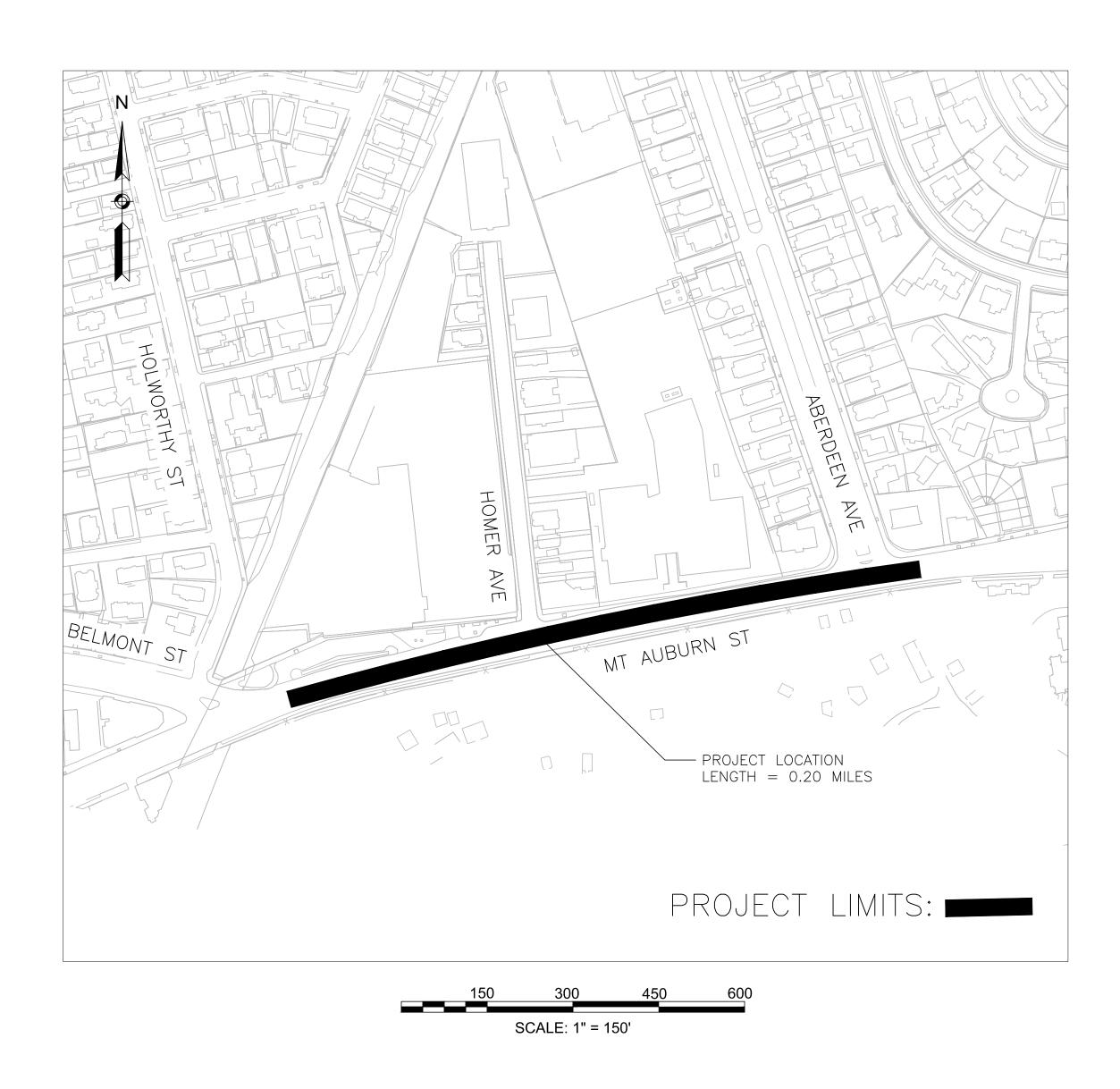
ABERDEN SIGNAL IMPROVEMENTS

CITY OF CAMBRIDGE MIDDLESEX COUNTY

INDEX

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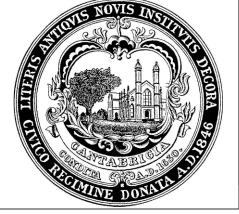


STANDARDS

RELEASE DATE STANDARD MASSDOT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRDIGES 2023 MASSDOT SUPPLEMENTAL SPECIFICATIONS **JUNE 2023** OCTOBER 2017 MASSDOT CONSTRUCTION STANDARD DETAILS MASSDOT CONSTRUCTION AND TRAFFIC STANDARD DETAILS (AS RELATES TO TRAFFIC STANDARD DETAILS ONLY) MASSDOT OVERHEAD SIGNAL STRUCTURE AND FOUNDATION STANDARD **DRAWINGS** MASSDOT TRAFFIC MANAGEMENT PLANS AND DETAIL DRAWINGS LATEST EDITION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS LATEST EDITION WITH MASSACHUSETTS AMENDMENTS MASSDOT STANDARD DRAWINGS FOR SIGNS AND SUPPORTS MASSDOT STANDARD DRAWINGS FOR TRAFFIC SIGNALS AND HIGHWAY LIGHTING AMERICAN STANDARD FOR NURSERY STOCK LATEST EDITION CITY OF CAMBRIDGE PUBLIC WORKS DEPARTMENT CONSTRUCTION STANDARDS LATEST EDITION

PS&E SUBMISSION





	PROJECT #:	312638-0
	DATE:	10/
	DESIGNER:	C. MUF
	DRAFTER:	J. VERE
	REVIEWER:	C. MUF
1		

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12638-01-001	
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REVISIONS REV#	DATE
TITLE SHEET & INDEX	TOTAL
ABERDEEN SIGNAL IMPROVEMENTS	SHEETS
ADERDEEN SIGNAL IMPROVEMENTS	
MOUNT AUBURN STREET 01	16
	10
CAMBRIDGE, MA	

EXISTING	PROPOSED	DESCRIPTION
⊞ ⊕ ⊕ cв	(⊞) € CB	CATCH BASIN
		CATCH BASIN CURB INLET
 □ MB	□ MB	MAIL BOX
		POST SQUARE
\bigcirc	\bigcirc	POST CIRCULAR
d	Q	HYDRANT
\	*	LIGHT POLE
		FLEX POST
©	©	CABLE MANHOLE
T	T	TELEPHONE MANHOLE
⊸ TPL or GUY	→ TPL or GUY	TRANSMISSION POLE
-b- UFB	-∳- UFB	UTILITY POLE W/ FIREBOX
-∳- UPDL	-∳- UPDL	UTILITY POLE WITH DOUBLE LIGHT
-6- ULT	_⊱ ULT	UTILITY POLE W / 1 LIGHT
-∽ UPL	-∽ UPL	UTILITY POLE
		= CURBING
		- UNDERGROUND TELEPHONE DUCT (DOUBLE LINE 24 INCH AND OVER)
x	x	- CHAIN LINK OR METAL FENCE
	o	- WOOD FENCE
	.~~~~~~~~	TREE LINE
		- EDGE OF PAVEMENT
		LIMIT OF MICROMILLING AND OVERLAY
		PROPERTY LINE OR APPROXIMATE PROPERTY LINE

TRAFFIC SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		VEHICLE DETECTION LOOP
		BIKE DETECTION LOOP
		VIDEO DETECTION LOOP
	<u> </u>	VIDEO DETECTION CAMERA
$\triangleright\Box$	▶■	MICROWAVE DETECTOR
\oplus	•	PEDESTRIAN PUSH BUTTON, SIGN (DIRECTIONAL ARROW AS SHOWN) AND SADDLE
− ∅;∈	-• ⁄⊱	EMERGENCY PREEMPTION BEACON
	\leftarrow	VEHICLE AND BIKE SIGNAL HEAD
		VEHICULAR SIGNAL HEAD, OPTICALLY PROGRAMMED
←	⊸	FLASHING BEACON
———	— = □	PEDESTRIAN SIGNAL HEAD, (TYPE AS NOTED OR AS SPECIFIED)
0	•	TRAFFIC SIGNAL POST (ALPHA-NUMERIC DESIGNATION NOTED)
	•	SIGN AND POST
00	• •	SIGN AND POST (2 POSTS)
		TRAFFIC SIGNAL MAST ARM
=	-	EMERGENCY OPTICAL PRE-EMPTION DETECTOR
		CONTROL CABINET, GROUND MOUNTED
		CONTROL CABINET, POLE MOUNTED
	\bowtie	LOAD CENTER ASSEMBLY
	•	PULL BOX 12"x12" (OR AS NOTED)
	-	ELECTRIC HANDHOLE 12"x24" (OR AS NOTED)
======		TRAFFIC SIGNAL CONDUIT
	lacktriangle	FLEXPOST

GENERAL

ABBREVIATIONS

		_	
GENERAL		<u>GENERAL</u>	
AADT	ANNUAL AVERAGE DAILY TRAFFIC	LT	LEFT
ABAN	ABANDON	MAX	MAXIMUM
ADJ	ADJUST	MB	MAILBOX
APPROX.	APPROXIMATE	MH	MANHOLE
A.C.	ASPHALT CONCRETE	MHB	MASSACHUSETTS HIGHWAY BOUND
ACCM PIPE	ASPHALT COATED CORRUGATED	MIN	MINIMUM
BIT.	METAL PIPE BITUMINOUS	NIC	NOT IN CONTRACT
BC BC	BOTTOM OF CURB	NO.	NUMBER
BCC	BITUMINOUS CONCRETE CURB	PC	POINT OF CURVATURE
BD.	BOUND	PCC	POINT OF COMPOUND CURVATURE
BL.	BASELINE	P.G.L.	PROFILE GRADE LINE
BLDG	BUILDING	PI	POINT OF INTERSECTION
BM	BENCHMARK	POC	POINT ON CURVE
BO	BY OTHERS	POT	POINT ON TANGENT
BOS	BOTTOM OF SLOPE	PRC	POINT OF REVERSE CURVATURE
BR.	BRIDGE	PROJ	PROJECT
CB	CATCH BASIN	PROP	PROPOSED
CBCI	CATCH BASIN WITH CURB INLET	PSB	PLANTABLE SOIL BORROW
CC	CEMENT CONCRETE	PT	POINT OF TANGENCY
CCM	CEMENT CONCRETE MASONRY	PVC	POINT OF VERTICAL CURVATURE
CEM	CEMENT	PVI	POINT OF VERTICAL INTERSECTION
CI	CURB INLET	PVT	POINT OF VERTICAL TANGENCY
CIP	CAST IRON PIPE	PVMT	PAVEMENT
CLF	CHAIN LINK FENCE	PWW	PAVED WATER WAY
CL	CENTERLINE	R	RADIUS OF CURVATURE
CMP	CORRUGATED METAL PIPE	R&D	REMOVE AND DISPOSE
CSP	CORRUGATED METALT II L	RCP	REINFORCED CONCRETE PIPE
CO.	COUNTY	RD	ROAD
CONC	CONCRETE	RDWY	ROADWAY
CONT	CONTINUOUS	REM	REMOVE
CONST	CONSTRUCTION	RET	RETAIN
CR	CURB RAMP	RET WALL	RETAINING WALL
DHV	DESIGN HOURLY VOLUME	ROW	RIGHT OF WAY
DI	DROP INLET	RR	RAILROAD
DIA	DIAMETER	R&R	REMOVE AND STACK
DIP	DUCTILE IRON PIPE	R&S RT	REMOVE AND STACK
	STEADY DON'T WALK - PORTLAND	SB	RIGHT STONE BOUND
DW	ORANGE	SHLD	SHOULDER
DWY	DRIVEWAY	SMH	SEWER MANHOLE
ELEV (or EL.)	ELEVATION	ST	STREET
EMB	EMBANKMENT	STA	STATION
EOP	EDGE OF PAVEMENT	SSD	STOPPING SIGHT DISTANCE
EXIST (or EX)	EXISTING	SHLO	STATE HIGHWAY LAYOUT LINE
EXC	EXCAVATION	SW	SIDEWALK
F&C	FRAME AND COVER		TANGENT DISTANCE OF
F&G	FRAME AND GRATE	Т	CURVE/TRUCK %
FDN.	FOUNDATION	TAN	TANGENT
FLDSTN	FIELDSTONE	TEMP	TEMPORARY
GAR	GARAGE	TC	TOP OF CURB
GD	GROUND	TOS	TOP OF SLOPE
GG	GAS GATE	TYP	TYPICAL
Gl	GUTTER INLET	UP	UTILITY POLE
GIP	GALVANIZED IRON PIPE	VAR	VARIES
GRAN	GRANITE	VERT	VERTICAL
GRAV	GRAVEL	VC	VERTICAL CURVE
GRD	GUARD	VGC	VERTICAL GRANITE CURB
GRDL	GUARDRAIL	WG	WATER GATE
HDW	HEADWALL	WIP	WROUGHT IRON PIPE
HMA	HOT MIX ASPHALT	WM	WATER METER/WATER MAIN
HOR	HORIZONTAL	X-SECT	CROSS SECTION
HYD	HYDRANT		
INV	INVERT		
JCT	JUNCTION		
L	LENGTH OF CURVE		
LB	LEACH BASIN		

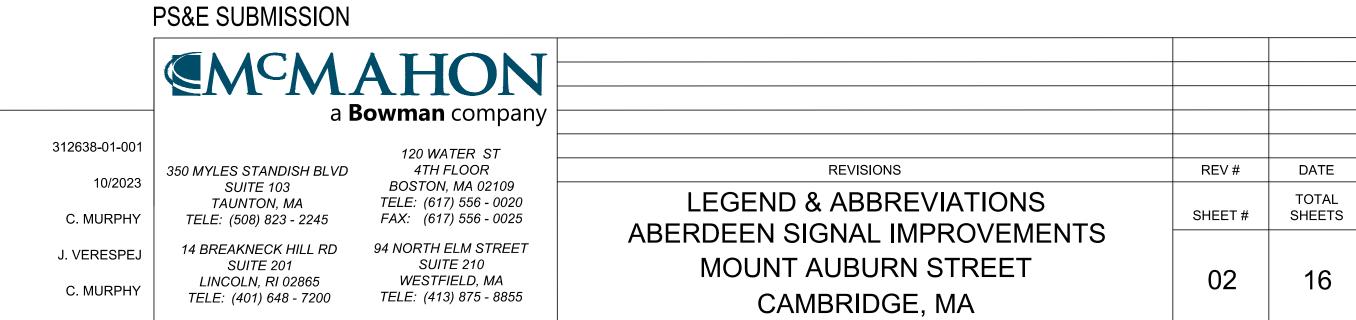
PAVEMENT MARKINGS SYMBOLS

— — — — — — — EASEMENT

EXISTING	PROPOSED	DESCRIPTION
	↑	PAVEMENT ARROW - WHITE
ONLY	ONLY	LEGEND "ONLY" - WHITE
3× →	& →	BIKE LANE WHITE PAVEMENT ARROW AND LEGEND
	SL	VEHICLE STOP LINE - 24"
	SL	BICYCLE STOP LINE - 12"
	cw	CROSSWALK - 24" WHITE
	12" SWL	SOLID WHITE LINE (BUS LANE) - 12"
	SWL	SOLID WHITE LINE - 6"
	SYL	SOLID YELLOW LINE - 6"
	BWL	BROKEN WHITE LINE - 6" 10' MARK - 30' SKIP
	BYL	BROKEN YELLOW LINE - 6" 10' MARK - 30' SKIP
	DWL	DOTTED WHITE LINE - 6" 2' MARK - 4' SKIP
	DWLEx	DOTTED WHITE LINE EXTENSION - 6" 2' MARK - 4' SKIP
	DY <u>LE</u> x	DOTTED YELLOW LINE EXTENSION - 6" 2' MARK - 4' SKIP
= = = = =	DYCLEX DYCL	DOTTED YELLOW CENTER LINE EXTENSION - 4" 2' MARK - 4' SKIP
	DTCL	DOUBLE YELLOW CENTER LINE - 4"
		SOLID WHITE CHANNELIZATION (15' SPACING @ 45°) - 8"
///		SOLID YELLOW CHANNELIZATION (15' SPACING @ 45°) - 8" SOLID YELLOW CHANNELIZATION (20' SPACING @ 45°) - 8"

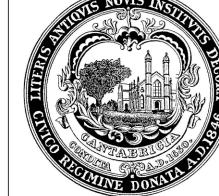
TRAFFIC SIGNAL ABBREVIATIONS

TRAFFIC SIGNAL ADDREVIATIONS		
CAB	CABINET	
DW	STEADY UPRAISED HAND	
FDW	FLASHING UPRAISED HAND	
FR	FLASHING CIRCULAR RED	
FRL	FLASHING RED LEFT ARROW	
FRR	FLASHING RED RIGHT ARROW	
FY	FLASHING CIRCULAR YELLOW	
FYL	FLASHING YELLOW LEFT ARROW	
FYR	FLASHING YELLOW RIGHT ARROW	
G	STEADY CIRCULAR GREEN	
GL	STEADY GREEN LEFT ARROW	
GR	STEADY GREEN RIGHT ARROW	
GV	STEADY GREEN VERTICAL ARROW	
OL	OVERLAP	
PED	PEDESTRIAN	
R	STEADY CIRCULAR RED	
RL	STEADY RED LEFT ARROW	
RR	STEADY RED RIGHT ARROW	
TR SIG	TRAFFIC SIGNAL	
TSC	TRAFFIC SIGNAL CONDUIT	
W	STEADY WALKING PERSON	
Υ	STEADY CIRCULAR YELLOW	
YL	STEADY YELLOW LEFT ARROW	



LIGHT POLE





PROJECT #: REVIEWER: C. MURPHY

GENERAL NOTES:

- 1. THE LOCATION OF EXISTING UNDERGROUND PIPES, CABLES, CONDUITS, AND STRUCTURES AS SHOWN HAS BEEN COLLECTED FROM THE BEST AVAILABLE SOURCES AND THE OWNER TOGETHER WITH ITS AGENTS DOES NOT IMPLY OR GUARANTEE THE DATA AND INFORMATION IN CONNECTION WITH THE UNDERGROUND PIPES, CABLES, CONDUITS, STRUCTURES, AND SUCH OTHER PARTS AS TO THEIR COMPLETENESS NOR THEIR LOCATIONS AS INDICATED. THE CONTRACTOR SHALL CONTACT UTILITY OWNERS AND REQUEST MARKING LOCATION OF ALL THEIR LINES IN THE WORK AREAS. PRIOR TO EXCAVATION, THE CONTRACTOR SHALL ASSUME THAT THERE ARE EXISTING WATER, GAS, AND OTHER UTILITY CONNECTIONS TO EACH AND EVERY BUILDING EN ROUTE, WHETHER THEY APPEAR ON THE PLANS OR NOT. ANY EXPENSE AND/OR DELAY OCCASIONED BY THESE UTILITIES AND STRUCTURES OR DAMAGE THERETO, INCLUDING THOSE NOT SHOWN, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND AT NO ADDITIONAL EXPENSE TO THE OWNER (SEE SPECIAL CONDITIONS).
- 2. FOUNDATIONS AND LINES FOR SERVICES, POLICE AND FIRE ALARM BOXES, STREET LIGHTS, AND TRAFFIC SIGNALS ARE NOT SHOWN ON THE PLANS. THE APPROPRIATE UTILITY COMPANIES OR AUTHORITIES SHOULD BE CONTACTED AND CONSULTED FOR LOCATIONS
- 3. THE CONTRACTOR SHALL PREMARK THE EXCAVATION AREA IN WHITE AND NOTIFY THE DIG SAFE CENTER (TEL. NO. 1-888-DIG-SAFE) AT LEAST 72 BUSINESS HOURS PRIOR TO ANY EXCAVATION WORK. IN ADDITION, NOTIFICATION SHALL ALSO BE GIVEN TO ALL AFFECTED PRIVATE AND/OR PUBLIC UTILITIES TO PERMIT STREET MARKING OF THEIR LINES.
- 4. WHERE TEMPORARY OR PERMANENT UTILITY RELOCATION IS REQUIRED, THE CONTRACTOR SHALL NOTIFY THE AFFECTED UTILITY COMPANY 120 DAYS IN ADVANCE OF CONSTRUCTION AND SHALL COORDINATE THE NEW WORK WITH THE UTILITY RELOCATION.
- 5. INTERRUPTIONS OF SERVICES SHALL NOT BE PERMITTED. THE CONTRACTOR SHALL COORDINATE WITH ALL UTILITIES AND PROVIDE ALL TEMPORARY UTILITIES AND CONNECTIONS TO AVOID INTERRUPTIONS OF WATER, SANITARY, DRAINAGE, ELECTRIC, PHONE, GAS, FIBEROPTICS, AND CABLE SERVICES.
- 6. PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS INFORMATION AND REPORT ANY DISCREPANCIES BETWEEN THE PLANS AND THE ACTUAL CONDITIONS TO THE ENGINEER.
- 7. THE CONTRACTOR SHALL PROTECT ALL TRAVELED WAYS FROM DUST AND CONSTRUCTION DEBRIS AT ALL TIMES. NO PROPOSED WORK SHALL IMPACT PROPERTY OUTSIDE OF THE EXISTING LIMITS OF WORK.
- 8. UNLESS OTHERWISE INDICATED ON THE DRAWINGS, ALL AREAS ADJACENT TO THE LIMITS OF CONSTRUCTION WHICH ARE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE
- 9. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL DEMOLISHED MATERIALS, RUBBISH, EXCAVATED MATERIAL AND DEBRIS. UNLESS OTHERWISE NOTE, AND IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS HAVING JURISDICTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL DISPOSAL PERMITS AT NO ADDITIONAL COST TO THE
- 10. THE CONTRACTOR MAY BE ASKED BY THE OWNER TO SUSPEND CONSTRUCTION OPERATIONS TEMPORARILY TO AVOID CONFLICTS WITH LARGE PUBLIC EVENTS OR LARGE STORM EVENTS. THE CONTRACTOR SHALL NOT BE COMPENSATED FOR COSTS RELATED TO
- 11. THE CONTRACTOR SHALL NOT BLOCK ACCESS TO STREET AND PRIVATE PARKING IN THE VICINITY OF THE LIMITS OF CONSTRUCTION AFTER WORK HOURS AND ON WEEKENDS.
- 12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SNOW PLOWING AND SNOW REMOVAL FROM ALL AREAS WHERE PRESENCE IS MAINTAINED, INCLUDING BUT NOT LIMITED TO, UNPAVED SURFACES, PARKED EQUIPMENT AREAS, OR ANY AREAS OF CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR STREET SWEEPING, SNOW REMOVAL FROM SIDEWALKS, TRASH REMOVAL, AND RECYCLABLE MATERIAL REMOVAL FROM ALL AREAS WHERE CONSTRUCTION RESTRICTS VEHICULAR OR PEDESTRIAN ACCESS TO STREETS OR SIDEWALKS, AND WHERE THE CONTRACTOR'S PRESENCE INTERFERES WITH MUNICIPAL TRASH REMOVAL, STREET SWEEPING, OR SNOW PLOWING AND REMOVAL.
- 13. AREAS WITHIN THIS CONTRACT ARE SUBJECT TO THE UTILITY RELATED ABATEMENT MEASURE REGULATIONS OF THE MASSACHUSETTS CONTINGENCY PLAN 310 CMR 40.00 AND SECTIONS 02010, 02080, AND 02095 OF THE SPECIFICATIONS. THE CONTRACTOR'S ATTENTION IS SPECIFICALLY DIRECTED TO ENVIRONMENTAL DATA (SOIL AND GROUNDWATER) FROM BORINGS AND MONITORING WELLS AS REPRESENTATIVE OF SUBSURFACE CONDITIONS IN URBAN AREAS. THE ENVIRONMENTAL DATA ARE APPENDED TO THE SPECIFICATIONS.
- 14. THE CONTRACTOR SHALL NOT BE PERMITTED TO STARTUP OR OPERATE EQUIPMENT BEFORE OR AFTER ESTABLISHED WORKING HOURS OF 7:00 AM TO 4:00 PM MONDAY THROUGH FRIDAY WITHOUT WRITTEN APPROVAL OF THE OWNER, UNLESS NOTED OTHERWISE; TO BE CONFIRMED WITH THE CITY OF CAMBRIDGE PRIOR TO THE START OF CONSTRUCTION.
- 15. EXISTING CONDITIONS ARE SHOWN SCREENED.
- 16. ALL STREET EXCAVATIONS SHALL BE COMPLETELY CLOSED AT THE END OF EACH WORKING DAY BY BACKFILLING AND TEMPORARY PAVING OR BY COVERING WITH STEEL PLATES WHEN APPROVED BY THE OWNER.
- 17. EXISTING UTILITY POLES THAT FALL WITHIN 5 FEET OF THE PROPOSED EDGE OF TRENCH SHALL BE SUPPORTED BY THE UTILITY OWNER DURING EXCAVATION OF THE TRENCH. THE CONTRACTOR SHALL COORDINATE SUPPORT AND BE RESPONSIBLE FOR COSTS AND FEES. WHERE EXISTING GAS, ELECTRIC, AND TELECOM UTILITIES CROSS THE PROPOSED TRENCH LIMITS, THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY OWNER TO SUPPORT AND BE RESPONSIBLE FOR COSTS AND FEES. CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPORTING THE EXISTING UTILITY IN ACCORDANCE WITH THE UTILITY OWNER'S REQUIREMENTS.
- 18. ALL PAVEMENT MARKING LINES SHALL BE THERMOPLASTIC (UNLESS OTHERWISE NOTED) EXCEPT AS FOLLOWS: ALL GREEN PAVEMENT MARKINGS SHALL BE GREEN COLORED SURFACE TREATMENT AND ALL RED PAVEMENT MARKINGS SHALL BE RED COLORED SURFACE

SURVEYING NOTES:

- 1. SURVEY BASEMAP HAS BEEN PREPARED BY COMBINING A TOPOGRAPHIC SURVEY PREPARED BY BRENNAN CONSULTING DATED SEPTEMBER 22, 2022 AND PROVIDED BY CITY OF CAMBRIDGE WITH SUPPLEMENTAL GIS LINEWORK FROM THE CITY OF CAMBRIDGE DATABASE DATED 2023. LINEWORK REPRESENTING EXISITNG UNDERGROUND STRUCTURES AND PIPES HAS BEEN SHOWN HEREON IN ITS APPROXIMATE LOCATION BASED ON AVAILABLE RECORD PLANS. THERE ARE NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA. EITHER IN SERVICE OR ABANDONED, FURTHER, THE PRESENCE OF UTILITY LINEWORK ON THE PLANS DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. UNDERGROUND UTILITIES HAVE NOT BEEN PHYSICALLY LOCATED.
- 2. RECORD UTILITY INFORMATION FROM THE VARIOUS UTILITY COMPANIES AND PUBLIC AGENCIES ARE APPROXIMATE ONLY AND ACTUAL LOCATIONS SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO STARTING.
- 3. ALL UTILITY COMPANIES, PUBLIC AND PRIVATE, MUST BE NOTIFIED, INCLUDING THOSE IN CONTROL OF UTILITIES NOT SHOWN ON THIS PLAN (SEE CHAPTER 370, ACTS OF 1963, MASSACHUSETTS), PRIOR TO EXCAVATING, INSTALLING, BACKFILLING, GRADING, PAVEMENT
- 4. THE OWNER AND ENGINEER ASSUME NO RESPONSIBILITY FOR DAMAGES INCURRED AS A RESULT OF UTILITIES OMITTED OR INACCURATELY SHOWN.
- 5. PROPERTY LINES AS SHOWN ARE TAKEN FROM GIS INFORMATION AND ARE APPROXIMATE ONLY.

SPECIAL NOTES FOR TREE PROTECTION:

- 1. REFER TO "CITY OF CAMBRIDGE DEPARTMENT OF PUBLIC WORKS-DIVISION OF URBAN FORESTRY, TREE PROTECTION DURING CONSTRUCTION" IN THE CONTRACT DOCUMENTS. ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH MASSACHUSETTS STATE
- 2. A MASSACHUSETTS OR INTERNATIONAL CERTIFIED ARBORIST SHALL BE SUB-CONTRACTED BY THE CONTRACTOR TO PROVIDE A TREE-PROTECTION PLAN AND PERFORM SPECIFIED WORK.
- 3. ALL TREES SHALL BE PRUNED PRIOR TO CONSTRUCTION IN ACCORDANCE WITH SPECIFICATION 02100.
- 4. ALL TREES NOT IDENTIFIED FOR REMOVAL SHALL BE PROTECTED AGAINST CONSTRUCTION AND TRUCKING RELATED DAMAGE TO THEIR TRUNKS, ROOTS, AND LIMBS, TREE TRUNKS SHALL BE WRAPPED AND/OR BARRICADED FOR PROTECTION IF NECESSARY. TREE LIMBS SHALL BE TEMPORARILY SUPPORTED TO AVOID DAMAGE AND/OR PROFESSIONALLY PRUNED IF THEY CANNOT BE AVOIDED. BREAKAGE OF THE LIMBS SHALL NOT BE PERMITTED. IN ADDITION TO THE "CONSTRUCTION PRUNING" SPECIFICALLY IDENTIFIED, ALL TREES WITHIN THE PROJECT AREA AND ALONG TRUCK ROUTE SHALL BE PROTECTED FROM DAMAGE OR PROFESSIONALLY PRUNED. "CONSTRUCTION PRUNING" SHALL CONSIST OF SQUARELY CUTTING LIMBS ONLY WHERE THEY CANNOT BE AVOIDED BY TRUCKS OR EQUIPMENT. (RAISE PRUNING).
- 5. ALL TREE PROTECTION MEASURES AND OPERATIONS AND ALL ROOT PRUNING, TREE REMOVAL, AND TREE PRUNING SHALL BE SUBJECT TO REVIEW, APPROVAL, OR CHANGE BY THE CITY ARBORIST.
- 6. AT THE OWNER'S DISCRETION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ANY TREE DAMAGED BY CONSTRUCTION OR TRUCKING OPERATIONS, REMOVAL OF THE STUMP, AND REPLACEMENT OF THE TREE IN KIND AT NO ADDITIONAL COST TO THE OWNER. ADDITIONAL FINES MAY ALSO BE IMPOSED FOR DAMAGE AS PER CONTRACT SPECIFICATIONS.
- 7. BREAKAGE OF TREE ROOTS SHALL NOT BE PERMITTED AND ROOT PRUNING SHALL BE MINIMIZED. TREE ROOTS THAT CANNOT BE AVOIDED DURING CONSTRUCTION SHALL BE PRUNED IN ACCORDANCE WITH THE SPECIFICATIONS AND UNDER SUPERVISION OF THE CITY ARBORIST, INCLUDING ROOT TREATMENT IF REQUIRED.
- 8. THE CONTRACTOR SHALL COORDINATE WITH DIG SAFE PRIOR TO REMOVING ANY STUMPS. DAMAGE TO EXISTING SIDEWALKS AND UTILITIES SHALL BE REPAIRED AS SPECIFIED AFTER REMOVING STUMPS.
- 9. TREES AND STUMPS REMOVED DURING CONSTRUCTION SHALL BE REPLACED WITH NEW TREES AS DIRECTED. STUMP REMOVAL SHALL BE SUFFICIENT TO ALLOW PLANTING OF A NEW TREE.

PS&E SUBMISSION



	PROJECT #:	312638-01-0
PE	DATE:	10/20
ORA	DESIGNER:	C. MURP
946	DRAFTER:	J. VERESP
	REVIEWER:	C. MURP

JECT #:	312638-01-001
≣:	10/2023
GNER:	C. MURPHY
FTER:	J. VERESPEJ

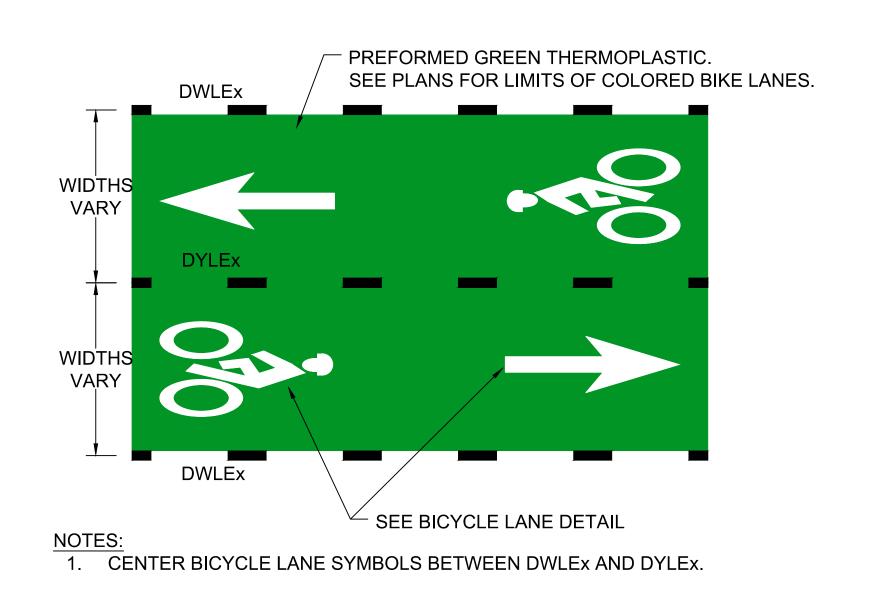
8-01-001	
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<i>94 NORTH ELM STREE</i>

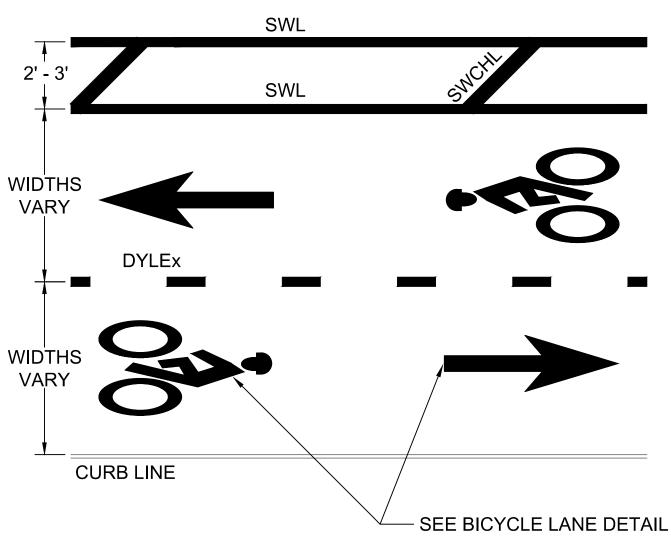
a **Bowman** company

(508) 823 - 2245 REAKNECK HILL RD SUITE 210 WESTFIELD, MA LINCOLN, RI 02865 TELE: (413) 875 - 8855 TELE: (401) 648 - 7200

REVISIONS	REV#	DATE
GENERAL NOTES	OUEET #	TOTAL
ABERDEEN SIGNAL IMPROVEMENTS	SHEET#	SHEETS
MOUNT AUBURN STREET	03	16
CAMBRIDGE, MA	03	10

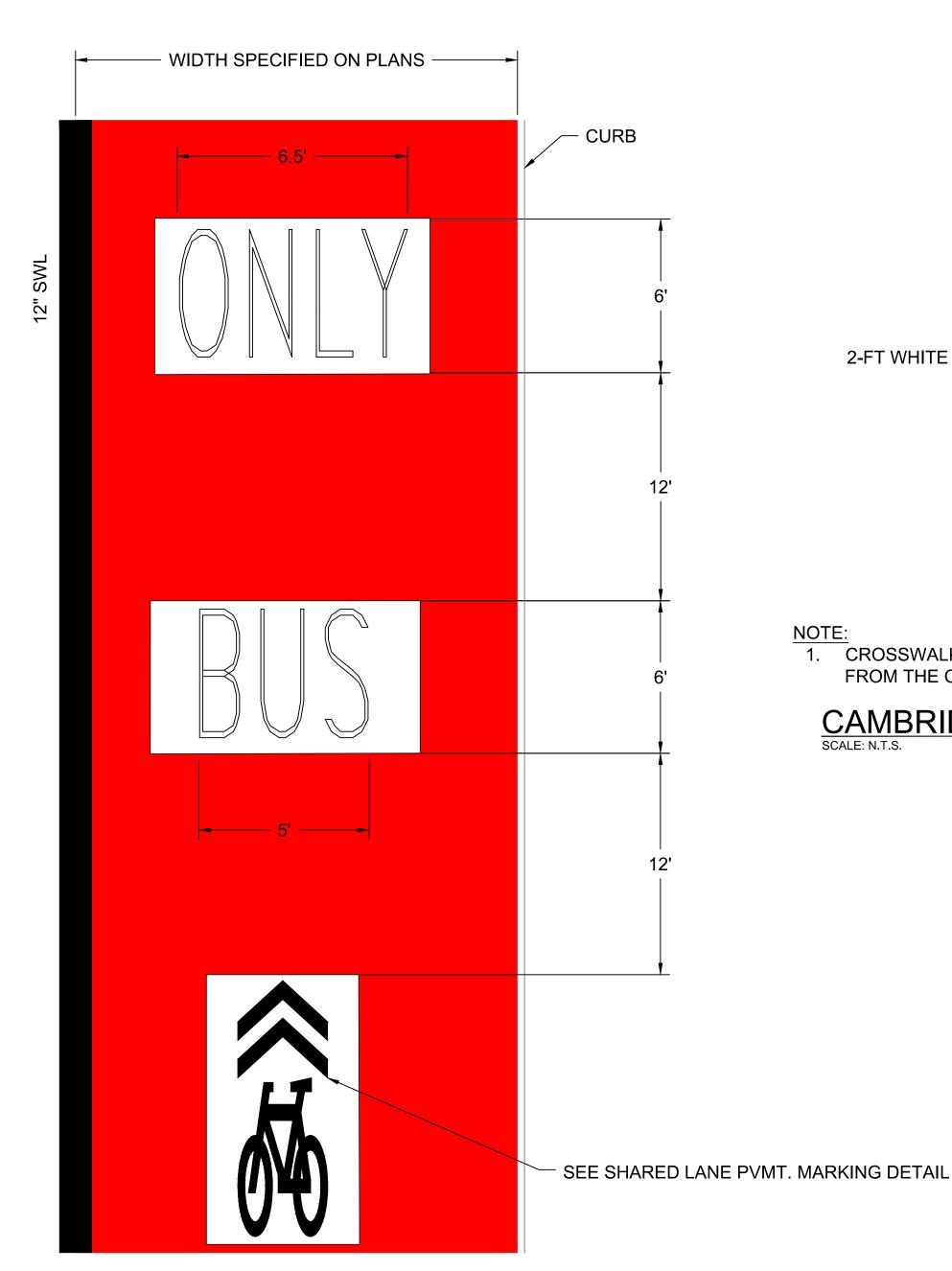


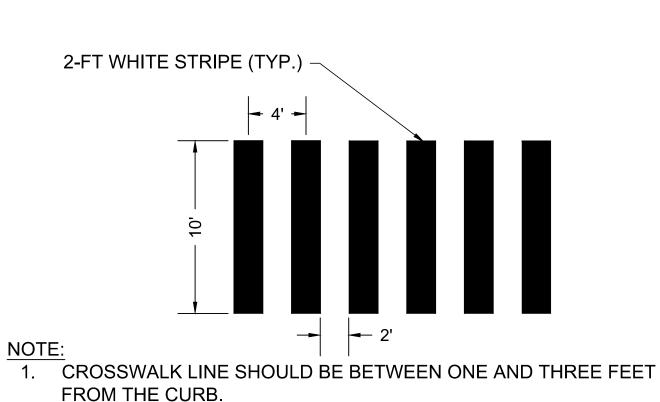
TWO-WAY BIKE LANE CROSSING PVMT. MARKING



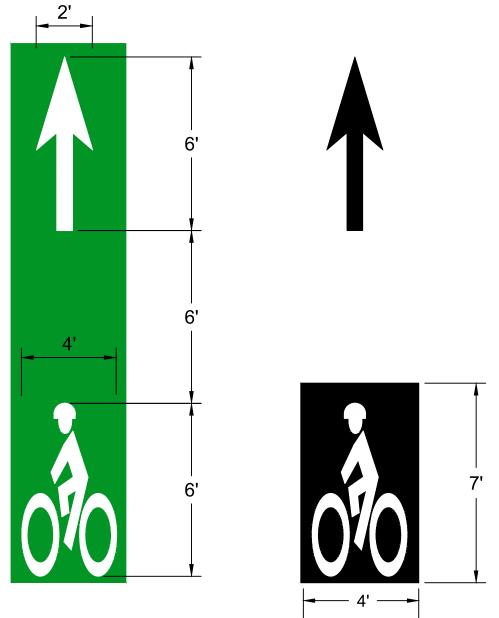
- REFER TO SIGN AND PAVEMENT MARKING PLAN FOR WIDTH OF BUFFER EXTENTS.
- 2. CENTER BICYCLE LANE SYMBOLS BETWEEN SWL/CURB AND DYLEX

TWO-WAY BUFFERED BIKE LANE PVMT. MARKING



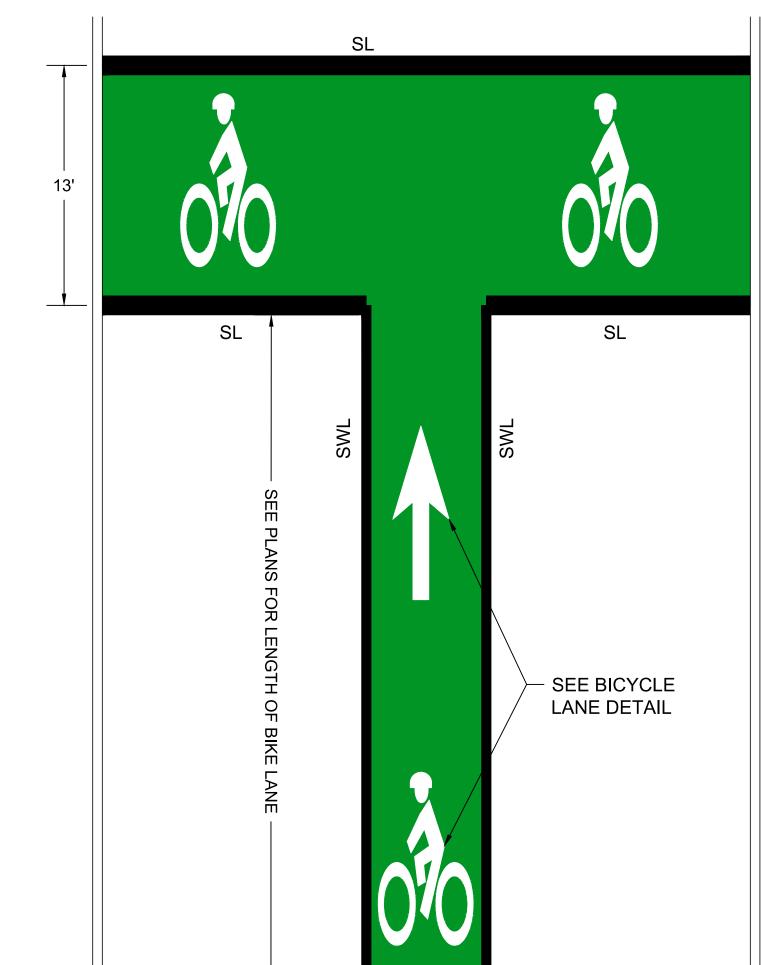


CAMBRIDGE STANDARD CROSSWALK



- 1. REFER TO FIGURE 9C-6 IN THE 2009 MUTCD FOR MORE DETAIL.
- 2. BICYCLE LANE MARKINGS PLACED ON GREEN CROSSING PAVEMENT MARKINGS SHALL BE PREFORMED THERMOPLASTIC.
- 3. BICYCLE LANE MARKING "BICYCLE RIDER" PLACED ON ROADWAY ASPHALT SHALL BE ENNIS-FLINT PREMARK BIKE CONTRAST PANEL WHITE W/ BLACK ITEM NUMBER PM600847L-BK (FIGURE N - BICYCLE RIDER) OR APPROVED

BICYCLE LANE PVMT. MARKING



PREFORMED GREEN THERMOPLASTIC.

SEE BICYCLE LANE DETAIL

NOTES:

1. CENTER BICYCLE LANE SYMBOLS BETWEEN DWLEX

ONE-WAY BIKE LANE CROSSING PVMT. MARKING

SEE PLANS FOR LIMITS OF COLORED BIKE LANES.

DWLEx

- CENTER BICYCLE LANE SYMBOLS BETWEEN BIKE LANE SWLS
- PLACE VEHICLE STOP LINE 13' IN ADVANCE OF THE BICYCLE STOP LINE. SEE PLAN SHEETS FOR BICYCLE BOX LOCATIONS AND SYMBOL LOCATIONS.

← 5' **←**

- DO NOT PLACE SYMBOLS ON LANE LINES, CROSSWALK LINES, OR STOP LINES.
- CENTER SYMBOLS BETWEEN VEHICLE STOP LINE AND BICYCLE STOP LINE.

INSTALL GREEN PAVEMENT SO THAT CROSSWALK MARKINGS ARE NOT DISTURBED.

BIKE BOX

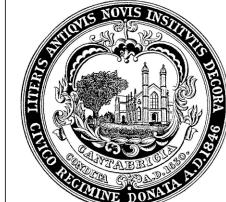
PS&E SUBMISSION

LINCOLN, RI 02865

TELE: (401) 648 - 7200

EMCMAHON





PROJECT #:	312638-01-001
DATE:	10/2023
DESIGNER:	J. VERESPEJ
DRAFTER:	J. VERESPEJ
REVIEWER:	C. MURPHY

a **Bowman** company 120 WATER ST 4TH FLOOR 350 MYLES STANDISH BLVD SUITE 103 TAUNTON, MA TELE: (508) 823 - 2245 14 BREAKNECK HILL RD SUITE 201

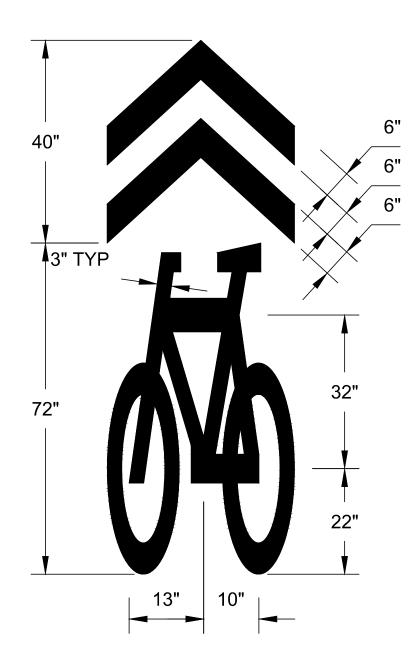
BOSTON, MA 02109 TELE: (617) 556 - 0020 FAX: (617) 556 - 0025 94 NORTH ELM STREET SUITE 210 WESTFIELD, MA

TELE: (413) 875 - 8855

REVISIONS	REV#
CONSTRUCTION DETAILS 01	SHEET#
ABERDEEN SIGNAL IMPROVEMENTS	
MOUNT AUBURN STREET	04
CAMBRIDGE, MA	5 1

SHEET# SHEETS

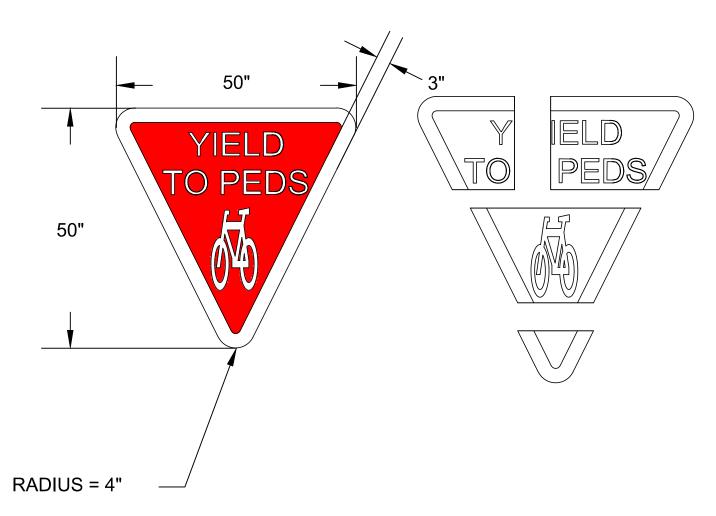
BUS BIKE LANE PAVMENT MARKING DETAIL



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

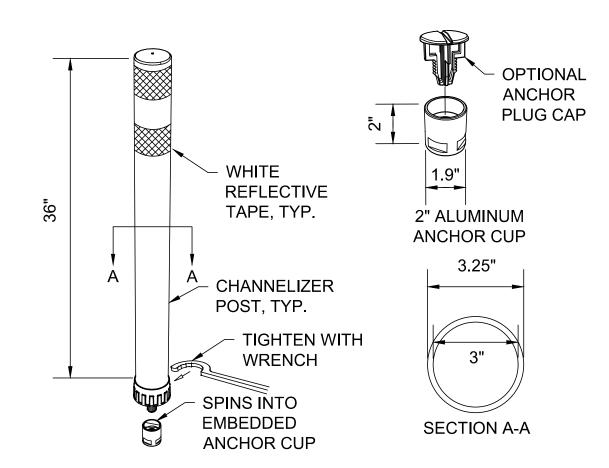
2. SHARED LANE MARKINGS SHALL BE PREFORMED THERMOPLASTIC.

SHARED LANE PVMT. MARKING SCALE: N.T.S.



- 1. BIKES YIELD TO PEDS PAVEMENT MARKING DETAIL SHALL BE MADE
- BY ENNIS-FLINT OR APPROVED EQUAL.
- 2. ENNIS-FLINT DETAIL 50" X 50" "YIELD TO PEDS" W/BIKE SYMBOL, DESIGN #21-658-01.

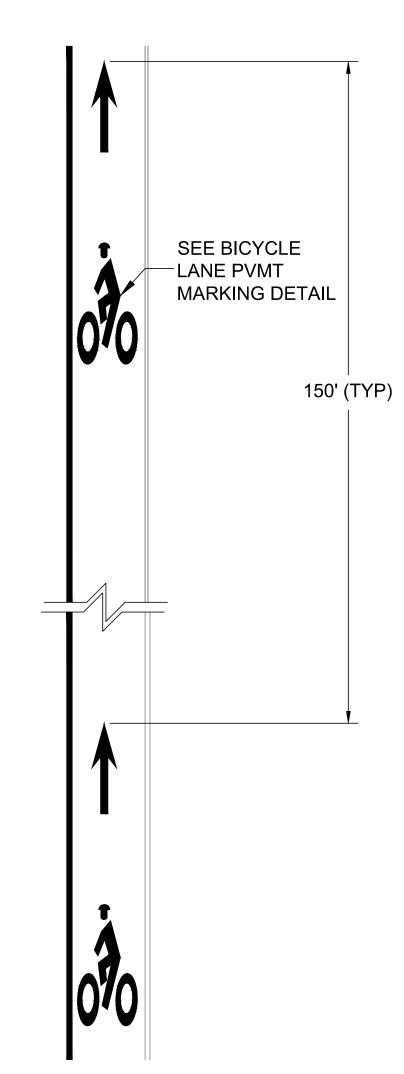
BIKES YIELD TO PEDS PAVEMENT MARKING DETAIL



NOTES:

- 1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
- 2. DIMENSIONS, MATERIALS, AND ATTACHMENTS MAY VARY BETWEEN MANUFACTURERS.
- 3. COLOR OF POST SHALL MATCH COLOR OF APPLICABLE EDGE LINE.
- 4. MANUFACTURER TO BE ON CURRENT APPROVED LIST OF MASSDOT QUALIFIED TRAFFIC SAFETY EQUIPMENT VENDORS.

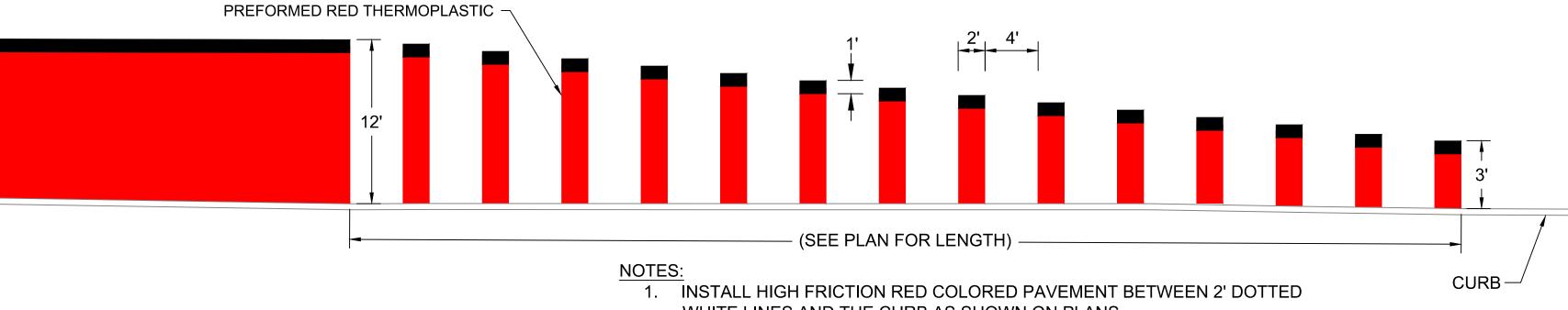
36" CORED BASE FLEXPOST DETAIL SCALE: N.T.S.



NOTES:

1. DESIGN PLANS SHOULD BE CONSULTED FOR VARIATIONS

BICYCLE LANE SYMBOL SPACING DETAIL



WHITE LINES AND THE CURB AS SHOWN ON PLANS.

2. INSTALL HIGH FRICTION RED COLORED PAVEMENT SO THAT CROSSWALK MARKINGS ARE NOT DISTURBED.

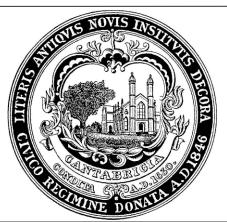
BUS BIKE LANE END TREATMENT

EMCMAHON

PS&E SUBMISSION

TELE: (401) 648 - 7200



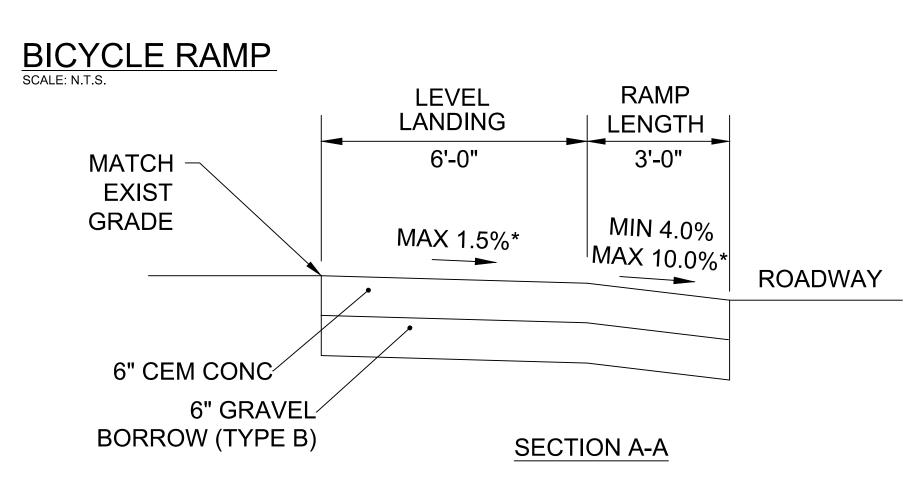


PROJECT #:	312638-01-001
	0.2000 0.001
DATE:	10/2023
DESIGNER:	J. VERESPEJ
DRAFTER:	J. VERESPEJ
REVIEWER:	C. MURPHY

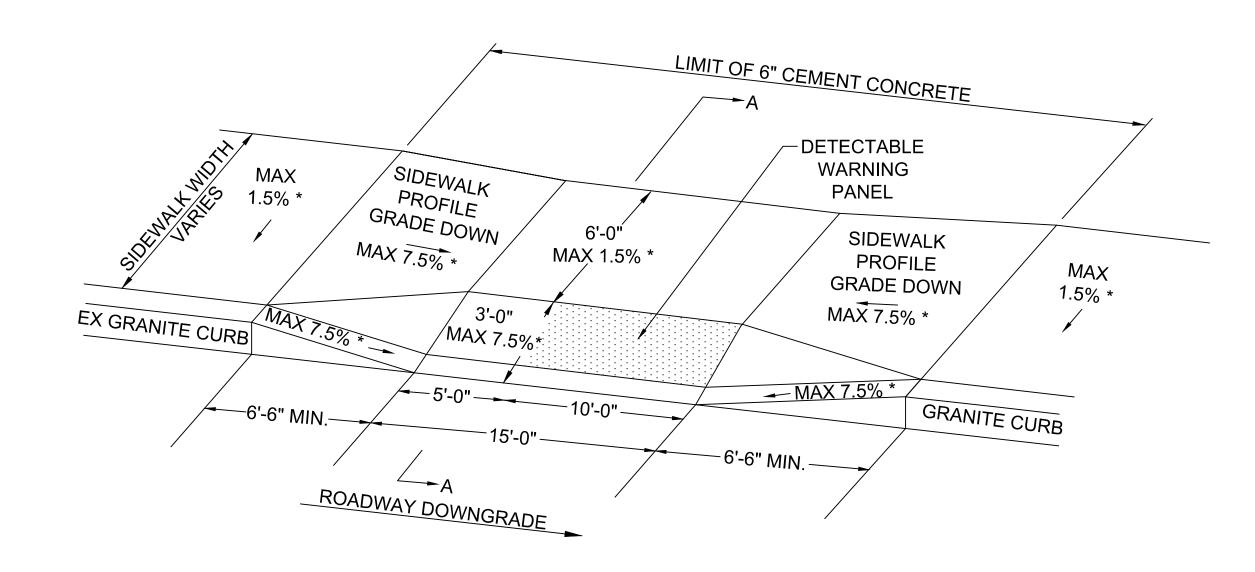
a	Bowman company
	120 WATER ST
350 MYLES STANDISH BLVI	D 4TH FLOOR
SUITE 103	BOSTON, MA 02109
TAUNTON, MA	TELE: (617) 556 - 0020
TELE: (508) 823 - 2245	FAX: (617) 556 - 0025
14 BREAKNECK HILL RD	94 NORTH ELM STREET
SUITE 201	SUITE 210
LINCOLN, RI 02865	WESTFIELD, MA

TELE: (413) 875 - 8855

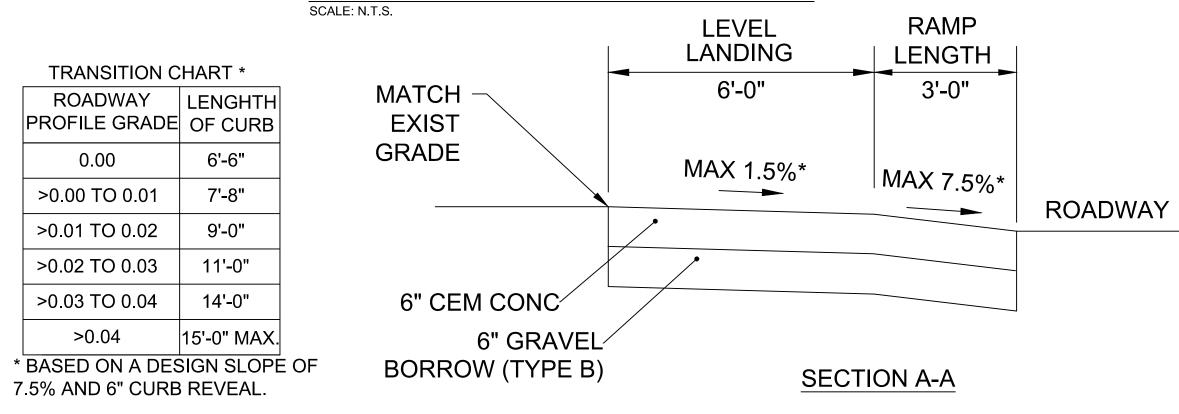
REVISIONS	REV#	DATE
CONSTRUCTION DETAILS 02		TOTAL
ABERDEEN SIGNAL IMPROVEMENTS	SHEET#	SHEETS
ADERDEEN SIGNAL IIVIPROVEIVIEN IS		
MOUNT AUBURN STREET	05	16
CAMBRIDGE, MA	UJ	
CAMDINDGE, MA		



* TOLERANCE FOR CONSTRUCTION = ±0.5%



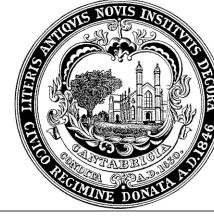
PEDESTRIAN & BICYCLE RAMP



* TOLERANCE FOR CONSTRUCTION = ±0.5%

PS&E SUBMISSION

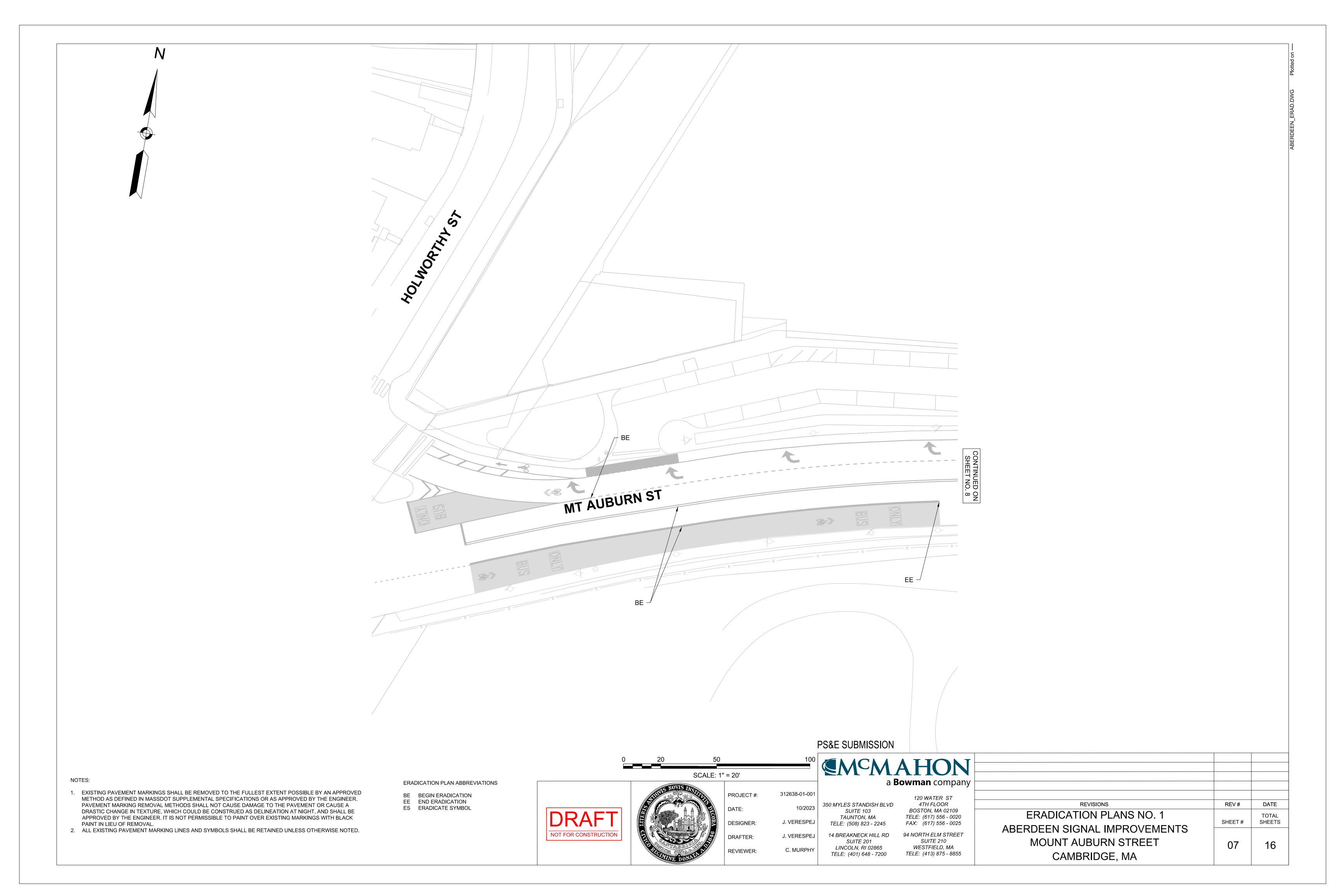


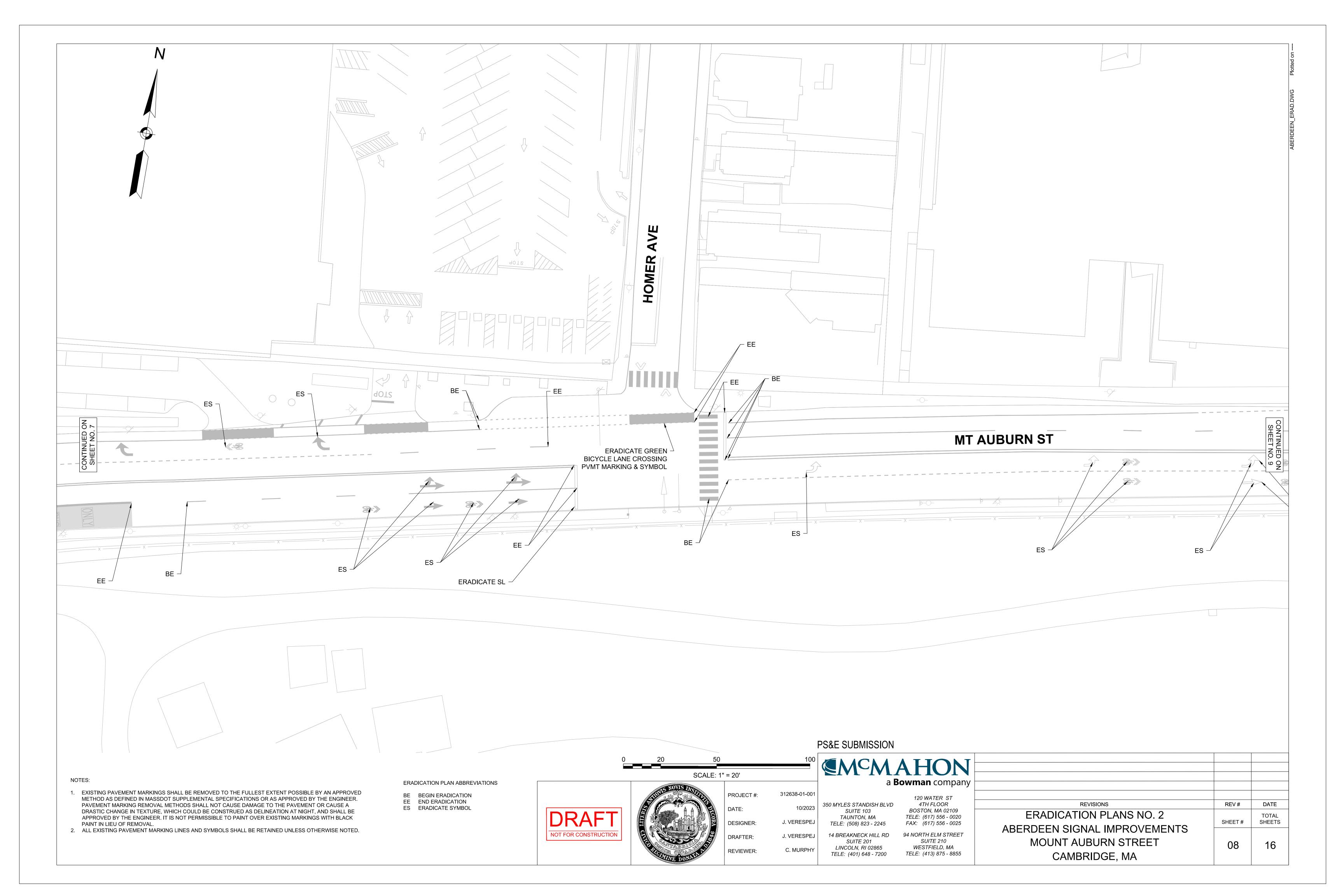


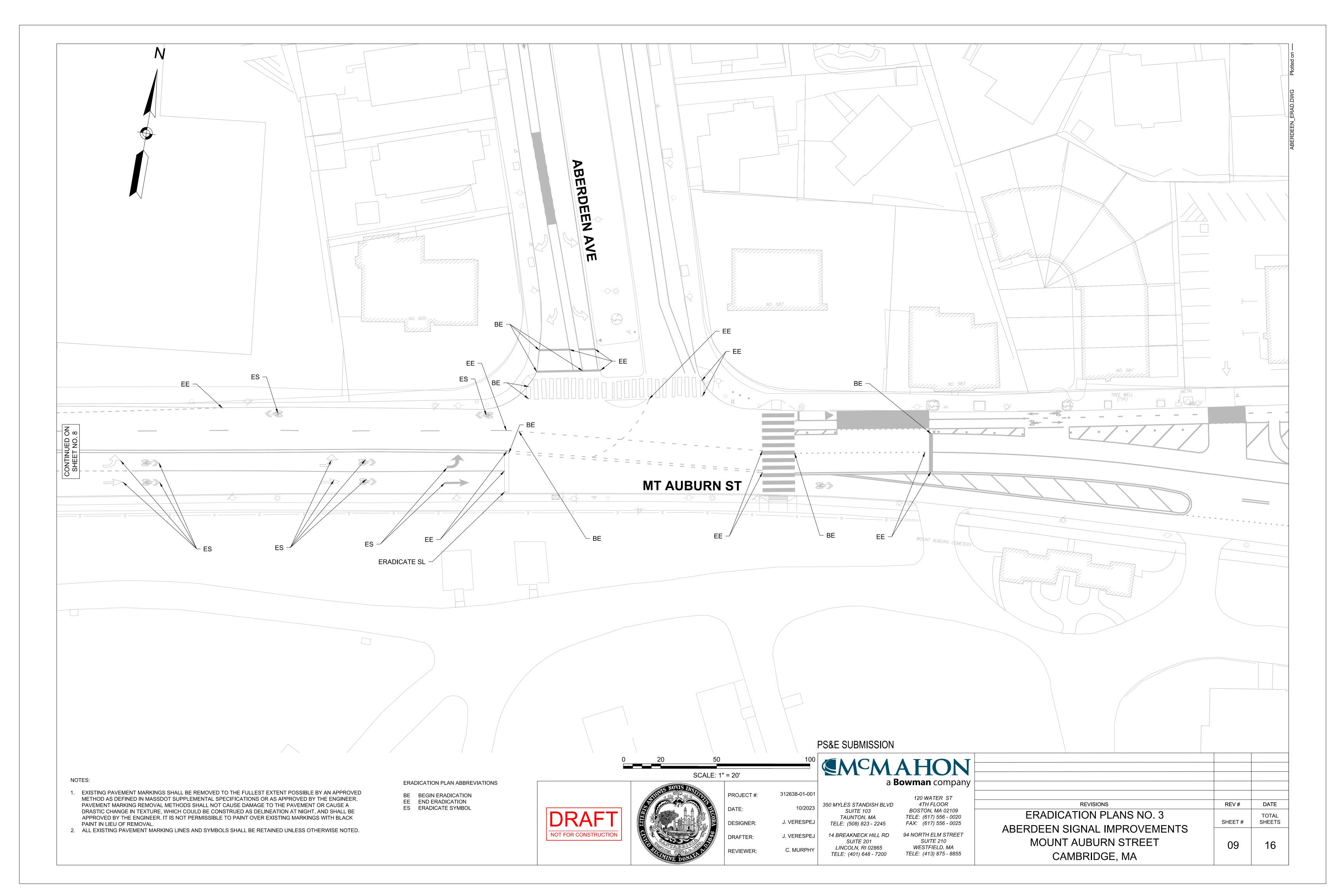
PROJECT #:	312638-01-001
DATE.	10/2023
DESIGNER.	J. VERESPEJ
DRAFTER:	J. VERESPEJ
REVIEWER:	0
REVIEWER:	C. MURPHY

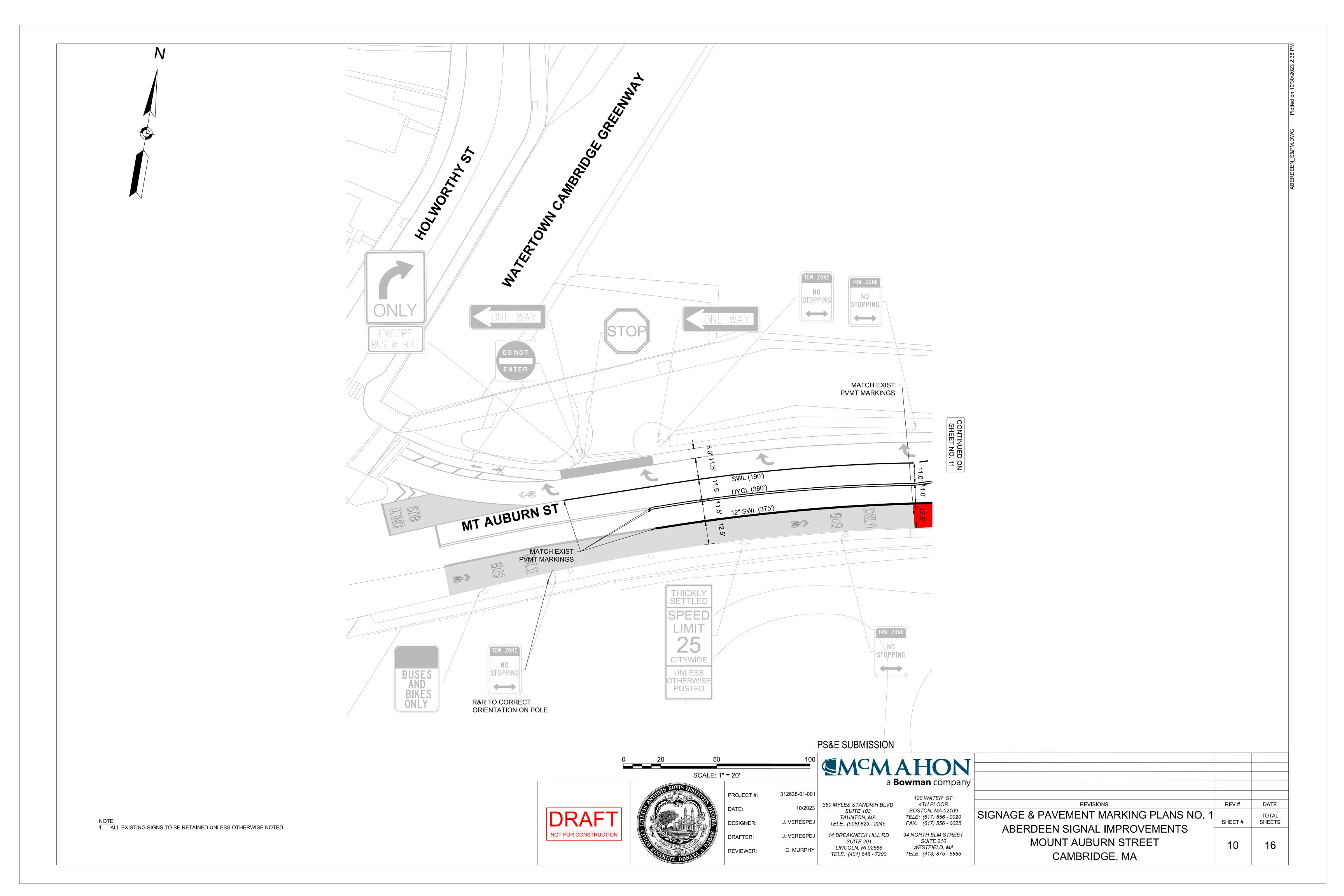
€M ^C M ₂ R	
a B	owman company
	120 WATER ST
350 MYLES STANDISH BLVD	4TH FLOOR
SUITE 103	BOSTON, MA 02109
TAUNTON, MA	TELE: (617) 556 - 0020
TELE: (508) 823 - 2245	FAX: (617) 556 - 0025
14 BREAKNECK HILL RD	94 NORTH ELM STREET
SUITE 201	SUITE 210
LINCOLN, RI 02865	WESTFIELD, MA
TELE: (401) 648 - 7200	TELE: (413) 875 - 8855

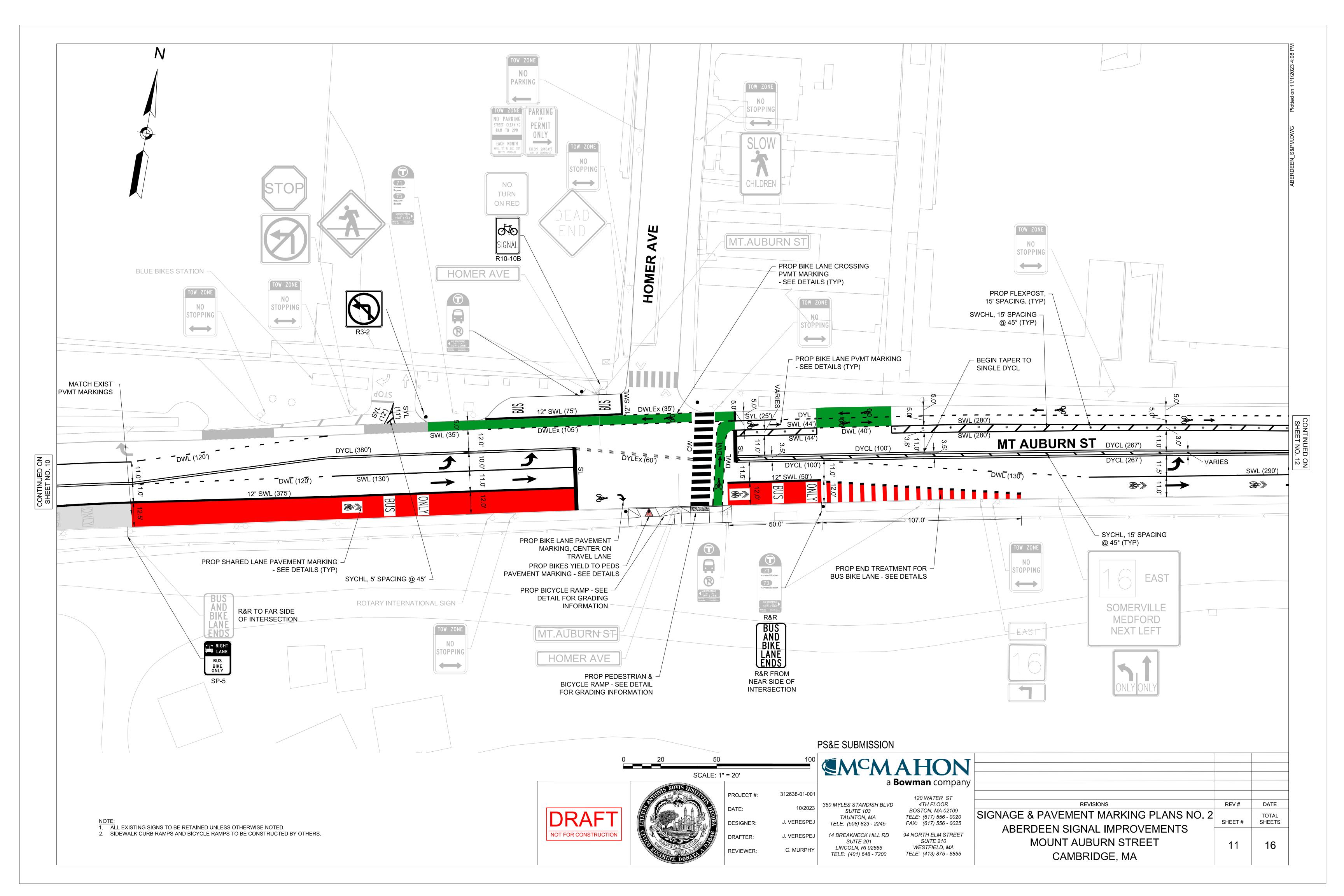
J ny			
	CONSTRUCTION DETAILS 03	REV#	DATE TOTAL SHEETS
-	ABERDEEN SIGNAL IMPROVEMENTS ABERDEEN AVENUE CAMBRIDGE, MA	06	16

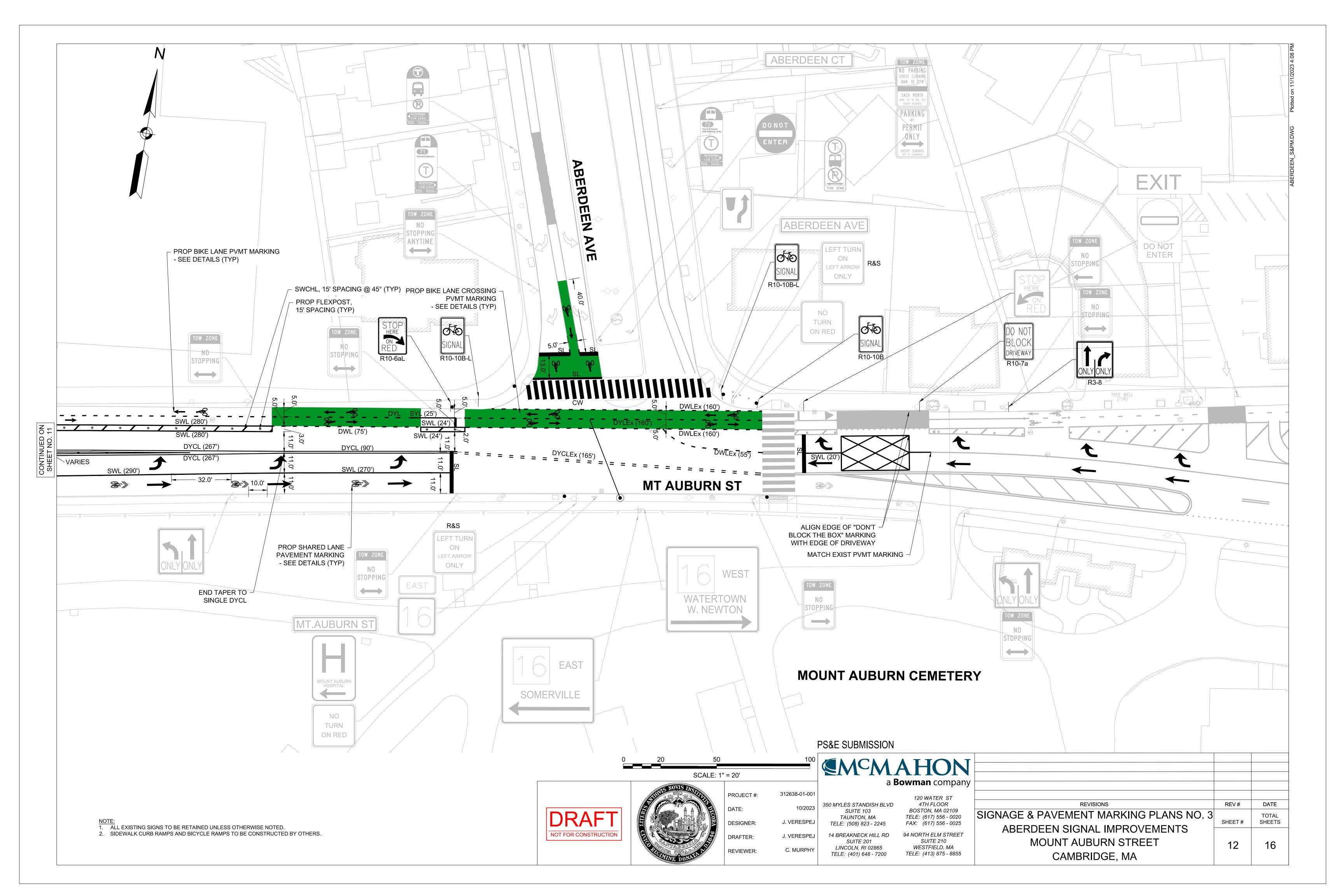










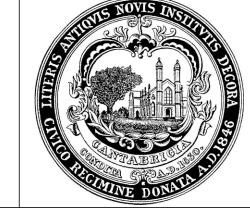


			T	RAFFIC SIGN	SUMMAR	RY (COI	NSTRUC	TION)				
IDENTIFICATION	SIZE OF	SIGN (IN)	TEXT	TEXT DIMENSIONS (IN)		NUMBER OF SIGNS	COLOR		POST SIZE AND NUMBER	UNIT AREA (SF)	AREA (SF)	
NUMBER -	WIDTH	HEIGHT	. —	LETTER HEIGHT VERTICAL SPACING	ARROW RTE REQUIRED		BACKGROUND	LEGEND	BORDER	REQUIRED		
R10-10B	12	18	SIGNAL	SEE MUTCD STANDARDS		2	SEE	: MUTCD STANDA	RDS	TR SIG POST (1) MA POST (1)	1.50	3.00
R10-10B-L	18	24	SIGNAL							TR SIG POST (2)	3.00	6.00
R10-6aR	24	30	STOP HERE ON RED							P5-1	5.00	5.00
R3-2	30	30				1				P5-1	6.25	6.25
R3-8	30	30	ONLY ONLY			1				LIGHT POST	6.25	6.25
R10-7a	24	30	DO NOT BLOCK DRIVEWAY			1				LIGHT POST	5.00	5.00
SP-5	24	30	RIGHT LANE BUS BIKE ONLY	3D 1.3 3D 2.2 3D 4.5 3D 2 3D 2 3D 3		1	BLACK/WHITE	WHITE/BLACK	BLACK	UTIL POLE	5.00	5.00
					•	,				,	TOTAL:	36.50

PS&E SUBMISSION

SUITE 103





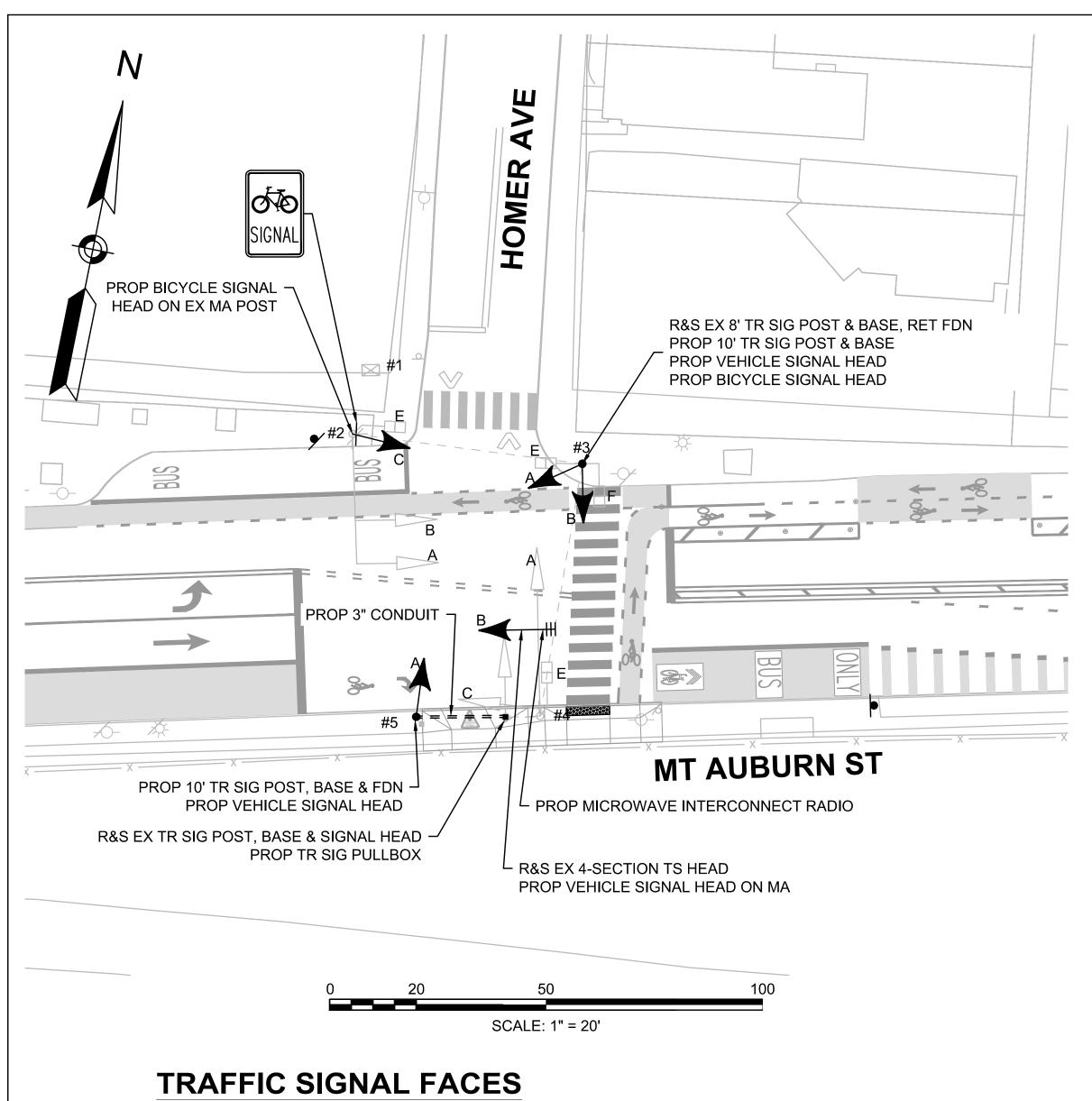
PROJECT #: DESIGNER: REVIEWER:

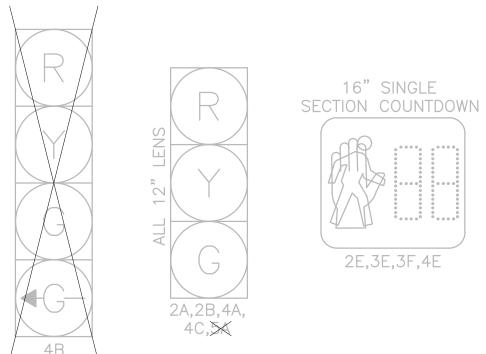
EMCMAHONa **Bowman** company 312638-01-001 10/2023 J. VERESPEJ J. VERESPEJ

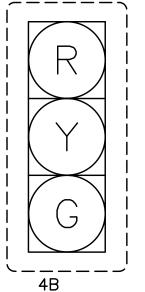
TAUNTON, MA TELE: (508) 823 - 2245 14 BREAKNECK HILL RD SUITE 201 LINCOLN, RI 02865 TELE: (401) 648 - 7200 C.MURPHY

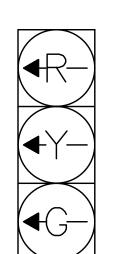
120 WATER ST 4TH FLOOR BOSTON, MA 02109 TELE: (617) 556 - 0020 FAX: (617) 556 - 0025 350 MYLES STANDISH BLVD 94 NORTH ELM STREET SUITE 210 WESTFIELD, MA TELE: (413) 875 - 8855

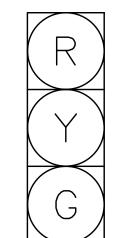
REVISIONS REV# DATE TRAFFIC SIGN SUMMARY NO. 1 TOTAL SHEETS SHEET# ABERDEEN SIGNAL IMPROVEMENTS MOUNT AUBURN STREET 13 CAMBRIDGE, MA

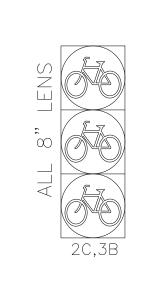


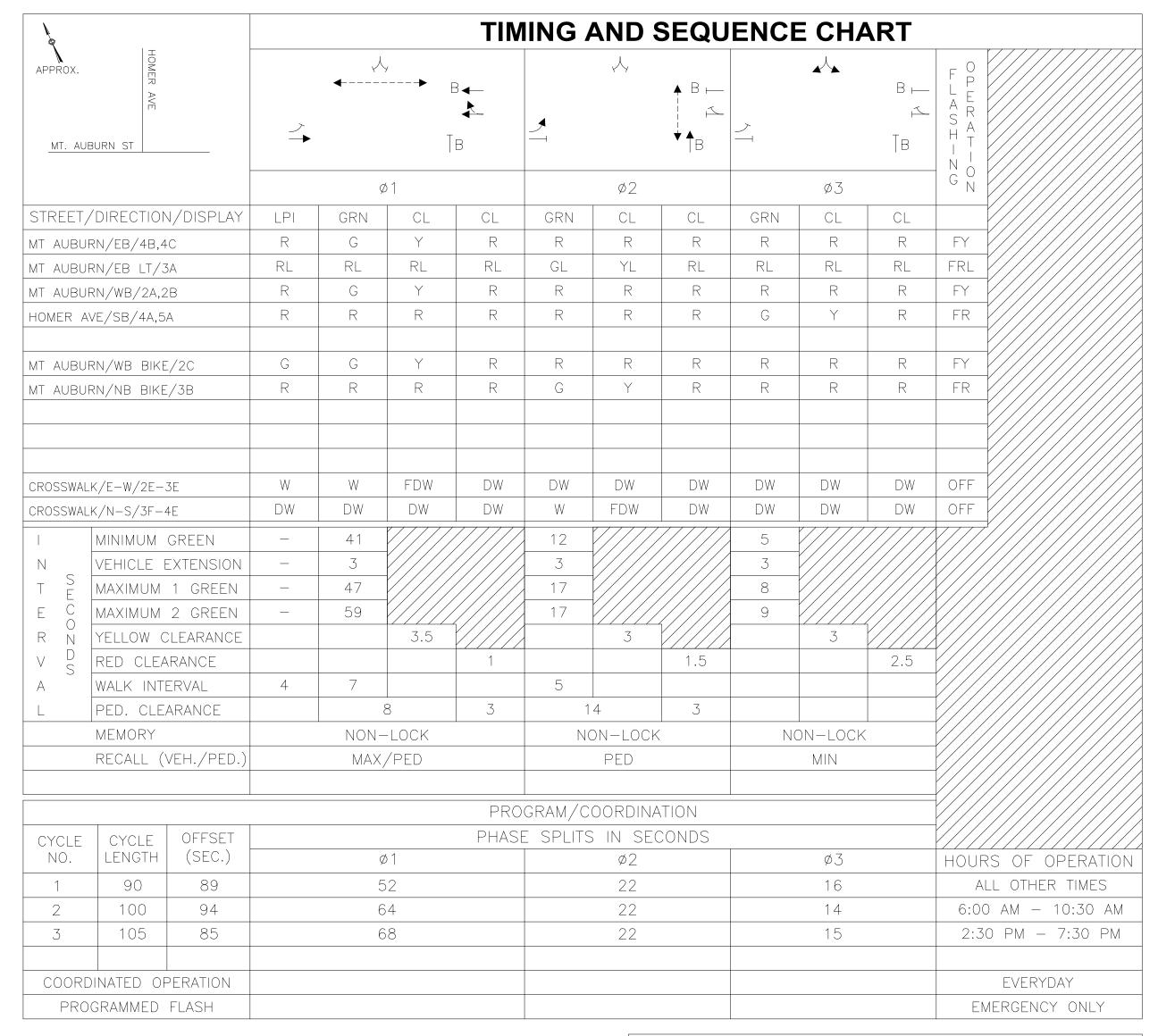












TECHNICAL NOTES 1. PEDESTRIAN PHASES REST IN WALK.

IF THE ASSIGNED RIGHT OF WAY FOR ANY MOVEMENT IS TO REMAIN IN EFFECT DURING THE NEXT CALLED PHASE, THE SIGNAL INDICATIONS FOR THAT MOVEMENT WILL NOT CHANGE DURING THE CLEARANCE INTERVAL.

MAJOR ITEMS REQUIRED

30 LF 3" ELECTRICAL CONDUIT TYPE NM - PLASTIC (UL)

QUANTITY	IIEM
1	3 SECTION — 12" LENS (RL,YL,GL) SIGNAL HEAD
2	3 SECTION - 12" LENS (R,Y,G) SIGNAL HEAD
2	3-SECTION - 8" LENS (R,Y,G) BIKE SIGNAL HEAD
1	TRAFFIC SIGNAL BACKPLATE
1	10' TRAFFIC SIGNAL POST, BASE, & FOUNDATION (STEEL) WITH BLACK POWDER COAT
1	10' TRAFFIC SIGNAL POST & BASE (STEEL) WITH BLACK POWDER COAT
1	MICROWAVE WIRELESS INTERCONNECT

PLUS ALL NECESSARY DUCT, CABLE, LABOR, MISCELLANEOUS MATERIAL AND EQUIPMENT TO COMPLETE THE INSTALLATION.

PREFERENTIAL PHASING SEQUENCE

PS&E SUBMISSION



PULL BOX 12" X 12"

312638-01-001 PROJECT #: DESIGNER: J. VERESPEJ DRAFTER: C. MURPHY REVIEWER:

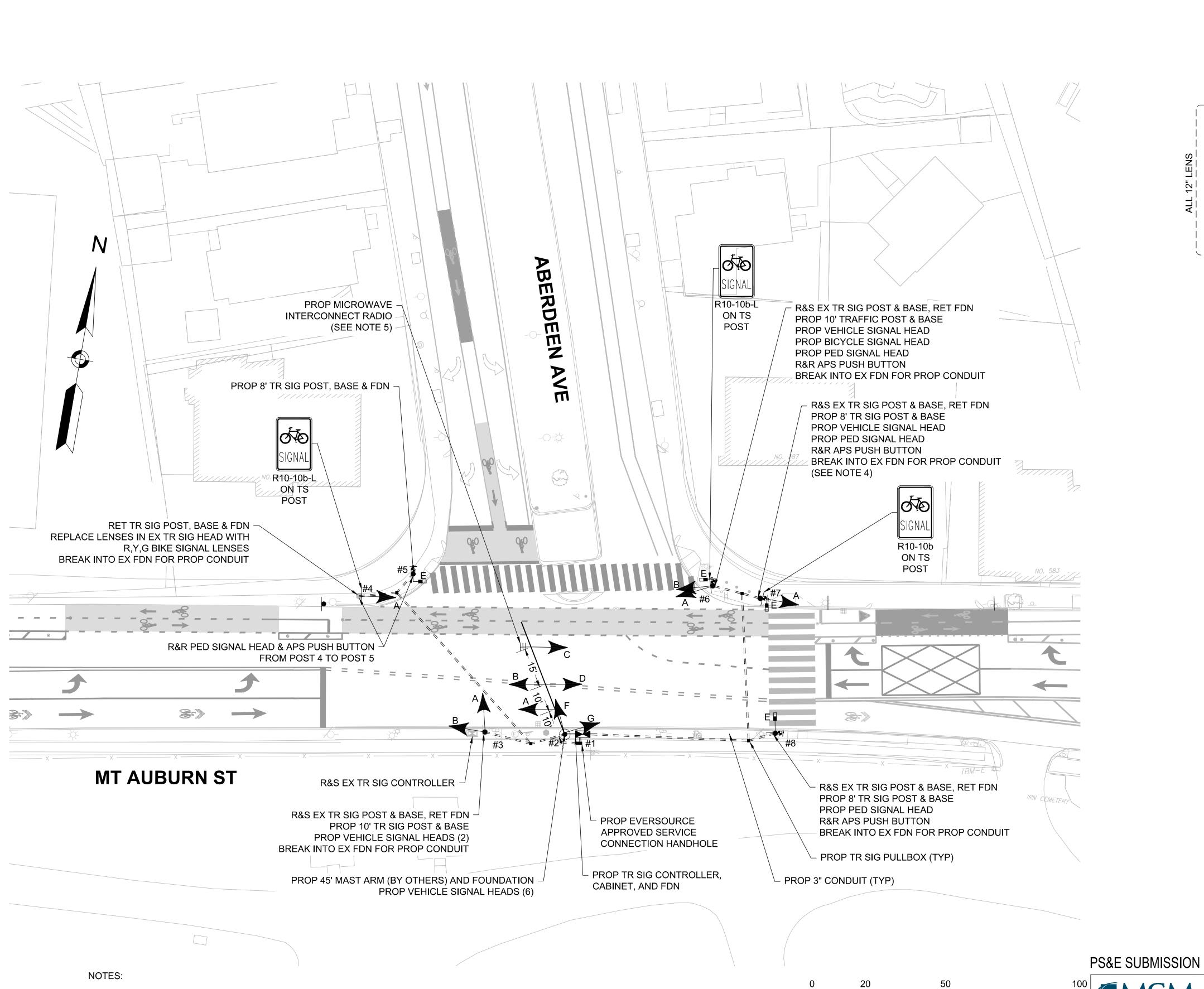
350 MYLES STANDISH BLVD 10/2023 C. MURPHY

SUITE 103 TAUNTON, MA TELE: (508) 823 - 2245 14 BREAKNECK HILL RD SUITE 201 LINCOLN, RI 02865 TELE: (401) 648 - 7200

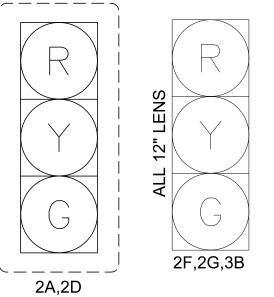
120 WATER ST 4TH FLOOR BOSTON, MA 02109 TELE: (617) 556 - 0020 FAX: (617) 556 - 0025 94 NORTH ELM STREET SUITE 210

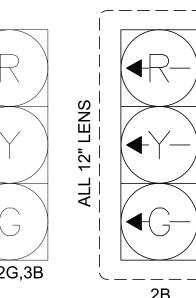
a **Bowman** company WESTFIELD, MA TELE: (413) 875 - 8855

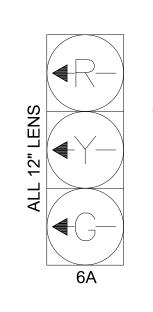
REVISIONS REV# DATE TRAFFIC SIGNAL PLANS NO. 1 SHEET# SHEETS ABERDEEN SIGNAL IMPROVEMENTS HOMER AVE @ MT AUBURN ST 14 CAMBRIDGE, MA

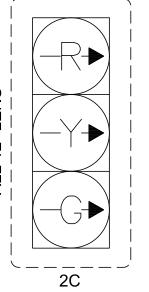


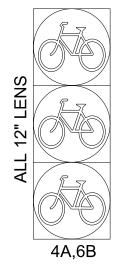
PROPOSED SIGNAL FACES

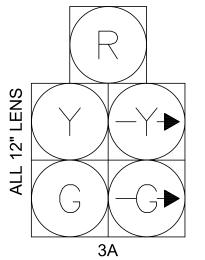














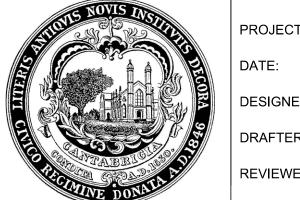




- 1) EXISTING SIGNAL SYSTEM TO REMAIN OPERATIONAL UNTIL PROPOSED SIGNAL SYSTEM IS PUT INTO SERVICE.
- 2) ANY EXISTING CONDUIT SHALL BE ABANDONED IN PLACE.
- 3) EXISTING SIGNAL EQUIPMENT SHALL BE REMOVED AND STACKED UNLESS OTHERWISE NOTED.
- 4) TRAFFIC SIGNAL HEAD 7A SHALL BE SIDE MOUNTED AT A HEIGHT OF 4.5' FROM BOTTOM OF SIGNAL HEAD TO TOP OF SIDEWALK.
- 5) MICROWAVE INTERCONNECT RADIOS SHALL BE COMNET NWK1 RADIOS OR APPROVED EQUAL. MICROWAVE INTERCONNECT RADIO SHALL BE PAIRED WITH PROPOSED MICROWAVE INTERCONNECT RADIO AT INTERSECTION OF MOUNT AUBURN STREET @ HOMER AVENUE. CONTRACTOR TO COORDINATE WITH CITY OF CAMBRIDGE FOR PLACEMENT.

SCALE: 1" = 20' DRAFT

NOT FOR CONSTRUCTION



312638-01-001 PROJECT #: 10/2023 C. MURPHY DESIGNER: J. VERESPEJ C. MURPHY **REVIEWER:**

a **Bowman** company

350 MYLES STANDISH BLVD SUITE 103 TAUNTON, MA TELE: (508) 823 - 2245

14 BREAKNECK HILL RD SUITE 201 LINCOLN, RI 02865 TELE: (401) 648 - 7200

120 WATER ST 4TH FLOOR BOSTON, MA 02109 TELE: (617) 556 - 0020 FAX: (617) 556 - 0025 94 NORTH ELM STREET SUITE 210

WESTFIELD, MA

TELE: (413) 875 - 8855

REVISIONS	REV#	DATE
TRAFFIC SIGNAL PLANS NO. 2		TOTAL
ABERDEEN SIGNAL IMPROVEMENTS	SHEET#	SHEETS
ABERDEEN AVE @ MT AUBURN ST	15	16
CAMBRIDGE, MA		

		TIMING AND SEQUENCE CHART																						
APPROX.		→ B	•	В⊢	•	·	•		7 4	Ω.	→B	√ ∖	В⊢	l → B	7 \	B⊢–	— В	7 \	В—	— В	7 \	В—	F O	
MT. AUBURN ST		<u>≠</u>			→B 		B ←	→ B △		B ► _	_ 			<u> </u>		†	<u>→</u>					←	PERAT	
			Ø1			ø2			ø3			Ø4			ø5			Ø6			ø9		NON	
STREET/DIRECTION/DI	ISPLAY	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL		
MT AUBURN/EB/2A,3B		R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	FY	
MT AUBURN/EB LT/2B,6A	4	GL	YL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	FRL	
MT AUBURN/WB/2D,2G		R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	FY	
MT AUBURN/WB RT/2C		RR	RR	RR	RR	RR	RR	GR	YR	RR	RR	RR	RR	RR	RR	RR	RR	RR	RR	RR	RR	RR	FRR	
ABERDEEN/SB/2F		R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	FR	
ABERDEEN/SB RT/3A		GR	YR	R	R	R	R	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	FR	
MT AUBURN/WB BIKE/4A	,7A	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	FR	
MT AUBURN/EB BIKE/6B		R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	FR	
CROSSWALK/E-W/5E-6E		DW	DW	DW	W/FDW	FDW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	OFF	
CROSSWALK/N-S/7E-8E		DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	DW	DW	DW	DW	DW	DW	DW	OFF	
I MINIMUM GRE	EN	14			5			5			5			_			5			5				
N VEHICLE EXTE	ENSION	3			3			3			3			_			3			3				
T S MAXIMUM 1 (GREEN	14			28			13			11			_			48			48				
E C MAXIMUM 2 (GREEN	14			28			26			17			_			61			61				
R N YELLOW CLEA	RANCE		3			3.5			3			3						3.5			3.5			
V D RED CLEARAN	ICE			3			2.5			2			4			3			2.5			2.5		
A WALK INTERVA	AL				5									5										
L PED. CLEARAI	NCE				2	26	3								12	3								
MEMORY	MEMORY NON-LOCK NON-LOCK			,	NON-LOCK NON-LOCK						- NON-LOCK			NON-LOCK										
RECALL (VEH.	./PED.)		MIN			MIN			MIN			MIN			NONE			MIN			MIN			
											PROGRA	M/COOR	DINATION											
0 0 0 0 0 0	FFSET							T		Pł	HASE S	PLITS IN	SECONI)S										
	SEC.)		Ø1			Ø2			ø3			Ø4			ø5			Ø6			Ø9			S OF OPERATION
1 90	0		20			34			18			18			20			52			52			OTHER TIMES
2 100 0 20 34		22			24			20		56			56				AM - 10:30 AM							
3 105	0		20			34			33			18			20			67			67		2:30	PM - 7:30 PM
COORDINATED OPERA	ATION																							EVERYDAY
PROGRAMMED FLA																							FMF	ERGENCY ONLY

QUANTITY	HEM
1	45' MAST ARM ASSEMBLY, BASE, & FOUNDATION (STEEL) WITH BLACK POWDER COAT (BY OTHERS)
1	8' TRAFFIC SIGNAL POST, BASE, & FOUNDATION (STEEL) WITH BLACK POWDER COAT
2	8' TRAFFIC SIGNAL POST & BASE (STEEL) WITH BLACK POWDER COAT
2	10' TRAFFIC SIGNAL POST & BASE (STEEL) WITH BLACK POWDER COAT
1	TS-2 TYPE 1 SIGNAL CONTROLLER (EAGLE SIEMENS M60), CABINET (TYPE M), AND FOUNDATION
1	3 SECTION - 4" LENS (R,Y,G) BIKE SIGNAL HEAD
2	3 SECTION - 12" LENS (R,Y,G) BIKE SIGNAL HEAD
1	3 SECTION - 12" LENS (RR,YR,GR) SIGNAL HEAD
2	3 SECTION - 12" LENS (RL,YL,GL) SIGNAL HEAD
5	3 SECTION - 12" LENS (R,Y,G) SIGNAL HEAD
1	5 SECTION - 12" LENS (R,Y,G,YR,GR) SIGNAL HEAD
4	TRAFFIC SIGNAL BACKPLATE
3	16" - PEDESTRIAN L.E.D SIGNAL COUNTDOWN INDICATION
1	MICROWAVE WIRELESS INTERCONNECT
300 LF	3" ELECTRICAL CONDUIT TYPE NM — PLASTIC (UL)
4	PULL BOX 12" X 12"
1	SERVICE CONNECTION EVERSOURCE APPROVED HANDHOLE
	PLUS ALL NECESSARY DUCT, CABLE, LABOR, MISCELLANEOUS MATERIAL AND EQUIPMENT TO COMPLETE THE INSTALLATION.

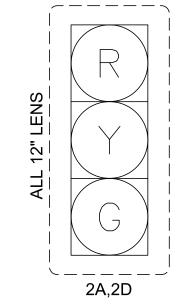
MAJOR ITEMS REQUIRED

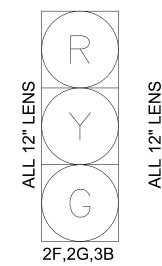
TECHNICAL NOTES 1. PEDESTRIAN PHASES REST IN WALK.

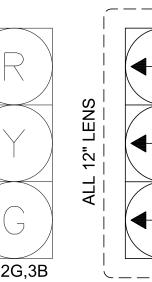
2. IF THE ASSIGNED RIGHT OF WAY FOR ANY MOVEMENT IS TO REMAIN IN EFFECT DURING THE NEXT CALLED PHASE, THE SIGNAL INDICATIONS FOR THAT MOVEMENT WILL NOT CHANGE DURING THE CLEARANCE INTERVAL.

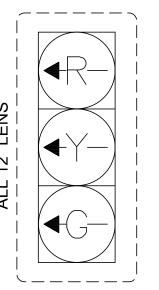
3. PEDESTRIAN TIMES PROVIDED UPON PEDESTRIAN ACTUATION.

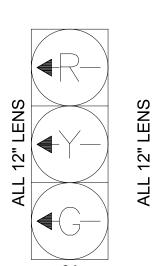
PROPOSED SIGNAL FACES

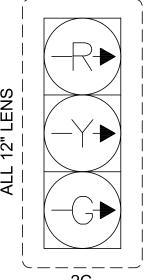


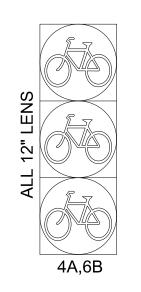


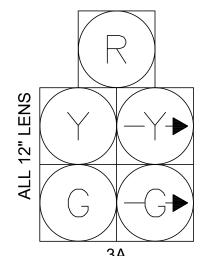










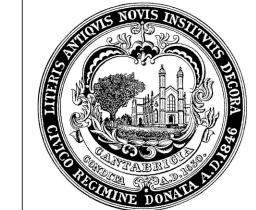












PROJECT #: DESIGNER: C. MURPHY REVIEWER:

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	REVISIONS	REV#	DATE	
)	TRAFFIC SIGNAL PLANS NO. 3		TOTAL	
5	ABERDEEN SIGNAL IMPROVEMENTS	SHEET#	SHEETS	
T				
	ABERDEEN AVE @ MT AUBURN ST	16	16	
5	CAMBRIDGE, MA		- -	
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PREFERENTIAL PHASING SEQUENCE