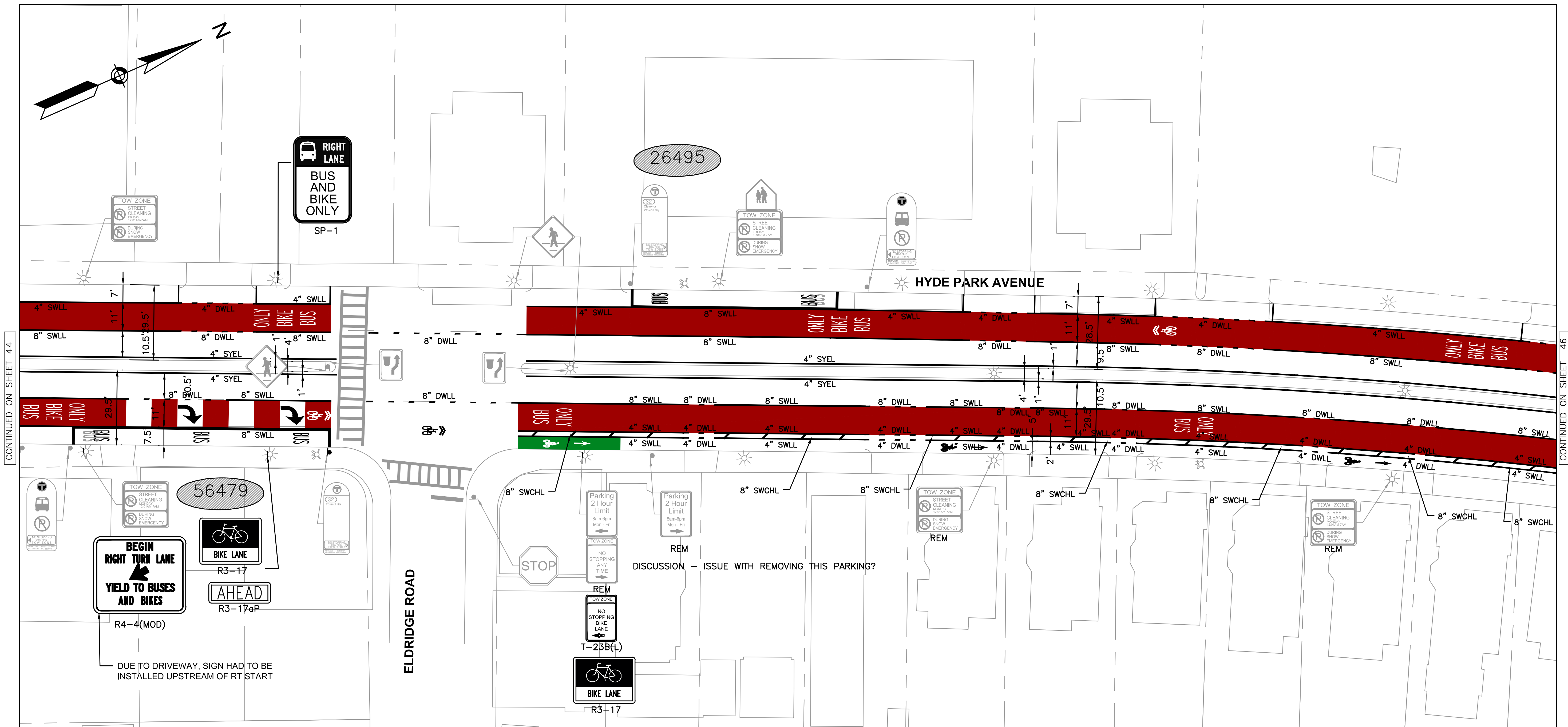
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ENGINEERING DIVISION
MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS

HYDE PARK AVENUE PAVEMENT MARKINGS AND SIGNAGE PLAN

AREA: -
DISTRICT: #
BOSTON AUGUST 2020
DRAWING NO. PM-015
SHEET 44 OF 101

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MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS

HYDE PARK AVENUE

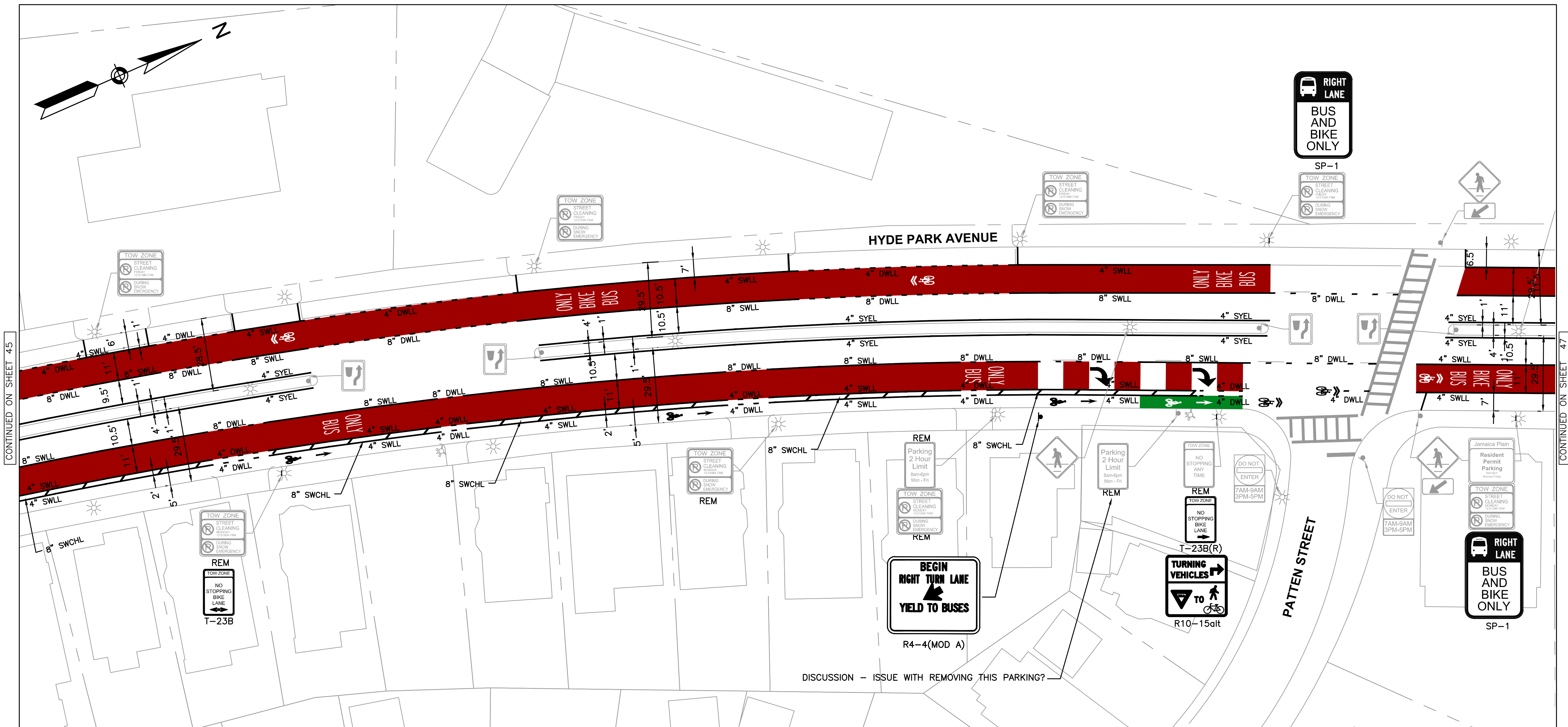
PAVEMENT MARKINGS AND SIGNAGE

PLAN

AREA: -
DISTRICT: #

BOSTON AUGUST 2020
DRAWING NO. PM-016
SHEET 45 OF 101

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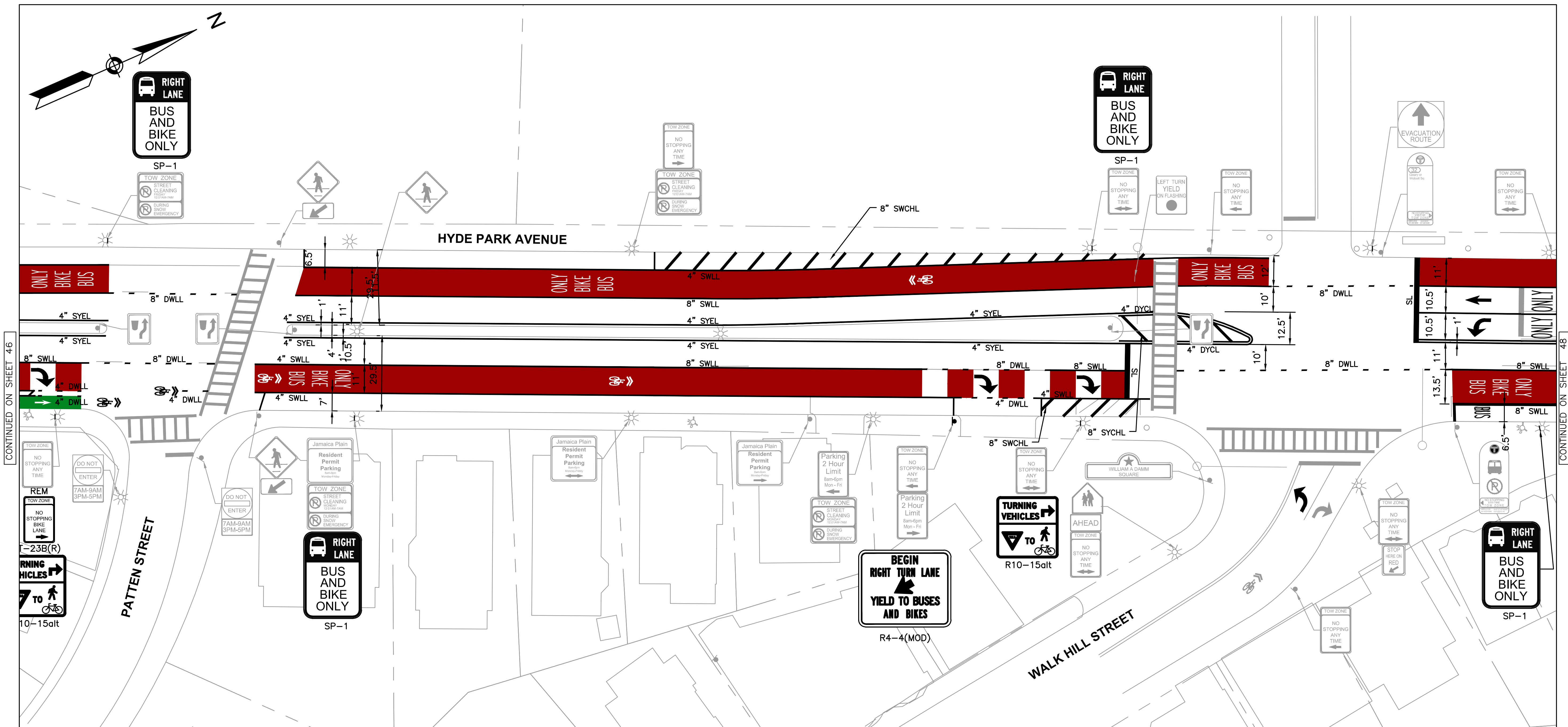
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AREA: -	BOSTON	AUGUST 2020
DISTRICT: #		DRAWING NO. PM-017 SHEET 46 OF 101

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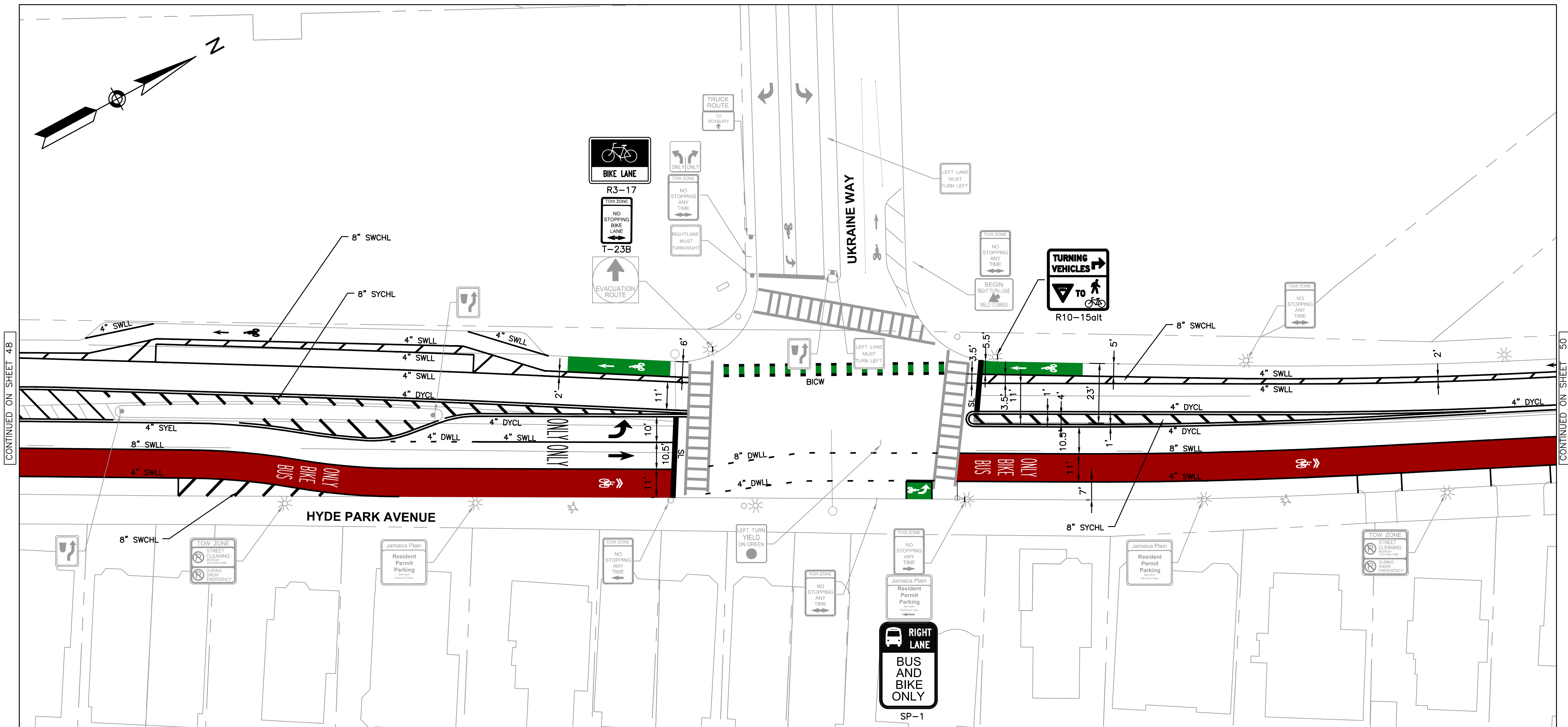
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AREA: -	BOSTON
DISTRICT: #	AUGUST 2020
	DRAWING NO. PM-018
	SHEET 47 OF 101

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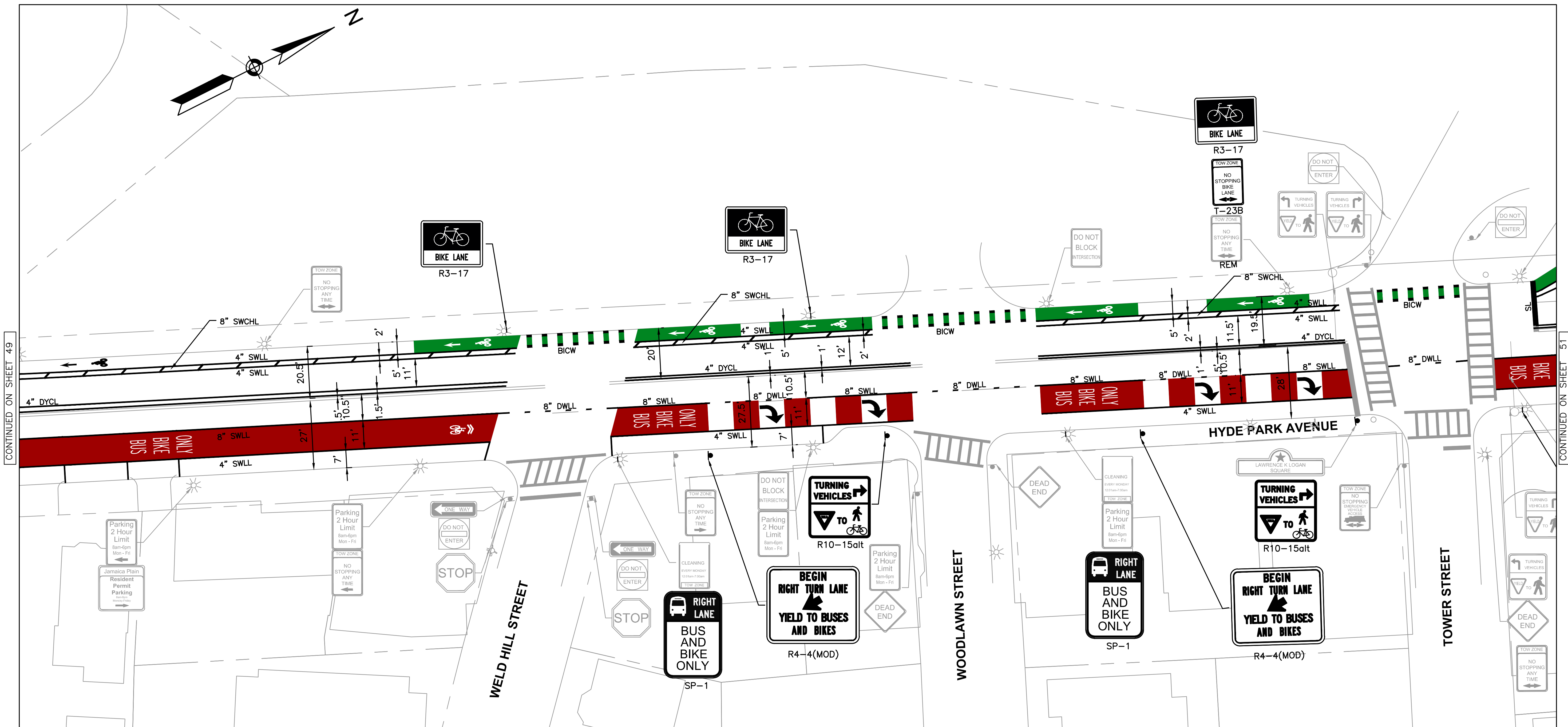
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BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS

HYDE PARK AVENUE PAVEMENT MARKINGS AND SIGNAGE PLAN

AREA: -
DISTRICT: #
BOSTON AUGUST 2020
DRAWING NO. PM-020
SHEET 49 OF 101

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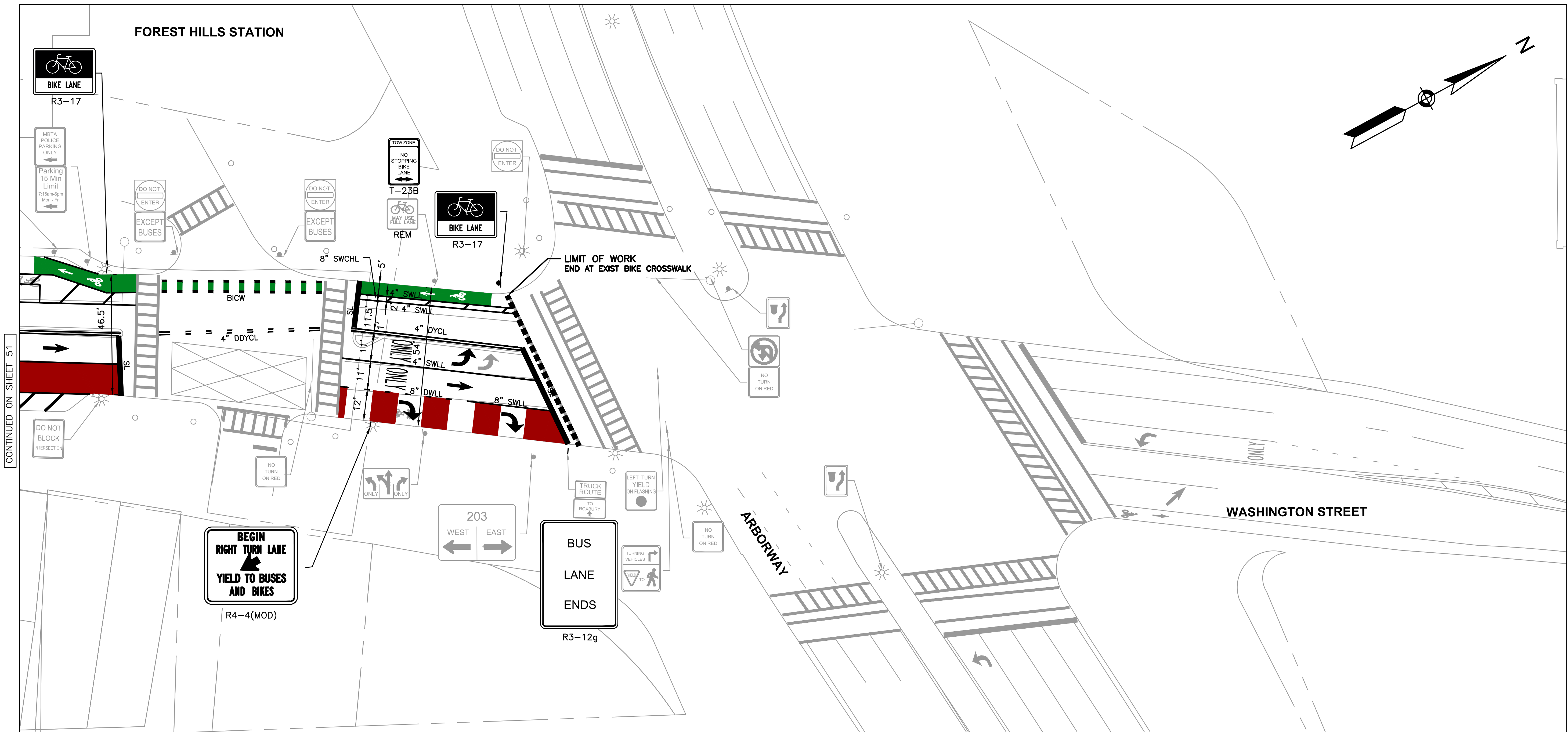
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HYDE PARK AVENUE PAVEMENT MARKINGS AND SIGNAGE PLAN

AREA: -
DISTRICT: #
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DRAWING NO. PM-021
SHEET 50 OF 101

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BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS

HYDE PARK AVENUE

PAVEMENT MARKINGS AND SIGNAGE PLAN

AREA: -
DISTRICT: #

BOSTON AUGUST 2020
DRAWING NO. PM-023
SHEET 52 OF 101

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TRAFFIC MANAGEMENT NOTES:

1. THE WORK ZONE SETUPS ON THESE PLANS ARE INTENDED AS A GUIDE, AND ARE SUBJECT TO CHANGE. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING, FOR REVIEW AND APPROVAL BY THE ENGINEER, DETAILED PLANS SHOWING THE MAINTENANCE OF VEHICULAR, BICYCLE AND PEDESTRIAN TRAFFIC DURING CONSTRUCTION. USING REFLECTORIZED DRUMS, TEMPORARY CONCRETE BARRIERS, ARROW PANELS, VARIABLE MESSAGE SIGNS, AND TEMPORARY SIGNAGE AND MARKINGS AS REQUIRED BY THE CONTRACT SPECIFICATIONS. ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE DESIGNED, INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND AS REQUIRED BY THE BOSTON TRANSPORTATION DEPARTMENT (BTD) AND THE CONTRACT SPECIFICATIONS. THE CONTRACTOR SHALL COORDINATE THE MAINTENANCE OF TRAFFIC OPERATIONS (INCLUDING LOCATION OF CONSTRUCTION SIGNAGE) WITH THE BOSTON TRANSPORTATION DEPARTMENT, AND WITH ANY ADJACENT CONSTRUCTION PROJECTS.
2. THE NB/SB INSIDE LANE TRAFFIC MANAGEMENT PLAN AND NB/SB OUTSIDE LANE TRAFFIC MANAGEMENT PLAN ARE MUTUALLY EXCLUSIVE AND SHALL BE IMPLEMENTED SEPARATELY FROM ONE ANOTHER.
3. ALL TRAFFIC CONTROL DEVICES SHALL COMPLY WITH THE MANUAL OF UNIFORM TRAFFIC DEVICES (MUTCD), 2009 EDITION.
4. ALL WARNING SIGNS SHALL HAVE AN ORANGE BACKGROUND WITH BLACK LEGEND AND BORDER. ALL SIGN LEGEND, BORDERS, AND MOUNTING SHALL BE IN ACCORDANCE WITH THE MUTCD.
5. THE MAXIMUM SPACING OF TRAFFIC DEVICES IN A TAPER IS EQUAL IN FEET TO THE SPEED LIMIT IN MPH.
6. CONTRACTOR SHALL SECURE WORK AREAS ACCORDING TO THE CURRENT CONDITIONS TO ENSURE PUBLIC SAFETY AND CONVENIENCE. THIS SHALL INCLUDE PROTECTING ALL EXCAVATIONS AT ALL TIMES DURING CONSTRUCTION AND WHEN WORKSHIFT IS COMPLETE.
7. TRAVEL LANES DURING CONSTRUCTION SHALL HAVE A CLEAR WIDTH, FROM THE EDGE OF THE DRUMS OR CONES, OF 11 FEET MINIMUM OR AS NOTED ON PLANS.
8. ALL DISTANCES MAY BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. MINIMUM DISTANCES WHERE INDICATED SHOULD BE MAINTAINED.
9. SIGNS AND SUPPORTS LOCATED ON OR NEAR THE TRAVELED WAY MUST PASS THE CRITERIA SET FOURTH IN THE NCHRP 350 REPORT.
10. ALL PARKING LANES WITHIN THE WORK ZONE OR TAPERED AREAS SHALL BE POSTED WITH NO PARKING SIGNS.
11. ALL SIGNS SHALL BE COVERED OR REMOVED WHEN CONDITION IS NOT IN EFFECT.
12. CONTRACTOR TO COORDINATE WITH BTD AND THE MASSACHUSETTS BAY TRANSPORTATION AUTHORITY (MBTA) TO TEMPORARY RELOCATE BUS STOPS WITHIN THE PROJECT AREA DURING CONSTRUCTION.
13. WORK ZONE SHALL BE SURROUNDED BY DRUMS.
14. WORK HOURS SHALL BE FROM 7:00 AM TO 3:30 PM MONDAY THROUGH FRIDAY. ALL WORK REQUIRING A VEHICULAR TRAVEL LANE REDUCTION WILL ONLY BE PERMITTED FROM 9:30 AM TO 3:30 PM. WORK ON SATURDAYS AND SUNDAYS SHALL BE FROM 7:00 AM TO 7:00 PM.

NOTES:

1. TEMPORARY CONSTRUCTION SIGNING AND ALL OTHER TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF ANY WORK.
2. TEMPORARY CONSTRUCTION SIGNING, BARRICADES, AND ALL OTHER NECESSARY WORK ZONE TRAFFIC CONTROL DEVICES SHALL BE REMOVED FROM THE HIGHWAY OR COVERED WHEN THEY ARE NOT REQUIRED FOR CONTROL OF TRAFFIC.
3. CONTRACTORS SHALL NOTIFY EACH ABUTTER AT LEAST 24 HOURS IN ADVANCE OF THE START OF ANY WORK THAT WILL REQUIRE THE TEMPORARY CLOSURE OF ACCESS, SUCH AS CONDUIT INSTALLATION, EXISTING PAVEMENT EXCAVATION, TEMPORARY DRIVEWAY PAVEMENT PLACEMENT, AND SIMILAR OPERATIONS.
4. THE ADVISORY SPEED LIMIT, IF REQUIRED, SHALL BE DETERMINED BY THE ENGINEER.
5. MINIMUM LANE WIDTH IS TO BE 11 FEET (3.3m) UNLESS OTHERWISE SHOWN. MINIMUM LANE WIDTH TO BE MEASURED FROM THE EDGE OF DRUMS OR MEDIAN BARRIER.

LEGEND:

- | | | |
|--|--|--|
| ● REFLECTORIZED PLASTIC DRUM OR 36" CONE |  WORK ZONE |  WORK VEHICLE |
| P/F POLICE/FLAGGER DETAIL |  DIRECTION OF TRAFFIC |  TRUCK MOUNTED ATTENUATOR |
|  TYPE III BARRICADE |  IMPACT ATTENUATOR |  TRAFFIC OR PEDESTRIAN SIGNAL |
|  CHANGEABLE MESSAGE SIGN |  MEDIAN BARRIER |  SIGN |
|  ARROW BOARD |  MEDIAN BARRIER WITH WARNING LIGHTS | |
|  REFLECTORIZED PLASTIC DRUM OR 36" CONE WITH TYPE A LIGHT | | |

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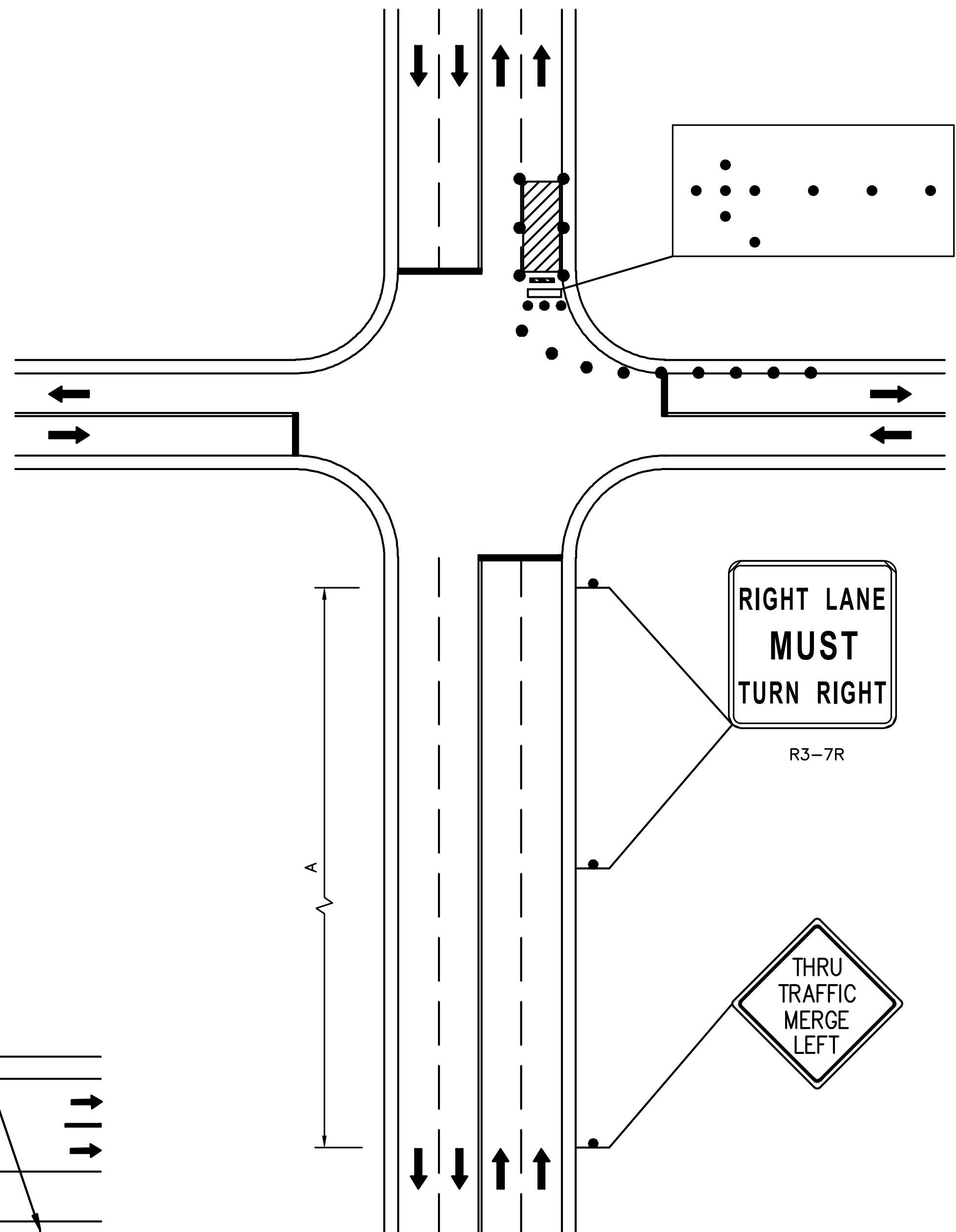
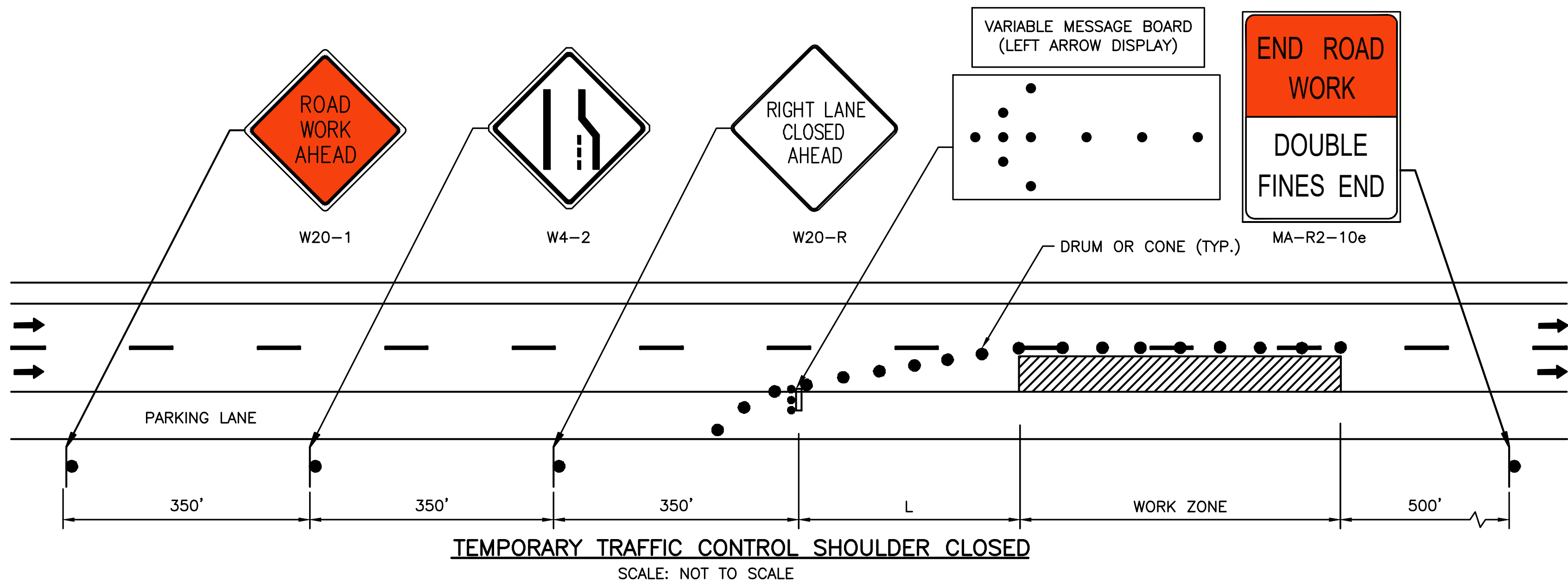
CITY OF BOSTON TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION
MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS

HYDE PARK AVENUE

TRAFFIC MANAGEMENT DETAILS

AREA: - BOSTON AUGUST 2020
DISTRICT: # DRAWING NO. TMP-001
SHEET 53 OF 101

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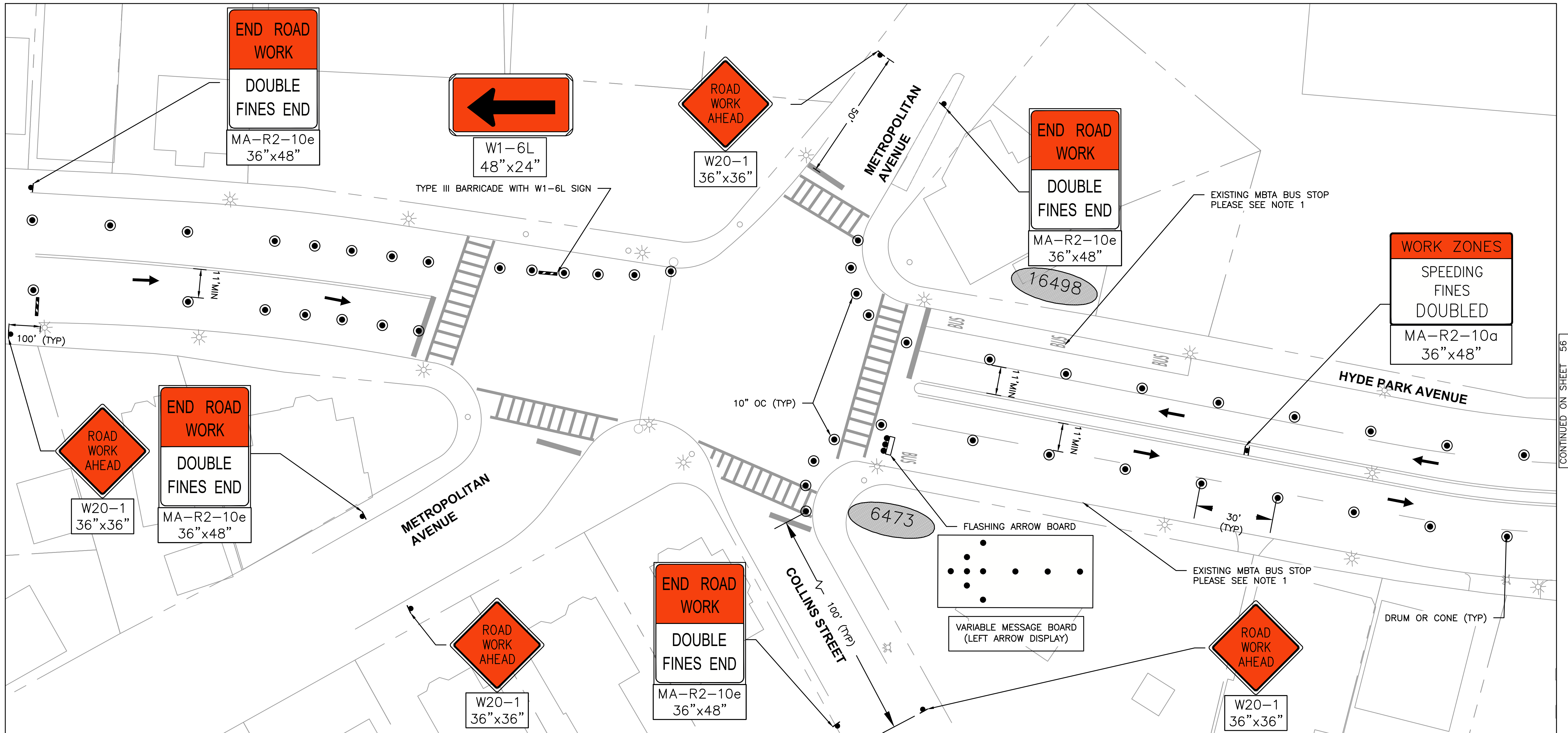
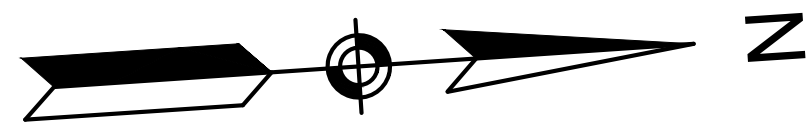
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MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS
HYDE PARK AVENUE

TRAFFIC MANAGEMENT DETAILS

AREA: - BOSTON AUGUST 2020
DISTRICT: # DRAWING NO. TMP-002
SHEET 54 OF 101



NOTES

1. CONTRACTOR TO COORDINATE WITH BTD AND THE MASSACHUSETTS BAY TRANSPORTATION DEPARTMENT (MBTA) TO TEMPORARILY RELOCATE BUS STOPS WITHIN THE PROJECT AREA DURING CONSTRUCTION.
2. EXISTING ACCESS TO DRIVEWAYS AND PUBLIC/RESIDENTIAL ENTRANCES TO BE MAINTAINED AT ALL TIMES THROUGHOUT CONSTRUCTION.

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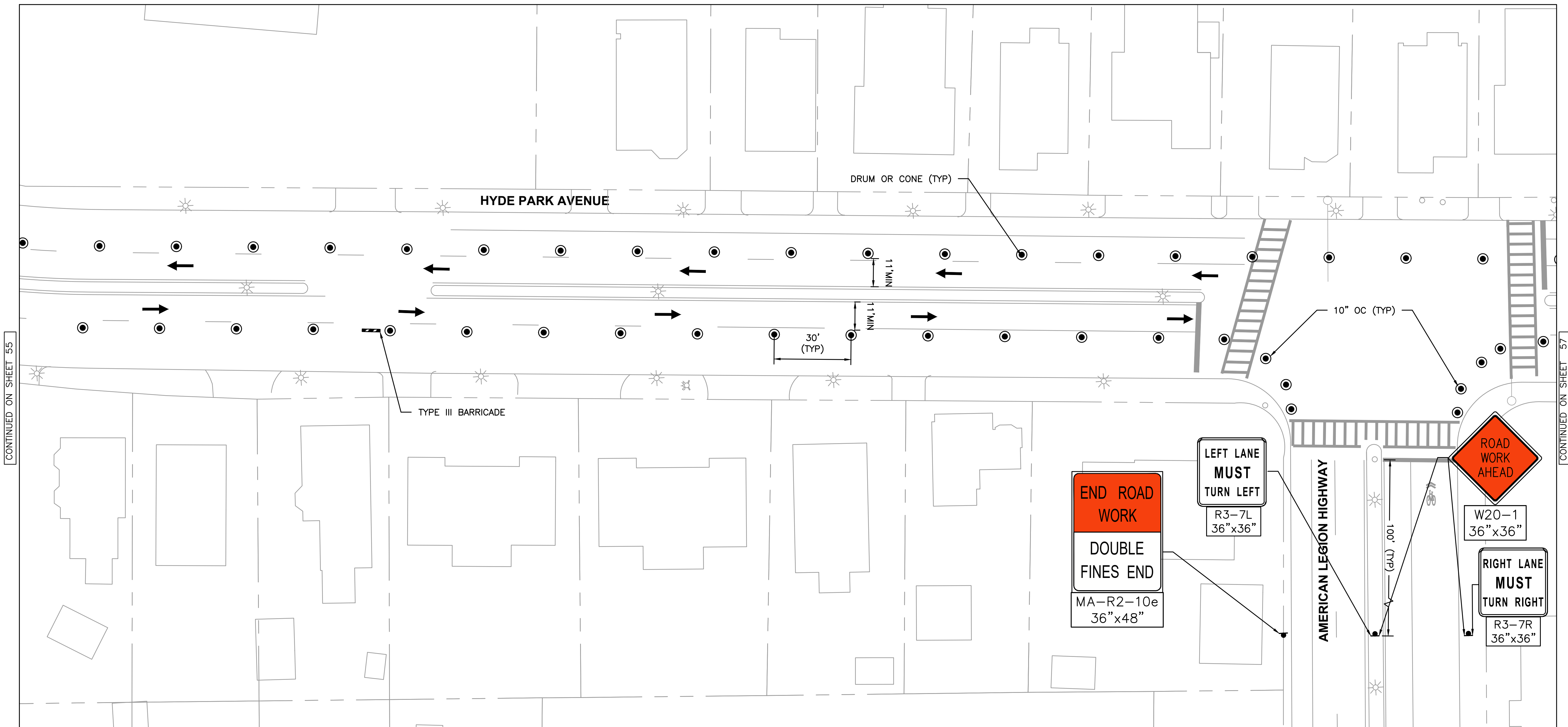
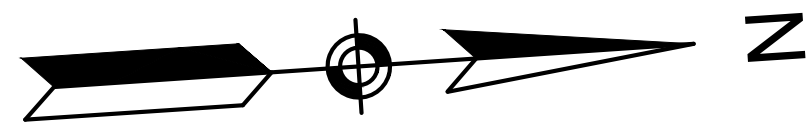
CITY OF BOSTON TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION
MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS

HYDE PARK AVENUE

**NB_SB INSIDE LANE TRAFFIC
MANAGEMENT PLAN**

AREA: -
DISTRICT: #
BOSTON AUGUST 2020
DRAWING NO. TMP-003
SHEET 55 OF 101

CONTINUED ON SHEET 56



NOTES

1. CONTRACTOR TO COORDINATE WITH BTD AND THE MASSACHUSETTS BAY TRANSPORTATION DEPARTMENT (MBTA) TO TEMPORARILY RELOCATE BUS STOPS WITHIN THE PROJECT AREA DURING CONSTRUCTION.
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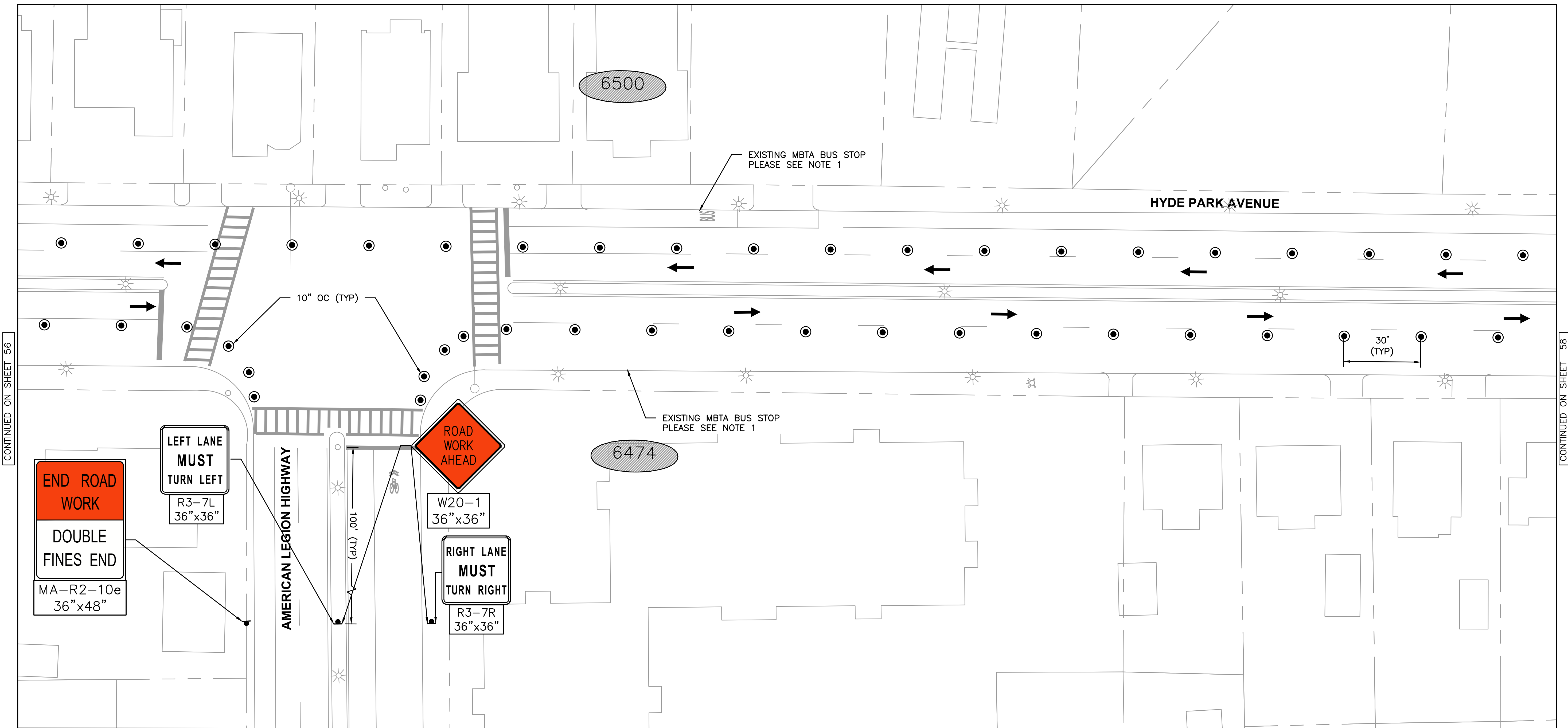
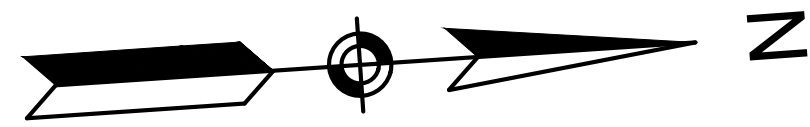
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ENGINEERING DIVISION
MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS

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MANAGEMENT PLAN**

AREA: -
DISTRICT: #
BOSTON
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DRAWING NO. TMP-004
SHEET 56 OF 101



CONTINUED ON SHEET 56

CONTINUED ON SHEET 58

NOTES

1. CONTRACTOR TO COORDINATE WITH BTD AND THE MASSACHUSETTS BAY TRANSPORTATION DEPARTMENT (MBTA) TO TEMPORARILY RELOCATE BUS STOPS WITHIN THE PROJECT AREA DURING CONSTRUCTION.
2. EXISTING ACCESS TO DRIVEWAYS AND PUBLIC/RESIDENTIAL ENTRANCES TO BE MAINTAINED AT ALL TIMES THROUGHOUT CONSTRUCTION.

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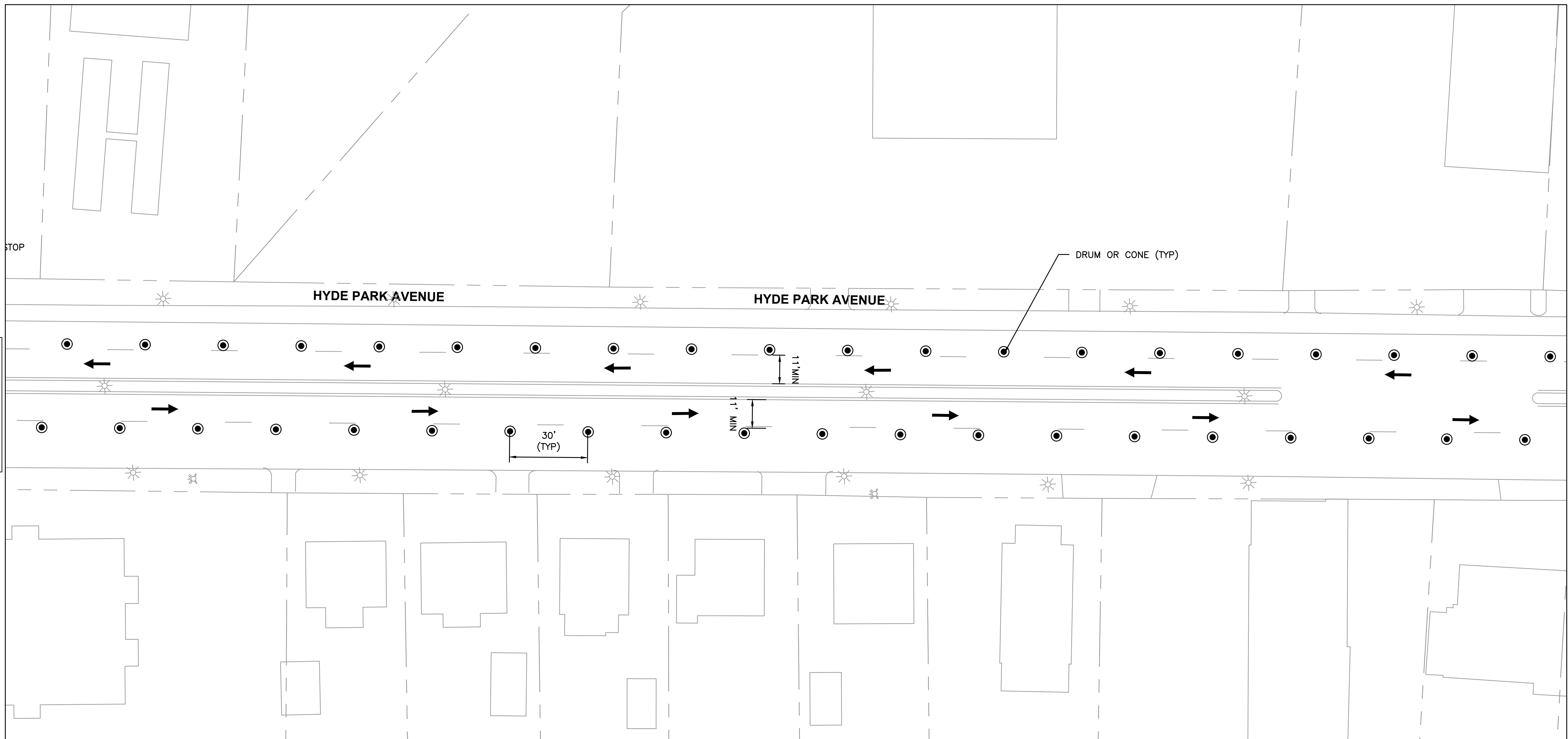
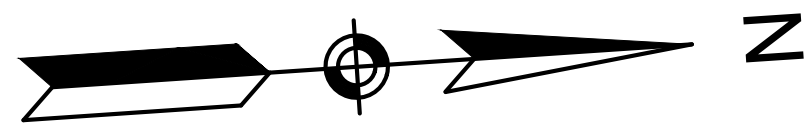
CITY OF BOSTON TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION
MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS

HYDE PARK AVENUE

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AREA: -
DISTRICT: #

BOSTON AUGUST 2020
DRAWING NO. TMP-005
SHEET 57 OF 101



NOTES

1. CONTRACTOR TO COORDINATE WITH BTB AND THE MASSACHUSETTS BAY TRANSPORTATION DEPARTMENT (MBTA) TO TEMPORARILY RELOCATE BUS STOPS WITHIN THE PROJECT AREA DURING CONSTRUCTION.
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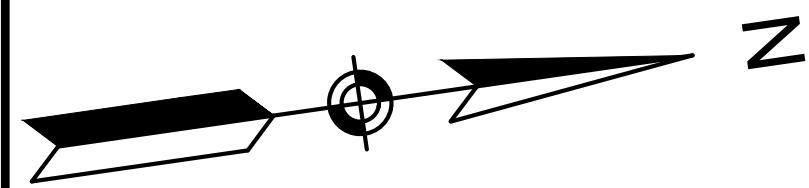
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BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS

HYDE PARK AVENUE

**NB_SB INSIDE LANE TRAFFIC
MANAGEMENT PLAN**

AREA: -
DISTRICT: #

BOSTON AUGUST 2020
DRAWING NO. TMP-006
SHEET 58 OF 101



NOTES

1. CONTRACTOR TO COORDINATE WITH BTB AND THE MASSACHUSETTS BAY TRANSPORTATION DEPARTMENT (MBTA) TO TEMPORARILY RELOCATE BUS STOPS WITHIN THE PROJECT AREA DURING CONSTRUCTION.
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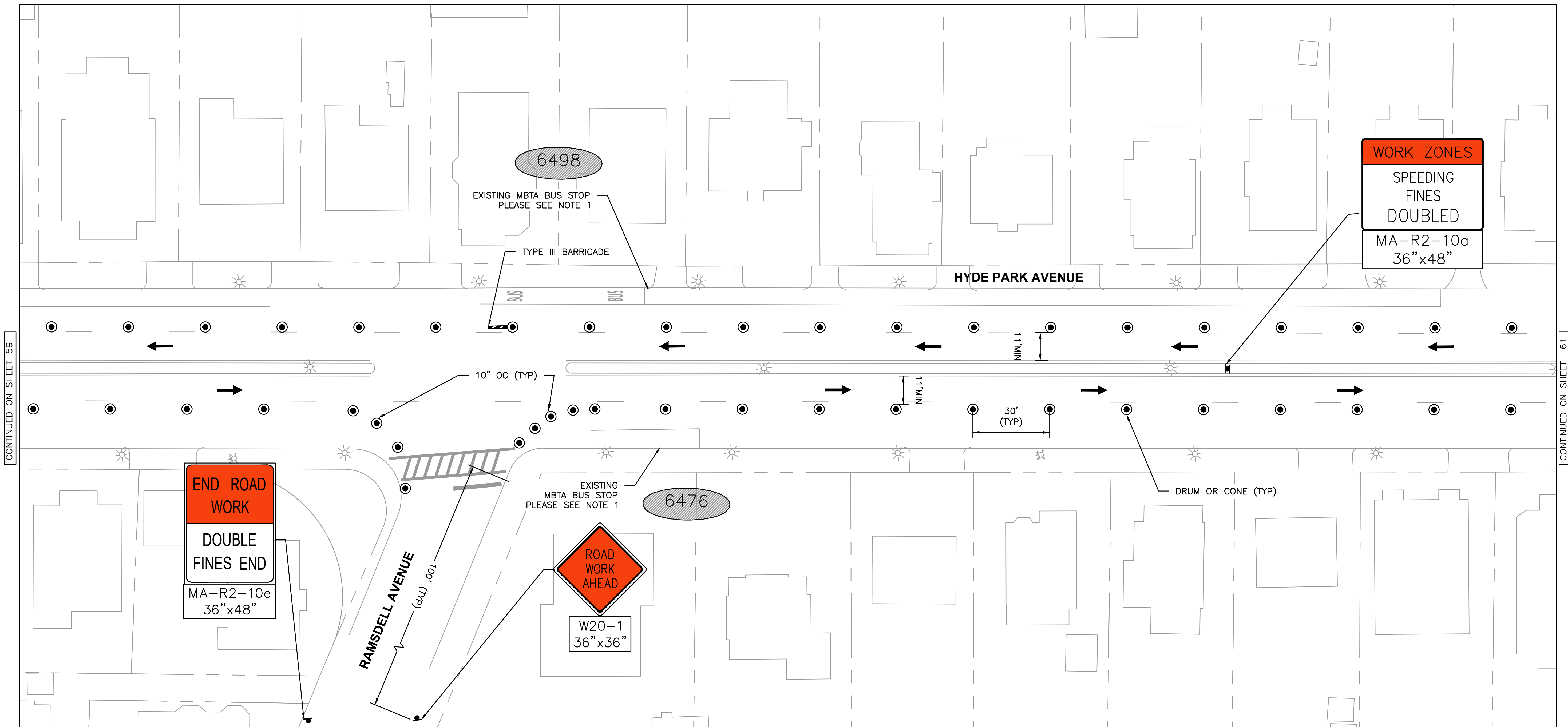
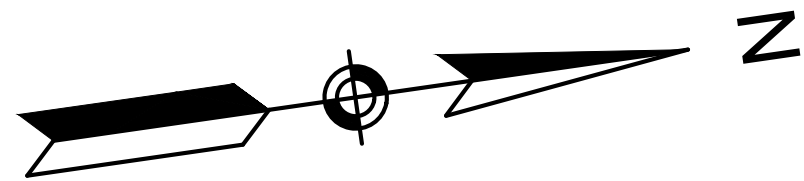
CITY OF BOSTON TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION
MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS

HYDE PARK AVENUE

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MANAGEMENT PLAN**

AREA: -	BOSTON	AUGUST 2020
DISTRICT: #		DRAWING NO. TMP-007
		SHEET 59 OF 101

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CONTINUED ON SHEET 59

CONTINUED ON SHEET 61

NOTES

1. CONTRACTOR TO COORDINATE WITH BTD AND THE MASSACHUSETTS BAY TRANSPORTATION DEPARTMENT (MBTA) TO TEMPORARILY RELOCATE BUS STOPS WITHIN THE PROJECT AREA DURING CONSTRUCTION.
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MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS

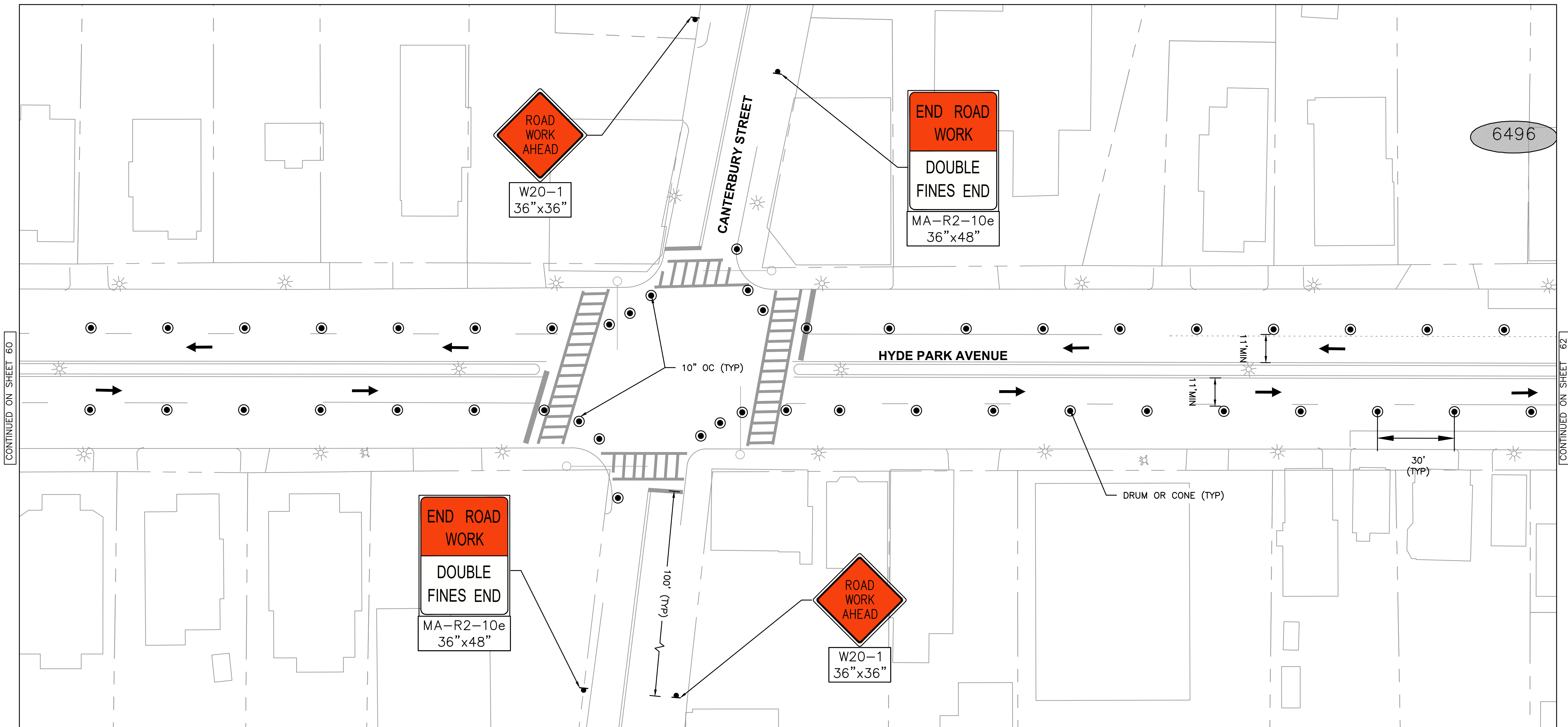
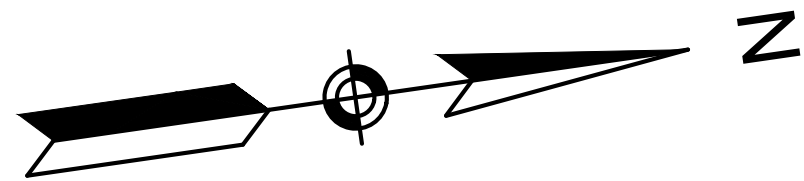
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MANAGEMENT PLAN**

AREA: -
DISTRICT: #

BOSTON AUGUST 2020
DRAWING NO. TMP-008
SHEET 60 OF 101

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NOTES

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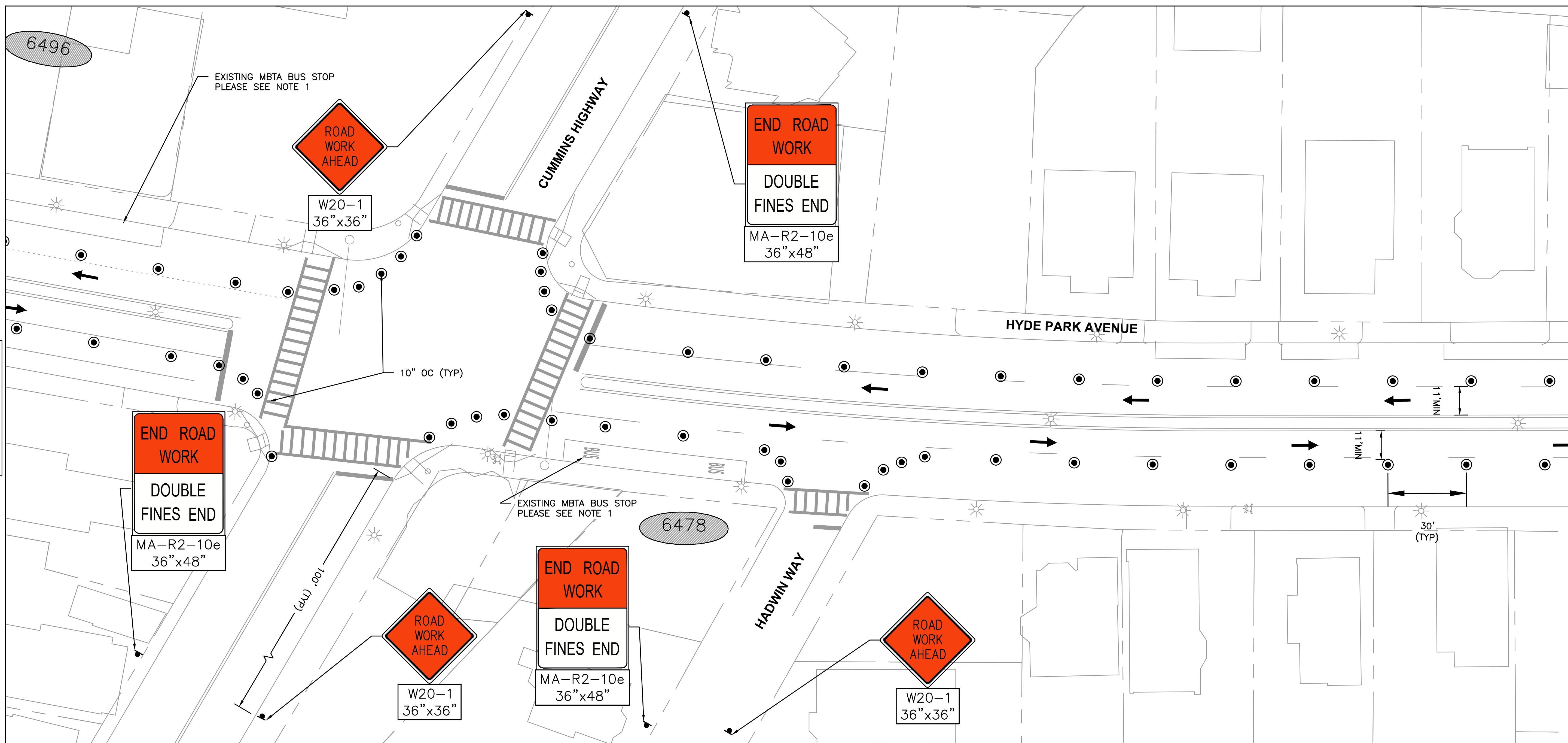
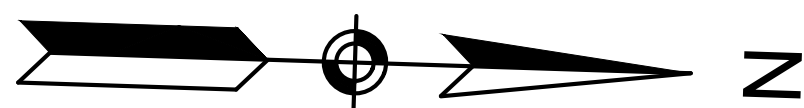
CITY OF BOSTON TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION
MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS

HYDE PARK AVENUE

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MANAGEMENT PLAN**

AREA: -
DISTRICT: #

BOSTON AUGUST 2020
DRAWING NO. TMP-009
SHEET 61 OF 101



CONTINUED ON SHEET 61

CONTINUED ON SHEET 63

NOTES

1. CONTRACTOR TO COORDINATE WITH BTD AND THE MASSACHUSETTS BAY TRANSPORTATION DEPARTMENT (MBTA) TO TEMPORARILY RELOCATE BUS STOPS WITHIN THE PROJECT AREA DURING CONSTRUCTION.
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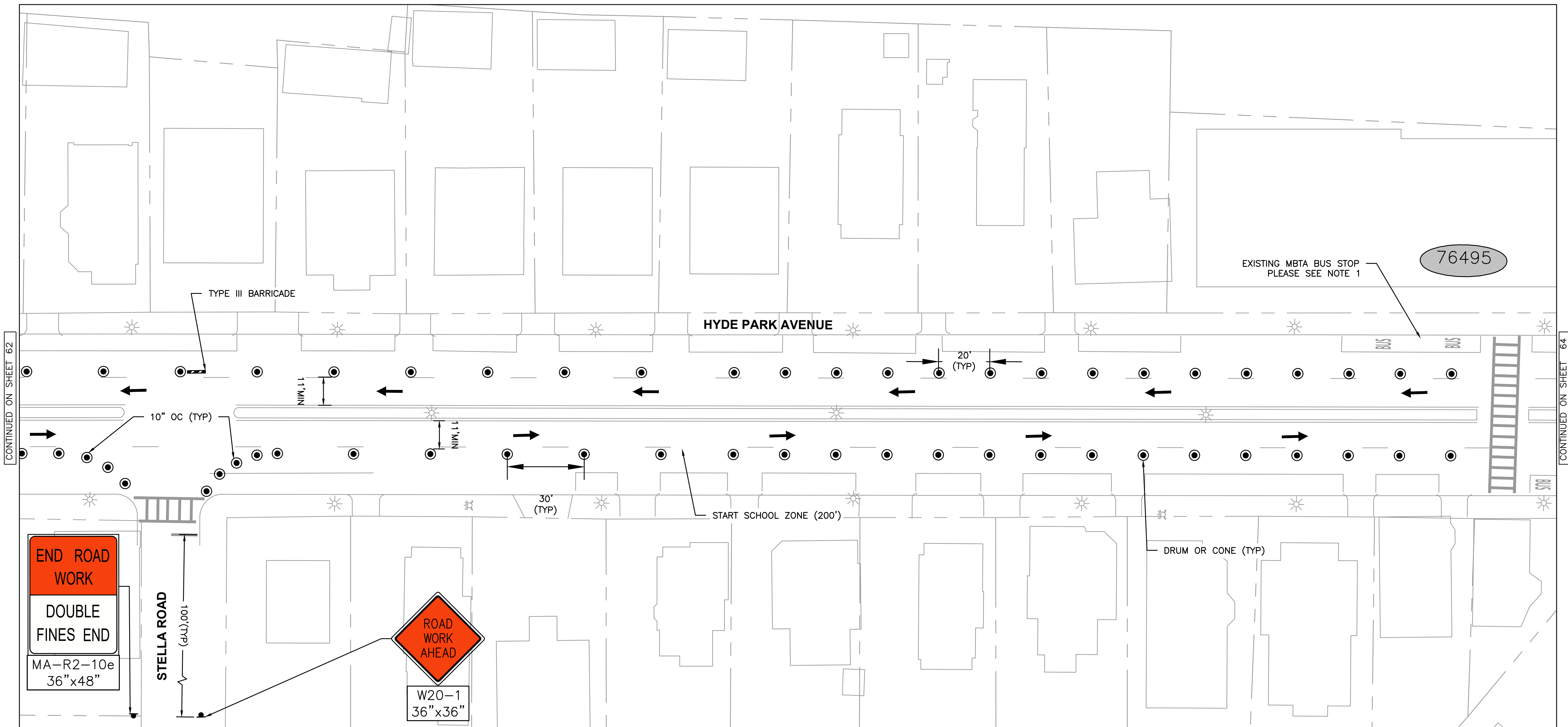
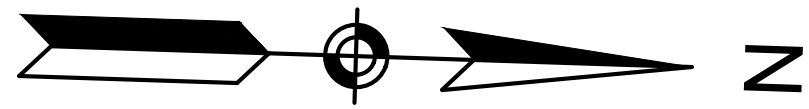
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BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS

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MANAGEMENT PLAN**

AREA: -
DISTRICT: #
BOSTON AUGUST 2020
DRAWING NO. TMP-010
SHEET 62 OF 101



NOTES

1. CONTRACTOR TO COORDINATE WITH BTD AND THE MASSACHUSETTS BAY TRANSPORTATION DEPARTMENT (MBTA) TO TEMPORARILY RELOCATE BUS STOPS WITHIN THE PROJECT AREA DURING CONSTRUCTION.
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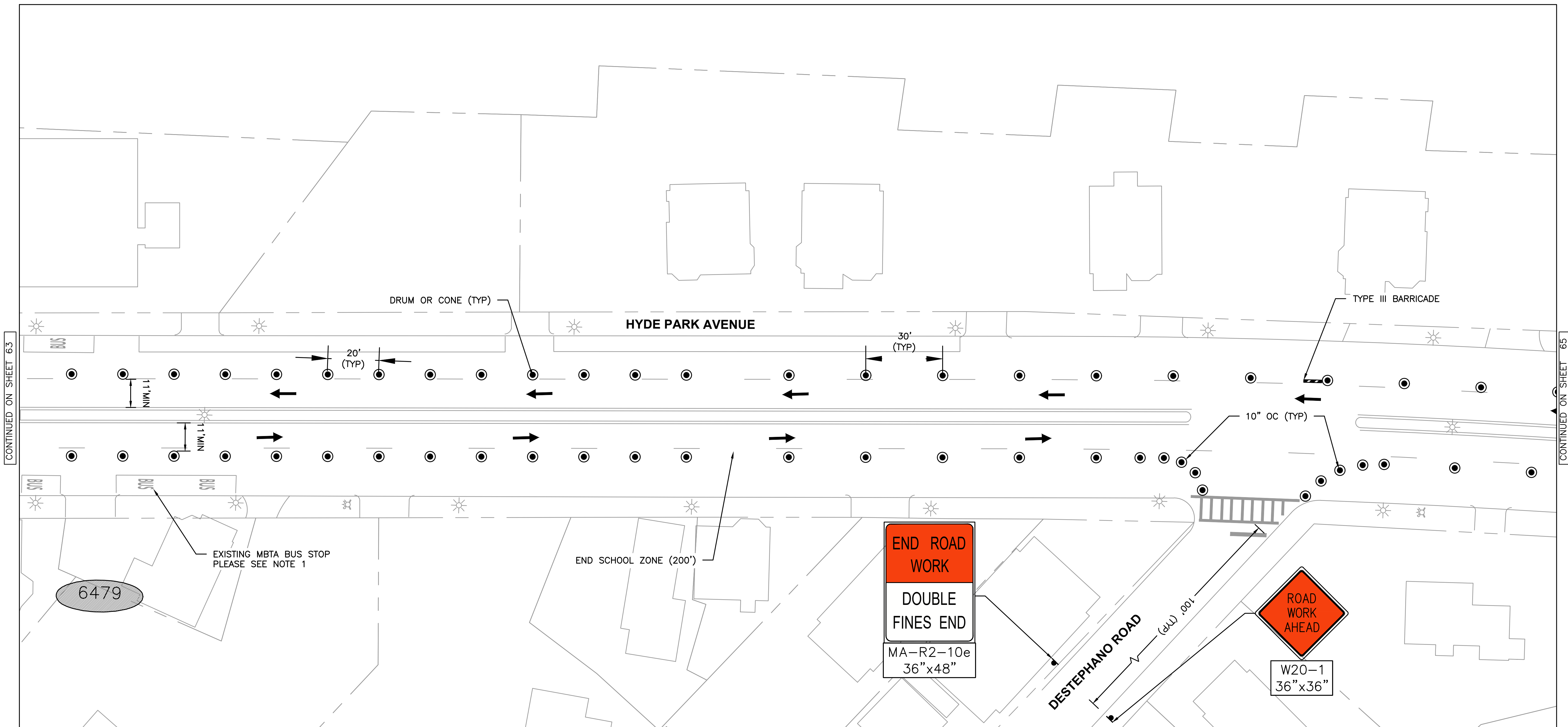
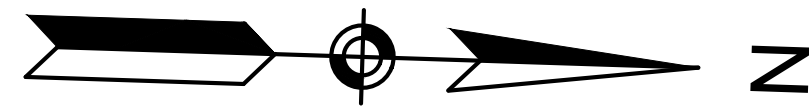
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MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS

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MANAGEMENT PLAN**

AREA: -	BOSTON	AUGUST 2020
DISTRICT: #		DRAWING NO. TMP-011
		SHEET 63 OF 101



CONTINUED ON SHEET 63

CONTINUED ON SHEET 65

NOTES

1. CONTRACTOR TO COORDINATE WITH BTD AND THE MASSACHUSETTS BAY TRANSPORTATION DEPARTMENT (MBTA) TO TEMPORARILY RELOCATE BUS STOPS WITHIN THE PROJECT AREA DURING CONSTRUCTION.
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BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS

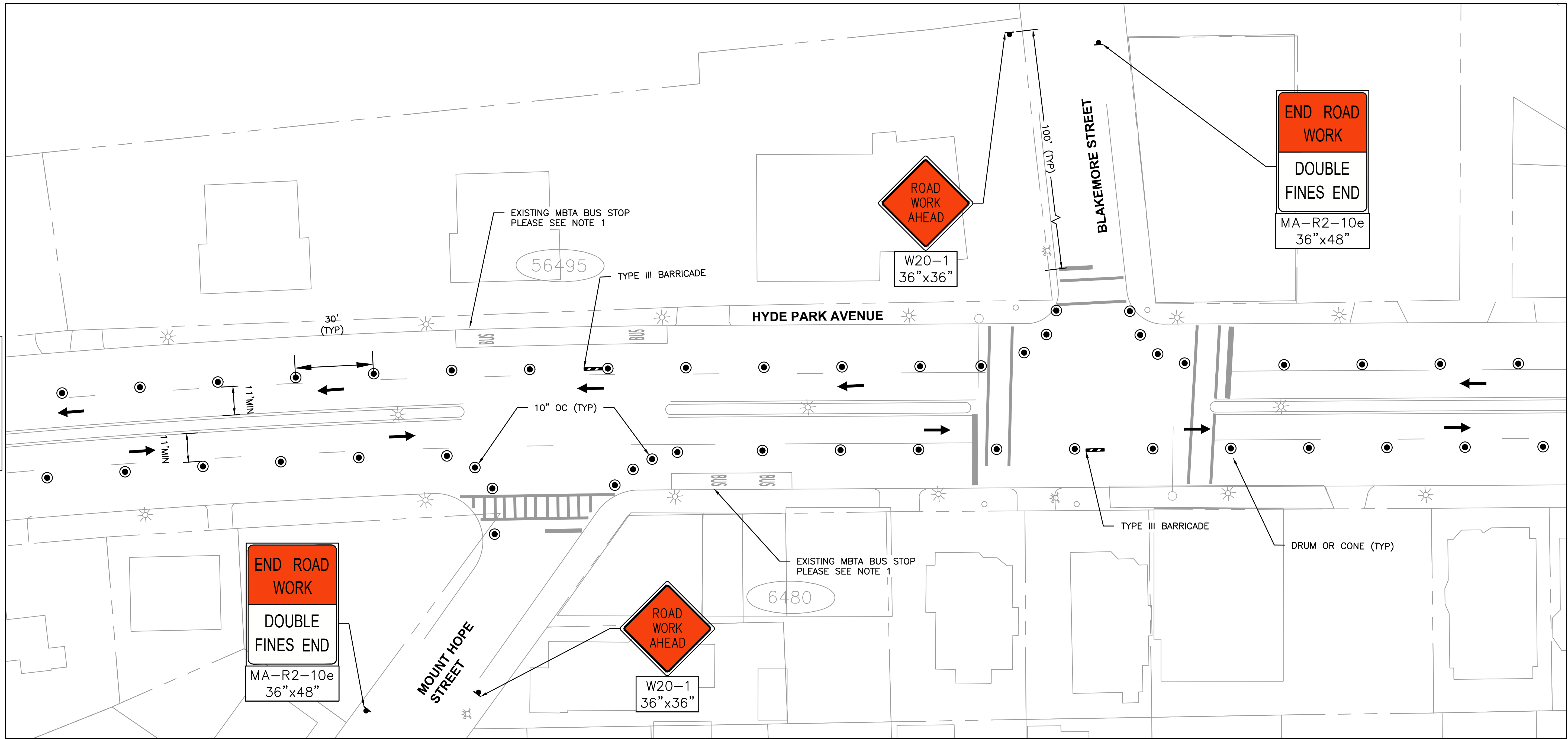
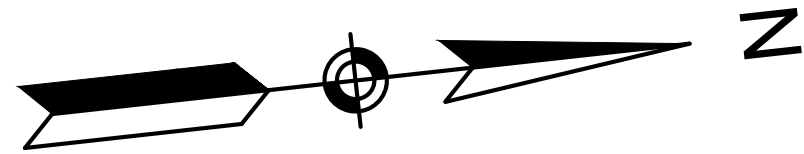
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MANAGEMENT PLAN**

AREA: -
DISTRICT: #

BOSTON AUGUST 2020
DRAWING NO. TMP-012
SHEET 64 OF 101

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CONTINUED ON SHEET 64

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NOTES

1. CONTRACTOR TO COORDINATE WITH BTB AND THE MASSACHUSETTS BAY TRANSPORTATION DEPARTMENT (MBTA) TO TEMPORARILY RELOCATE BUS STOPS WITHIN THE PROJECT AREA DURING CONSTRUCTION.
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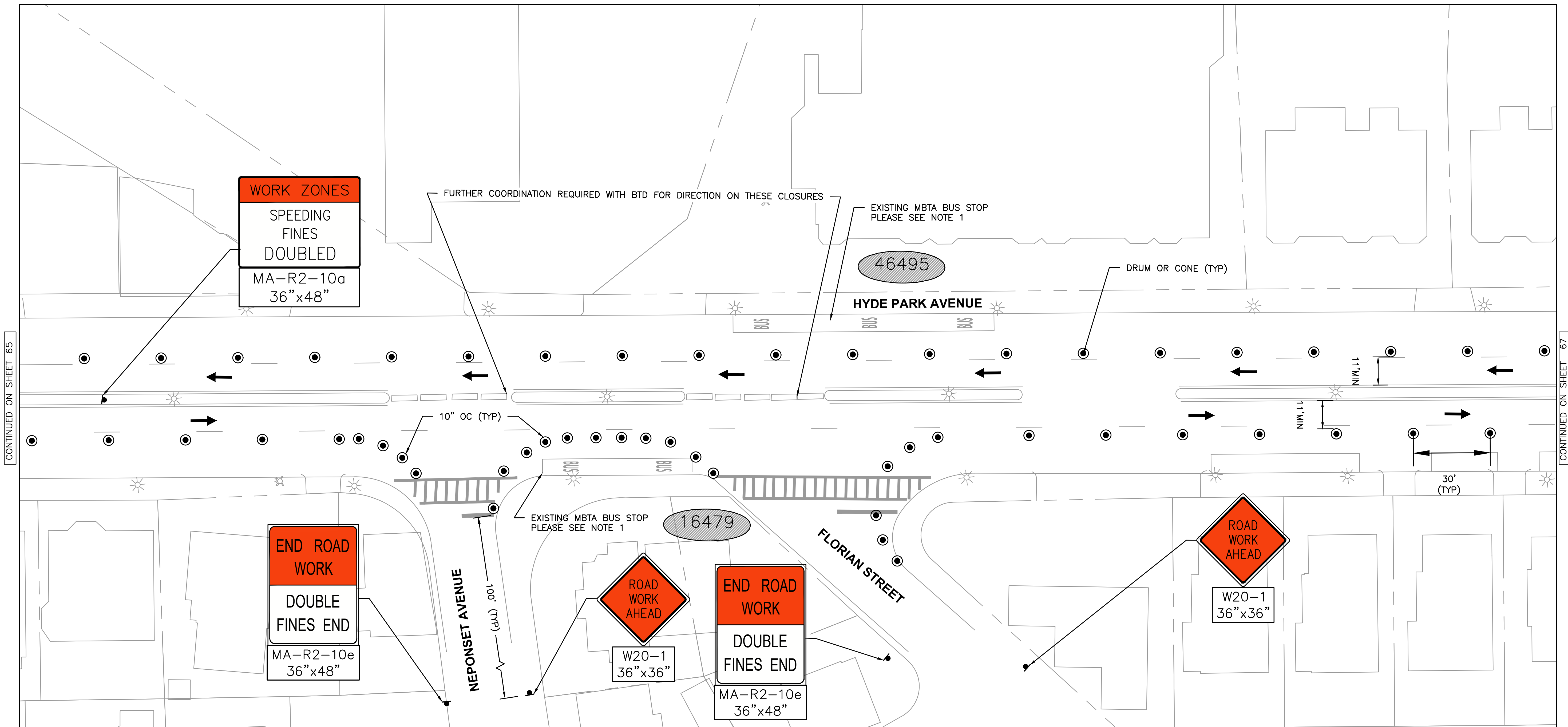
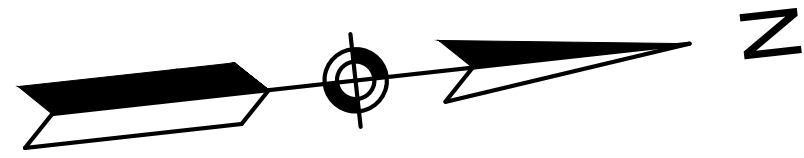
CITY OF BOSTON TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION
MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS

HYDE PARK AVENUE

**NB_SB INSIDE LANE TRAFFIC
MANAGEMENT PLAN**

AREA: -
DISTRICT: #

BOSTON AUGUST 2020
DRAWING NO. TMP-013
SHEET 65 OF 101



CONTINUED ON SHEET 65

CONTINUED ON SHEET 67

NOTES

1. CONTRACTOR TO COORDINATE WITH BTD AND THE MASSACHUSETTS BAY TRANSPORTATION DEPARTMENT (MBTA) TO TEMPORARILY RELOCATE BUS STOPS WITHIN THE PROJECT AREA DURING CONSTRUCTION.
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BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS

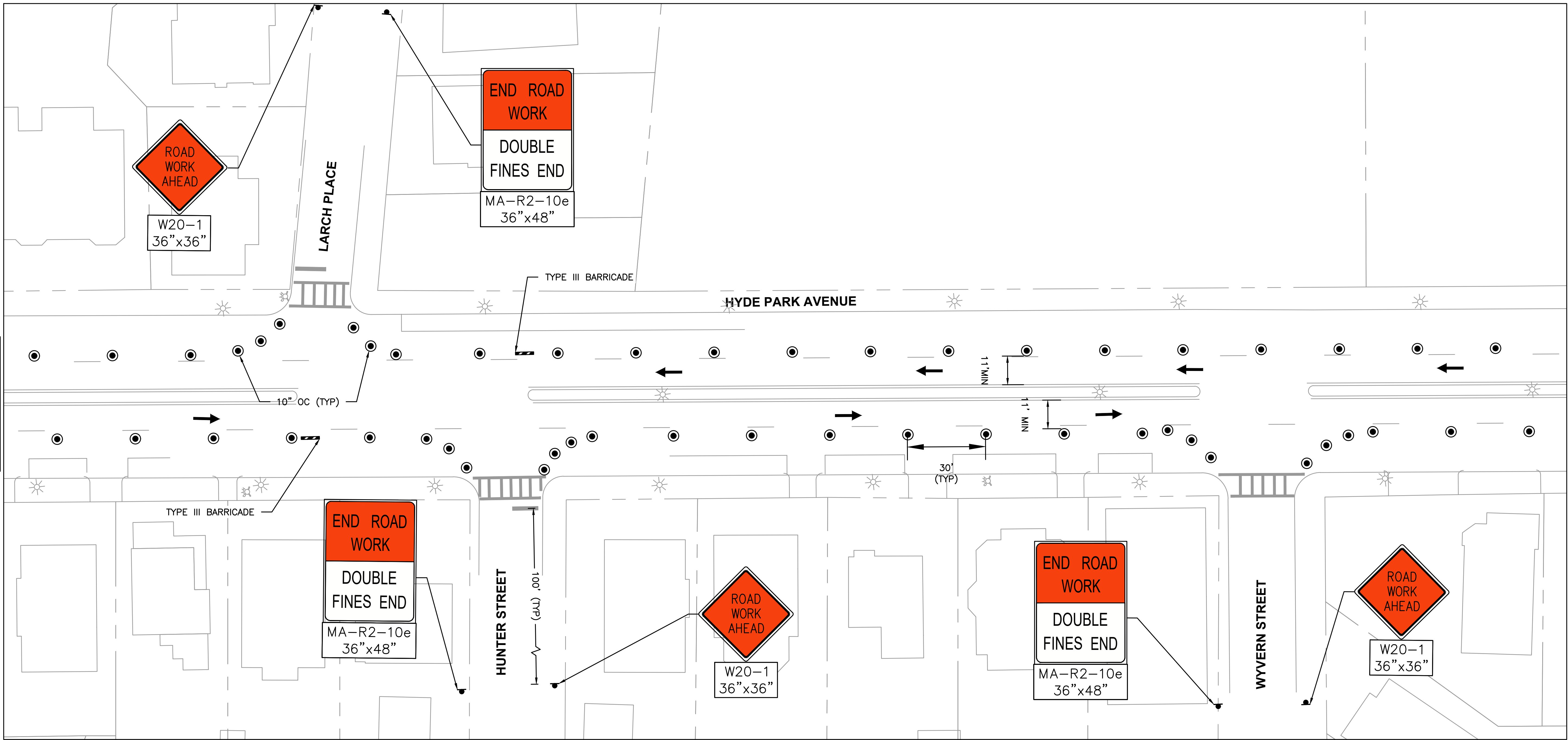
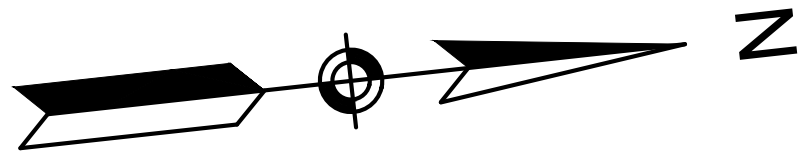
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AREA: -
DISTRICT: #

BOSTON AUGUST 2020
DRAWING NO. TMP-014
SHEET 66 OF 101

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CONTINUED ON SHEET 68

NOTES

1. CONTRACTOR TO COORDINATE WITH BTD AND THE MASSACHUSETTS BAY TRANSPORTATION DEPARTMENT (MBTA) TO TEMPORARILY RELOCATE BUS STOPS WITHIN THE PROJECT AREA DURING CONSTRUCTION.
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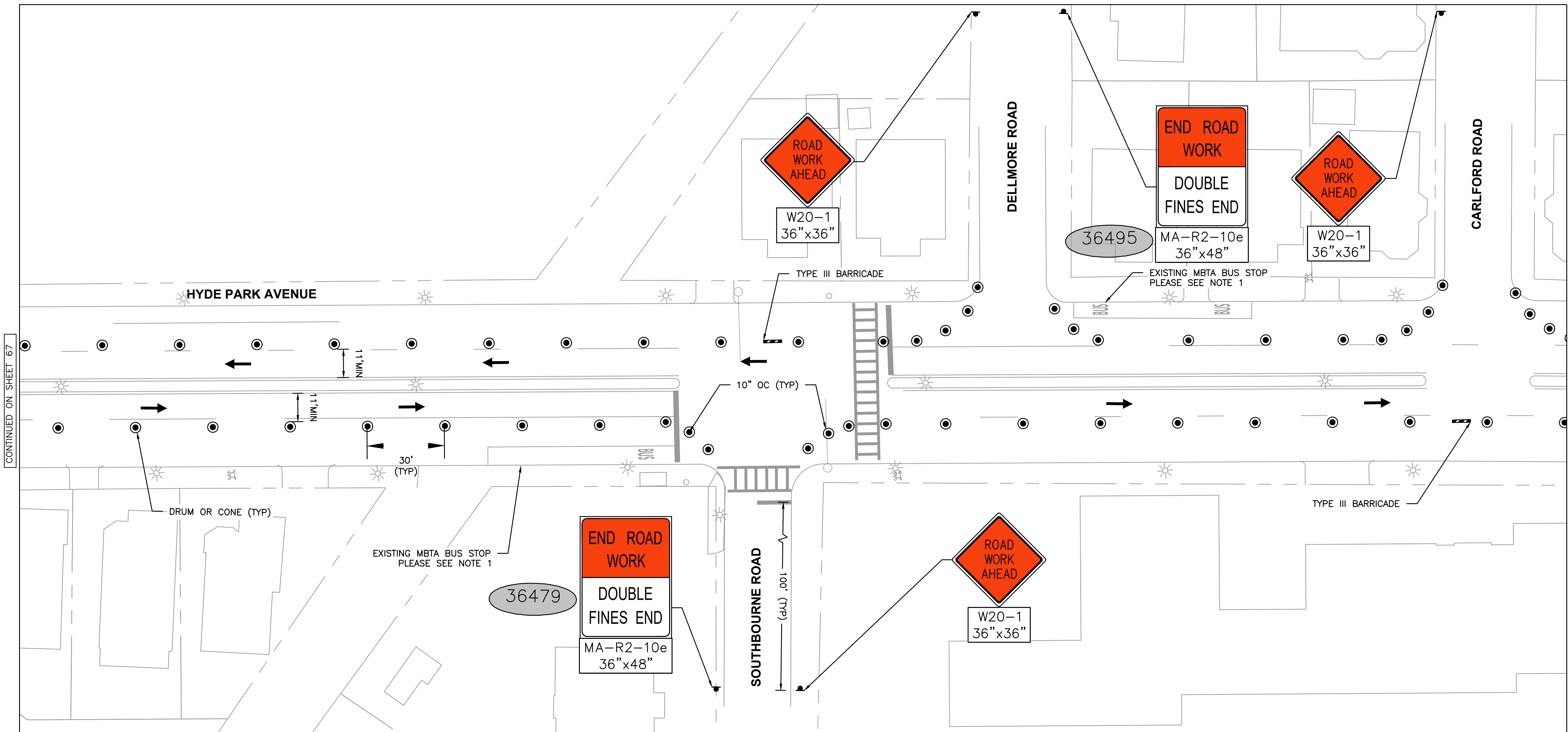
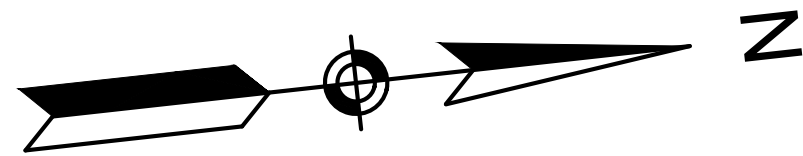
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AREA: -
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SHEET 67 OF 101

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BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS

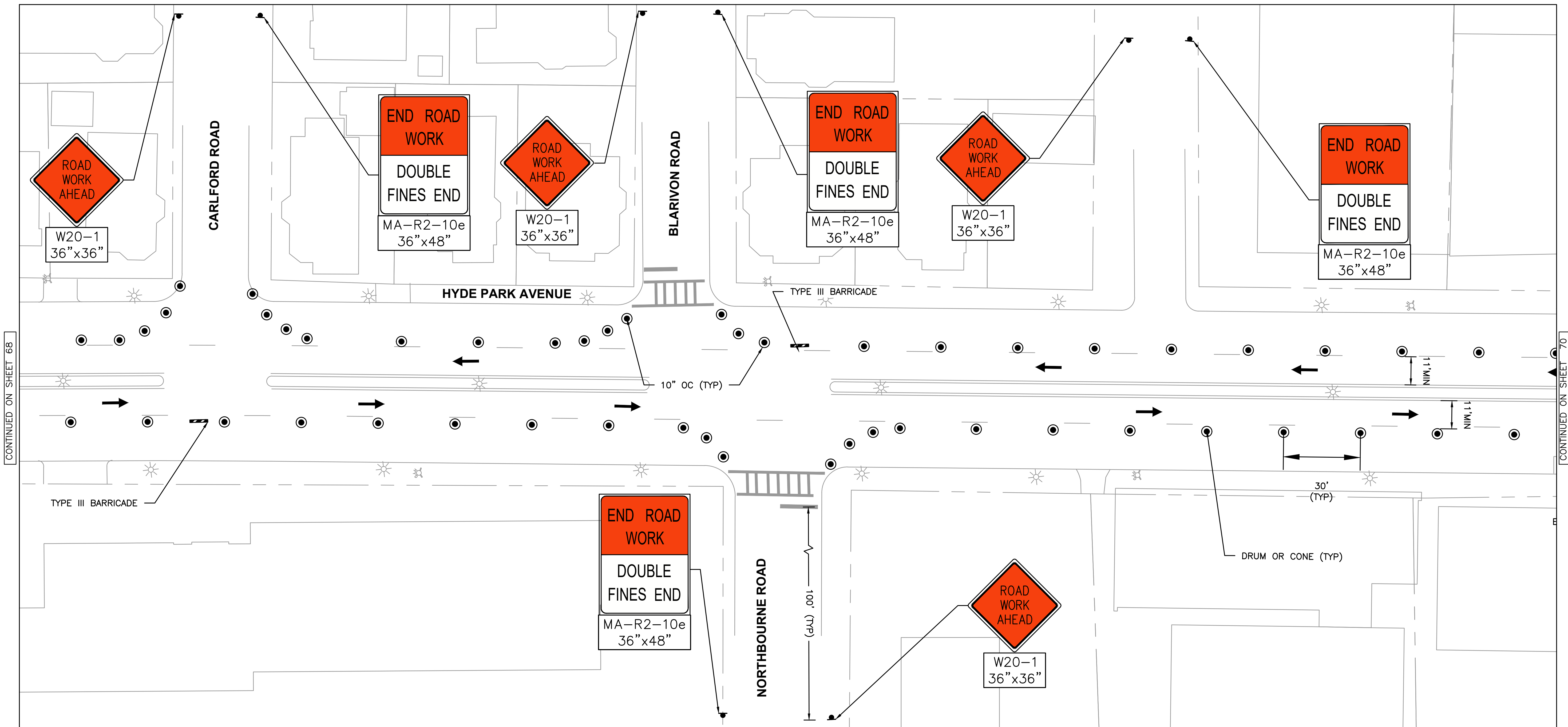
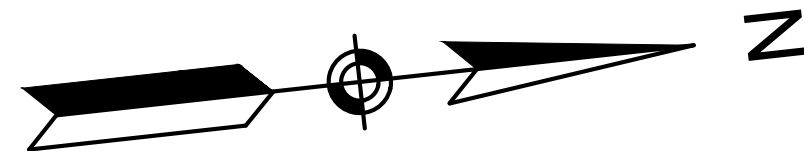
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MANAGEMENT PLAN**

AREA: -
DISTRICT: #

BOSTON AUGUST 2020
DRAWING NO. TMP-016
SHEET 68 OF 101

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CONTINUED ON SHEET 68

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NOTES

1. CONTRACTOR TO COORDINATE WITH BTB AND THE MASSACHUSETTS BAY TRANSPORTATION DEPARTMENT (MBTA) TO TEMPORARILY RELOCATE BUS STOPS WITHIN THE PROJECT AREA DURING CONSTRUCTION.
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MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS

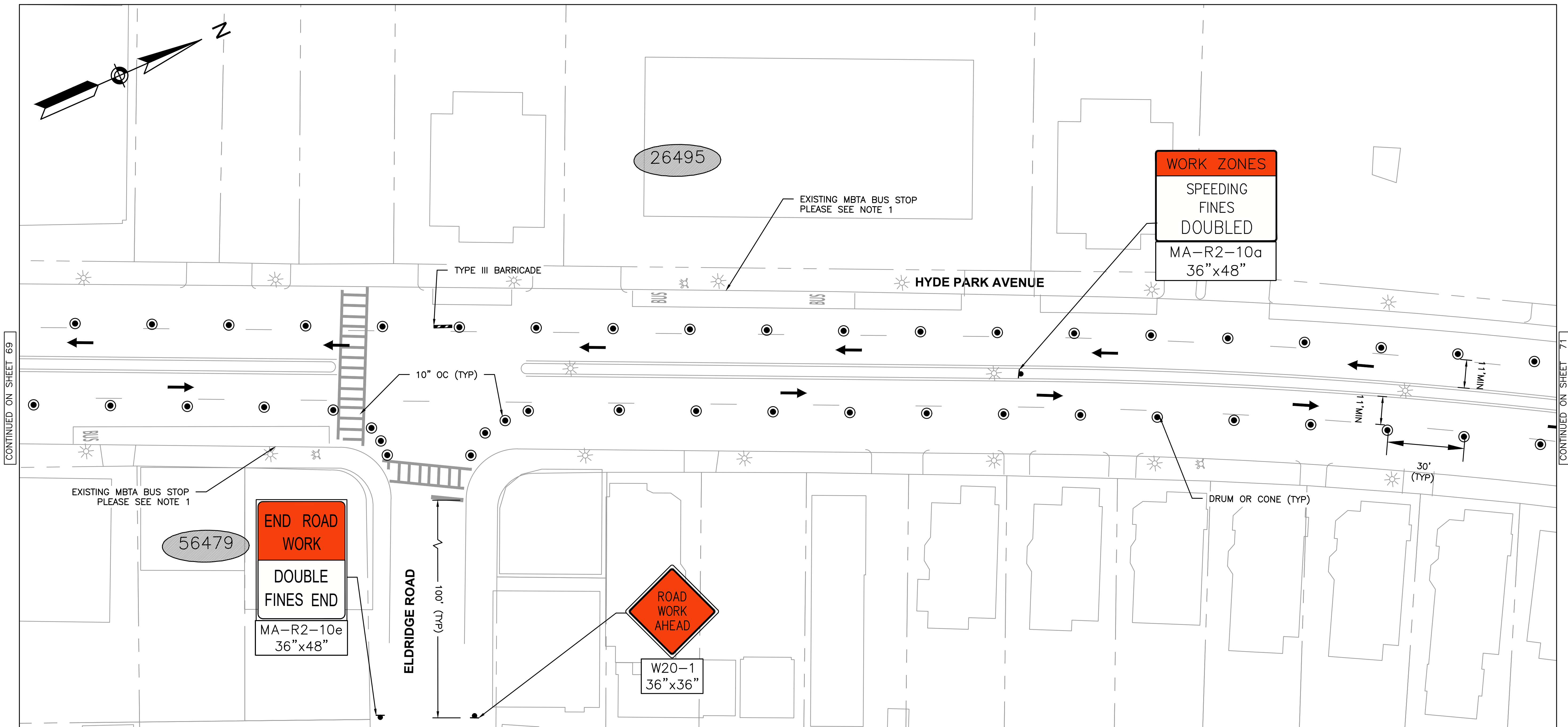
HYDE PARK AVENUE

**NB_SB INSIDE LANE TRAFFIC
MANAGEMENT PLAN**

AREA: -
DISTRICT: #

BOSTON AUGUST 2020
DRAWING NO. TMP-017
SHEET 69 OF 101

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CONTINUED ON SHEET 69

CONTINUED ON SHEET 71

NOTES

1. CONTRACTOR TO COORDINATE WITH BTD AND THE MASSACHUSETTS BAY TRANSPORTATION DEPARTMENT (MBTA) TO TEMPORARILY RELOCATE BUS STOPS WITHIN THE PROJECT AREA DURING CONSTRUCTION.
2. EXISTING ACCESS TO DRIVEWAYS AND PUBLIC/RESIDENTIAL ENTRANCES TO BE MAINTAINED AT ALL TIMES THROUGHOUT CONSTRUCTION.

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CITY OF BOSTON TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION
MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS

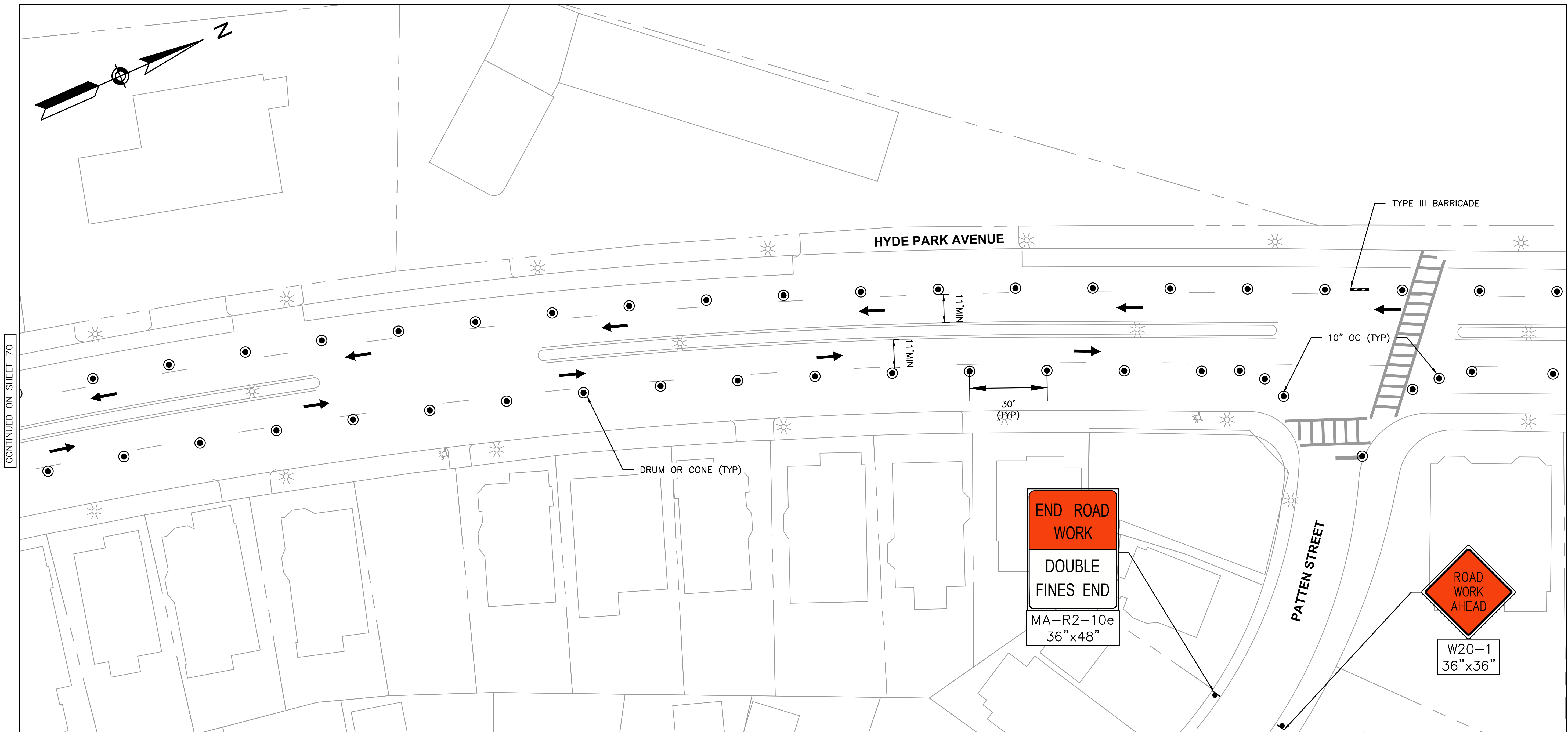
HYDE PARK AVENUE

NB_SB INSIDE LANE TRAFFIC MANAGEMENT PLAN

AREA: -
DISTRICT: #

BOSTON AUGUST 2020
DRAWING NO. TMP-018
SHEET 70 OF 101

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NOTES

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2. EXISTING ACCESS TO DRIVEWAYS AND PUBLIC/RESIDENTIAL ENTRANCES TO BE MAINTAINED AT ALL TIMES THROUGHOUT CONSTRUCTION.

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MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS

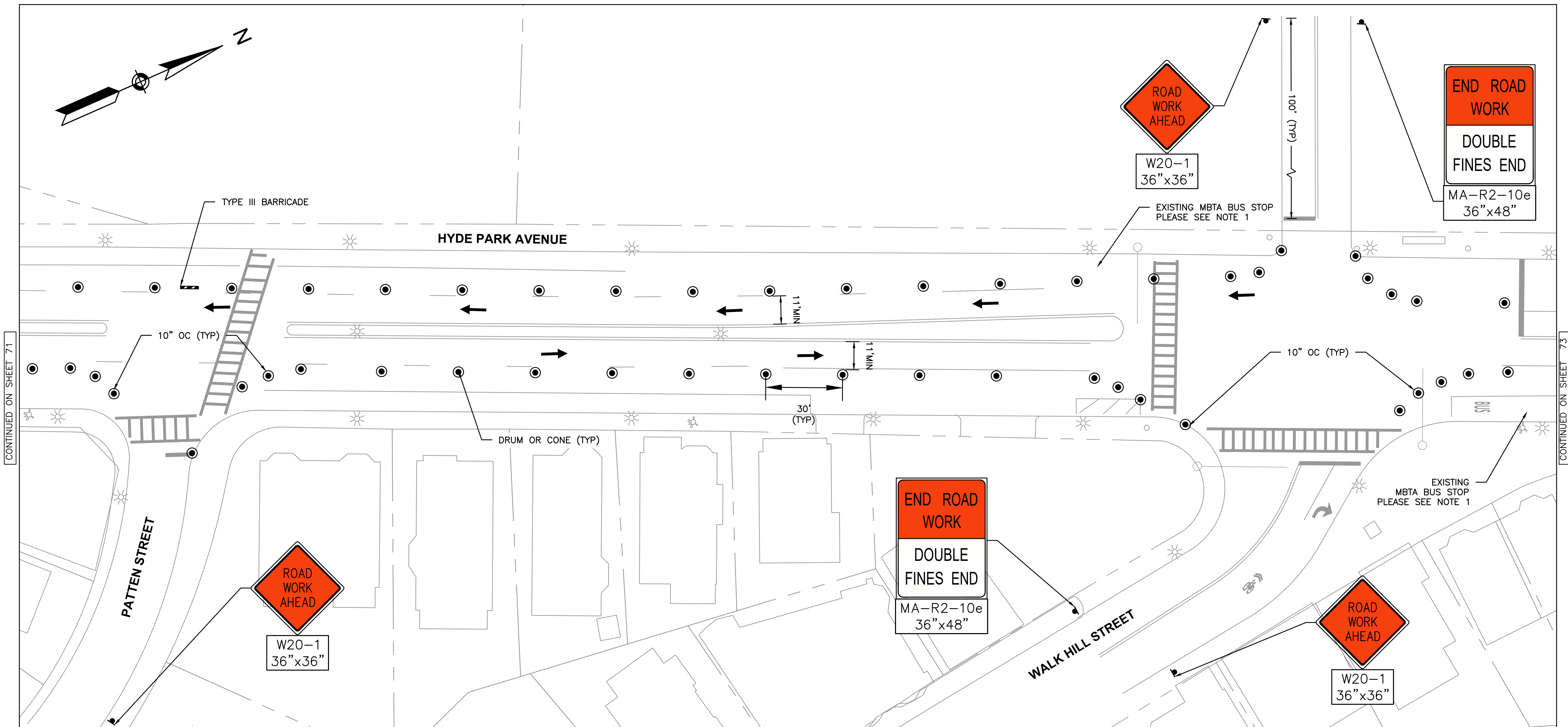
HYDE PARK AVENUE

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MANAGEMENT PLAN**

AREA: -
DISTRICT: #

BOSTON AUGUST 2020
DRAWING NO. TMP-019
SHEET 71 OF 101

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NOTES

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BTD
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TRANSPORTATION
DEPARTMENT

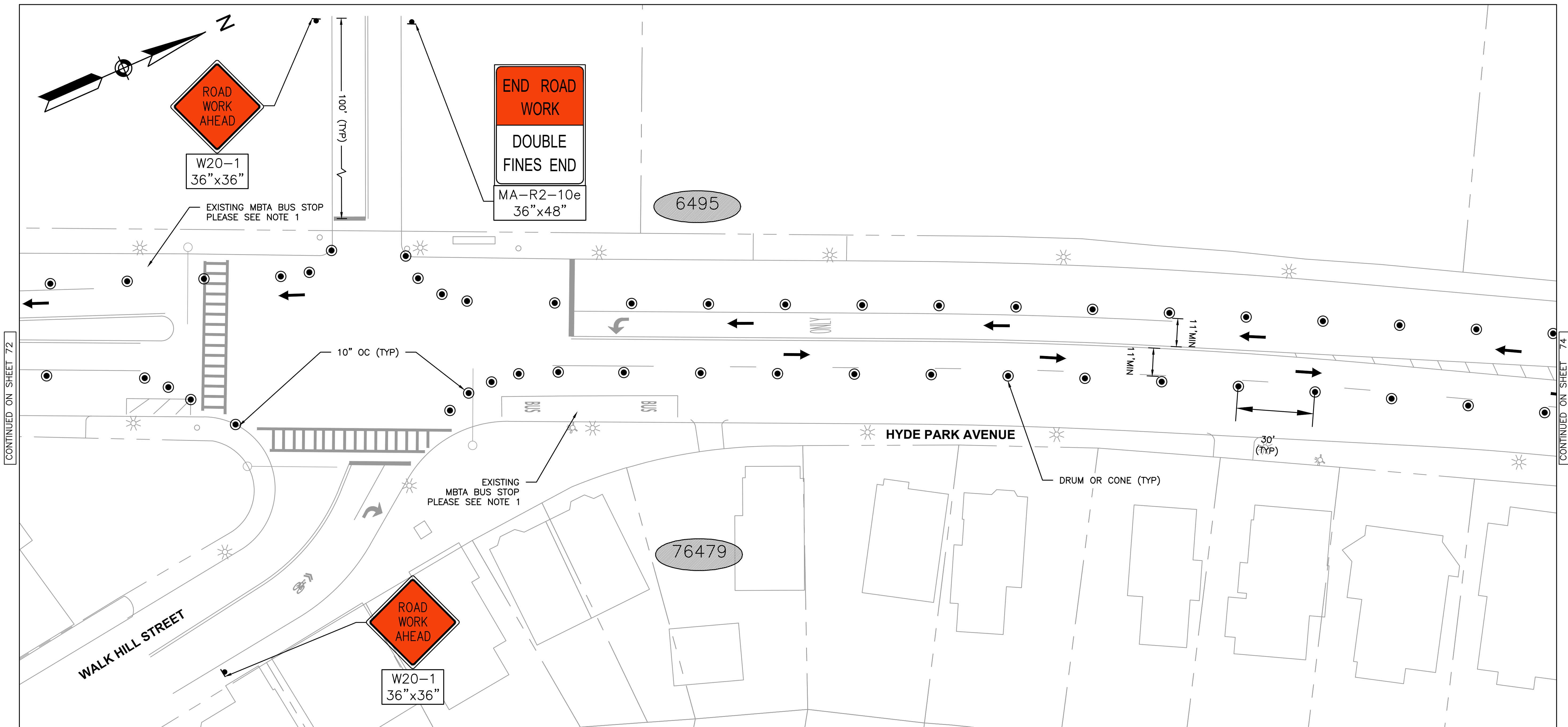
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ENGINEERING DIVISION
MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS
HYDE PARK AVENUE
NB_SB INSIDE LANE TRAFFIC
MANAGEMENT PLAN

AREA: -	BOSTON	AUGUST 2020
DISTRICT: #		DRAWING NO. TMP-020
		SHEET 72 OF 101

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NOTES

1. CONTRACTOR TO COORDINATE WITH BTD AND THE MASSACHUSETTS BAY TRANSPORTATION DEPARTMENT (MBTA) TO TEMPORARILY RELOCATE BUS STOPS WITHIN THE PROJECT AREA DURING CONSTRUCTION.
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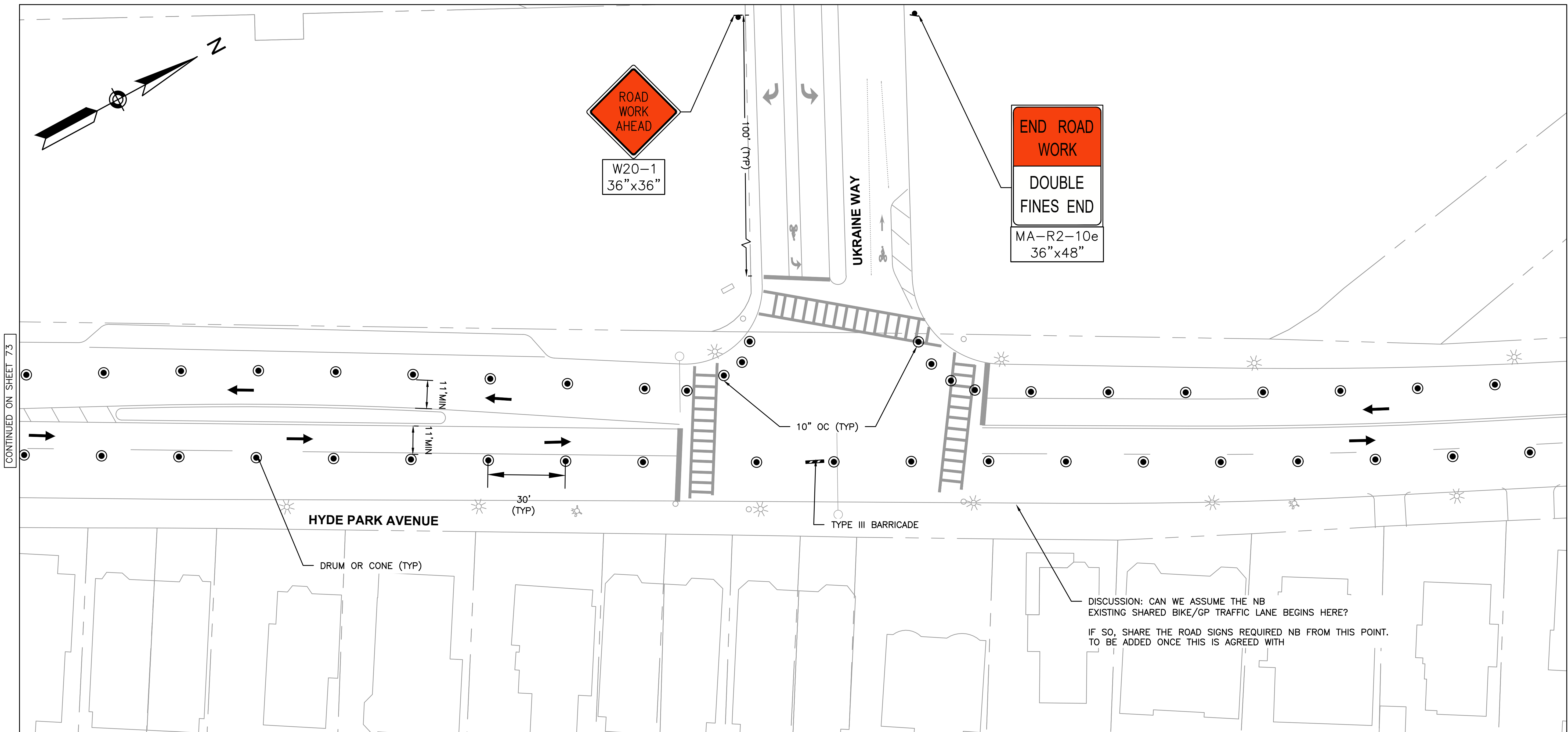
CITY OF BOSTON TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION
MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS

HYDE PARK AVENUE

**NB_SB INSIDE LANE TRAFFIC
MANAGEMENT PLAN**

AREA: -
DISTRICT: #
BOSTON AUGUST 2020
DRAWING NO. TMP-021
SHEET 73 OF 101

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NOTES

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2. EXISTING ACCESS TO DRIVEWAYS AND PUBLIC/RESIDENTIAL ENTRANCES TO BE MAINTAINED AT ALL TIMES THROUGHOUT CONSTRUCTION.

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MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS

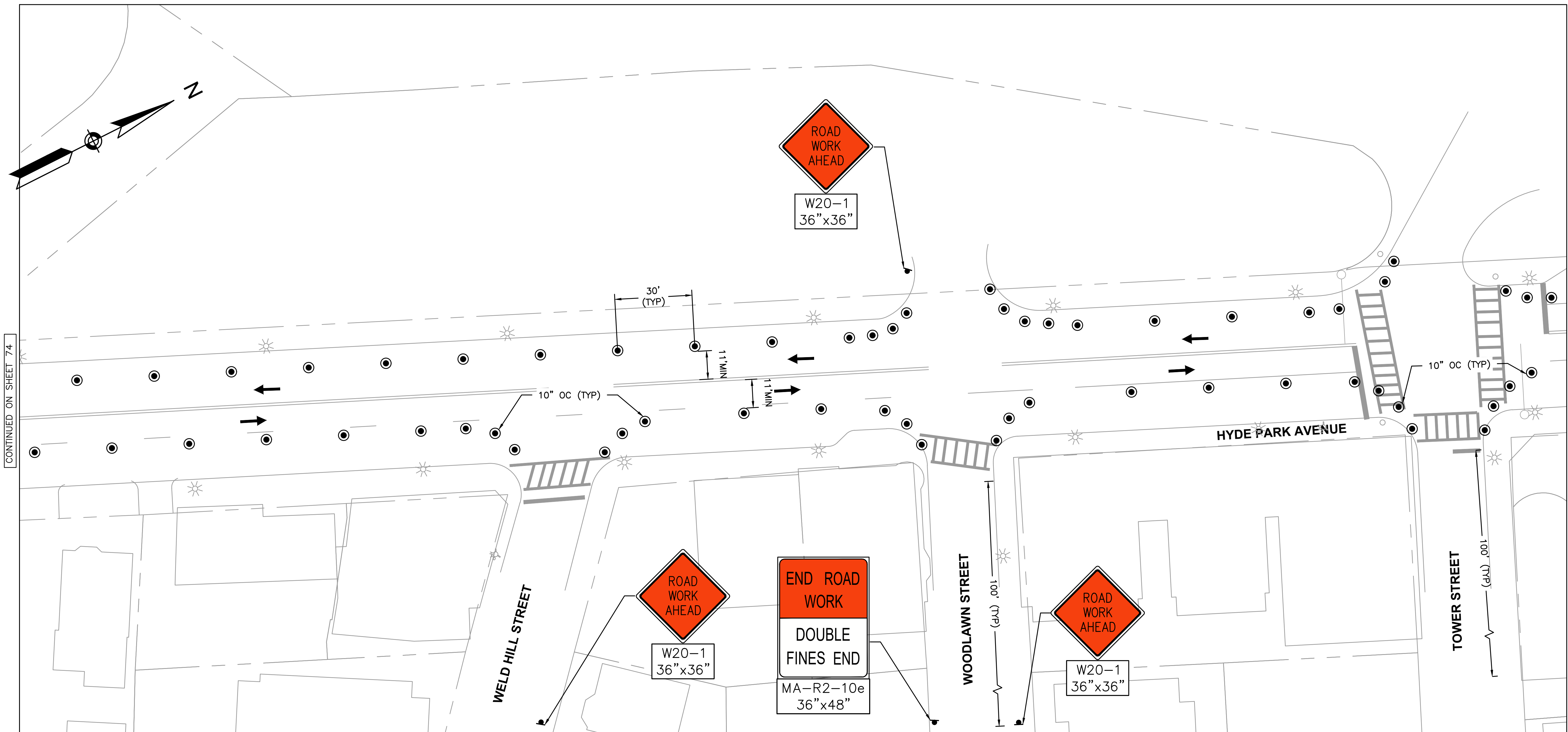
HYDE PARK AVENUE

**NB_SB INSIDE LANE TRAFFIC
MANAGEMENT PLAN**

AREA: -
DISTRICT: #

BOSTON AUGUST 2020
DRAWING NO. TMP-022
SHEET 74 OF 101

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CONTINUED ON SHEET 74

CONTINUED ON SHEET 76

NOTES

1. CONTRACTOR TO COORDINATE WITH BTD AND THE MASSACHUSETTS BAY TRANSPORTATION DEPARTMENT (MBTA) TO TEMPORARILY RELOCATE BUS STOPS WITHIN THE PROJECT AREA DURING CONSTRUCTION.
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MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS

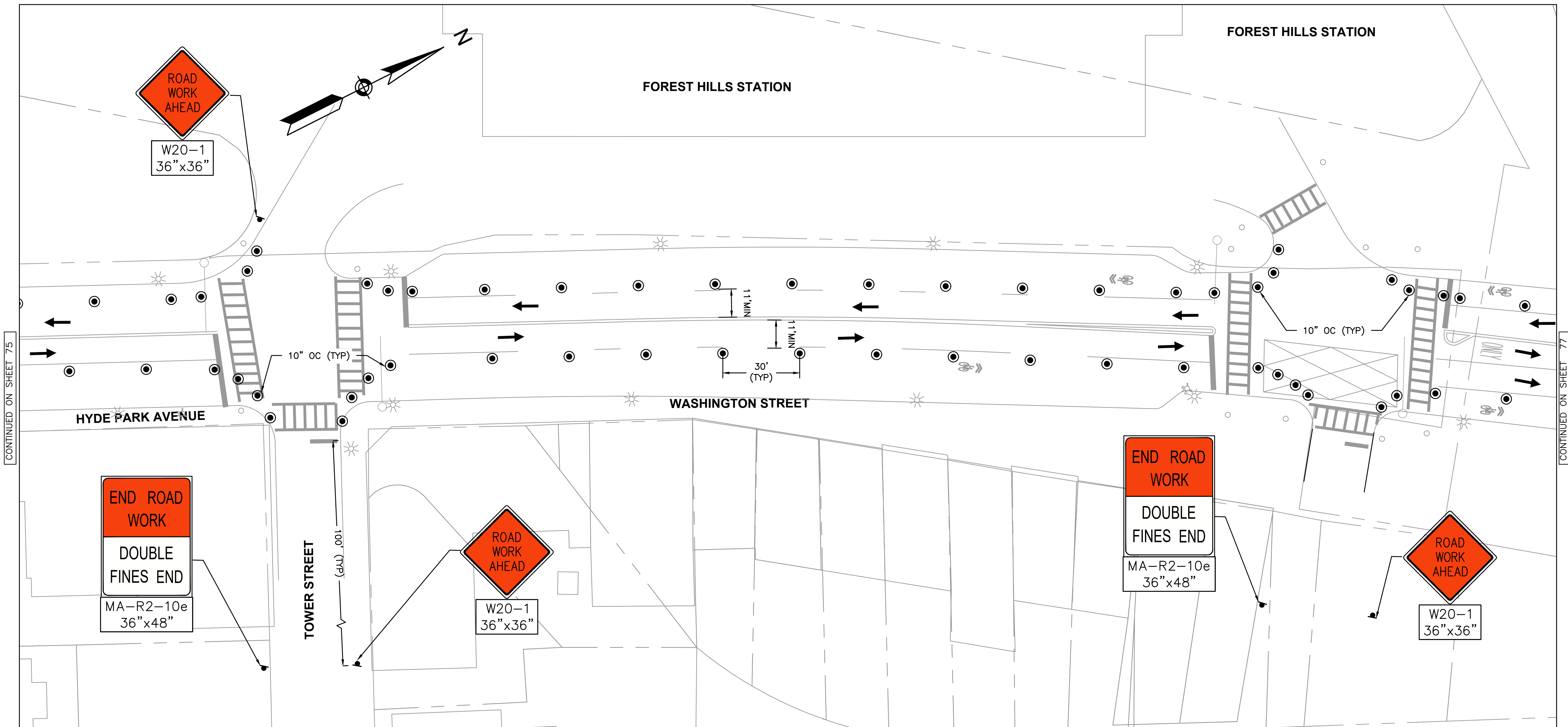
HYDE PARK AVENUE

**NB_SB INSIDE LANE TRAFFIC
MANAGEMENT PLAN**

AREA: -
DISTRICT: #

BOSTON AUGUST 2020
DRAWING NO. TMP-023
SHEET 75 OF 101

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NOTES

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ENGINEERING DIVISION
MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS
HYDE PARK AVENUE
NB_SB INSIDE LANE TRAFFIC
MANAGEMENT PLAN

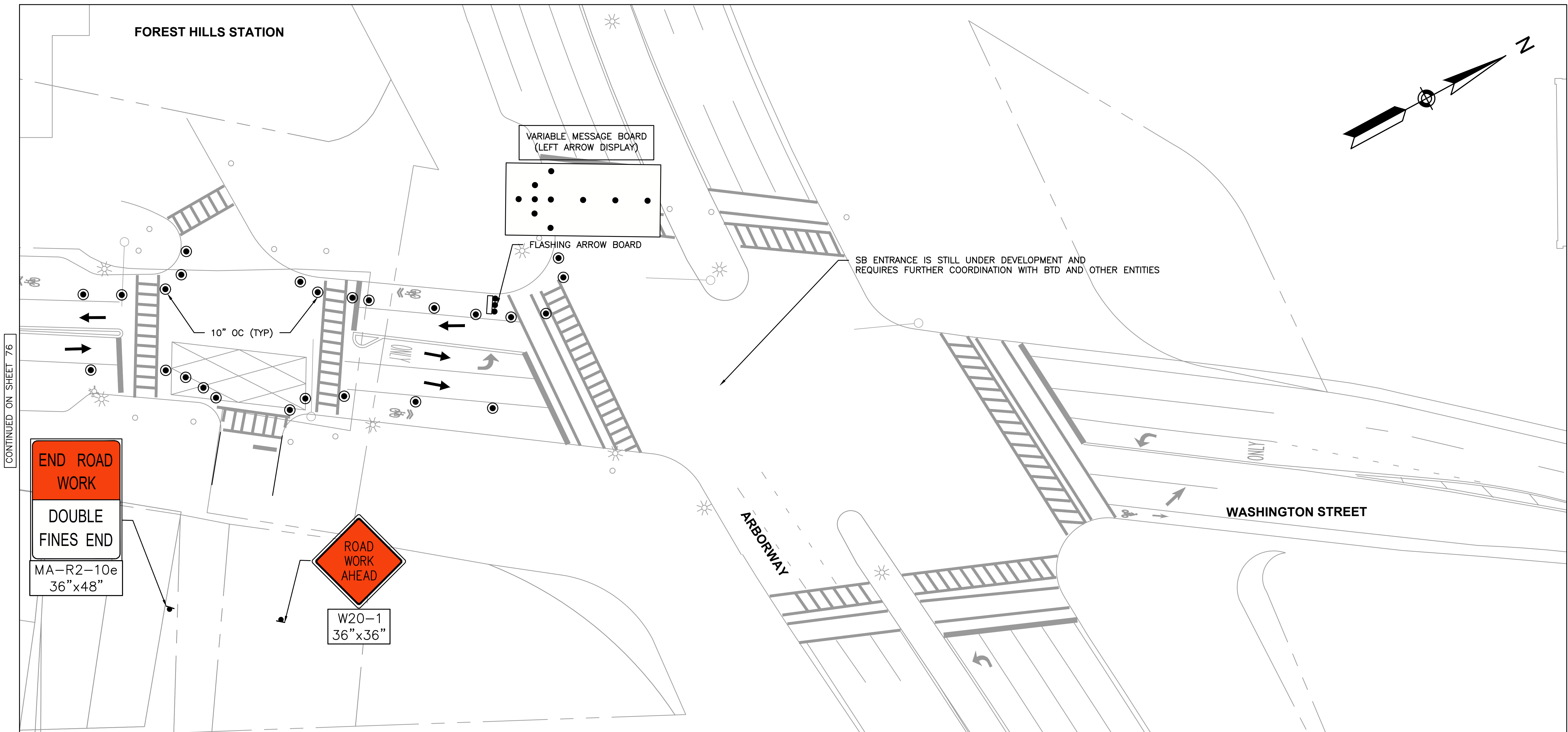
AREA: -	BOSTON	AUGUST 2020
DISTRICT: #		DRAWING NO. TMP-024
		SHEET 76 OF 101

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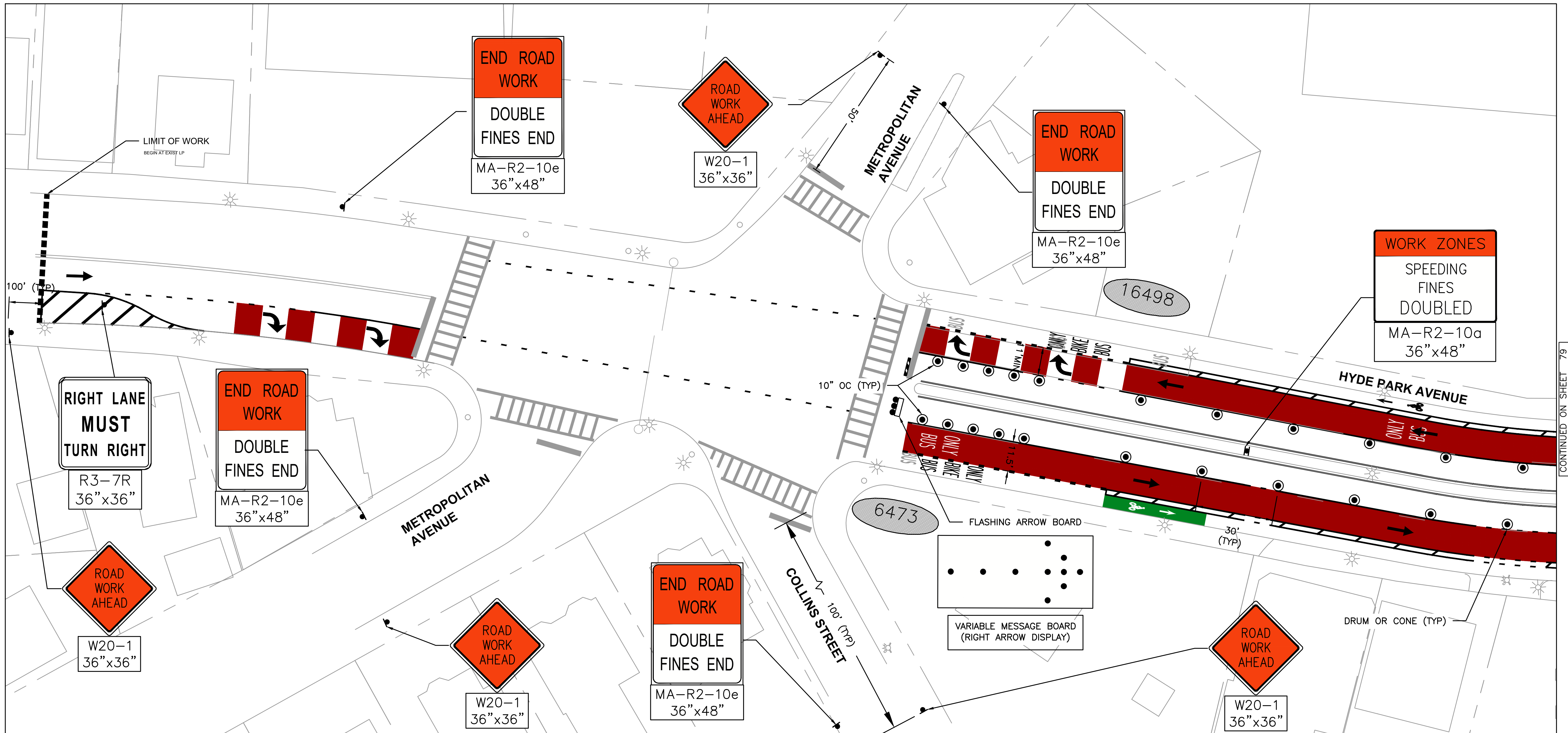
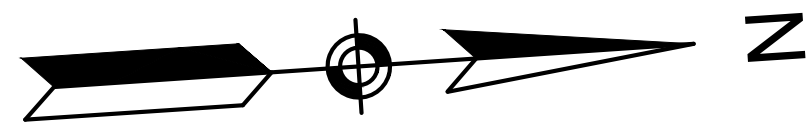
CITY OF BOSTON TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION
MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS
HYDE PARK AVENUE
**NB_SB INSIDE LANE TRAFFIC
MANAGEMENT PLAN**

AREA: -	BOSTON	AUGUST 2020
DISTRICT: #		DRAWING NO. TMP-025
		SHEET 77 OF 101

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NOTES

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ENGINEERING DIVISION
MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS

HYDE PARK AVENUE
NB_SB OUTSIDE LANE TRAFFIC
MANAGEMENT PLAN

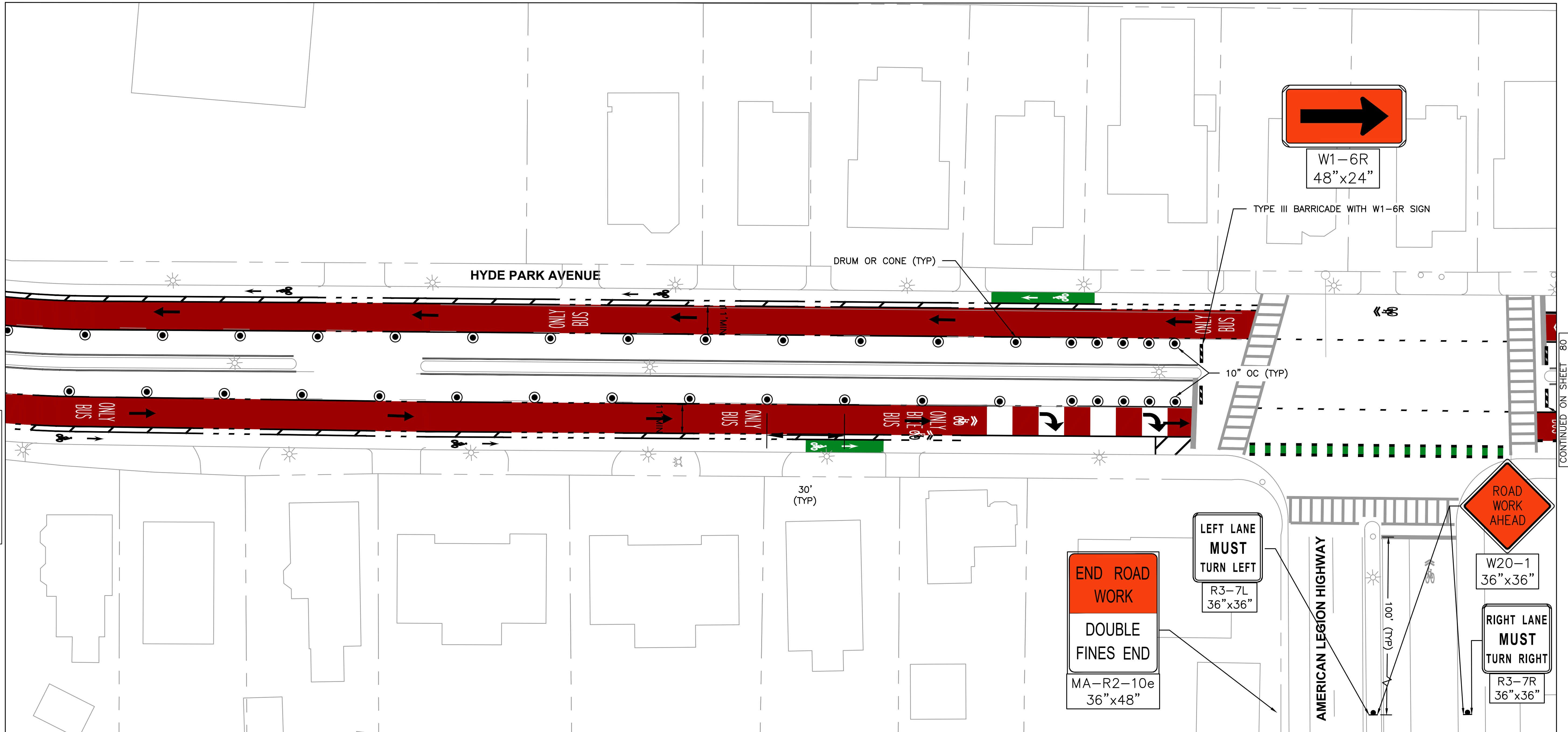
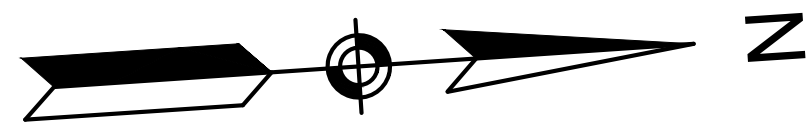
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DISTRICT: #
BOSTON
AUGUST 2020
DRAWING NO. TMP-026
SHEET 78 OF 101

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CONTINUED ON SHEET 80

NOTES

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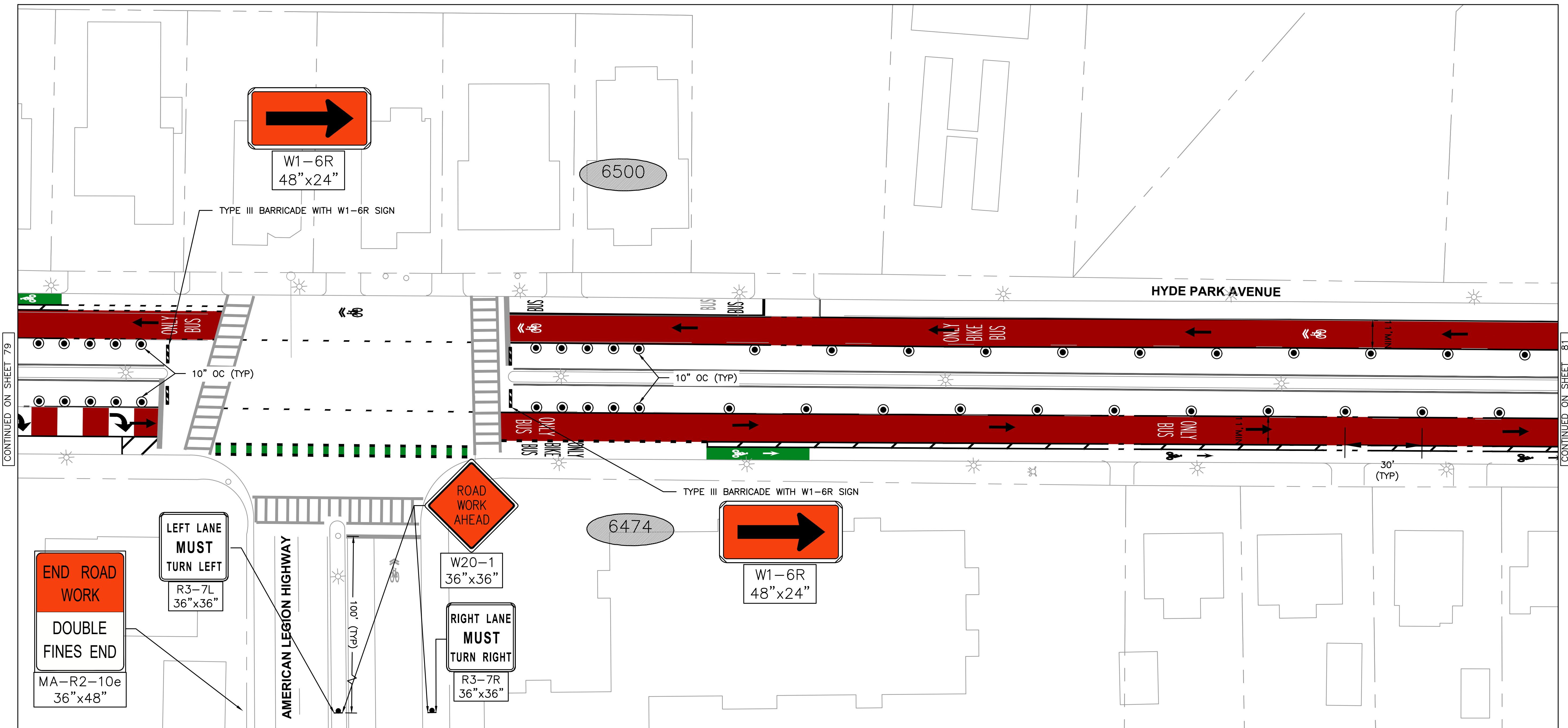
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ENGINEERING DIVISION
MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS

HYDE PARK AVENUE
NB_SB OUTSIDE LANE TRAFFIC
MANAGEMENT PLAN

AREA: -
DISTRICT: #
BOSTON
AUGUST 2020
DRAWING NO. TMP-027
SHEET 79 OF 101



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CITY OF BOSTON TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION
MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS

HYDE PARK AVENUE

NB_SB OUTSIDE LANE TRAFFIC MANAGEMENT PLAN

AREA: -
DISTRICT: #

BOSTON AUGUST 2020
DRAWING NO. TMP-028
SHEET 80 OF 101



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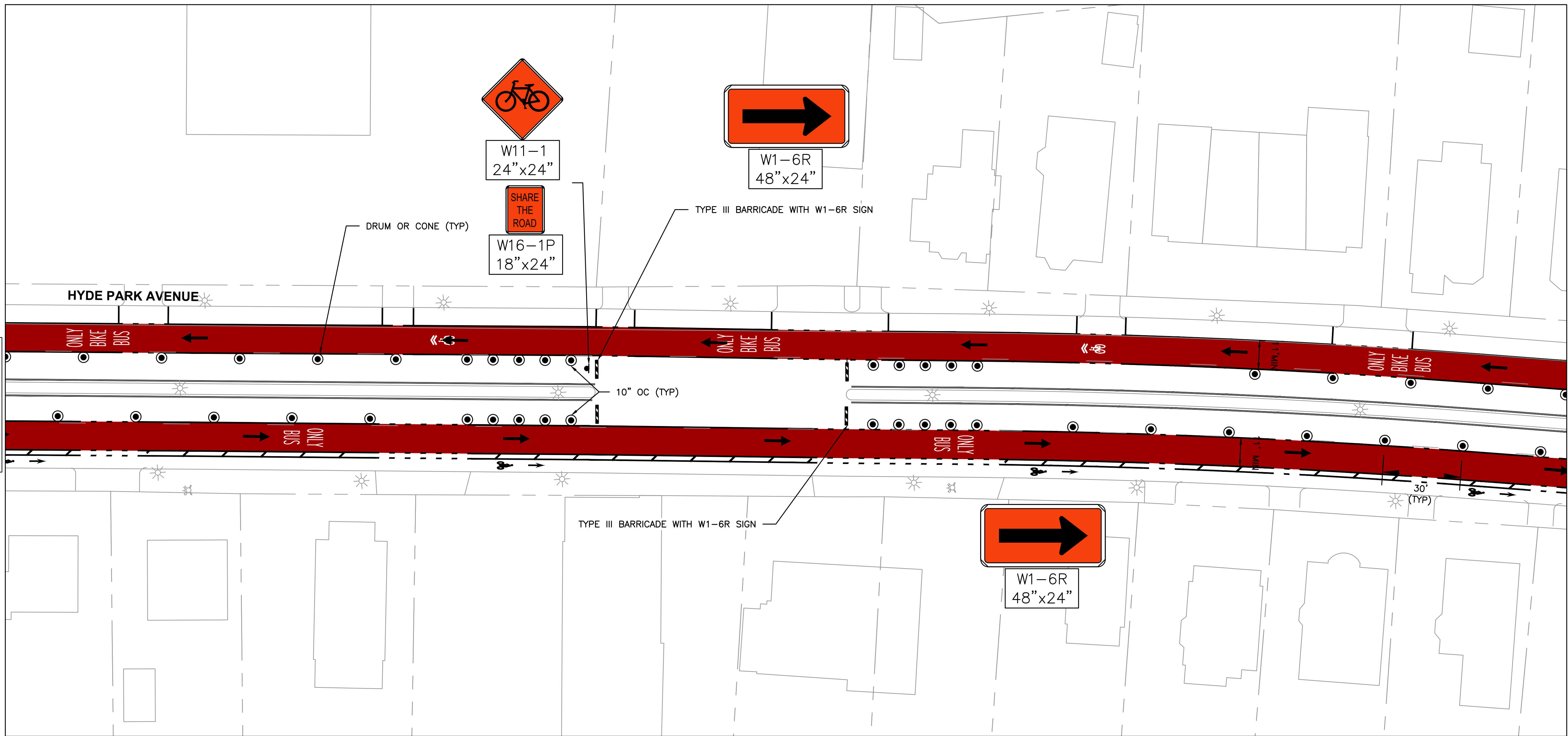
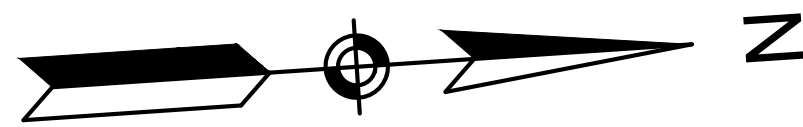
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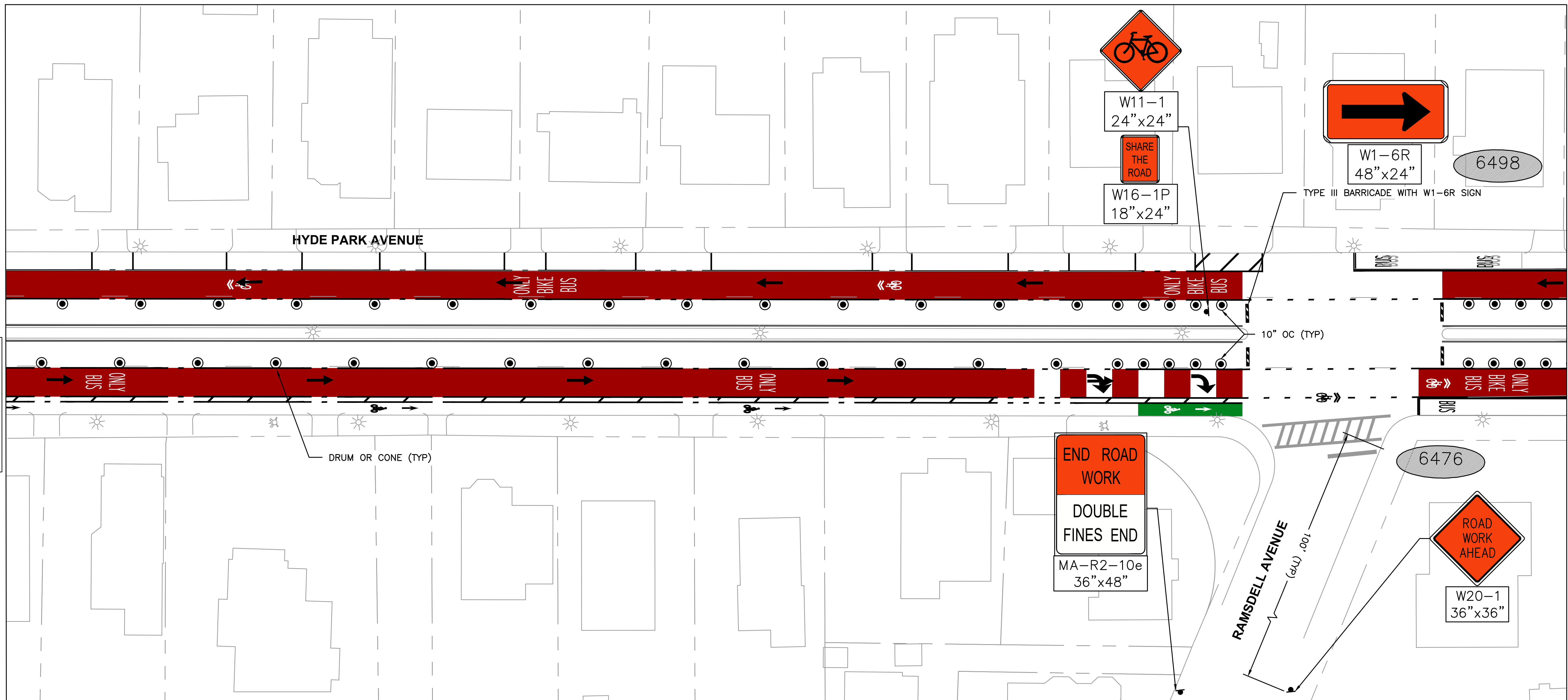
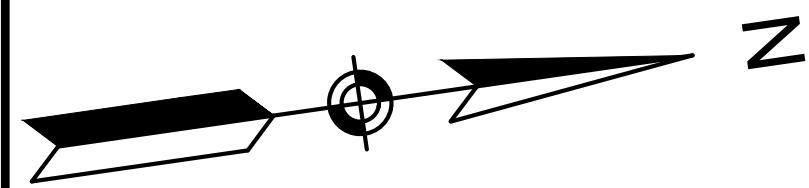
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ENGINEERING DIVISION
MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS

HYDE PARK AVENUE
NB_SB OUTSIDE LANE TRAFFIC
MANAGEMENT PLAN

AREA: -
DISTRICT: #
BOSTON
AUGUST 2020
DRAWING NO. TMP-029
SHEET 81 OF 101



NOTES

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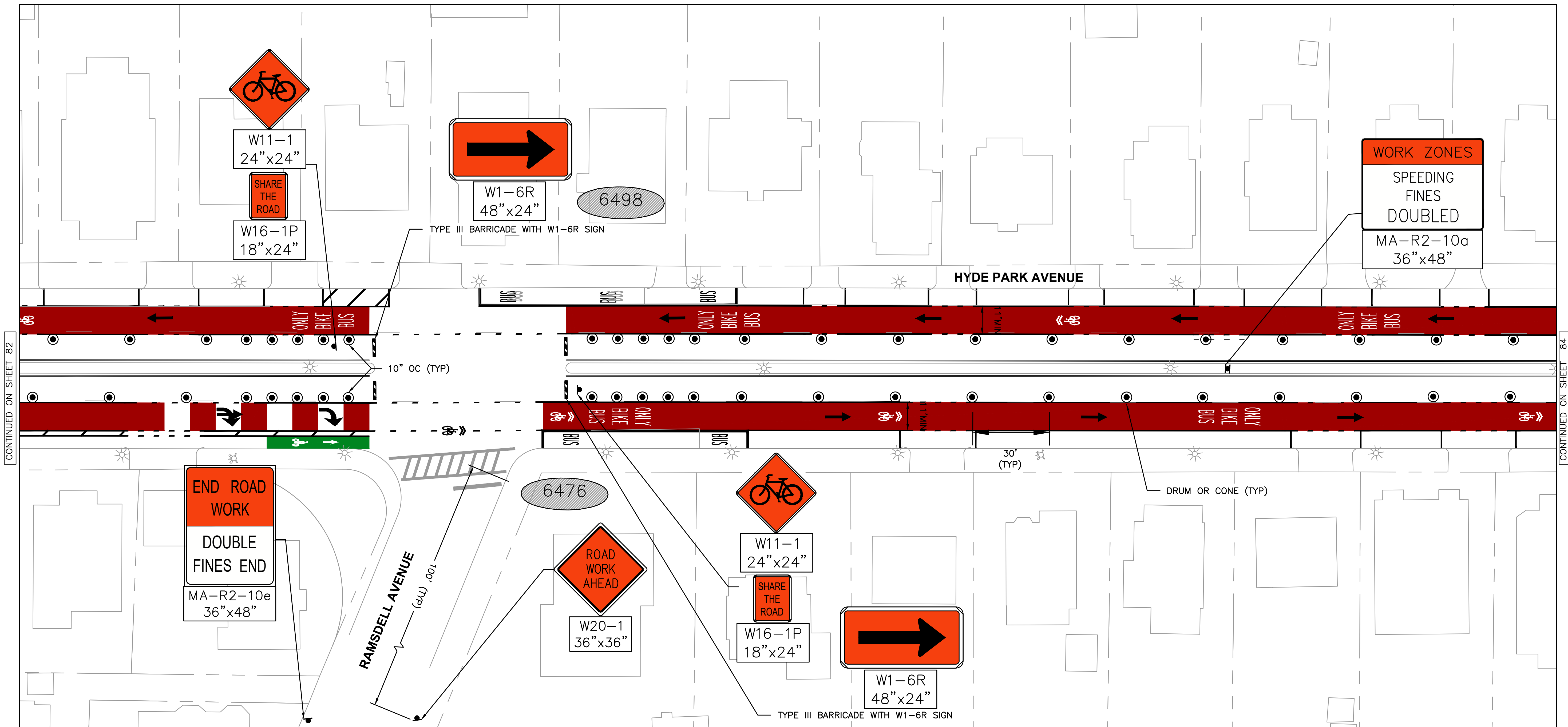
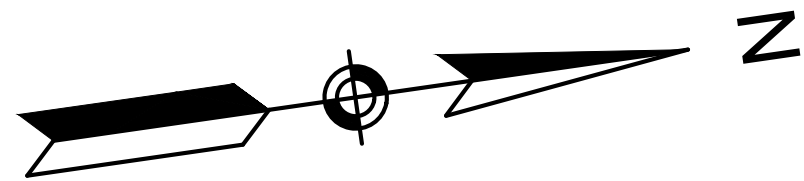
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ENGINEERING DIVISION
MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS

HYDE PARK AVENUE
NB_SB OUTSIDE LANE TRAFFIC
MANAGEMENT PLAN

AREA: -
DISTRICT: #
BOSTON AUGUST 2020
DRAWING NO. TMP-030
SHEET 82 OF 101

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NOTES

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MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS

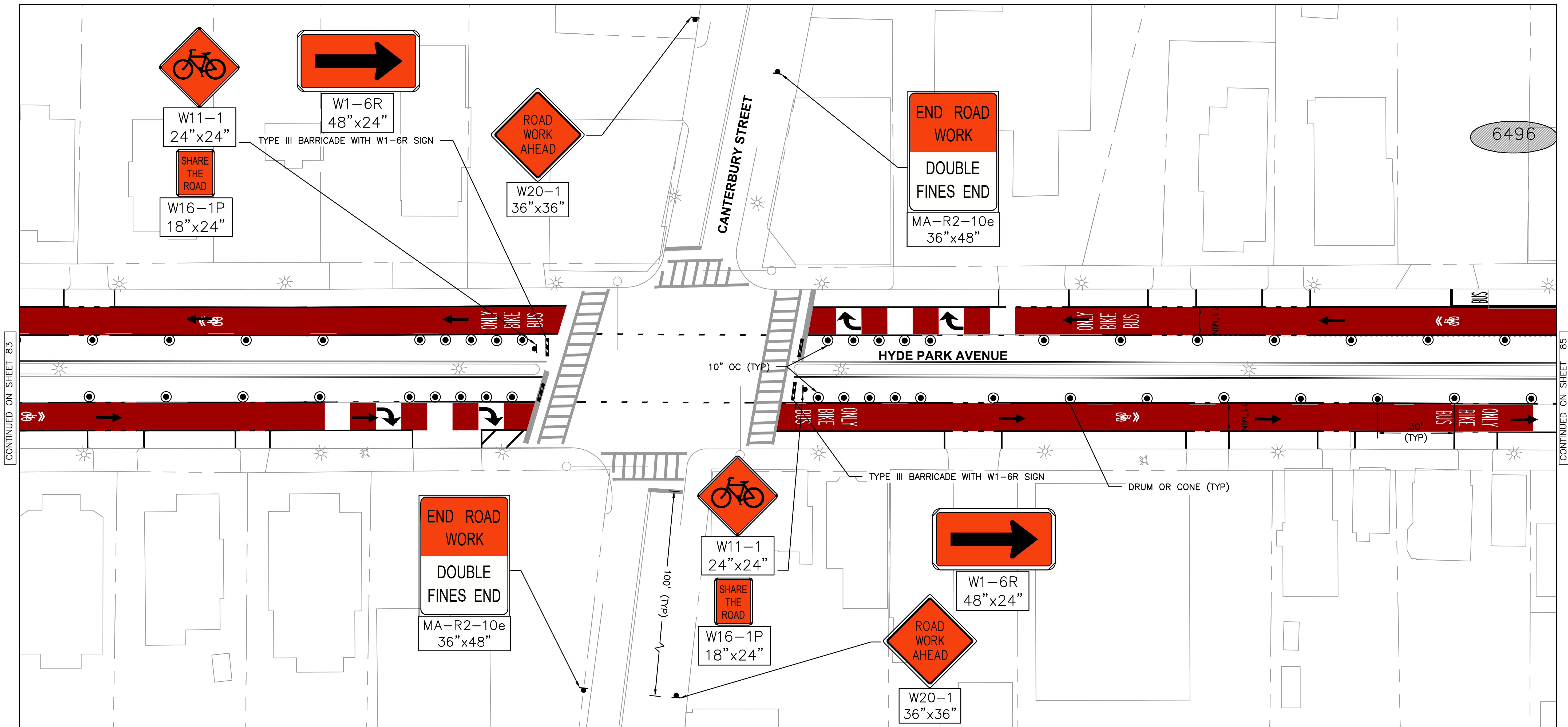
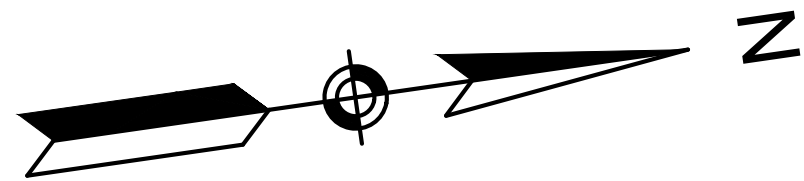
HYDE PARK AVENUE

**NB_SB OUTSIDE LANE TRAFFIC
MANAGEMENT PLAN**

AREA: -
DISTRICT: #

BOSTON AUGUST 2020
DRAWING NO. TMP-031
SHEET 83 OF 101

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NOTES

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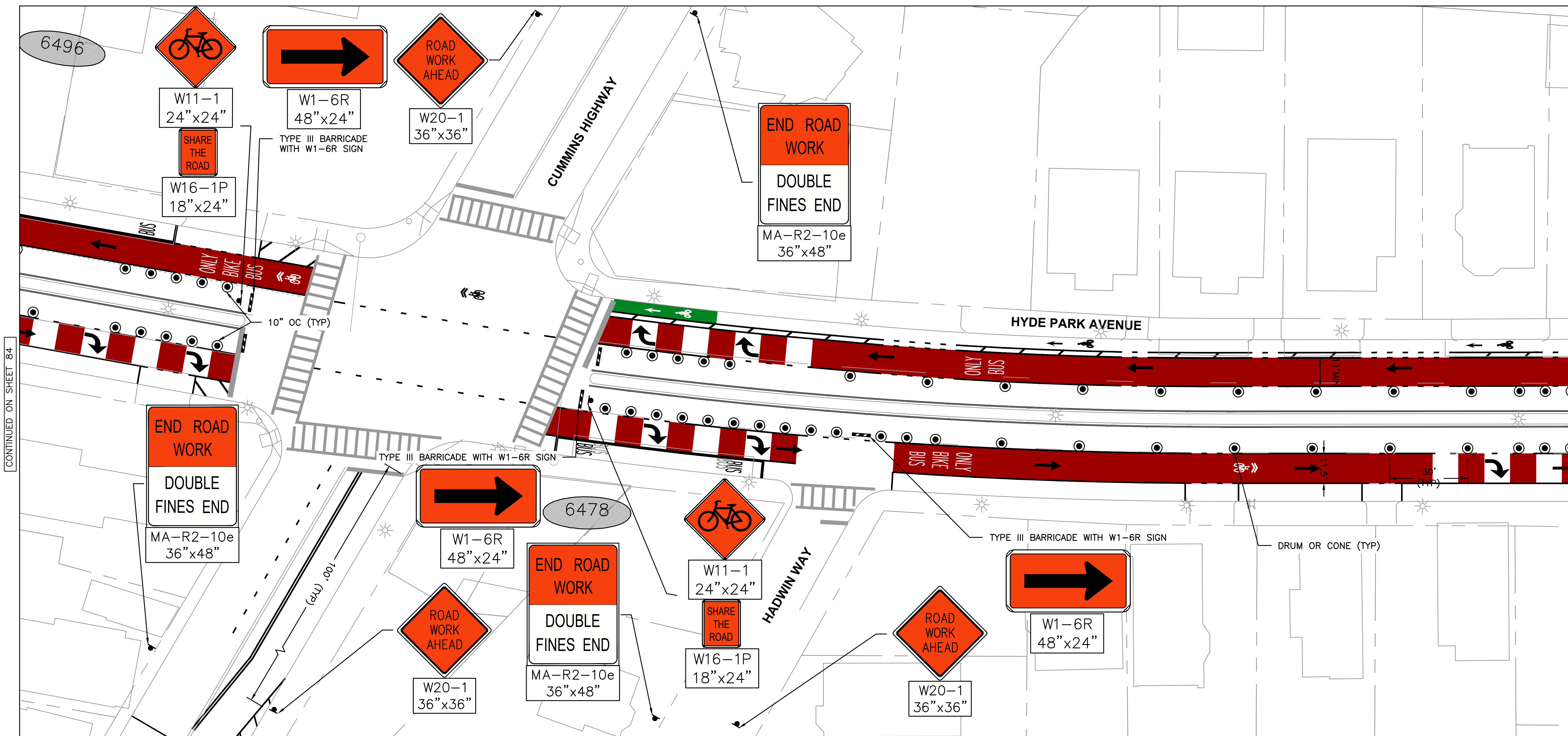
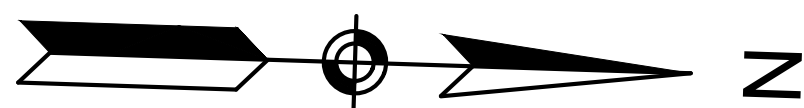
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ENGINEERING DIVISION
MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS

HYDE PARK AVENUE

**NB_SB OUTSIDE LANE TRAFFIC
MANAGEMENT PLAN**

AREA: -
DISTRICT: #
BOSTON
AUGUST 2020
DRAWING NO. TMP-032
SHEET 84 OF 101



CONTINUED ON SHEET 84

CONTINUED ON SHEET 86

NOTES

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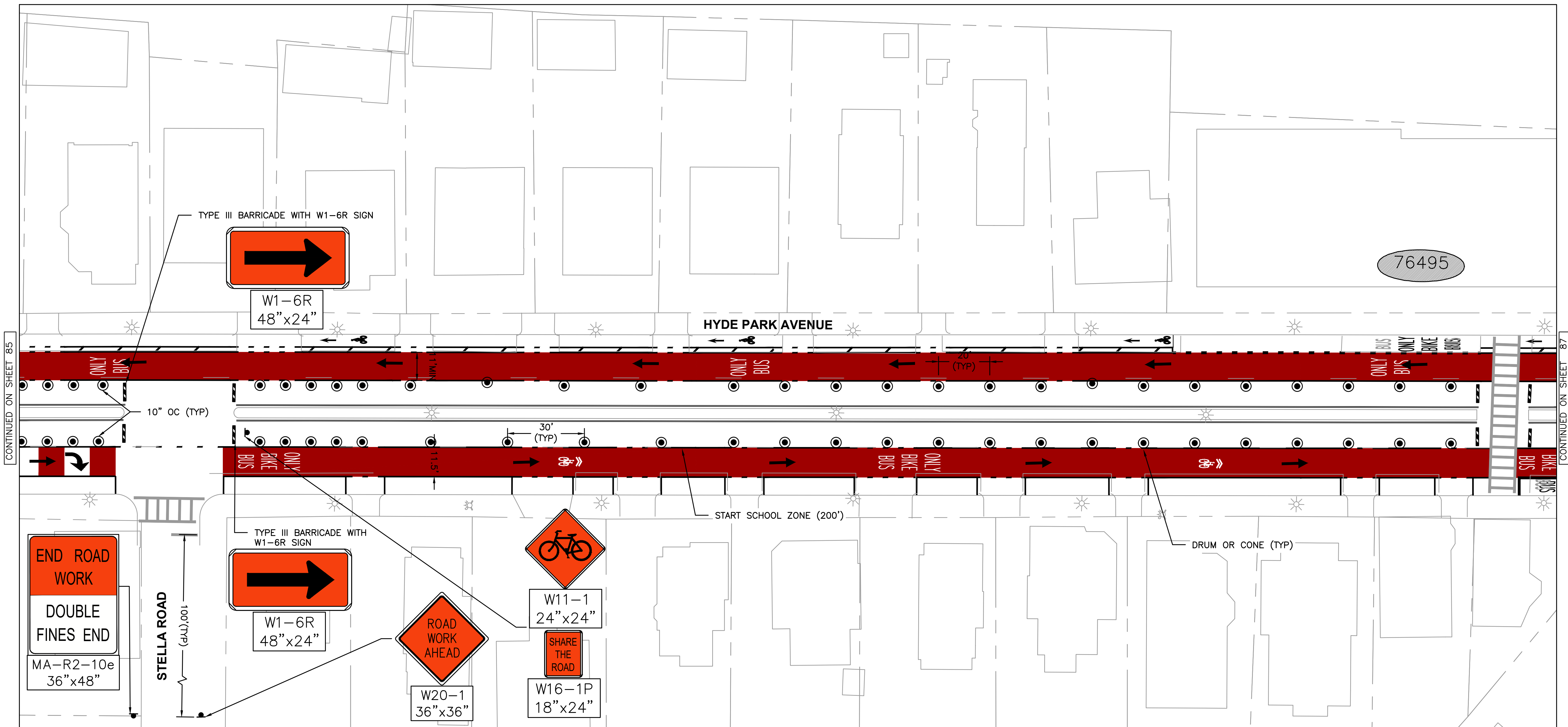
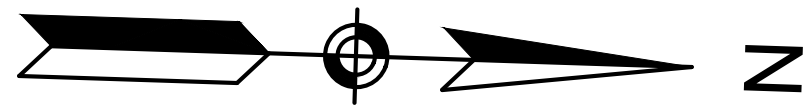
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ENGINEERING DIVISION
MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS

HYDE PARK AVENUE
NB_SB OUTSIDE LANE TRAFFIC
MANAGEMENT PLAN

AREA: -
DISTRICT: #
BOSTON
AUGUST 2020
DRAWING NO. TMP-033
SHEET 85 OF 101



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ENGINEERING DIVISION
MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS

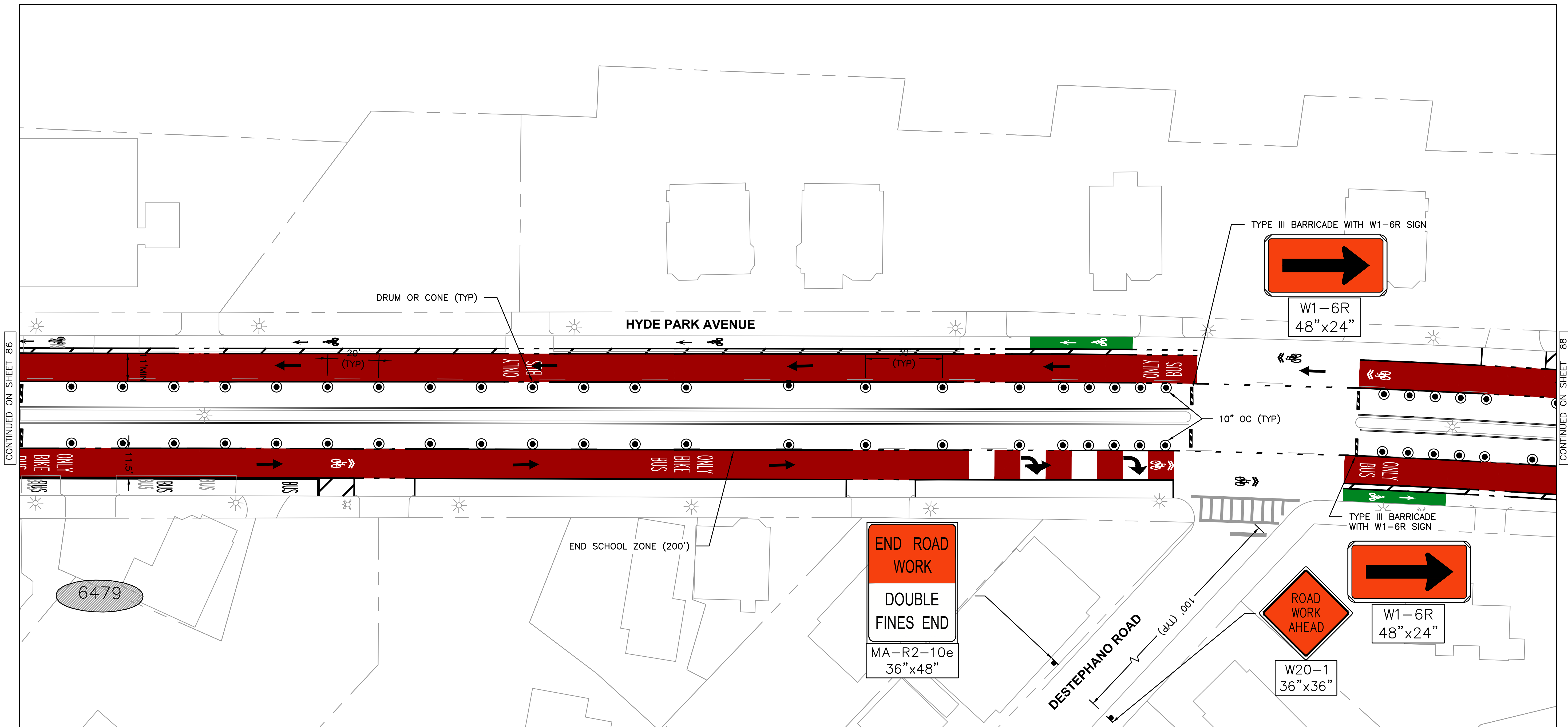
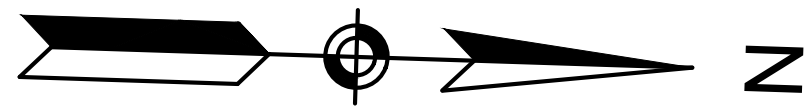
HYDE PARK AVENUE
NB_SB OUTSIDE LANE TRAFFIC
MANAGEMENT PLAN

AREA: -
DISTRICT: #
BOSTON AUGUST 2020
DRAWING NO. TMP-034
SHEET 86 OF 101

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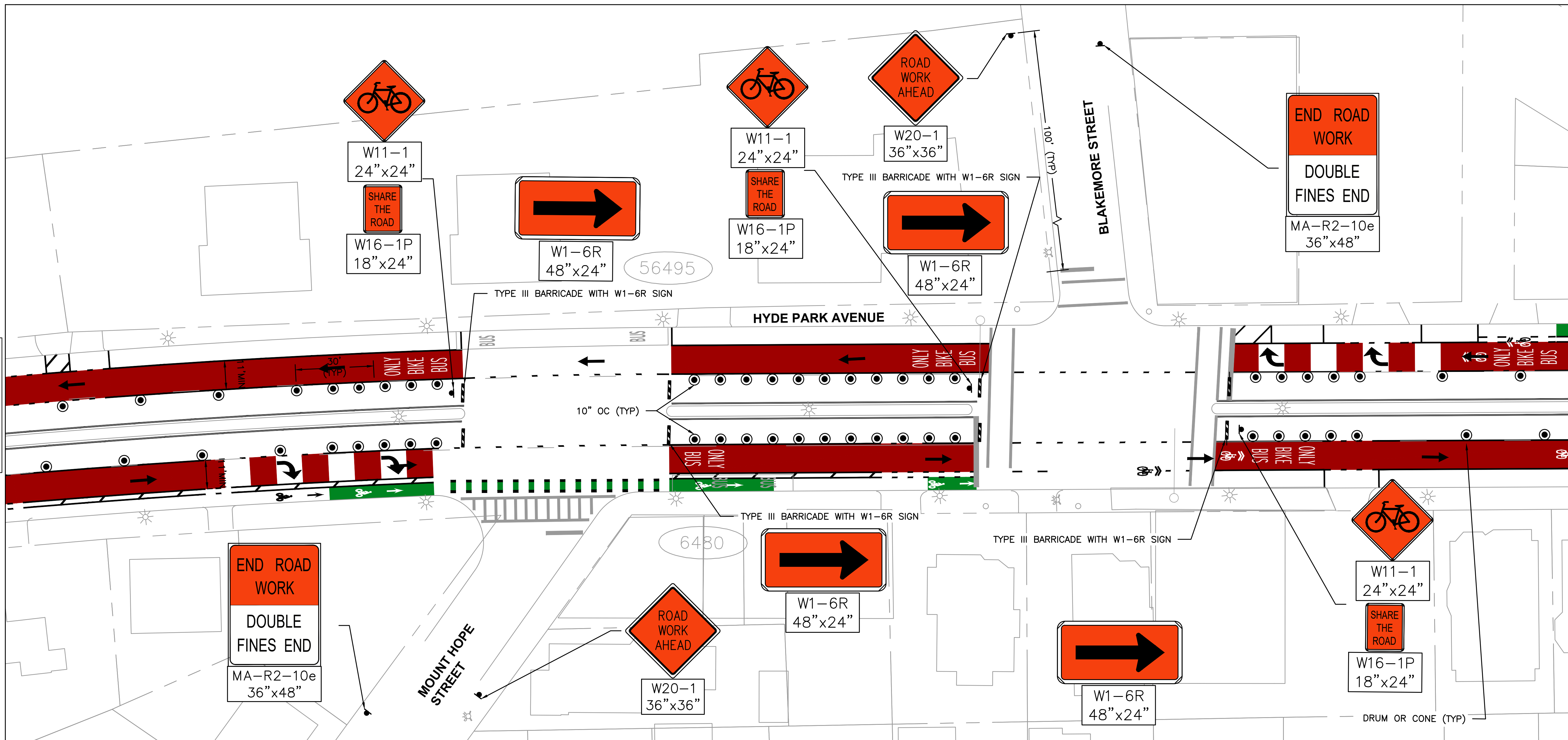
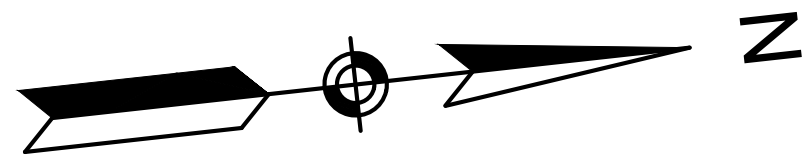
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CITY OF BOSTON TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION
MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS

HYDE PARK AVENUE
NB_SB OUTSIDE LANE TRAFFIC
MANAGEMENT PLAN

AREA: -
DISTRICT: #
BOSTON AUGUST 2020
DRAWING NO. TMP-035
SHEET 87 OF 101

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CONTINUED ON SHEET 87

CONTINUED ON SHEET 89

NOTES

- EXISTING ACCESS TO DRIVEWAYS AND PUBLIC/RESIDENTIAL ENTRANCES TO BE MAINTAINED AT ALL TIMES THROUGHOUT CONSTRUCTION.

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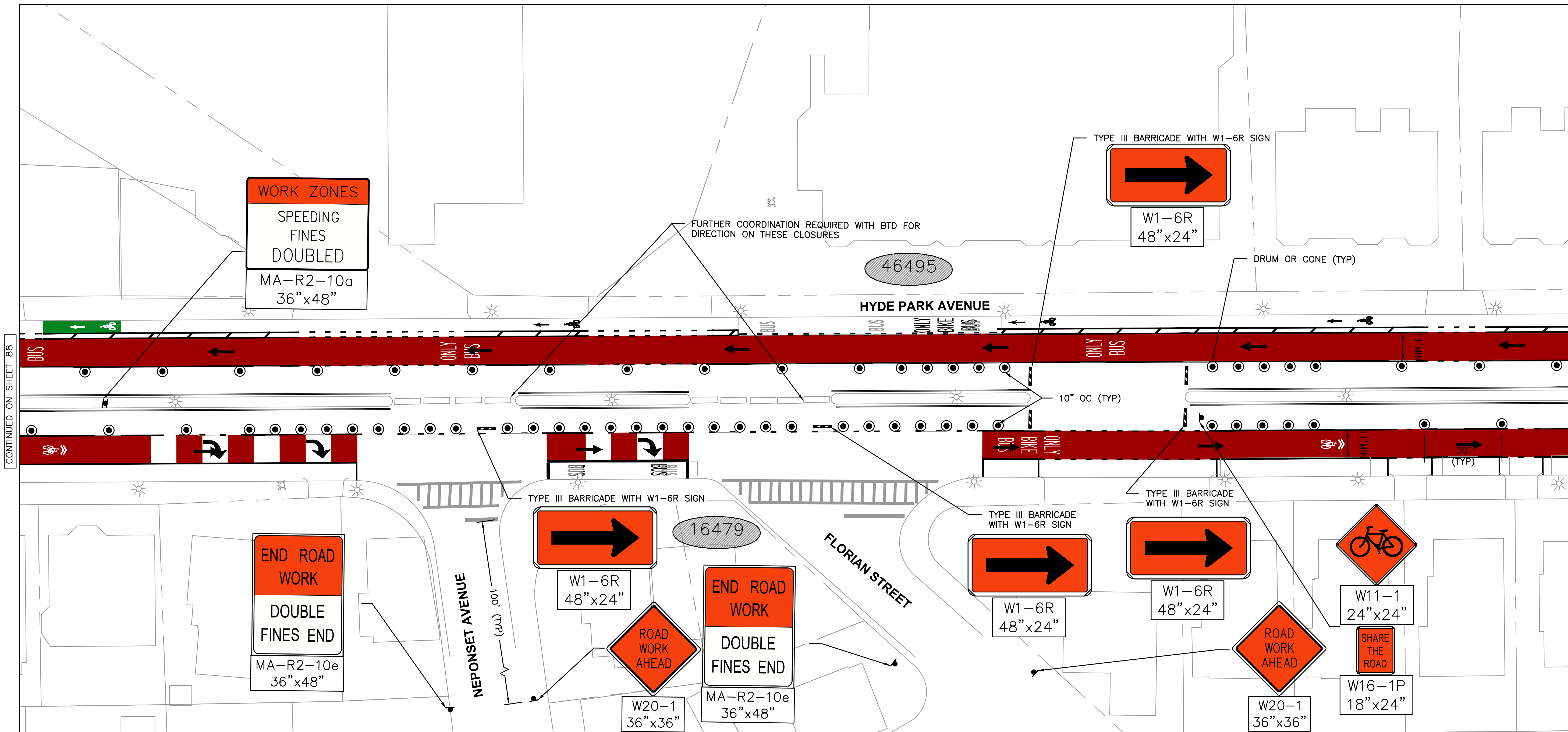
CITY OF BOSTON TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION
MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS

HYDE PARK AVENUE

**NB_SB OUTSIDE LANE TRAFFIC
MANAGEMENT PLAN**

AREA: -
DISTRICT: #

BOSTON AUGUST 2020
DRAWING NO. TMP-036
SHEET 88 OF 101



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ENGINEERING DIVISION
MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS

HYDE PARK AVENUE

NB_SB OUTSIDE LANE TRAFFIC MANAGEMENT PLAN

AREA: - BOSTON AUGUST 2020
 DISTRICT: # DRAWING NO. TMP-037
 SHEET 89 OF 101



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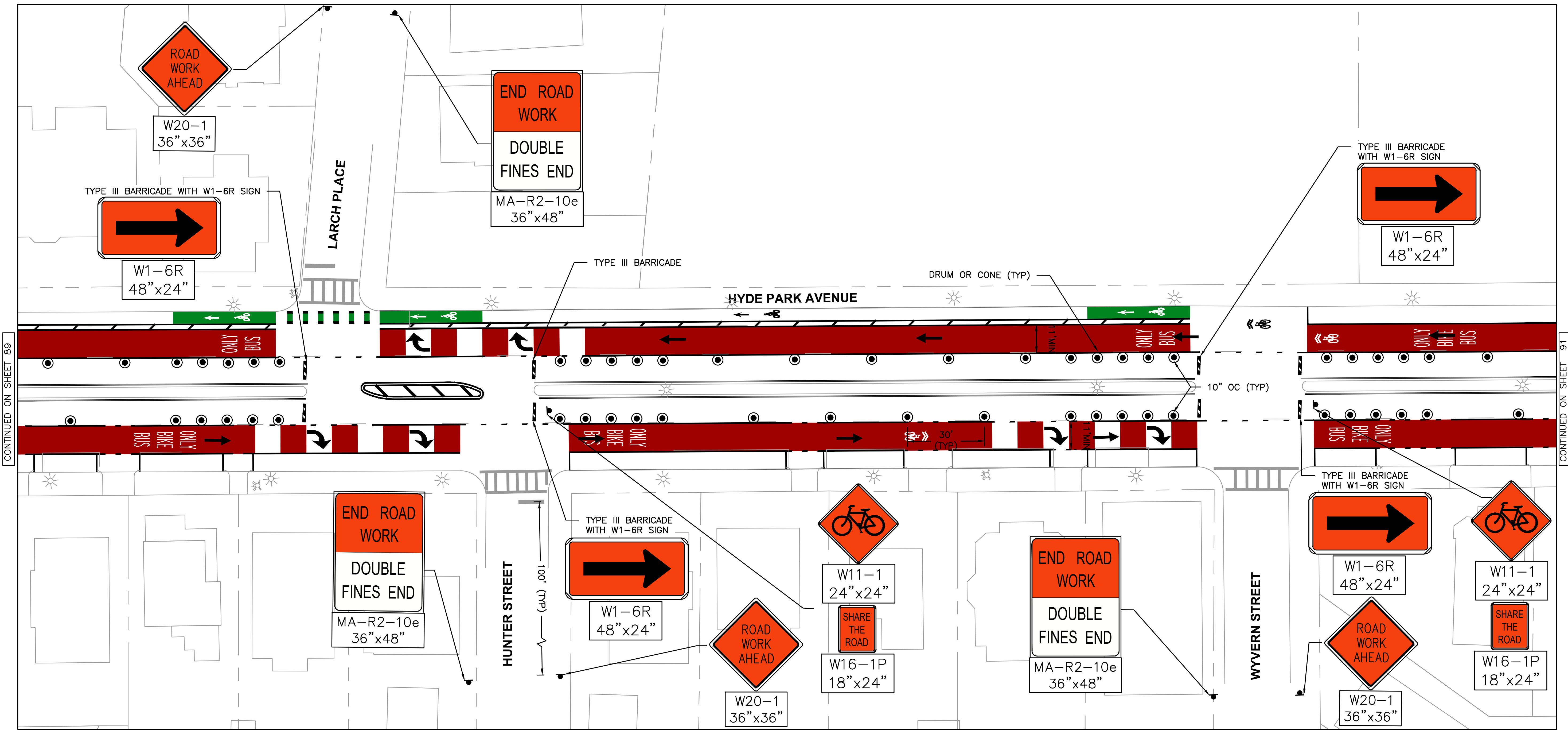
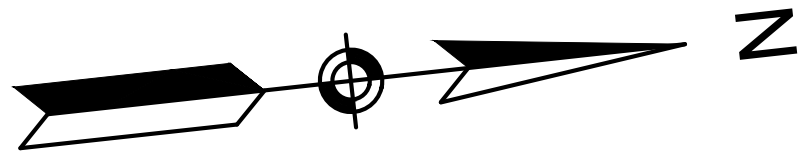


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ENGINEERING DIVISION
MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS

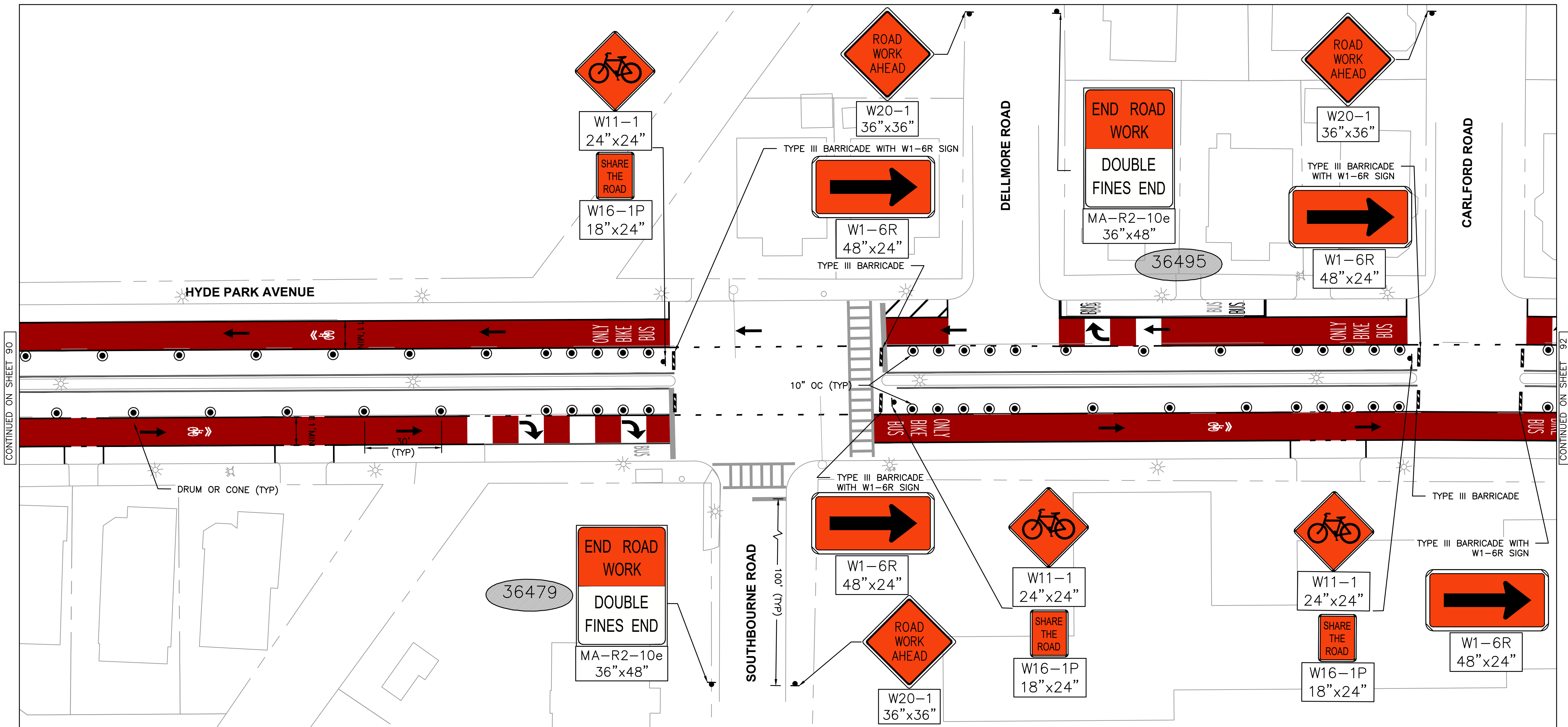
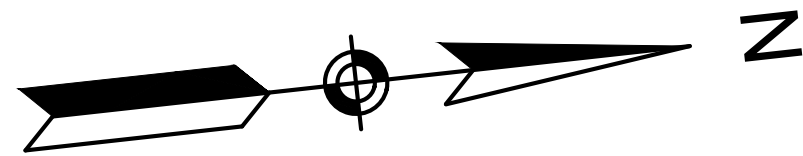
HYDE PARK AVENUE

NB_SB OUTSIDE LANE TRAFFIC
MANAGEMENT PLAN

AREA: -
DISTRICT: #

BOSTON AUGUST 2020
DRAWING NO. TMP-038
SHEET 90 OF 101

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MANAGEMENT PLAN

AREA: -
DISTRICT: #

BOSTON AUGUST 2020
DRAWING NO. TMP-039
SHEET 91 OF 101

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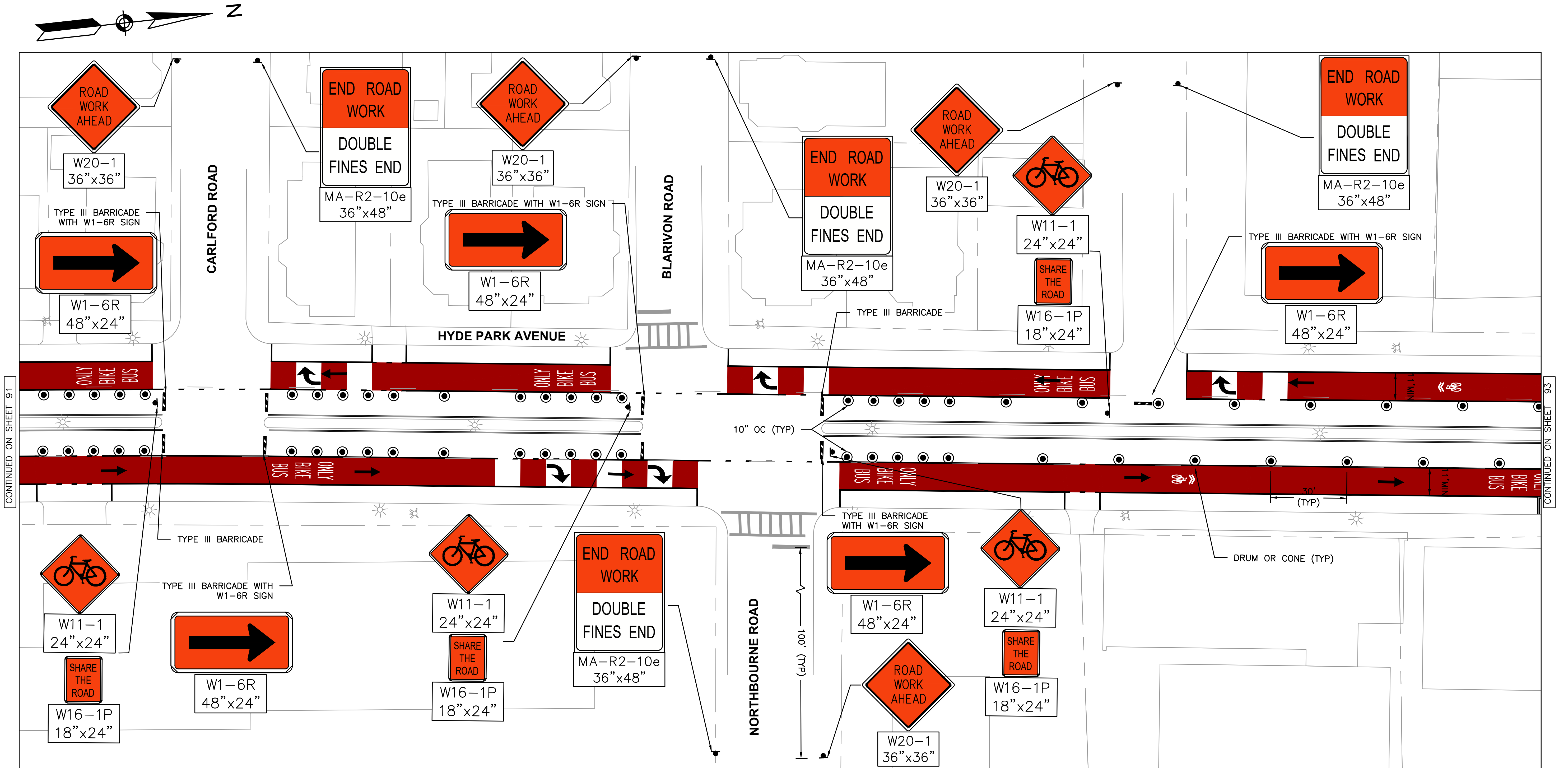
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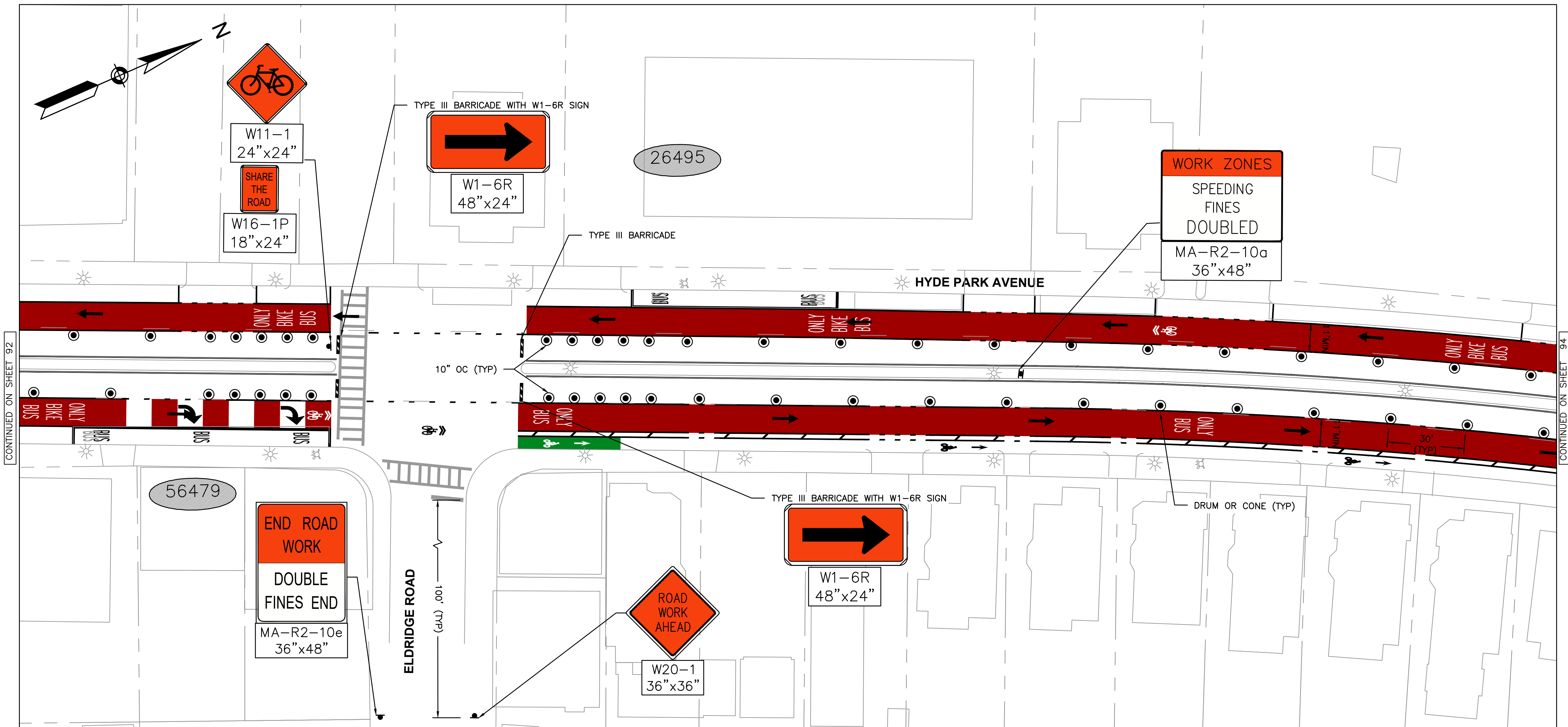
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CITY OF BOSTON TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION
MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS

HYDE PARK AVENUE
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MANAGEMENT PLAN

AREA: -
DISTRICT: #
BOSTON AUGUST 2020
DRAWING NO. TMP-040
SHEET 92 OF 101

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ENGINEERING DIVISION
MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS
HYDE PARK AVENUE
**NB_SB OUTSIDE LANE TRAFFIC
MANAGEMENT PLAN**

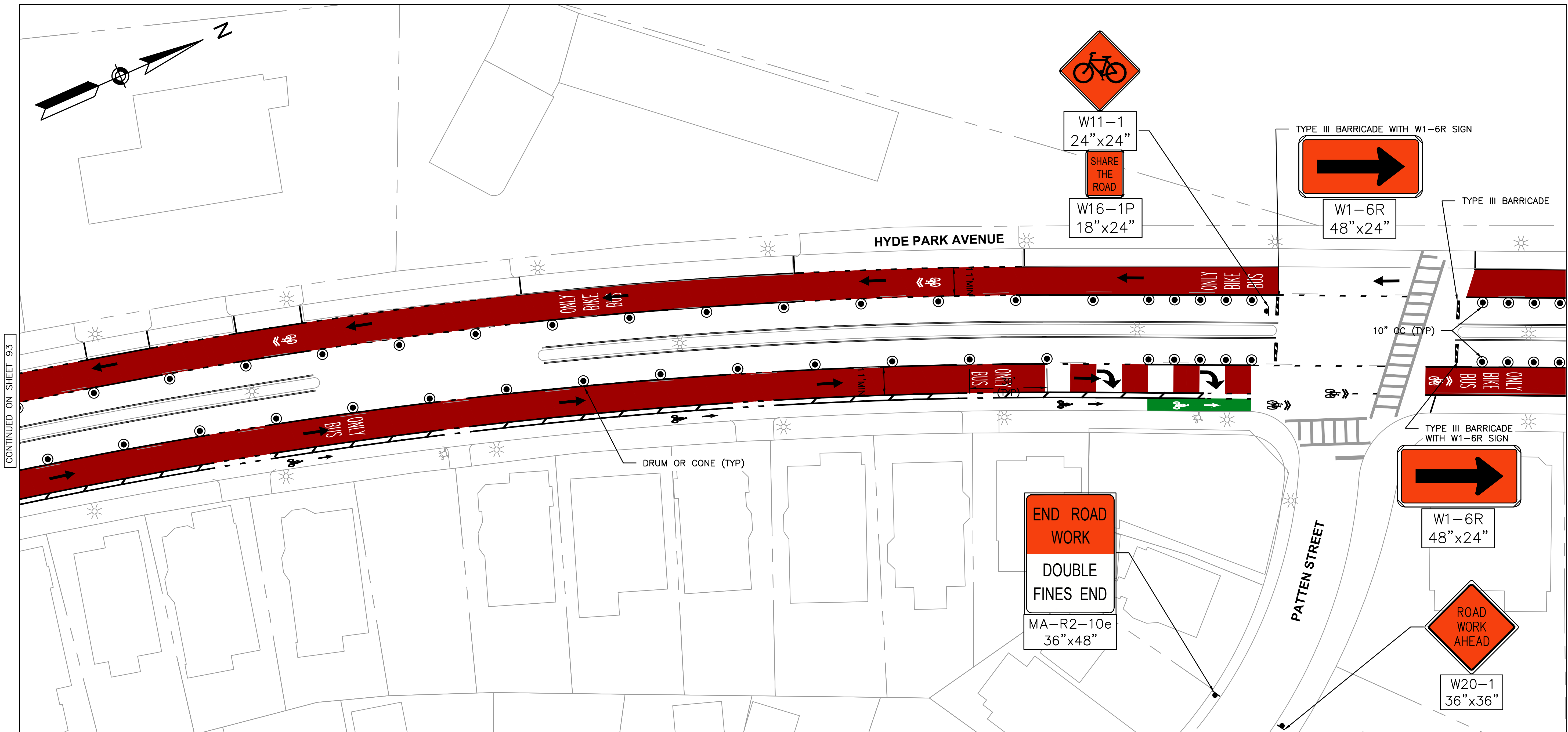
AREA: -	BOSTON	AUGUST 2020
DISTRICT: #		DRAWING NO. TMP-041
		SHEET 93 OF 101

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ENGINEERING DIVISION
MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS

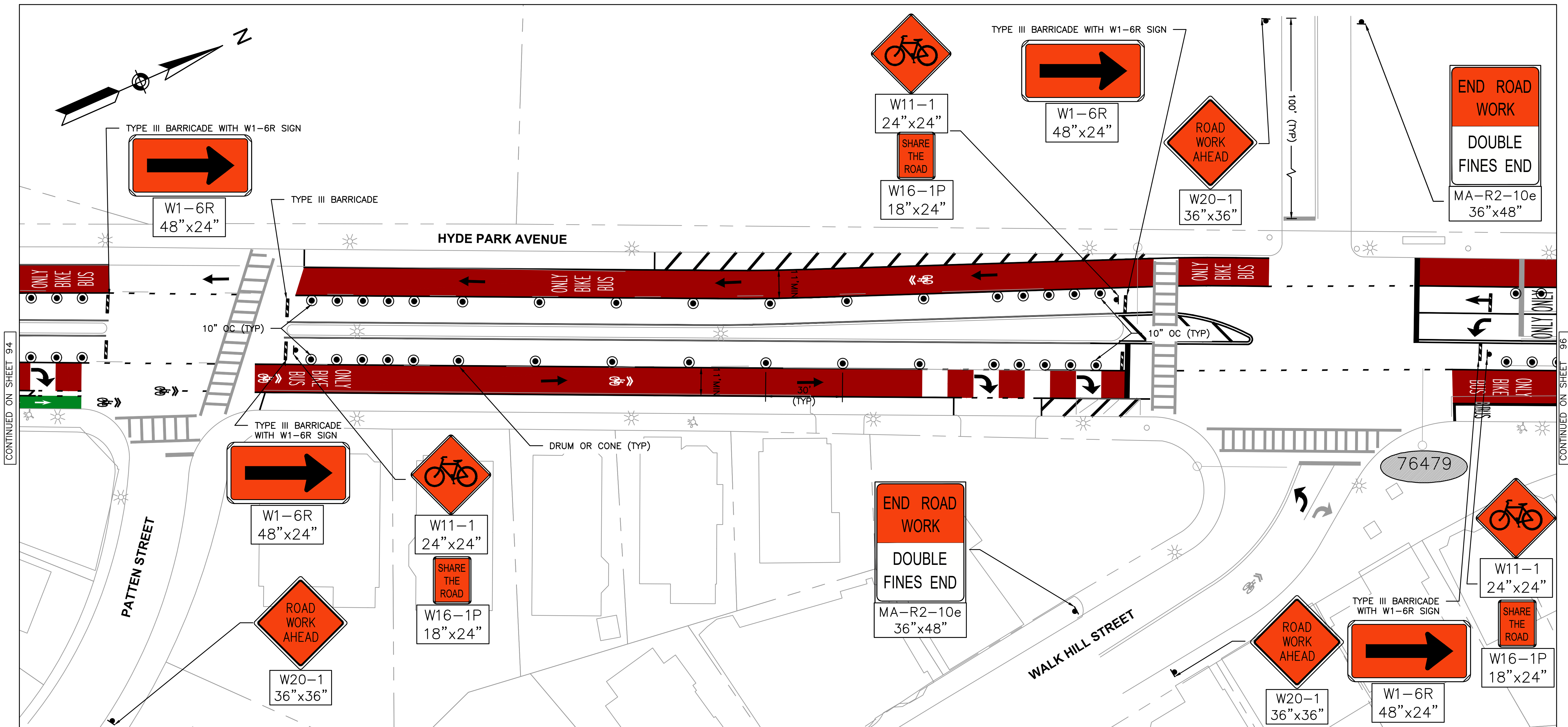
HYDE PARK AVENUE

**NB_SB OUTSIDE LANE TRAFFIC
MANAGEMENT PLAN**

AREA: -
DISTRICT: #

BOSTON AUGUST 2020
DRAWING NO. TMP-042
SHEET 94 OF 101

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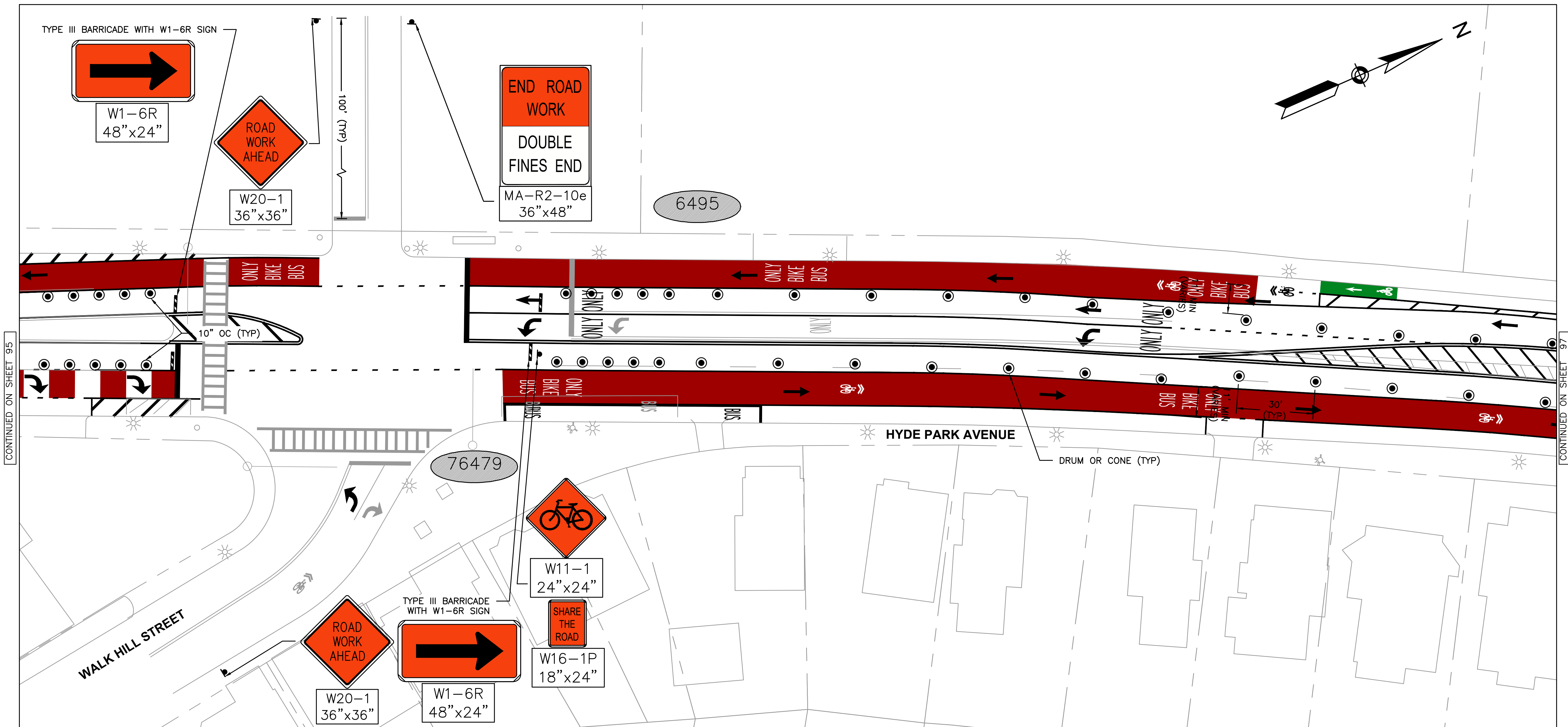
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ENGINEERING DIVISION
MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS

HYDE PARK AVENUE
NB_SB OUTSIDE LANE TRAFFIC
MANAGEMENT PLAN

AREA: -	BOSTON	AUGUST 2020
DISTRICT: #		DRAWING NO. TMP-043
		SHEET 95 OF 101

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MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS
HYDE PARK AVENUE
NB_SB OUTSIDE LANE TRAFFIC
MANAGEMENT PLAN

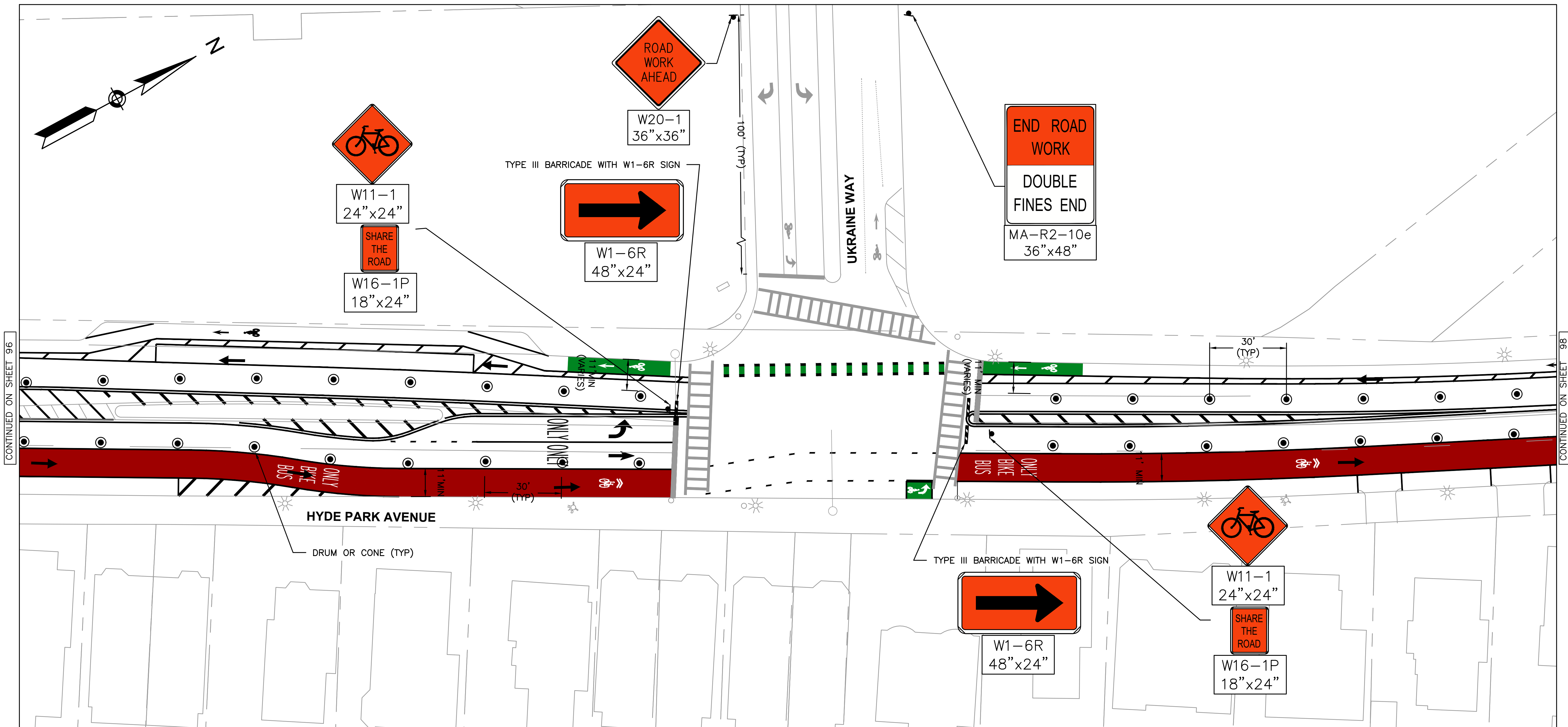
AREA: -	BOSTON	AUGUST 2020
DISTRICT: #		DRAWING NO. TMP-044
		SHEET 96 OF 101

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MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS

HYDE PARK AVENUE
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MANAGEMENT PLAN

AREA: -
DISTRICT: #
BOSTON AUGUST 2020
DRAWING NO. TMP-045
SHEET 97 OF 101

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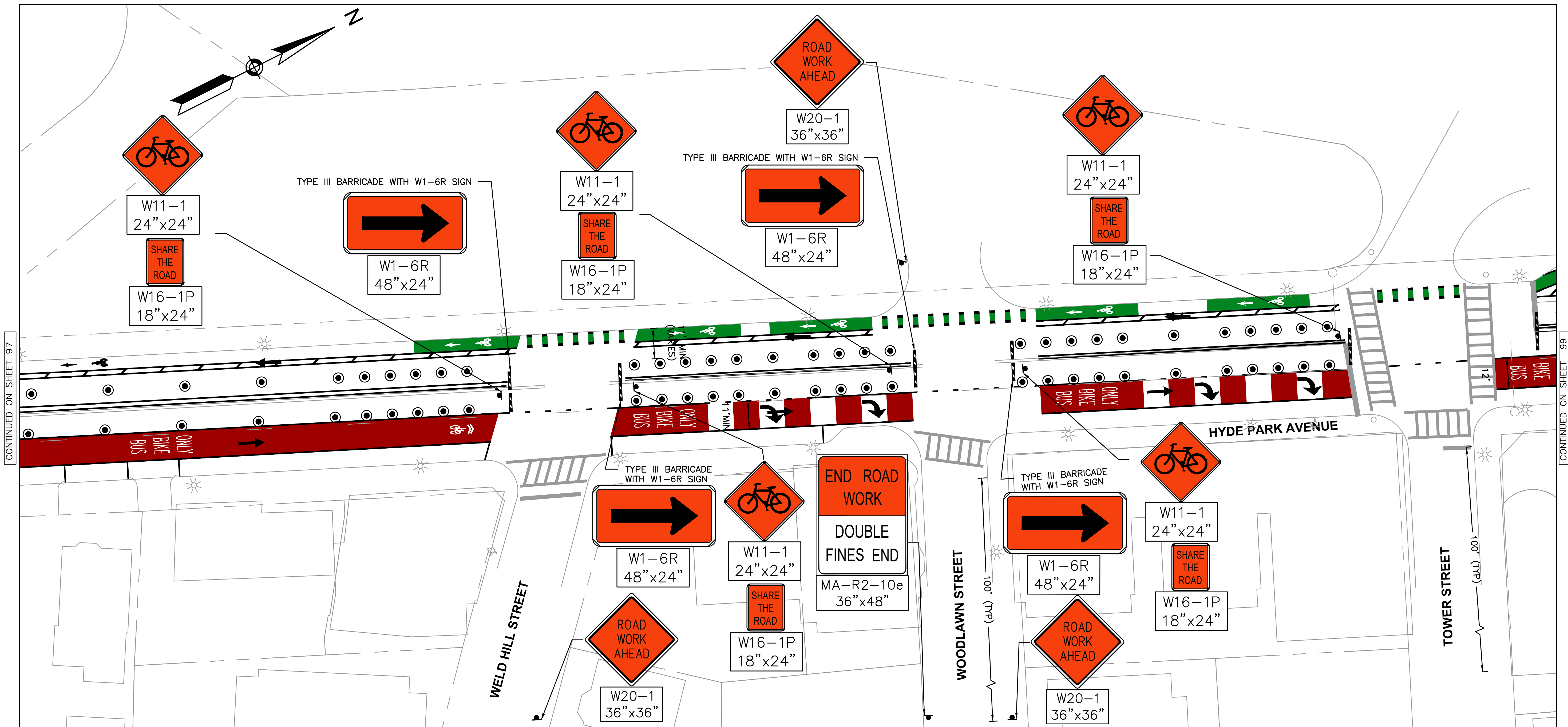
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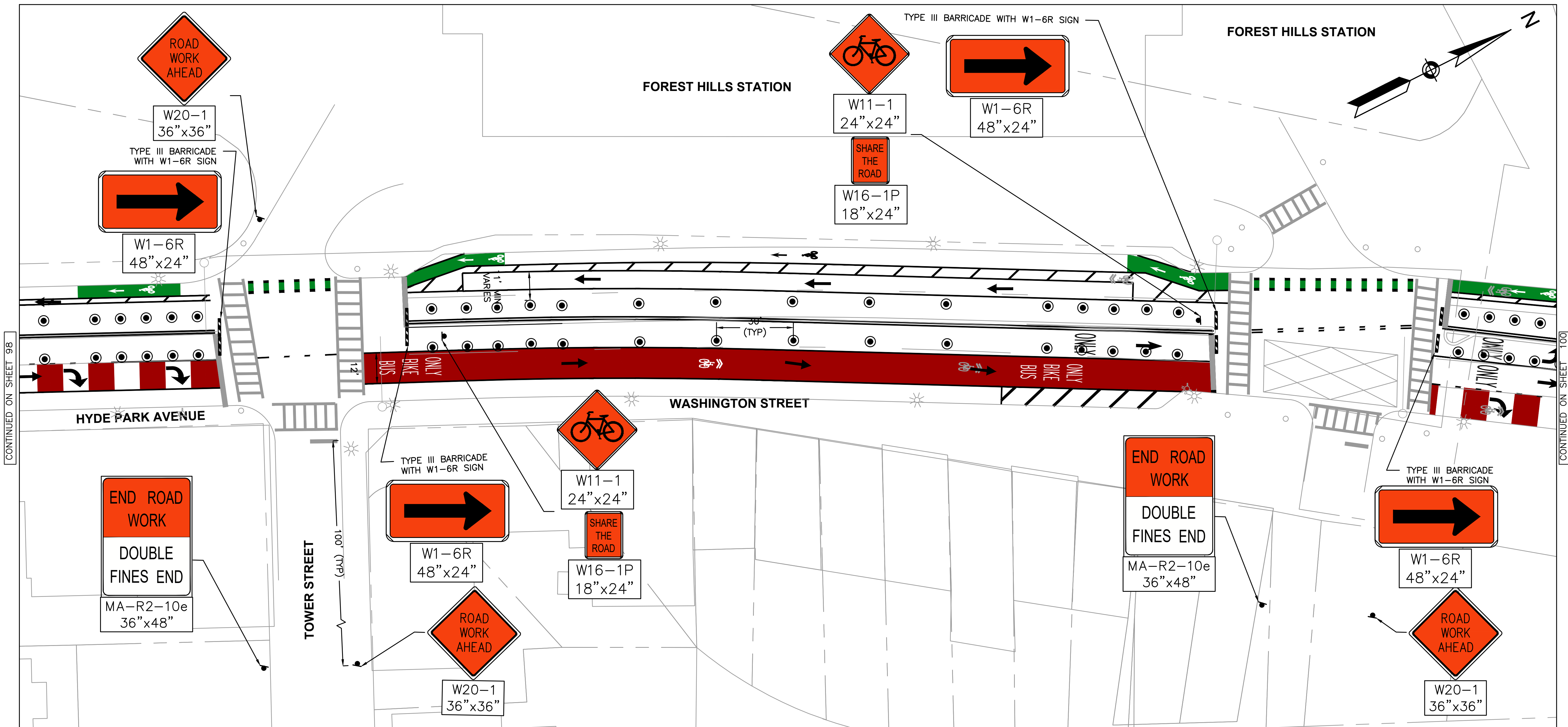
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ENGINEERING DIVISION
MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS
HYDE PARK AVENUE
NB_SB OUTSIDE LANE TRAFFIC
MANAGEMENT PLAN

AREA: -
DISTRICT: #

BOSTON AUGUST 2020
DRAWING NO. TMP-046
SHEET 98 OF 101

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ENGINEERING DIVISION
MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS
HYDE PARK AVENUE
NB_SB OUTSIDE LANE TRAFFIC
MANAGEMENT PLAN

AREA: -
DISTRICT: #

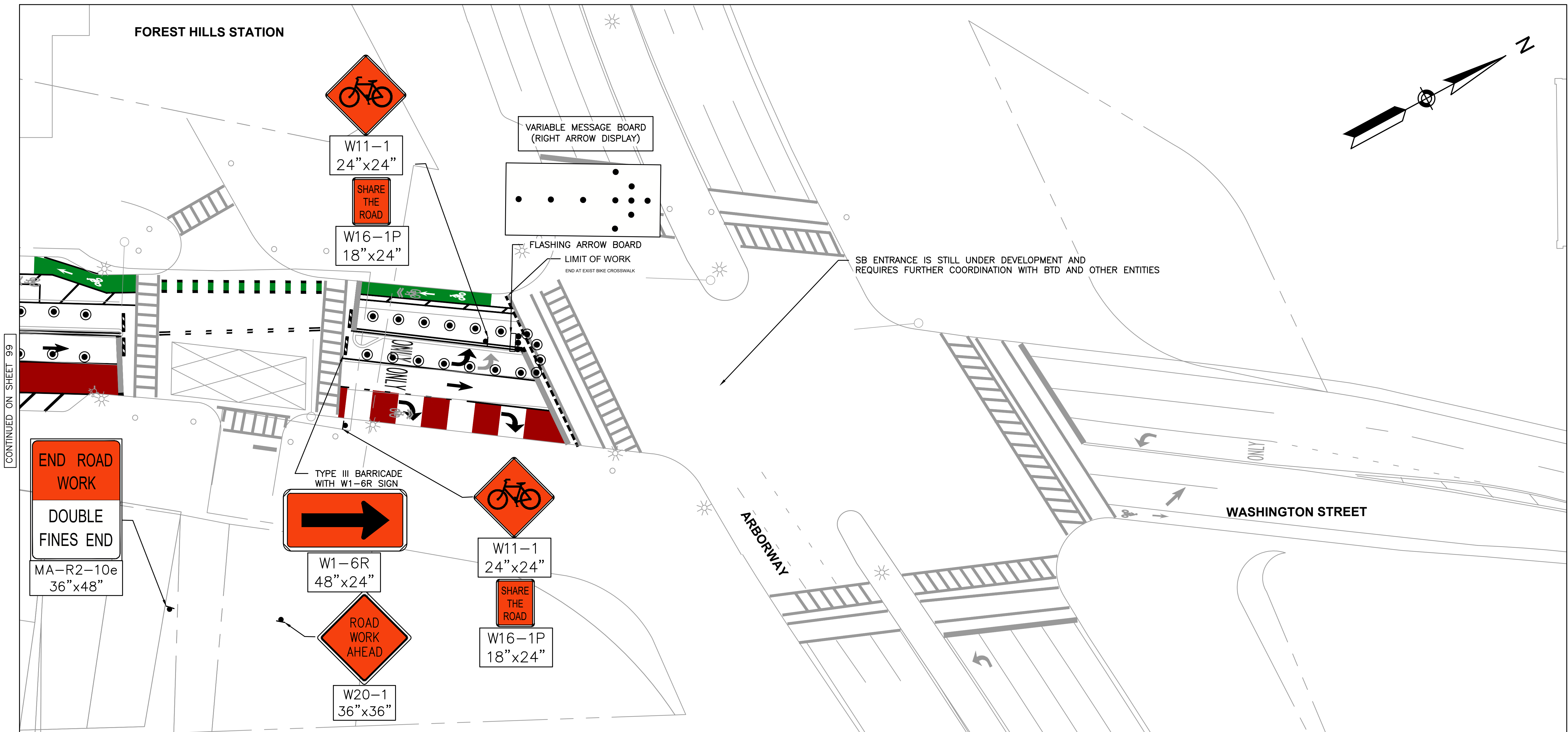
BOSTON AUGUST 2020
DRAWING NO. TMP-047
SHEET 99 OF 101

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CITY OF BOSTON TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION
MBTA CONTRACT Z91PS33
BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS

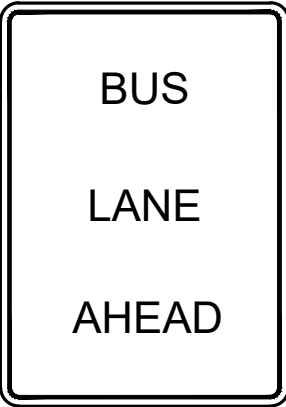
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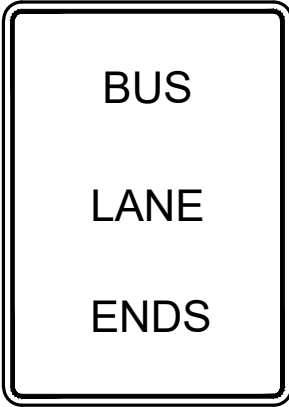
**NB_SB OUTSIDE LANE TRAFFIC
MANAGEMENT PLAN**

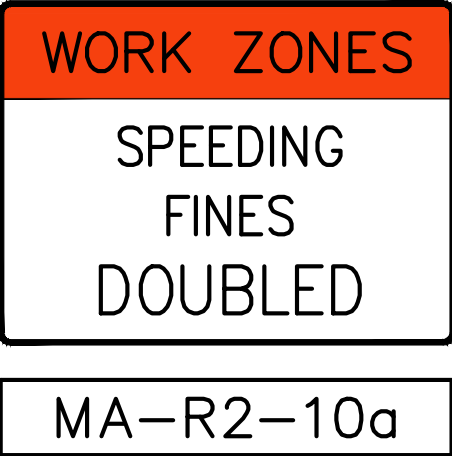
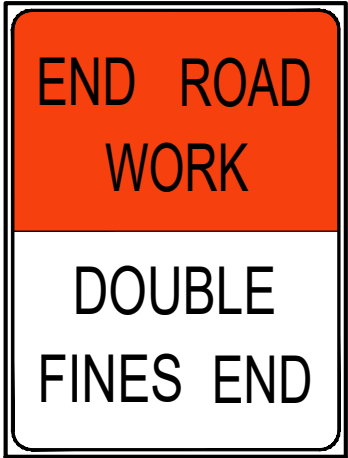
AREA: -
DISTRICT: #

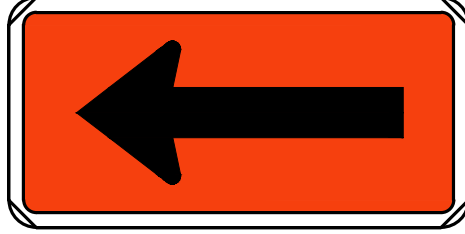
BOSTON AUGUST 2020
DRAWING NO. TMP-048
SHEET 100 OF 101

TRAFFIC SIGN SUMMARY	
INDENTIFICATION NUMBER	TEXT
R3-7R	
R3-7L	
R10-15alt	
SP-1	

TRAFFIC SIGN SUMMARY	
INDENTIFICATION NUMBER	TEXT
T-23	
T-23B(R)	
T-23(L)	
T-23B	
R3-12f	

TRAFFIC SIGN SUMMARY	
INDENTIFICATION NUMBER	TEXT
R3-12g	
R3-17	
R3-17bP	
R3-17aP	
R4-4(MOD)	

TRAFFIC SIGN SUMMARY	
INDENTIFICATION NUMBER	TEXT
R4-4(MOD A)	
MA-R2-10a	
W20-1	
MA-R2-10e	

TRAFFIC SIGN SUMMARY	
INDENTIFICATION NUMBER	TEXT
W1-6R	
W11-1	
W16-1P	
W1-6L	

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CITY OF BOSTON TRANSPORTATION DEPARTMENT ENGINEERING DIVISION MBTA CONTRACT Z91PS33 BUS SYSTEM INFRASTRUCTURE IMPROVEMENTS HYDE PARK AVENUE TRAFFIC SIGN SUMMARY		
AREA: -	BOSTON	AUGUST 2020
DISTRICT: #		DRAWING NO. TSS-001
		SHEET 101 OF 101