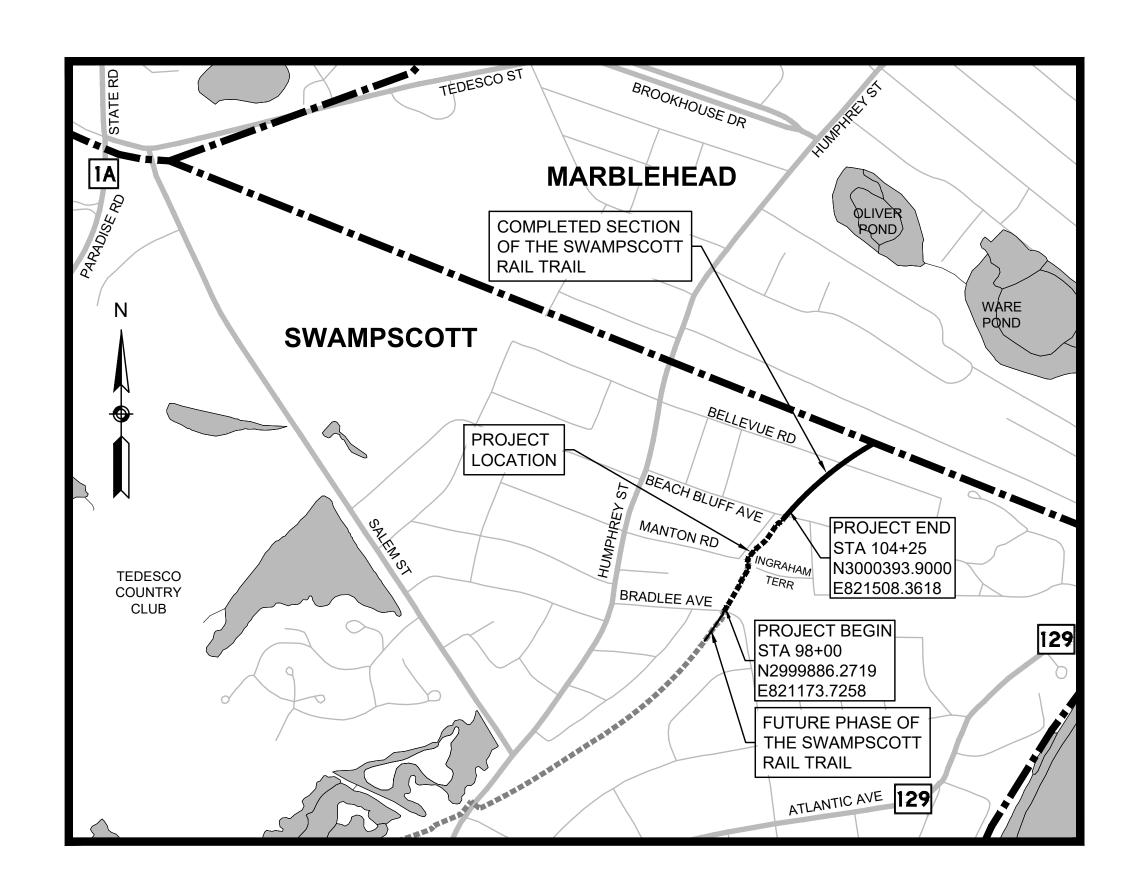
TOWN OF SWAMPSCOTT MASSACHUSETTS



BID PLANS

INDEX

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THESE PLANS ARE SUPPLEMENTED BY THE OCTOBER 2017 CONSTRUCTION STANDARD DETAILS, THE 2015 OVERHEAD SIGNAL STRUCTURE AND FOUNDATION STANDARD DRAWINGS, MASSDOT TRAFFIC MANAGEMENT PLANS AND DETAIL DRAWINGS, THE 1990 STANDARD DRAWINGS FOR SIGNS AND SUPPORTS, THE 1968 STANDARD DRAWINGS FOR TRAFFIC SIGNALS AND HIGHWAY LIGHTING, AND THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK.

0 500 1,000 1,500 2,000 SCALE: 1" = 500'

LENGTH OF PROJECT = 625.00 FEET = 0.118 MILES



EXISTING	DLS		TRAFFIC SYMBOLS			ABBREVIATIO	DNS	_	SWAMPSCOTT
	PROPOSED	DESCRIPTION				GENERAL			SWAMPSCOTT RAIL TRAIL
☐ JB	JB	JERSEY BARRIER	EXISTING	PROPOSED	DESCRIPTION	AADT	ANNUAL AVERAGE DAILY TRAFFIC		STATE SUBMISSION SHEET TOTAL NO. SHEETS
∄ ⊕ ⊕ СВ	СВ	CATCH BASIN	01	Ø 1	CONTROLLER PHASE ACTUATED	ABAN ADJ	ABANDON ADJUST		MA FOR BID - 2020-09-11 2 19
<u> </u>	<u>(⊞)</u> ⊗ FP	CATCH BASIN CURB INLET		O		APPROX.	APPROXIMATE		STANTEC PROJECT NO. 179410549
G GP	G GP	FLAG POLE GAS PUMP			TRAFFIC SIGNAL HEAD (SIZE AS NOTED)	A.C.	ASPHALT CONCRETE		LEGEND & ABBREVIATIONS
□ MB	□ MB	MAIL BOX			MIDE LOOP DETECTOR (CL., CLTVP LINI FOR OTHERWISE OPERIED)	ACCM PIPE	ASPHALT COATED CORRUGATED METAL PIPE		
		POST SQUARE		Ш	WIRE LOOP DETECTOR (6' x 6' TYP UNLESS OTHERWISE SPECIFIED)	BIT.	BITUMINOUS		
\circ	0	POST CIRCULAR	7	7	VIDEO DETECTION CAMERA	BC	BOTTOM OF CURB		
⊕ WELL	⊕ WELL	WELL	$\triangleright\Box$	>	MICROWAVE DETECTOR	BD. BL	BOUND BASELINE		
- EHH	□ EHH	ELECTRIC HANDHOLE	\oplus	•	PEDESTRIAN PUSH BUTTON, SIGN (DIRECTIONAL ARROW AS SHOWN) AND SADDLE	BLDG	BUILDING	ABBREVIAT	ΓΙΟΝS (cont.)
o GG	O O GG	FENCE GATE POST GAS GATE	*	*	EMERGENCY PREEMPTION CONFIRMATION STROBE LIGHT	ВМ	BENCHMARK	GENERAL	<u>L</u>
Ð BHL #	⊕ BHL#	BORING HOLE	*			ВО	BY OTHERS	R	RADIUS OF CURVATURE
⊕ MW #	→ MW #	MONITORING WELL	<	—	VEHICULAR SIGNAL HEAD	BOS	BOTTOM OF SLOPE	R&D	REMOVE AND DISPOSE
TP #	T P#	TEST PIT	≪	₩—	VEHICULAR SIGNAL HEAD, OPTICALLY PROGRAMMED	BR.	BRIDGE	RCP	REINFORCED CONCRETE PIPE
P	P	HYDRANT	<	←	FLASHING BEACON	CB CBCI	CATCH BASIN CATCH BASIN WITH CURB INLET	RD RDWY	ROAD ROADWAY
*	*	LIGHT POLE			PEDESTRIAN SIGNAL HEAD, (TYPE AS NOTED OR AS SPECIFIED)	CC	CEMENT CONCRETE	REM	REMOVE
CO.BD.		COUNTY BOUND			·	CCM	CEMENT CONCRETE MASONRY	RET	RETAIN
0 4		GPS POINT	⊠ RRSG	☑ RRSG	RAILROAD SIGNAL	CEM	CEMENT	RET WALL	RETAINING WALL
	(b)	CABLE MANHOLE DRAINAGE MANHOLE		•	SIGNAL POST AND BASE (ALPHA-NUMERIC DESIGNATION NOTED)	CI	CURB INLET	ROW	RIGHT OF WAY
(E)	Œ	ELECTRIC MANHOLE	○	20'	MAST ARM, SHAFT AND BASE (ARM LENGTH AS NOTED)	CIP	CAST IRON PIPE	RR B*B	RAILROAD
<u>G</u>	<u> </u>	GAS MANHOLE			HIGH MAST POLE OR TOWER	CLF CL	CHAIN LINK FENCE CENTERLINE	R&R R&S	REMOVE AND RESET REMOVE AND STACK
M	(M)	MISC MANHOLE				CL CMP	CENTERLINE CORRUGATED METAL PIPE	RT	RIGHT
S	<u>s</u>	SEWER MANHOLE		0	SIGN AND POST	CSP	CORRUGATED METAL PIPE CORRUGATED STEEL PIPE	SB	STONE BOUND
T	① -	TELEPHONE MANHOLE	00	00	SIGN AND POST (2 POSTS)	CO.	COUNTY	SHLD	SHOULDER
(W)	w	WATER MANHOLE		** 20' •	MAST ARM WITH LUMINAIRE	CONC	CONCRETE	SMH	SEWER MANHOLE
MHB MON	■ MHB	MASSACHUSETTS HIGHWAY BOUND MONUMENT		— —	OPTICAL PRE-EMPTION DETECTOR	CONT	CONTINUOUS	ST	STREET
MON SB		STONE BOUND				CONST	CONSTRUCTION	STA	STATION STANGE
■ TB		TOWN OR CITY BOUND		\bowtie	CONTROL CABINET, GROUND MOUNTED	CR GR	CROWN GRADE	SSD	STOPPING SIGHT DISTANCE
Δ		TRAVERSE OR TRIANGULATION STATION		$ lap{\bullet}$	CONTROL CABINET, POLE MOUNTED	DHV	DESIGN HOURLY VOLUME DROP INLET	SHLO SW	STATE HIGHWAY LAYOUT LINE SIDEWALK
PL or GUY	→ TPL or GUY			\ =	FLASHING BEACON CONTROL AND METER PEDESTAL	DI DIA	DIAMETER	T	TANGENT DISTANCE OF CURVE/TRUC
o HTP		TRANSMISSION POLE				DIP	DUCTILE IRON PIPE	TAN	TANGENT
-b- UFB	-&− UFB	UTILITY POLE W/ FIREBOX		\bowtie	LOAD CENTER ASSEMBLY	DW	STEADY DON'T WALK - PORTLAND ORANGE	TEMP	TEMPORARY
- UPDL	-∳- UPDL	UTILITY POLE WITH DOUBLE LIGHT			PULL BOX 12"x12" (OR AS NOTED)	DWY	DRIVEWAY	TC	TOP OF CURB
5- ULT	-&− ULT	UTILITY POLE W / 1 LIGHT			ELECTRIC HANDHOLE 12"x24" (OR AS NOTED)	ELEV (or EL.)	ELEVATION	TOS	TOP OF SLOPE
- UPL	-∽ UPL	UTILITY POLE			= TRAFFIC SIGNAL CONDUIT	EMB	EMBANKMENT	TYP	TYPICAL
0 75 0: TVD5		BUSH			— ITALLIC SIGNAL CONDOLL	EOP	EDGE OF PAVEMENT	UP VAR	UTILITY POLE VARIES
ZE & TYPE		TREE				EXIST (or EX)		VAR VERT	VERTICAL
<u> </u>		STUMP SWAMP / MARSH				EXC	EXCAVATION	VC	VERTICAL CURVE
• WG	• WG	WATER GATE				F&C	FRAME AND COVER	WCR	WHEEL CHAIR RAMP
• PM	• PM	PARKING METER				F&G FDN.	FRAME AND GRATE FOUNDATION	WG	WATER GATE
		OVERHEAD CABLE/WIRE				FLDSTN	FIELDSTONE	WIP	WROUGHT IRON PIPE
		_ CURRING					GARAGE	\	WATER METER/WATER MAIN
		- CURBING				GAR	O/ II V IOL	WM	
		— CONTOURS (ON-THE-GROUND SURVEY DATA)				GAR GD	GROUND	X-SECT	CROSS SECTION
		CONTOURS (ON-THE-GROUND SURVEY DATA)CONTOURS (PHOTOGRAMMETRIC DATA)				GD GG	GROUND GAS GATE		
<u> </u>		CONTOURS (ON-THE-GROUND SURVEY DATA)CONTOURS (PHOTOGRAMMETRIC DATA)UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER)	PAVEMENT MARKIN	GS SYMBOLS		GD GG GI	GROUND GAS GATE GUTTER INLET		
		 CONTOURS (ON-THE-GROUND SURVEY DATA) CONTOURS (PHOTOGRAMMETRIC DATA) UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND ELECTRIC DUCT (DOUBLE LINE 24 INCH AND OVER) 				GD GG GI GIP	GROUND GAS GATE GUTTER INLET GALVANIZED IRON PIPE		
99		 CONTOURS (ON-THE-GROUND SURVEY DATA) CONTOURS (PHOTOGRAMMETRIC DATA) UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND ELECTRIC DUCT (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND GAS MAIN (DOUBLE LINE 24 INCH AND OVER) 	PAVEMENT MARKIN <u>EXISTING</u>	GS SYMBOLS PROPOSED	<u>DESCRIPTION</u>	GD GG GI GIP GRAN	GROUND GAS GATE GUTTER INLET GALVANIZED IRON PIPE GRANITE		
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99		 CONTOURS (ON-THE-GROUND SURVEY DATA) CONTOURS (PHOTOGRAMMETRIC DATA) UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND ELECTRIC DUCT (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND GAS MAIN (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND SEWER MAIN (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND TELEPHONE DUCT (DOUBLE LINE 24 INCH AND OVER) 		PROPOSED	PAVEMENT ARROW - WHITE LEGEND "ONLY" - WHITE	GD GG GI GIP GRAN GRAV	GROUND GAS GATE GUTTER INLET GALVANIZED IRON PIPE GRANITE GRAVEL	X-SECT	CROSS SECTION
99		 CONTOURS (ON-THE-GROUND SURVEY DATA) CONTOURS (PHOTOGRAMMETRIC DATA) UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND ELECTRIC DUCT (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND GAS MAIN (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND SEWER MAIN (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND TELEPHONE DUCT (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND WATER MAIN (DOUBLE LINE 24 INCH AND OVER) BALANCED STONE WALL GUARD RAIL - STEEL POSTS 		PROPOSED The second se	PAVEMENT ARROW - WHITE LEGEND "ONLY" - WHITE STOP LINE	GD GG GI GIP GRAN GRAV GRD HDW	GROUND GAS GATE GUTTER INLET GALVANIZED IRON PIPE GRANITE GRAVEL GUARD HEADWALL	TRAFFIC S CAB CCVE DW	CROSS SECTION IGNAL ABBREVIATIONS CABINET
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		— CONTOURS (ON-THE-GROUND SURVEY DATA) — CONTOURS (PHOTOGRAMMETRIC DATA) — UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER) — UNDERGROUND ELECTRIC DUCT (DOUBLE LINE 24 INCH AND OVER) — UNDERGROUND GAS MAIN (DOUBLE LINE 24 INCH AND OVER) — UNDERGROUND SEWER MAIN (DOUBLE LINE 24 INCH AND OVER) — UNDERGROUND TELEPHONE DUCT (DOUBLE LINE 24 INCH AND OVER) — UNDERGROUND WATER MAIN (DOUBLE LINE 24 INCH AND OVER) DEBALANCED STONE WALL — GUARD RAIL - STEEL POSTS — GUARD RAIL - WOOD POSTS — CHAIN LINK OR METAL FENCE — WOOD FENCE DECOMPOST FILTER TUBES — TREE LINE — SAWCUT LINE — TOP OR BOTTOM OF SLOPE — EDGE OF PAVEMENT — LIMIT OF MICROMILLING AND OVERLAY BANK OF RIVER OR STREAM BORDER OF WETLAND 100 FT WETLAND BUFFER	EXISTING	PROPOSED The second se	PAVEMENT ARROW - WHITE LEGEND "ONLY" - WHITE STOP LINE CROSSWALK SOLID WHITE LINE SOLID YELLOW LINE BROKEN WHITE LINE BROKEN YELLOW LINE DOTTED WHITE LINE EXTENSION	GD GG GI GIP GRAN GRAV GRD HDW HMA HOR HYD INV JCT L LB LP LT MAX MB MH MHB MIN	GROUND GAS GATE GUTTER INLET GALVANIZED IRON PIPE GRANITE GRAVEL GUARD HEADWALL HOT MIX ASPHALT HORIZONTAL HYDRANT INVERT JUNCTION LENGTH OF CURVE LEACH BASIN LIGHT POLE LEFT MAXIMUM MAILBOX MANHOLE MASSACHUSETTS HIGHWAY BOUND MINIMUM	TRAFFIC S CAB CCVE DW FDW FR FRL FRR FY FYL FYR G GL GR GSL GSR	IGNAL ABBREVIATIONS CABINET CLOSED CIRCUIT VIDEO EQUIPMENT STEADY UPRAISED HAND FLASHING UPRAISED HAND FLASHING CIRCULAR RED FLASHING RED LEFT ARROW FLASHING RED RIGHT ARROW FLASHING CIRCULAR YELLOW FLASHING YELLOW LEFT ARROW FLASHING YELLOW RIGHT ARROW STEADY GREEN LEFT ARROW STEADY GREEN SIASH LEFT ARROW STEADY GREEN SLASH LEFT ARROW
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		CONTOURS (ON-THE-GROUND SURVEY DATA) CONTOURS (PHOTOGRAMMETRIC DATA) UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND ELECTRIC DUCT (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND GAS MAIN (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND SEWER MAIN (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND TELEPHONE DUCT (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND WATER MAIN (DOUBLE LINE 24 INCH AND OVER) BALANCED STONE WALL GUARD RAIL - STEEL POSTS GUARD RAIL - WOOD POSTS CHAIN LINK OR METAL FENCE WOOD FENCE COMPOST FILTER TUBES TREE LINE SAWCUT LINE TOP OR BOTTOM OF SLOPE EDGE OF PAVEMENT LIMIT OF MICROMILLING AND OVERLAY BANK OF RIVER OR STREAM BORDER OF WETLAND 100 FT WETLAND BUFFER 200 FT RIVERFRONT BUFFER STATE HIGHWAY LAYOUT TOWN OR CITY LAYOUT RAILROAD SIDELINE	EXISTING	PROPOSED The second se	PAVEMENT ARROW - WHITE LEGEND "ONLY" - WHITE STOP LINE CROSSWALK SOLID WHITE LINE SOLID YELLOW LINE BROKEN WHITE LINE BROKEN YELLOW LINE DOTTED WHITE LINE DOTTED WHITE LINE DOTTED WHITE LINE DOTTED WHITE LINE EXTENSION DOTTED YELLOW LINE EXTENSION DOUBLE WHITE LINE	GD GG GIP GRAN GRAV GRD HDW HMA HOR HYD INV JCT L LB LP LT MAX MB MH MHB MIN NIC NO. PC PCC	GROUND GAS GATE GUTTER INLET GALVANIZED IRON PIPE GRANITE GRAVEL GUARD HEADWALL HOT MIX ASPHALT HORIZONTAL HYDRANT INVERT JUNCTION LENGTH OF CURVE LEACH BASIN LIGHT POLE LEFT MAXIMUM MAILBOX MANHOLE MASSACHUSETTS HIGHWAY BOUND MINIMUM NOT IN CONTRACT NUMBER POINT OF CURVATURE	TRAFFIC S CAB CCVE DW FDW FR FRL FRR FY FYL FYR G GL GR GSL GSR GV OL PED PTZ R RL	IGNAL ABBREVIATIONS CABINET CLOSED CIRCUIT VIDEO EQUIPMENT STEADY UPRAISED HAND FLASHING UPRAISED HAND FLASHING CIRCULAR RED FLASHING RED LEFT ARROW FLASHING RED RIGHT ARROW FLASHING CIRCULAR YELLOW FLASHING YELLOW LEFT ARROW FLASHING YELLOW RIGHT ARROW STEADY CIRCULAR GREEN STEADY GREEN LEFT ARROW STEADY GREEN SLASH LEFT ARROW STEADY GREEN SLASH RIGHT ARROW STEADY GREEN VERTICAL ARROW OVERLAP PEDESTRIAN PAN, TILT, ZOOM STEADY CIRCULAR RED STEADY CIRCULAR RED STEADY RED LEFT ARROW
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GENERAL NOTES:

- 1. EXISTING GROUND SURFACES SHOWN ON PLANS, PROFILES AND CROSS SECTIONS ARE BASED UPON DATA OBTAINED BY FIELD SURVEYS.
- 2. THE LOCATIONS OF EXISTING SUBSURFACE STRUCTURES, SUCH AS SEWERS, WATER MAINS, DRAINS AND OTHER UTILITIES ARE APPROXIMATE ONLY AND THE ENGINEER DOES NOT GUARANTEE THEIR NUMBER OR LOCATIONS. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES BEFORE EXCAVATING.
- 3. ALL GAS GATES, ELECTRIC MANHOLES, AND TELEPHONE MANHOLES WITHIN THE LIMITS OF WORK SHALL BE ADJUSTED BY THE OWNING AGENCY. ALL GAS, ELECTRIC, TELEPHONE AND CATV WORK SHALL BE DONE BY THE OWNING AGENCY. THE CONTRACTOR SHALL NOTIFY THE OWNING AGENCIES TO ADJUST AND/OR RELOCATE THESE STRUCTURES TO AVOID IMPACTING THE CONTRACTOR'S SCHEDULE OF OPERATIONS.
- 4. ANY CLEANING OF CATCH BASINS OR DRAIN PIPES NECESSARY FOR THE PROPOSED WORK SHALL BE COMPLETED BY THE RESPECTIVE MUNICIPALITY INVOLVED.
- 5. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE UTILITY COMPANIES DOING WORK IN THE SAME AREA THE CONTRACTOR SHALL ALLOW THE UTILITY COMPANIES AND THEIR REPRESENTATIVES TO ADJUST AND/OR INSTALL THEIR SYSTEMS WITHIN TOWN / STATE OWNED STREETS AND EASEMENTS.
- 6. CONSTRUCT DRIVEWAYS AND WALKS AS SHOWN ON THE PLANS AND/OR AS REQUIRED BY THE ENGINEER.
- 7. SAW CUT EXISTING BITUMINOUS CONCRETE ROADWAYS, CEMENT CONCRETE SIDEWALKS AND BITUMINOUS CONCRETE DRIVEWAYS AS SHOWN ON THE PLANS AND AT THE PROPOSED MATCH LINE.
- 8. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION OF THE CONFLICT.
- 9. AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
- 10. ALL ACCESSIBLE ROUTES, WALKWAYS, CURB CUTS, RAMPS, SIDEWALKS, DRIVEWAY OPENINGS, CLEARANCES AND SLOPE TOLERANCES SHALL CONFORM WITH THE ARCHITECTURAL ACCESS BOARD (AAB), 521 CMR AND MASSHIGHWAY CONSTRUCTION AND TRAFFIC STANDARD DRAWINGS.
- 11. ITEMS LABELED "REM" SHALL BE REMOVED AND DISCARDED BY CONTRACTOR.
- 12. THE CONTRACTOR SHALL PROTECT EXISTING SURVEY MONUMENTS AND SHALL RESET ANY MONUMENTATION DISTURBED BY HIS OPERATIONS.
- 13. THE CONTRACTOR SHALL INSTALL OTHER NECESSARY TEMPORARY REGULATORY AND WARNING SIGNS DURING CONSTRUCTION AS REQUIRED BY THE ENGINEER FOR OTHER INCIDENTAL CONSTRUCTION ACTIVITIES. ALL SIGNAGE AND TRAFFIC CONTROL DEVICES USED MUST CONFORM TO THE 2009 "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD)
- 14. THE CONTRACTOR SHALL PERFORM HIS WORK IN A MANNER ACCEPTABLE TO THE ENGINEER SO THAT INTERFERENCE WITH AND INCONVENIENCE TO BUSINESS CONCERNS AND ABUTTERS, ON ACCOUNT OF THE CONSTRUCTION WORK, IS KEPT TO A MINIMUM.
- 15. THE CONTRACTOR SHALL NOT BE ALLOWED TO PARK EQUIPMENT OR STOCKPILE EQUIPMENT OR MATERIAL ON THE TRAVELED WAYS OVERNIGHT OR WHEN NOT IN USE.
- 16. THE CONTRACTOR SHALL MAINTAIN SAFE AND RESPONSIBLE ACCESS TO AND FROM ABUTTING PROPERTY, PRIVATE WAYS, DRIVEWAYS AND ALL ALLEYS AT ALL TIMES DURING THE CONSTRUCTION PERIOD.
- 17. ALL DETECTABLE WARNING PANELS SHALL BE MOUNTED IN CEMENT CONCRETE AND INSTALLED IN ACCORDANCE WITH MASSDOT CONSTRUCTION STANDARD DETAIL E107.6.5.

SURVEY NOTES:

- 1. COORDINATES, IN U.S. SURVEY FEET, ARE IN THE MASSACHUSETTS STATE PLANE COORDINATE SYSTEM (MCS), MAINLAND ZONE, REFERENCED TO THE NORTH AMERICAN DATUM OF 1983, (NAD 83/2011, EPOCH 2010.00), BASED ON THE KeyNetGPS VIRTUAL REFERENCE SYSTEM (VRS) USING TRIMBLE R10 GNSS GPS RECEIVERS.
- 2. PROPERTY LINES COMPILED FROM RECORD PLAN INFORMATION. ABUTTER LINES OBTAINED BY ASSESSORS GIS DATA AND ARE APPROXIMATE.
- 3. THIS PLAN HAS BEEN PREPARED BY PHOTOGRAMMETRIC METHODS USING AERIAL IMAGERY ACQUIRED ON DECEMBER 4, 2017 SUPPLEMENTED WITH LIMITED FIELD SURVEY.
- 4. THE AUGUST 2018 REVISION INCLUDES SELECTED TREES LOCATED ALONG THE CORRIDOR BETWEEN HUMPHREY STREET AND SEAVIEW AVENUE.

SURVEY REFERENCES:

- 1. RIGHT OF WAY AND TRACK MAP BOSTON AND MAINE R.R. SCALE 1"=100' DATED JUNE 30, 1914 SHEETS V.7.10 1-3
- 2. PLANS PROVIDED BY THE TOWN OF SWAMPSCOTT ASSESSORS, PLATES C7, D7, E7, F7, G7, H6, H7, I5 & I6
- 3. LAND IN SWAMPSCOTT, MASS., BOSTON AND MAINE RAILROAD TO LYNN ELECTRIC COMPANY, SCALE 1"=200' DATED DECEMBER, 1962 PLAN BOOK 103, PAGE 85
- 4. PLAN OF A PORTION OF HUMPHREY STREET FROM SALEM STREET TO OCEAN AVENUE IN THE TOWN OF SWAMPSCOTT AS RELOCATED, SCALE 1"=40' DATED SEPTEMBER 1953 LAYOUT NO. 2826
- 5. LAND IN SWAMPSCOTT, MASS., BOSTON AND MAINE RAILROAD TO RAYLEN REALTY COMPANY, SCALE 1"=50" DATED DECEMBER 1959 PLAN 583 OF 1963

UTILITY NOTES:

- 1. RECORD UTILITY INFORMATION FROM THE VARIOUS UTILITY COMPANIES AND PUBLIC AGENCIES, ARE APPROXIMATE ONLY AND ACTUAL LOCATIONS MUST BE DETERMINED IN THE FIELD.
- 2. 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 DESIGNING, EXCAVATING, BLASTING, INSTALLING, BACKFILLING, GRADING, PAVEMENT RESTORING OR REPAVING.
- 3. THE LOCATION OF EXISTING PIPES OR OTHER UNDERGROUND STRUCTURES OR PROPERTY LINES ARE NOT WARRANTED TO BE EXACT, NOR IS IT WARRANTED THAT ALL UNDERGROUND PIPES OR STRUCTURES ARE SHOWN. THE CONTRACTOR SHALL CALL "DIG SAFE" (1-811-344-7233) 72 HOURS (EXCLUDING SATURDAYS, SUNDAYS AND HOLIDAYS) PRIOR TO ANY EXCAVATION TO OBTAIN ACCURATE UTILITY LOCATIONS.
- 4. INVERTS SHOWN ON PLAN ARE NOT GUARANTEED TO BE ACCURATE. DUE TO THE LIMITATIONS OF FIELD OBSERVATION AND SURVEY TECHNIQUES THE INVERTS ARE SHOWN AS APPROXIMATE ONLY AND SHALL NOT BE WARRANTED TO BE CORRECT. ADDITIONAL FIELD INVESTIGATION IS NECESSARY WHERE ACCURATE MEASUREMENTS ARE REQUIRED FOR DESIGN OF CRITICAL AREAS.
- 5. THE EXISTING CONDITIONS PLAN IS TO BE USED FOR THE SPECIFIED PROJECT ONLY AND IS NOT WARRANTED TO BE COMPLETE FOR ANY OTHER FUTURE PROJECTS.
- 6. NATIONAL GRID EMERGENCY TELEPHONE NUMBERS:

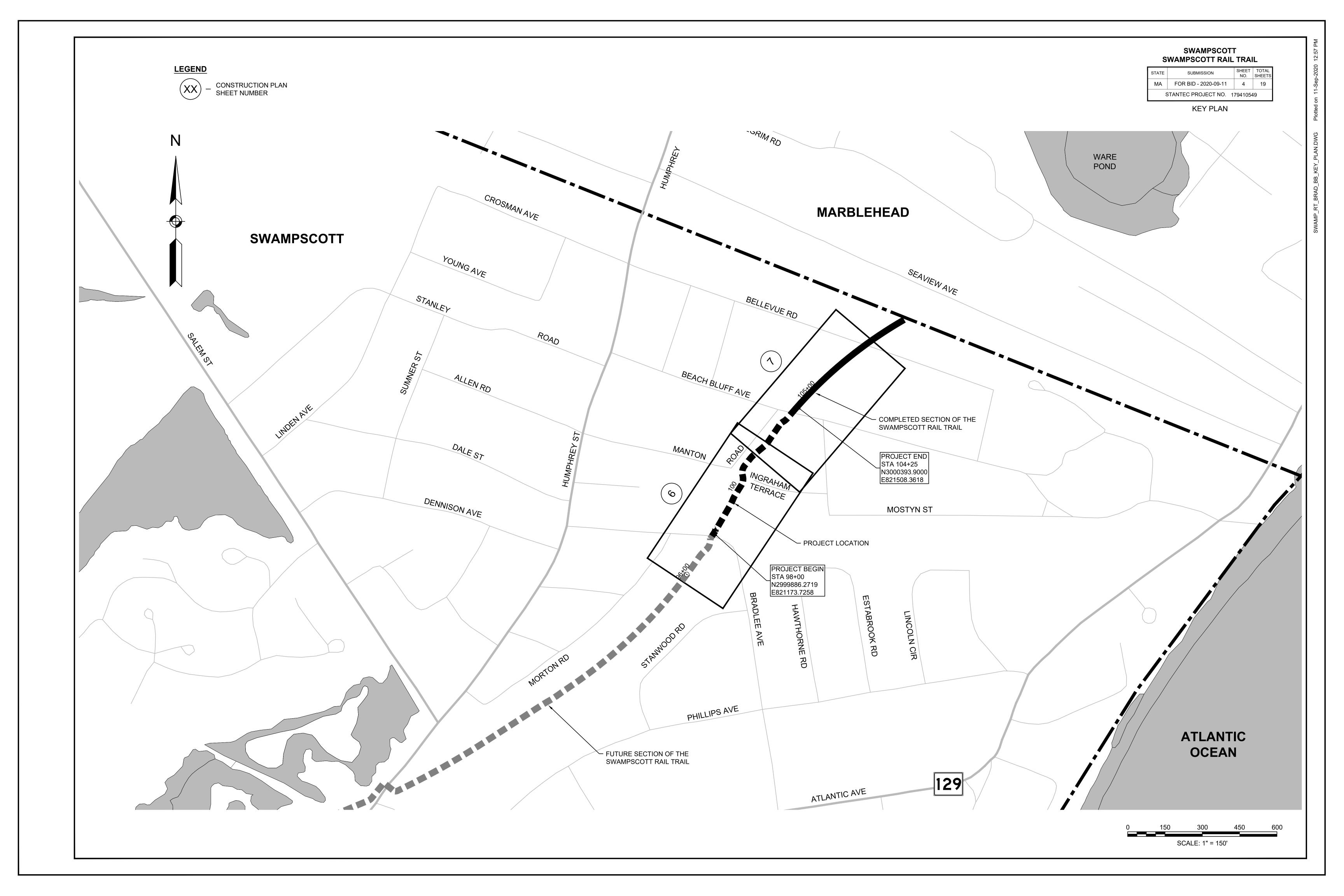
GAS: EMERGENCY: 1-800-233-5325 NEW SERVICE: 1-877-696-4743 CUSTOMER SUPPORT: 1-800-732-3400

ELECTRIC: OUTAGE/EMERGENCY: 1-800-465-1212 NEW SERVICE: 1-800-375-4730 CUSTOMER SERVICE: 1-800-322-3223

SWAMPSCOTT SWAMPSCOTT RAIL TRAIL

STATE	SUBMISSION	SHEET NO.	TOTAL SHEETS					
MA	FOR BID - 2020-09-11	3	19					
STANTEC PROJECT NO. 179410549								

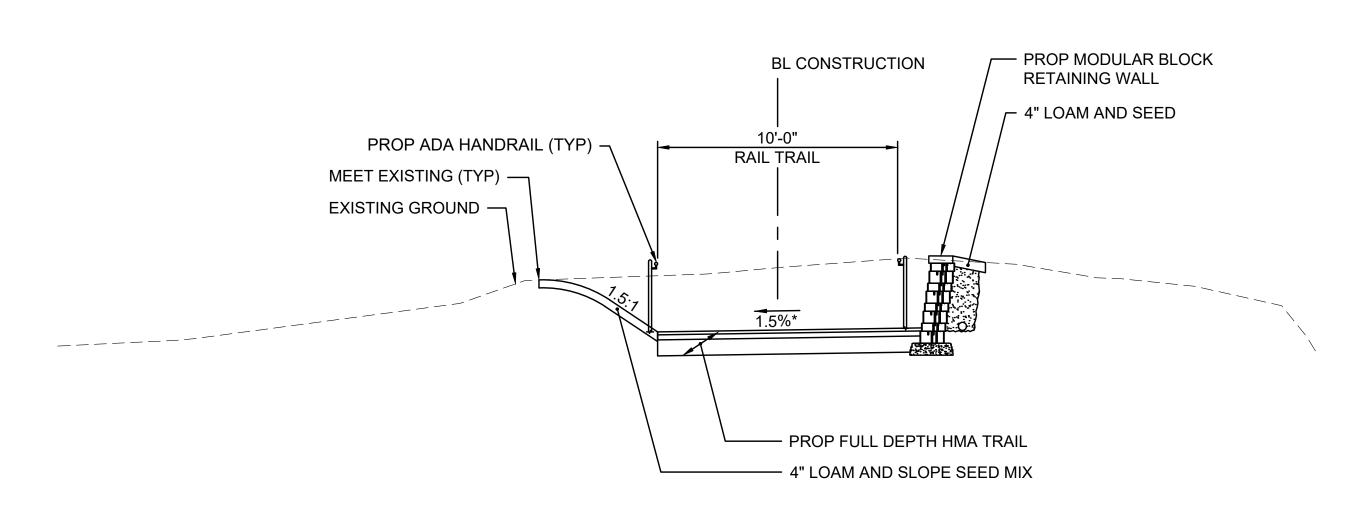
GENERAL NOTES



BL CONSTRUCTION - EXISTING GROUND — MEET EXISTING (TYP) PROP ADA HANDRAIL (TYP) RAIL TRAIL RET EXIST WALL - PROP FULL DEPTH HMA TRAIL 4" LOAM AND SLOPE SEED MIX (TYP)

TYPICAL FULL DEPTH TRAIL SECTION

NOT TO SCALE STA 99+25± TO STA 99+50±



TYPICAL FULL DEPTH TRAIL SECTION

NOT TO SCALE STA 99+50± TO STA 99+90±

MATERIAL NOTES

PROPOSED FULL DEPTH STONEDUST TRAIL SECTIONS

SURFACE: 4" STABILIZED STONEDUST

BASE: 8" (MIN) GRAVEL BORROW, TYPE b SWAMPSCOTT RAIL TRAIL SUBMISSION

SWAMPSCOTT

MA FOR BID - 2020-09-10 5

STANTEC PROJECT NO. 179410549 TYPICAL SECTIONS

PROPOSED FULL DEPTH HOT MIX ASPHALT TRAIL SECTIONS

SURFACE: 1-1/2" HOT MIX ASPHALT - STANDARD TOP COURSE

2-1/2" HOT MIX ASPHALT - DENSE BINDER COURSE INTERMEDIATE:

BASE: 8" (MIN) GRAVEL BORROW, TYPE b

PROPOSED FULL DEPTH CURB SETTING PAVEMENT SECTIONS

SURFACE: 1-1/2" HOT MIX ASPHALT - STANDARD TOP COURSE

INTERMEDIATE: 3" HOT MIX ASPHALT - DENSE BINDER COURSE

BASE: 6" (MIN) HIGH EARLY STRENGTH CEMENT CONCRETE

8" (MIN) GRAVEL BORROW, TYPE b

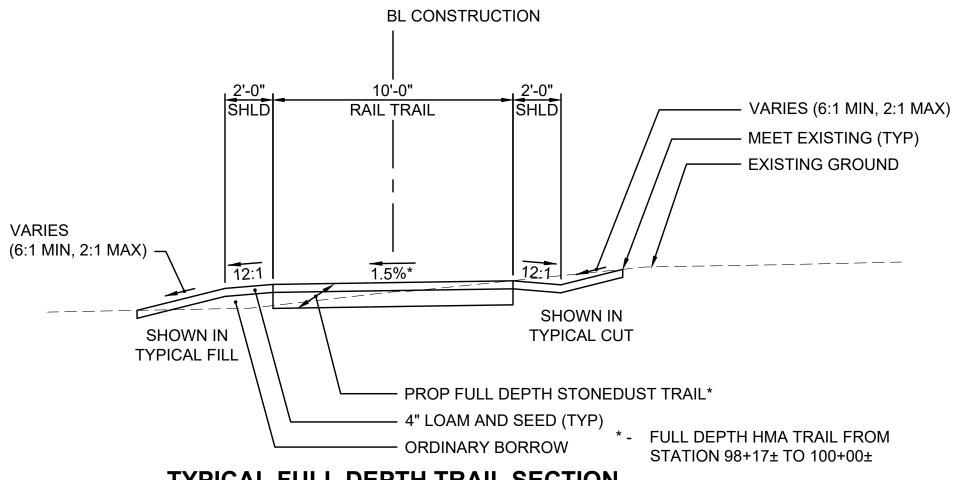
PROPOSED CEMENT CONCRETE SIDEWALK AND WHEELCHAIR RAMP SECTIONS

6" CEMENT CONCRETE

(4000psi, 3/4", 610 lbs. AIR ENTRAINED)

8" (MIN) GRAVEL BORROW, TYPE b BASE:

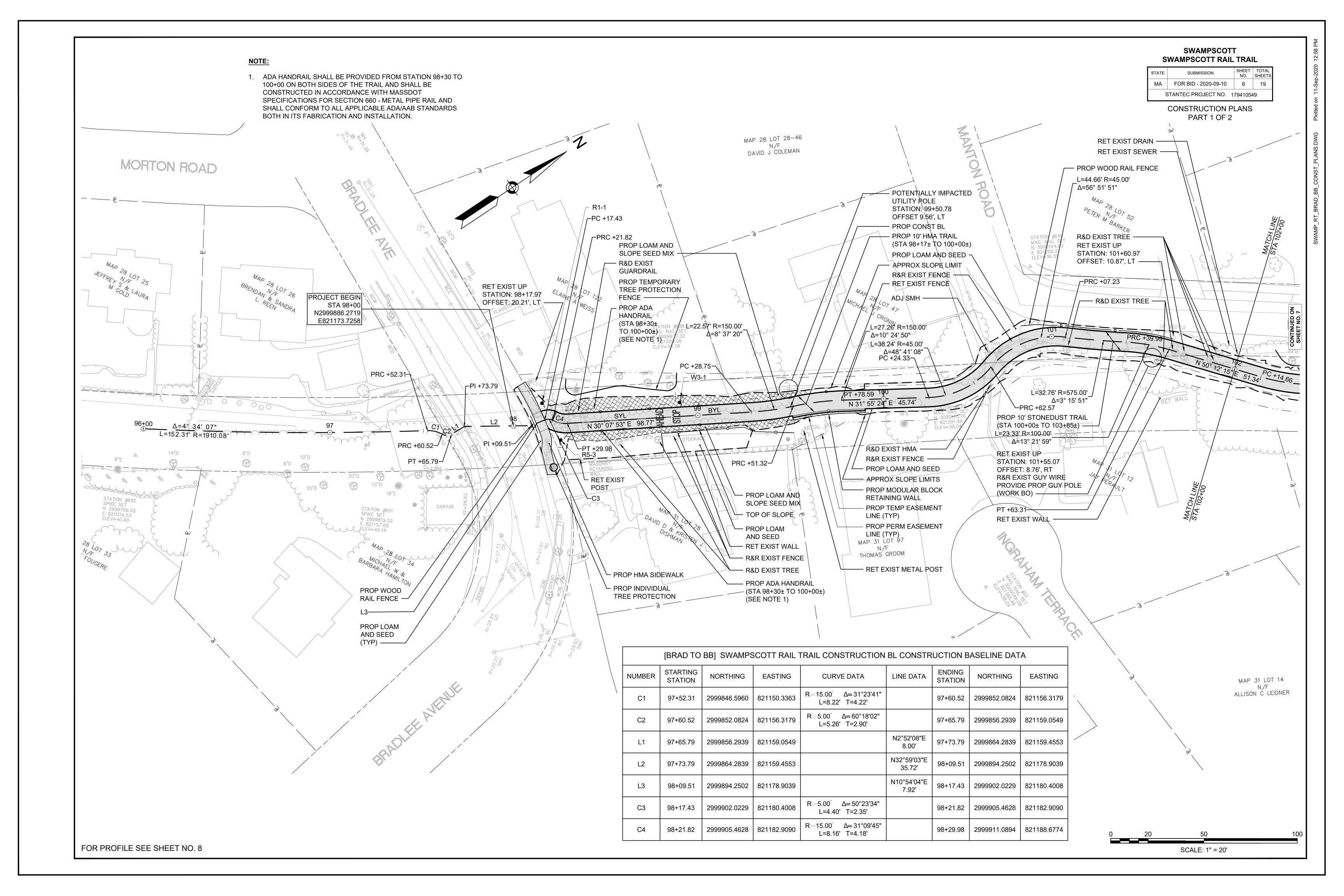
SURFACE:

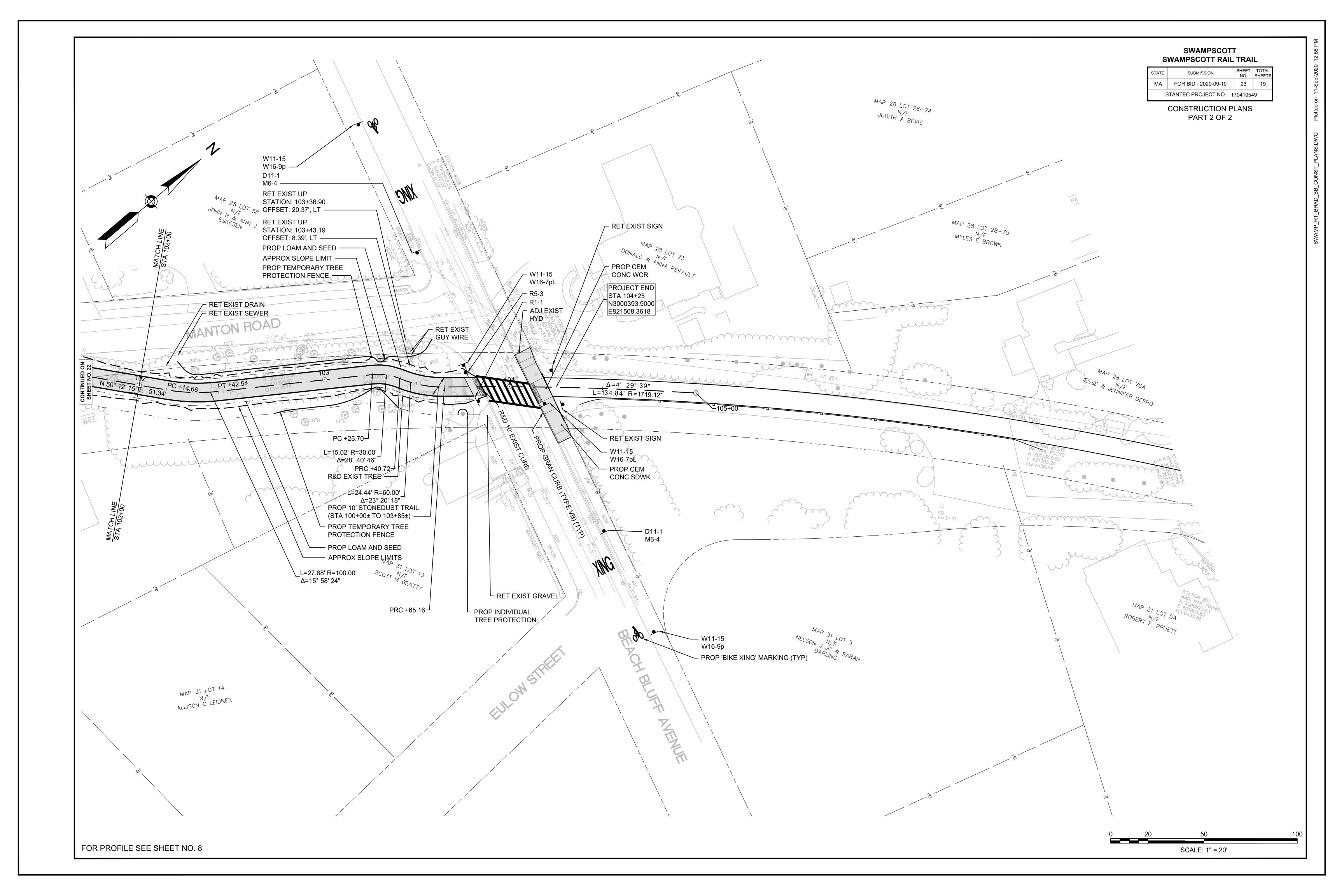


TYPICAL FULL DEPTH TRAIL SECTION

NOT TO SCALE

STA 99+90± TO STA 103+69±





SWAMPSCOTT SWAMPSCOTT RAIL TRAIL SHEET TOTAL NO. SHEETS SUBMISSION MA FOR BID - 2020-09-11 STANTEC PROJECT NO. 179410549 **PROFILES** HIGH POINT ELEV = 39.63 HIGH POINT STA = 102+30.76 PVI STA = 102+18.76 HIGH POINT ELEV = 38.40 HIGH POINT ELEV = 38.40 PVI ELEV = 39.69 HIGH POINT STA = 100+00.92 HIGH POINT STA = 100+26.81 A.D. = -5.00% PVI STA = 100+41.81 PVI STA = 99+85.92 K = 6.00PVI STA = 101+74.88 PVI ELEV = 38.40 PVI ELEV = 38.40 30' VC 230.8' SSD φ PVI STA = 101+30.63 A.D. = -4.25% PVI ELEV = 37.72 A.D. = -7.50%**PVI ELEV = 36.86** A.D. = 2.55% K = 7.06 K = 4.00A.D. = -2.05% K = 11.76 30' VC 30' VC K = 12.2025' VC PROJECT BEGIN 538.9' SSD° STA 98+00.00 N 2999886.2719 E 821173.7258 -0.50% **/**--4.25% EXISTING GRADE ALONG CONST BL -PVI STA = 101+03.62 GRADE BREAK STA = 99+67.43 PROPOSED GRADE ALONG CONST BL -PVI ELEV = 35.78 ELEV = 37.02A.D. = 8.25% GRADE BREAK STA = 99+29.93 K = 3.03ELEV = 34.80 25' VC PVC: 100+91.12 GRADE BREAK STA = 98+92.43 ►ELEV: 36.31 ELEV = 32.59 BRADLEE PVT: 101+16.12 **AVENUE** GRADE BREAK STA = 98+54.93 ELEV: 36.28 ELEV = 30.38 _GRADE BREAK STA = 98+25.76 46.6' HSD LOW POINT ELEV = 36.03 ELEV = 28.79NAVD 88 LOW POINT STA = 101+03.99 BASE ELEV INFINITE HSD 25.00 100+00 HIGH POINT ELEV = 39.63 HIGH POINT STA = 102+30.76 PVI STA = 102+18.76 PVI STA = 101+74.88 PVI STA = 101+30.63 PVI ELEV = 37.72 50 PVI ELEV = 39.69 **PVI ELEV = 36.86** A.D. = 2.55% A.D. = -5.00%A.D. = -2.05% PROJECT END K = 11.76K = 6.00K = 12.20STA 104+25.00 N 3000393.9000 E 821508.3618 30' VC 25' VC 30' VC 538.9' SSD 230.8' SSD o 296.1' HSD BEACH BLUFF AVENUE -0.50% PVI STA = 101+03.62 PVI ELEV = 35.78 PROPOSED GRADE ALONG CONST BL A.D. = 8.25% K = 3.03— EXISTING GRADE ALONG CONST BL 25' VC PVC: 100+91.12 ELEV: 36.31 PVT: 101+16.12 ELEV: 36.28 46.6' HSD LOW POINT ELEV = 36.03 LOW POINT STA = 101+03.99 NAVD 88 INFINITE HSD BASE ELEV 25.00 100+50 101+00 102+00 103+00 104+00 105+00 HOR. SCALE IN FEET FOR CONSTRUCTION PLANS SEE SHEET NO. 6 - 7 VER. SCALE IN FEET

STATE	SUBMISSION	SHEET NO.	TOTAL SHEETS
MA	BID REV: 2020-05-21	9	##
5	17941054	19	

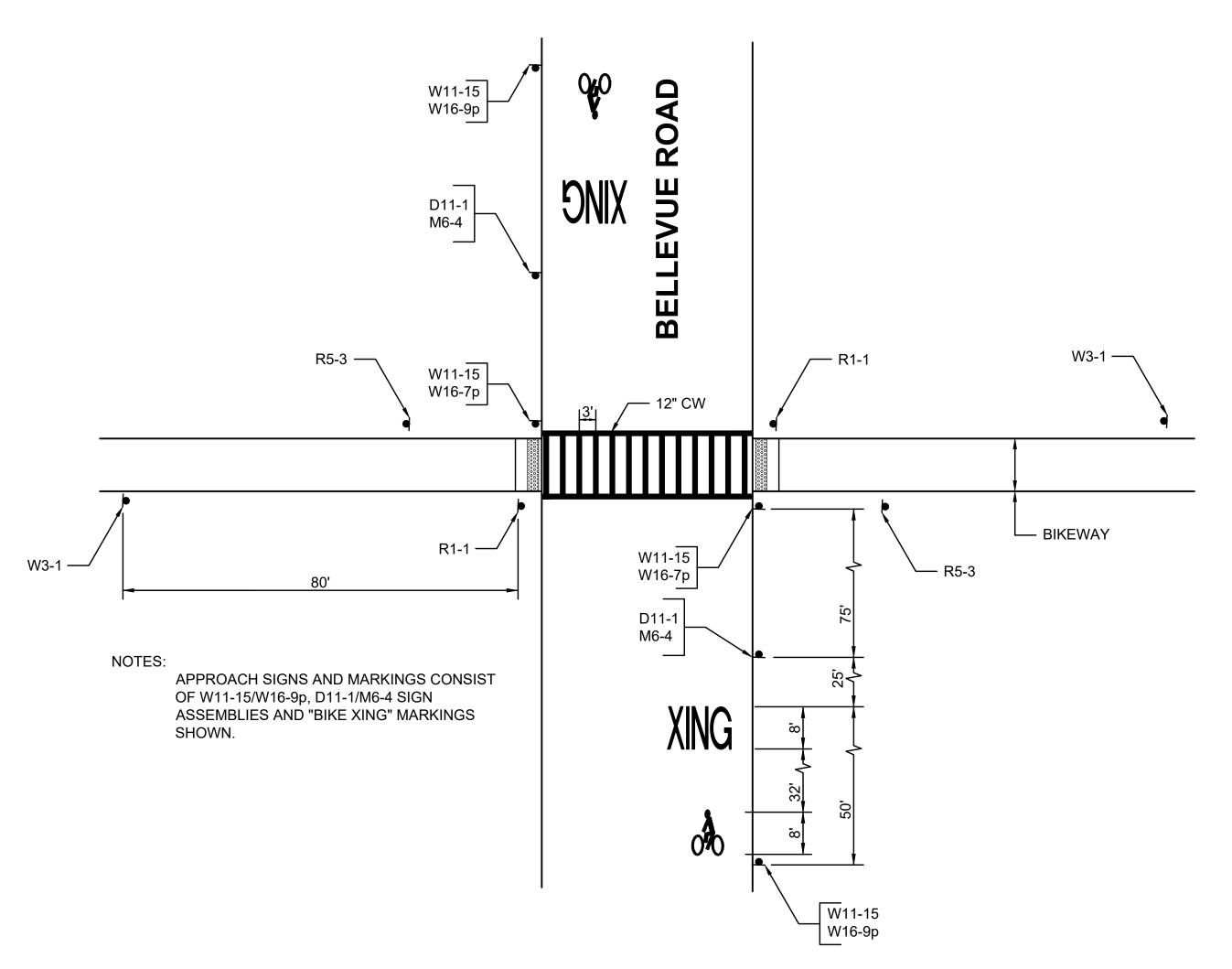
TRAFFIC SIGN SUMMARY

TRAFFIC SIGN SUMMARY

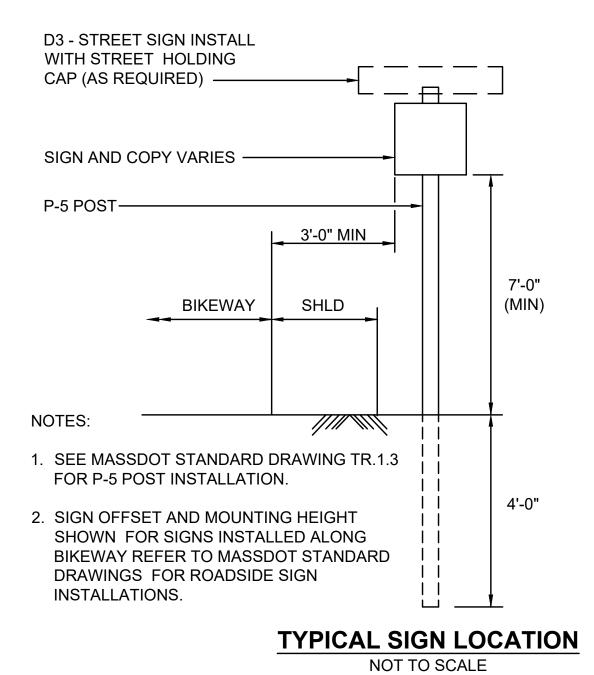
IDENITIEIOA	SIZE C	F SIGN			TE	EXT DIMENSIO	NS	AU MADED OF		COLOR			
IDENTIFICA TION NUMBER	WIDTH	HEIGHT	UNIT AREA (SF)	TEXT	LETTER HEIGHT	VERTICAL SPACING	ARROW	NUMBER OF SIGNS REQUIRED	BACK- GROUND	LEGEND	BORDER	POST SIZE AND NUMBER REQUIRED	AREA (SF)
D11-1	24"	18"	3.00	BIKE ROUTE	2009 MUTCD	2009 MUTCD	2009 MUTCD	2	GREEN	WHITE	WHITE	1-P5 2	6.00
M6-4	12"	9"	0.75		2009 MUTCD	2009 MUTCD	2009 MUTCD	2	GREEN	WHITE	WHITE	MOUNT 2 WITH D11-1	1.50
R1-1 (PATH)	18"	18"	2.25	STOP	2009 MUTCD	2009 MUTCD	2009 MUTCD	2	RED	WHITE	WHITE	1-P5 2	4.50
R5-3	24"	24"	4.00	NO MOTOR VEHICLES	2009 MUTCD	2009 MUTCD	2009 MUTCD	2	WHITE	BLACK	BLACK	1-P5 2	8.00
W3-1	18"	18"	2.25		2009 MUTCD	2009 MUTCD	2009 MUTCD	1	YELLOW	BLACK/ RED	BLACK	1-P5 1	2.25
W11-15	30"	30"	6.25	(A)	2009 MUTCD	2009 MUTCD	2009 MUTCD	4	YELLOW	BLACK	BLACK	1-P5 4	25.00
W16-9p	24"	12"	2.00	AHEAD	2009 MUTCD	2009 MUTCD	2009 MUTCD	2	YELLOW	BLACK	BLACK	MOUNT 2 WITH W11-15	4.00
W16-7pL	24"	12"	2.00		2009 MUTCD	2009 MUTCD	2009 MUTCD	2	YELLOW	BLACK	BLACK	MOUNT 2 WITH W11-15	4.00

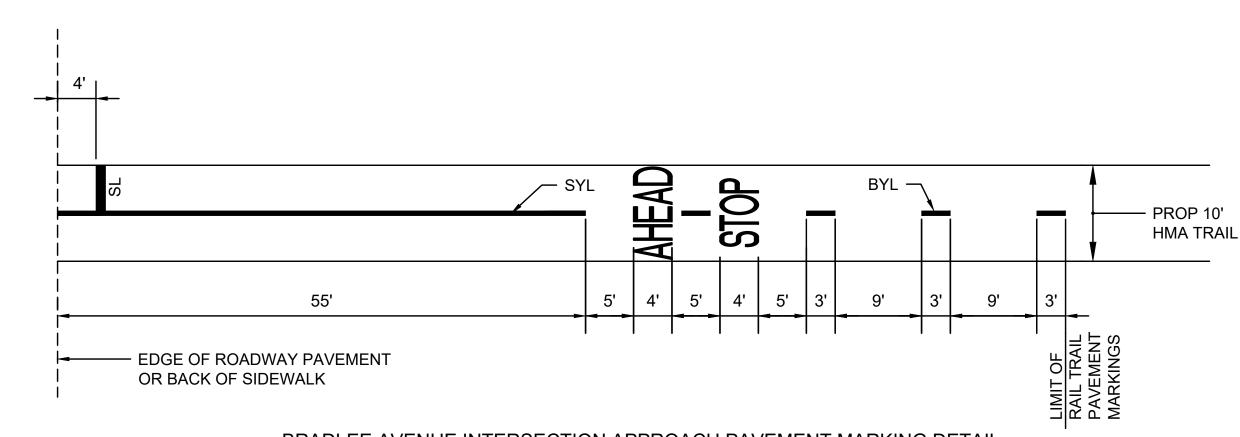
STATE	SUBMISSION	SHEET NO.	TOTAL SHEETS
MA	BID REV: 2020-05-21	10	##
STANTEC PROJECT NO.		17941054	19

TRAFFIC DETAILS



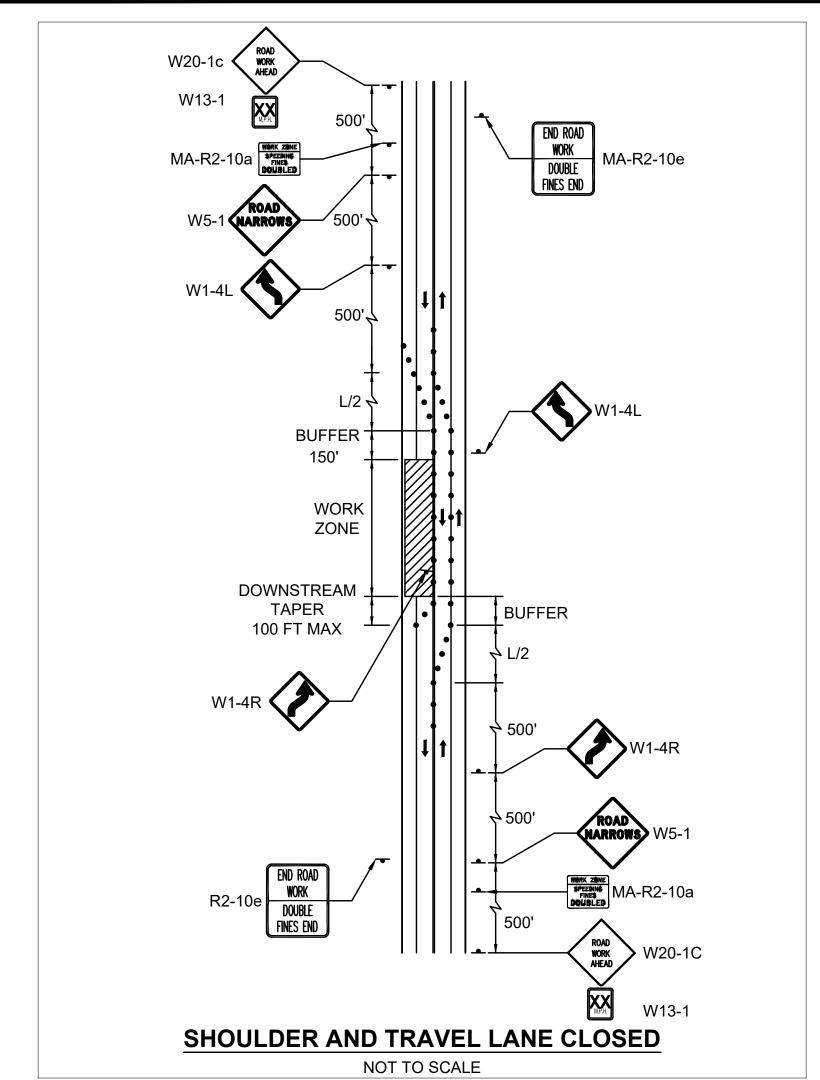
TYPICAL INTERSECTION SIGNS AND MARKINGS
NOT TO SCALE

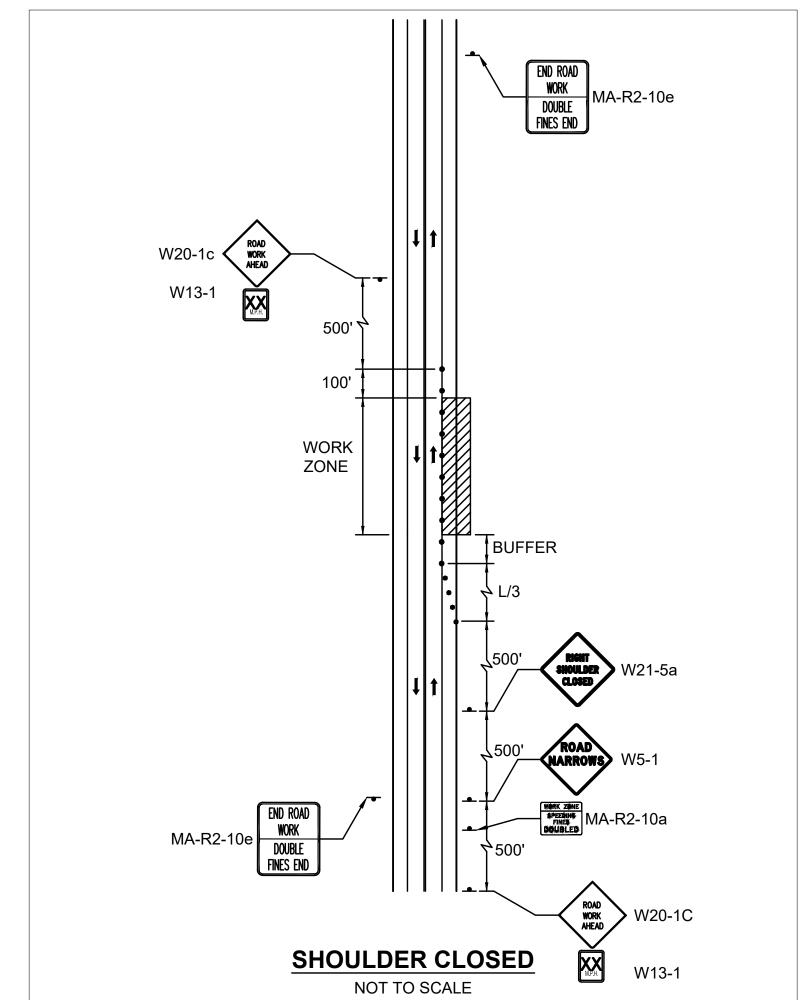


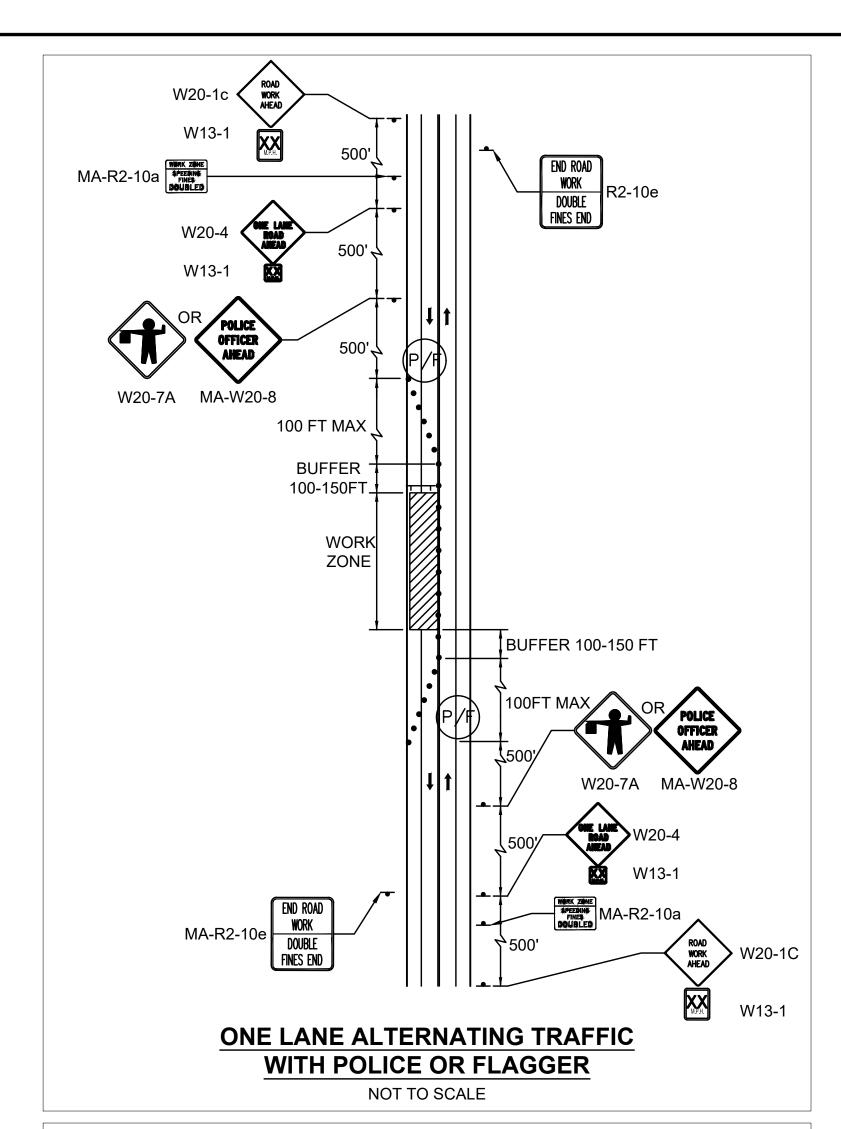


BRADLEE AVENUE INTERSECTION APPROACH PAVEMENT MARKING DETAIL

NOT TO SCALE







NOTES:

- 1. ALL TEMPORARY TRAFFIC CONTROL WORK SHALL CONFORM TO THE 2009 EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) AND MASSACHUSETTS AMENDMENTS.
- ALL SIGN LEGENDS, BORDERS AND MOUNTING SHALL BE IN ACCORDANCE WITH THE 2009 MUTCD.
- 3. TEMPORARY CONSTRUCTION SIGNING AND ALL OTHER TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF ANY WORK.
- 4. 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.
- 5. SIGNS AND SIGN SUPPORTS LOCATED ON OR NEAR THE TRAVELED WAY, AND REFLECTORIZED PLASTIC DRUMS WITH LIGHTING DEVICES MOUNTED ON THEM, SHALL PASS THE CRITERIA SET FORTH IN NCHRP REPORT 350, "RECOMMENDED PROCEDURES FOR THE SAFETY PERFORMANCE EVALUATION OF HIGHWAY FEATURES."
- 6. CONTRACTOR 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.
- 7. THE FIRST TEN PLASTIC REFLECTORIZED DRUMS OF A TAPER SHALL BE MOUNTED WITH SEQUENTIAL FLASHING LIGHTS.
- 8. THE ADVISORY SPEED LIMIT, IF REQUIRED, SHALL BE DETERMINED BY THE ENGINEER.
- 9. DISTANCES ARE A GUIDE AND MAY BE ADJUSTED IN THE FIELD BY THE ENGINEER.
- 10. MAXIMUM SPACING OF TRAFFIC DEVICES IN A TAPER (DRUMS OR CONES) IS EQUAL IN FEET TO THE SPEED LIMIT IN MPH.
- 11. MINIMUM LANE WIDTH SHALL BE 11 FEET UNLESS OTHERWISE SHOWN.
 MINIMUM LANE WIDTH TO BE MEASURED FROM THE EDGE OF DRUMS OR
 MEDIAN BARRIER.
- 12. ALL SIGNS SHALL BE MOUNTED ON THEIR OWN STANDARD SIGN SUPPORTS.
- 13. ALL TEMPORARY WALKWAYS SHALL MEET ADA/AAB GUIDELINES.
- 14. NO LANE CLOSURE WILL BE PERMITTED DURING PEAK HOUR TRAFFIC.

CONSTRUCTION SIGN SUMMARY

IDENTIFI-	SIZE O	F SIGN	TEXT			Γ DIME		NS		NUMBER OF			COI	LOR			POST SIZE AND	AREA IN
CATION NUMBER	WIDTH	HEIGHT	IEAI	LETT HEIG	ER HT	VERT SPAC	ICAL CING	ARR	ROW	SIGNS REQUIRED	BA0 GRO	CK- UND	LEG	END	BOR	DER	NUMBER REQUIRED	SQUARE FEET
MA-R2-10a	48"	36"	WORK ZONE \$PEEDING FINE\$ DOUBLED	SEE	MAS	SSDOT	STA	NDAF	RDS	2	SEE	MAS	SDO	ΓSTA	NDAI	RDS		24.00
MA-R2-10e	36"	18"	END ROAD WORK DOUBLE FINES END	SEE	MAS	SSDOT	STA	NDAF	RDS	2	SEE	MAS	SDO ⁻	ΓSTA	NDAI	RDS		9.00
S-G20-1 (SEE DETAIL BELOW)	42"	24"	BIKEPATH CLOSED DURING CONSTRUCTION	4"	1	3	"	N/	/A	2	WH	ITE	BLA	ACK	BLA	кСК		14.00
W1-4L	36"	36"		1	SE	 E 2009 	MUT	CD 		2		SEE	2009	9 MU⁻ 	CD 			18.00
W1-4R	36'	36"								2								18.00
W13-1	18"	18"	M.P.H.							4								9.00
W5-1	36"	36"	ROAD							2								18.00
W20-1c	36"	36"	ROAD WORK AHEAD							4								36.00
W20-4c	36"	36"	ONE LANE ROAD AHEAD							2								18.00
W21-5aR	36"	36"	RIGHT SHOULDER CLOSED							1								9.00
W20-7A	36"	36"		•			I			2								18.00
— OR —	— OR —	— OR —	OR —							OR —								— OR –
MA-W20-8	36"	36"	POLICE OFFICER AHEAD	SEE	MAS	 	Γ STA	 NDAF 	RDS	2		1	l	•		1		18.00

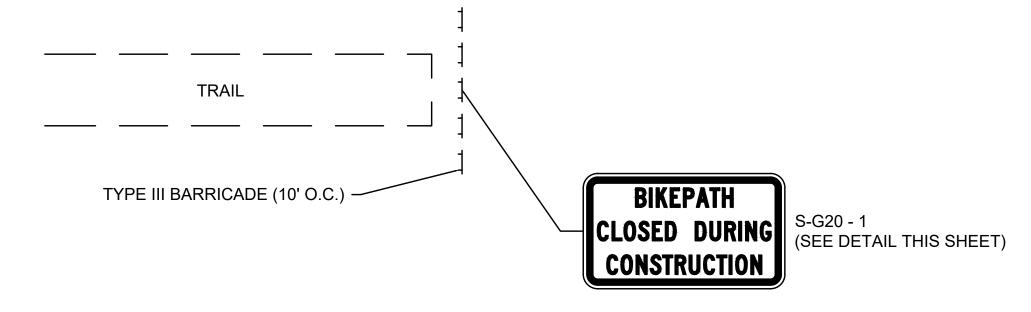
SWAMPSCOTT RAIL TRAIL

STATE	SUBMISSION	SHEET NO.	TOTAL SHEETS					
MA	BID REV: 2020-05-21	11	##					
STANTEC PROJECT NO. 179410549								

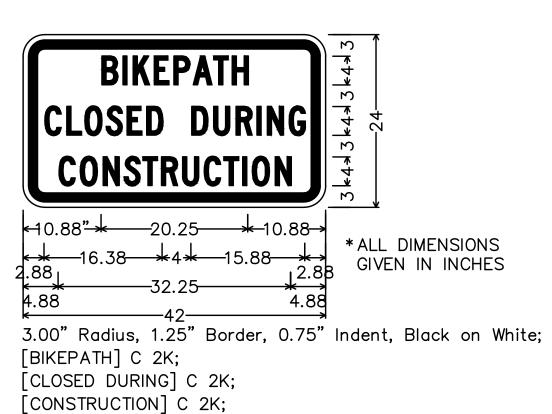
TEMPORARY TRAFFIC CONTROL PLANS

<u>LEGEND</u>

- REFLECTORIZED DRUM
- SIGN ON SUPPORT
- TYPE III BARRICADE
 WITH WARNING LIGHTS
- WORK ZONE
- (P/F) POLICE OFFICER/FLAGGER

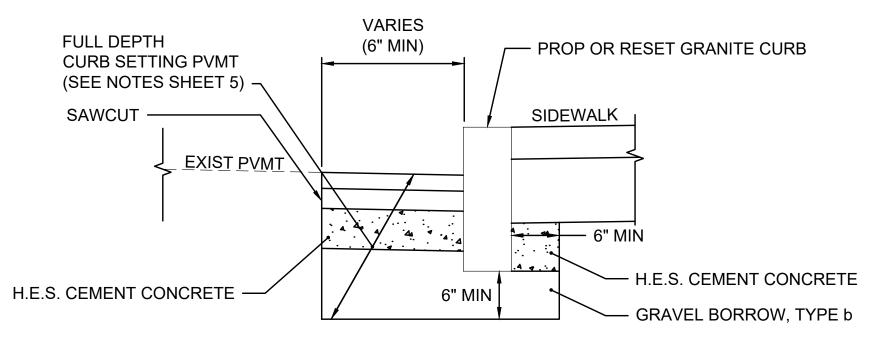


TYPICAL PATH CLOSURE NOT TO SCALE



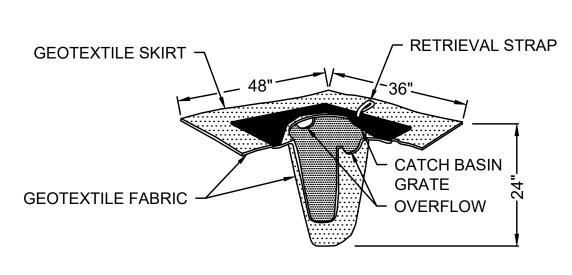
SIGN (S-G20-1) DETAIL

NOT TO SCALE



NOTES:

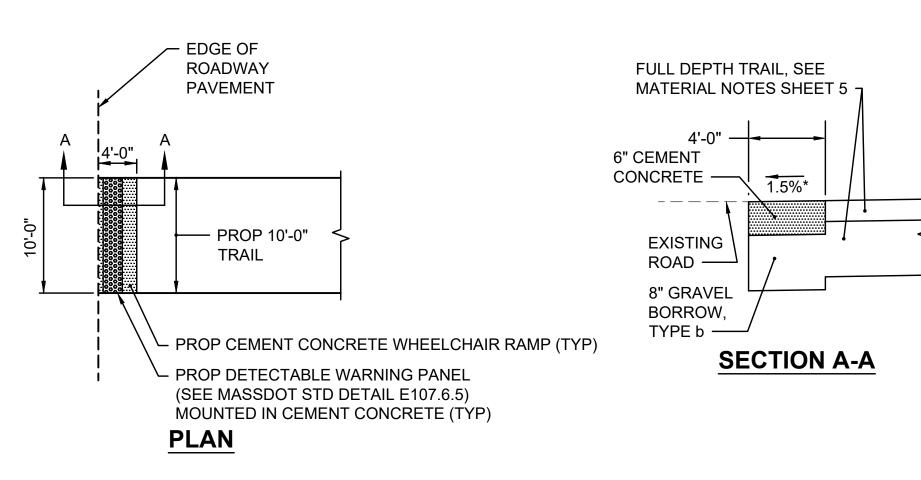
- 1. H.E.S. CEMENT CONCRETE SHALL BE PAID FOR UNDER ITEM 431. HIGH EARLY STRENGTH CEMENT CONCRETE BASE COURSE.
- 2. H.E.S. CEMENT CONCRETE SHALL BE PLACED ON BOTH SIDES OF GRANITE CURBING.
- 3. HOT MIX ASPHALT SHALL NOT BE USED AS A SUBSTITUTE FOR H.E.S. CONCRETE.
- SAWCUTTING EXISTING PAVEMENT SHALL BE INCLUDED IN THE PRICE BID FOR PROPOSED OR RESET GRANITE CURB.
- 5. MAXIMUM CURB REVEAL SHALL BE 6 INCHES



SILT SACK FOR SEDIMENT CONTROL
NOT TO SCALE

METHOD OF SETTING GRANITE CURB (AGAINST EXISTING PAVEMENT)

NOT TO SCALE



NOTE: MODIFIED ROCKFILL FOR SLOPE STABILIZATION

CONSTRUCTION PLANS FOR LIMITS OF MODIFIED ROCKFILL SLOPE STABILIZATION.

MODIFIED ROCK FILL DETAIL

NOT TO SCALE

PROP GRADE —

PROP GEOTEXTILE

FABRIC FOR

SEPARATION -

IS REQUIRED WHERE SLOPES EXCEED 2:1. SEE

MEET EXISTING

- EXISTING GROUND

- PROP 12" MODIFIED ROCK FILL

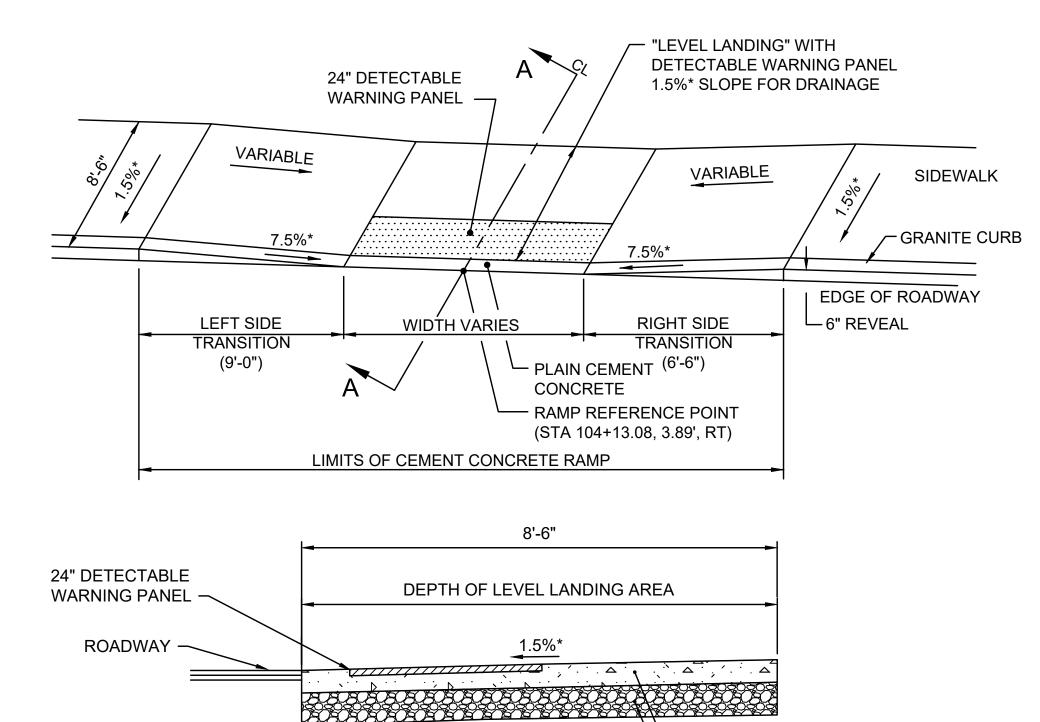
- PROP 6" GRAVEL BORROW TYPE b

DETECTABLE WARNING PANEL AT TRAIL INTERSECTION

NOT TO SCALE

NOTES:

- 1. WHEELCHAIR RAMPS AND DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH MASSDOT CONSTRUCTION STANDARD DRAWINGS NUMBERED 107.2.0, 107.2.1, 107.6.0, 107.6.4, 107.6.5, 107.7.0 AND 107.9.0 AND ADA/ MA AAB REQUIREMENTS.
- 2. DETECTABLE WARNING PANELS ARE REQUIRED ON ALL PROPOSED WHEELCHAIR RAMPS AND ARE TO BE INSTALLED IN ACCORDANCE WITH CONSTRUCTION STANDARD 107.6.5. DETECTIBLE WARNING PANELS SHALL BE PLACED PERPENDICULAR TO THE PATH OF TRAVEL AND NOT THE CURB LINE.
- 3. ALL DETECTABLE WARNING PANELS SHALL BE CAST IRON AND MOUNTED IN CEMENT CONCRETE.
- * TOLERANCE FOR CONSTRUCTION ±0.5% (TYP.)



WHEELCHAIR RAMP DETAIL - TYPE A

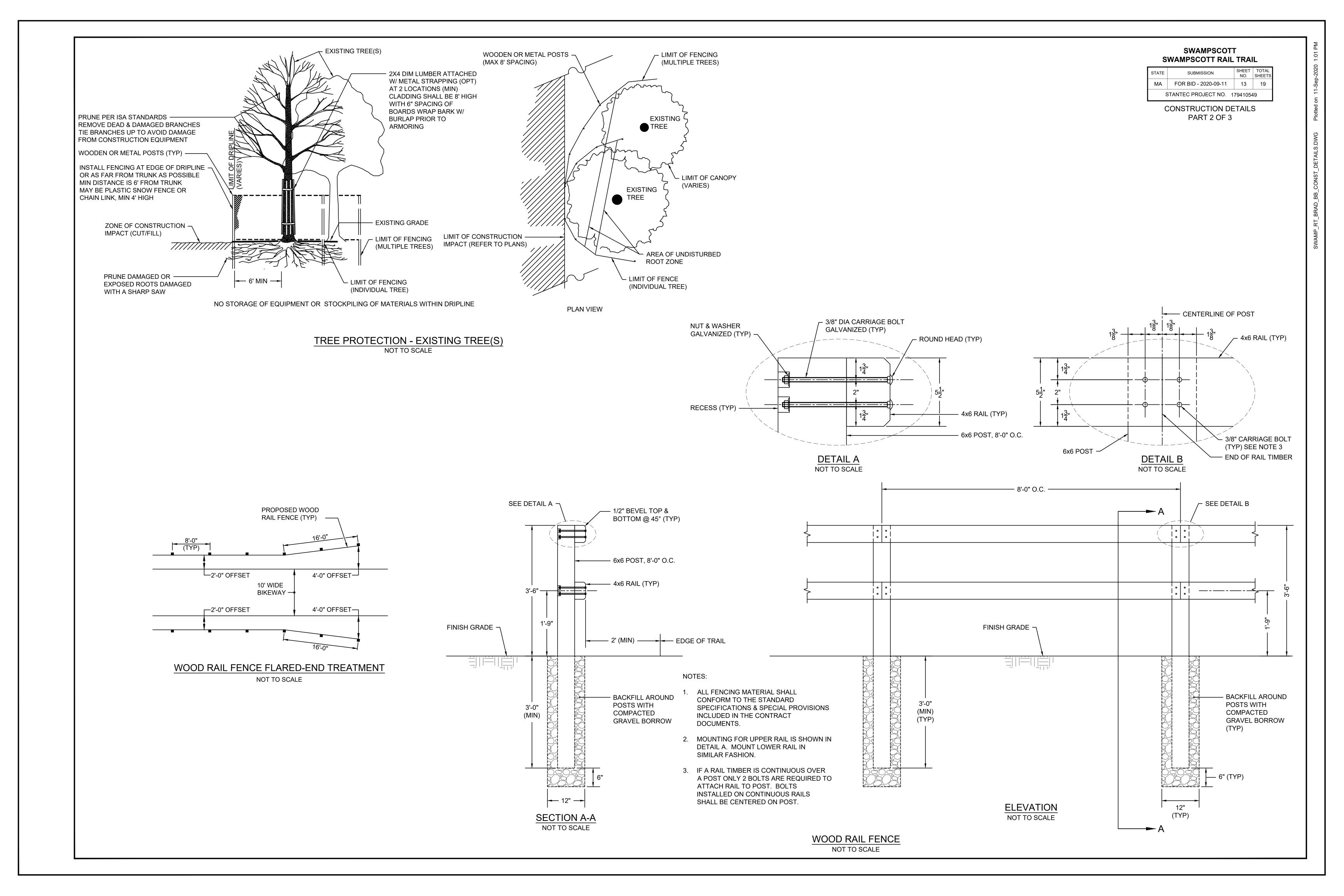
NOT TO SCALE

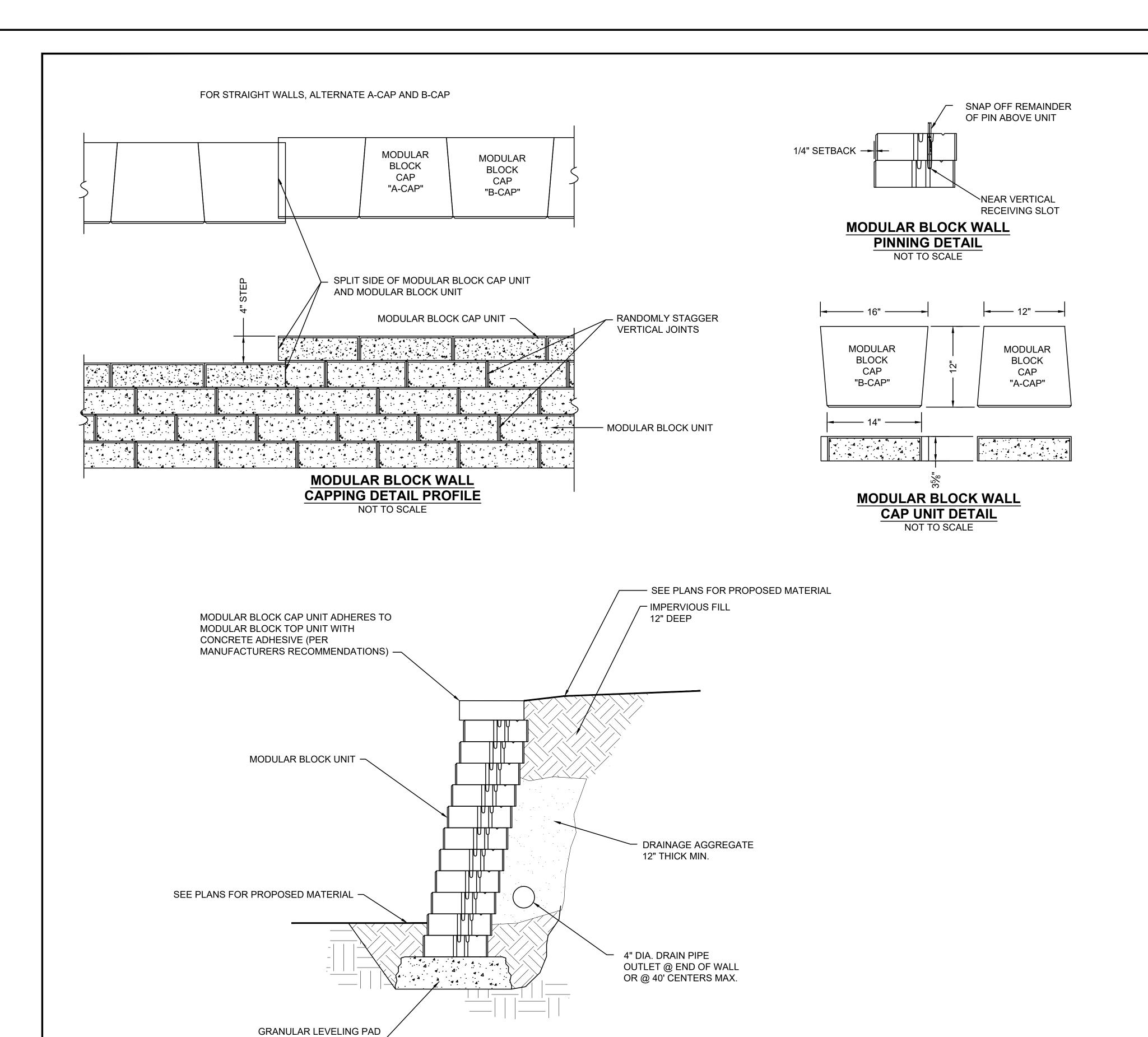
SECTION A-A

← 6" CEM CONC

► 8" COMPACTED

GRAVEL BORROW





MIN. 6" THICK —

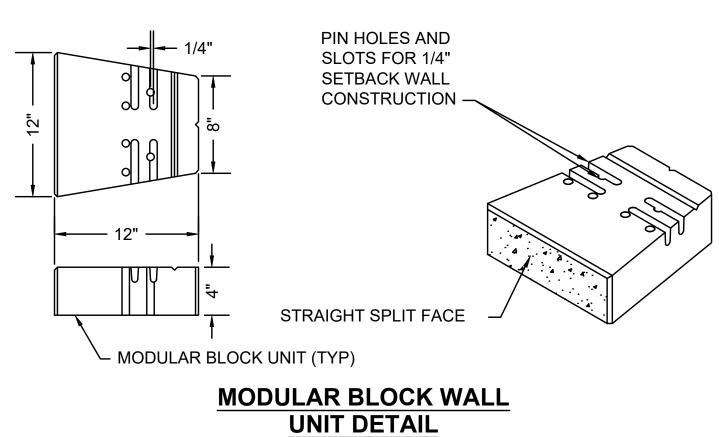
MODULAR BLOCK WALL

UNREINFORCED WALL SECTION
NOT TO SCALE

SWAMPSCOTT SWAMPSCOTT RAIL TRAIL

STATE	SUBMISSION	SHEET NO.	TOTAL SHEETS
MA	FOR BID - 2020-09-11	14	19
9	STANTEC PROJECT NO. 1	7941054	19

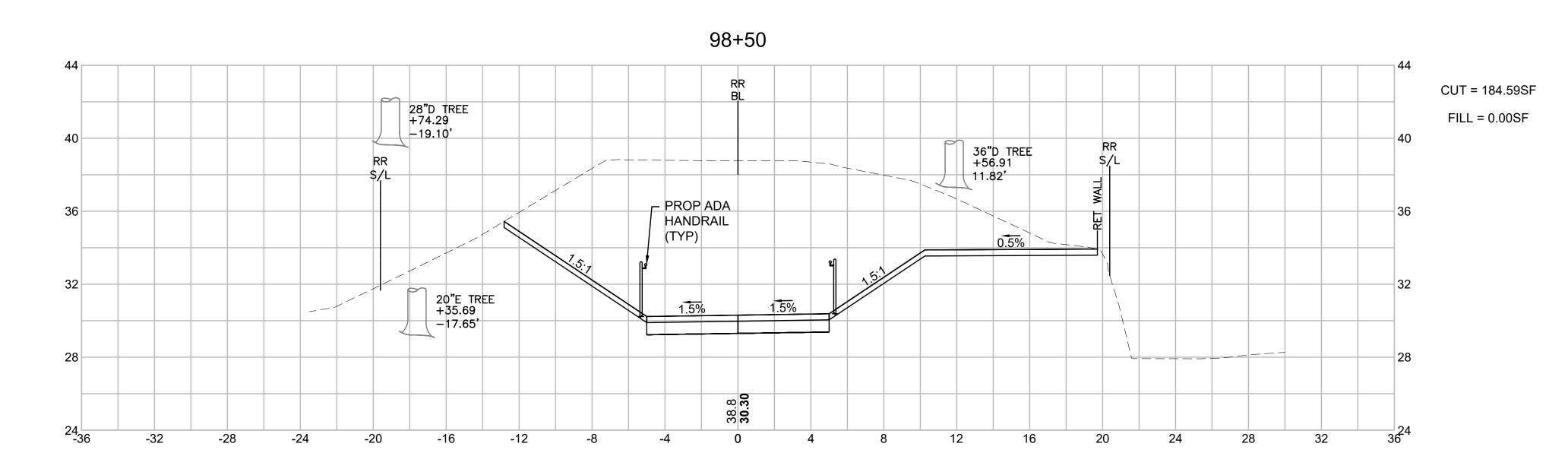
CONSTRUCTION DETAILS
PART3 OF B

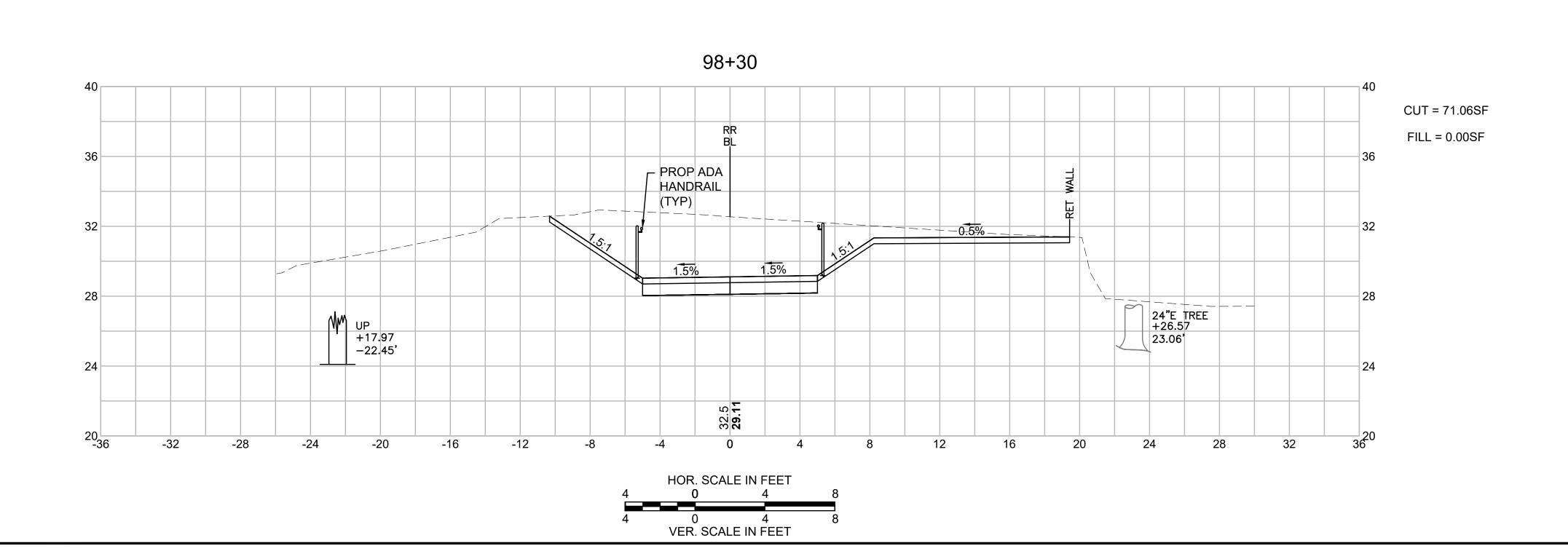


NOT TO SCALE

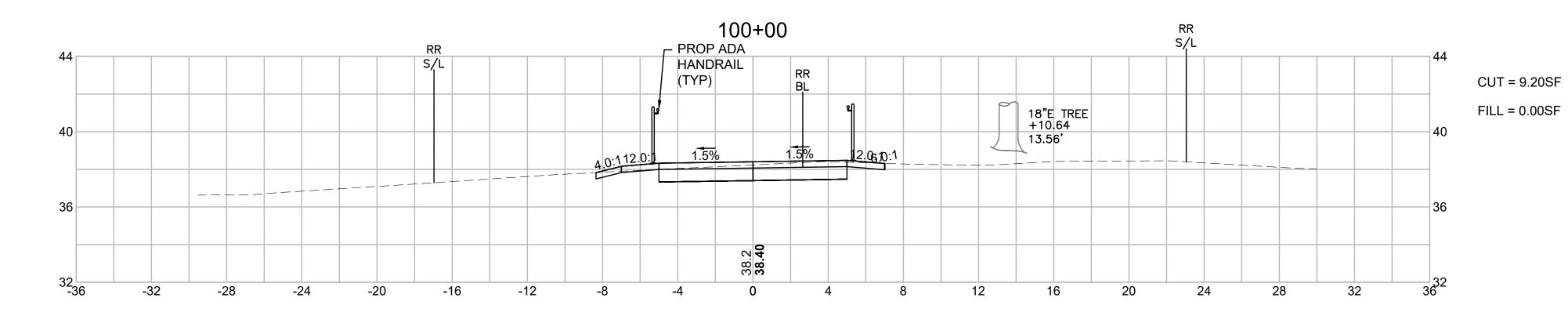
STATE	SUBMISSION	SHEET NO.	TOTAL SHEETS
MA	FOR BID - 2020-09-11	15	19
5	STANTEC PROJECT NO.	7941054	19

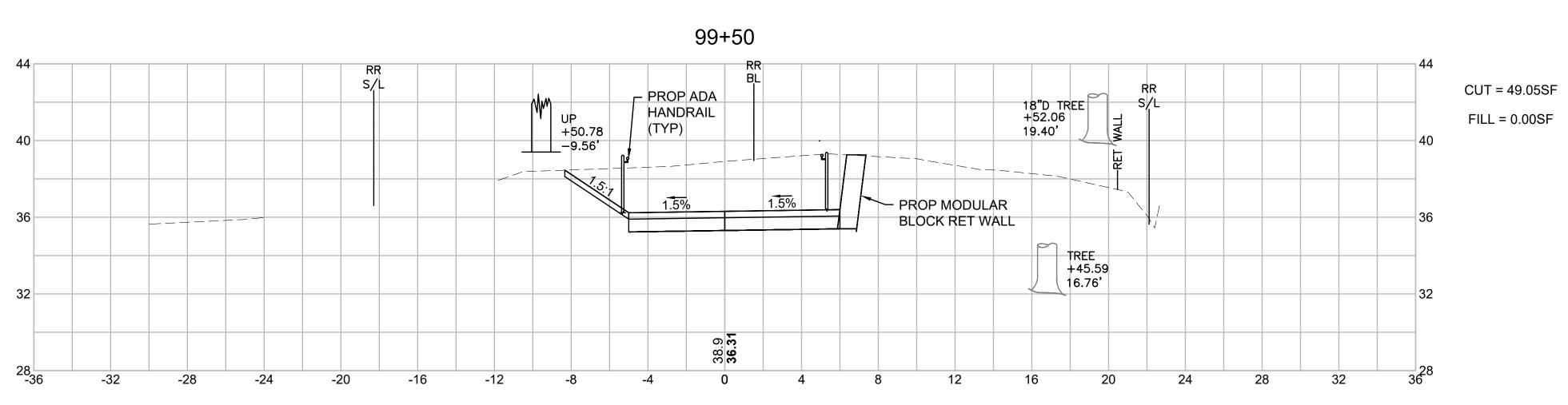
CROSS SECTIONS PART 1 OF 5

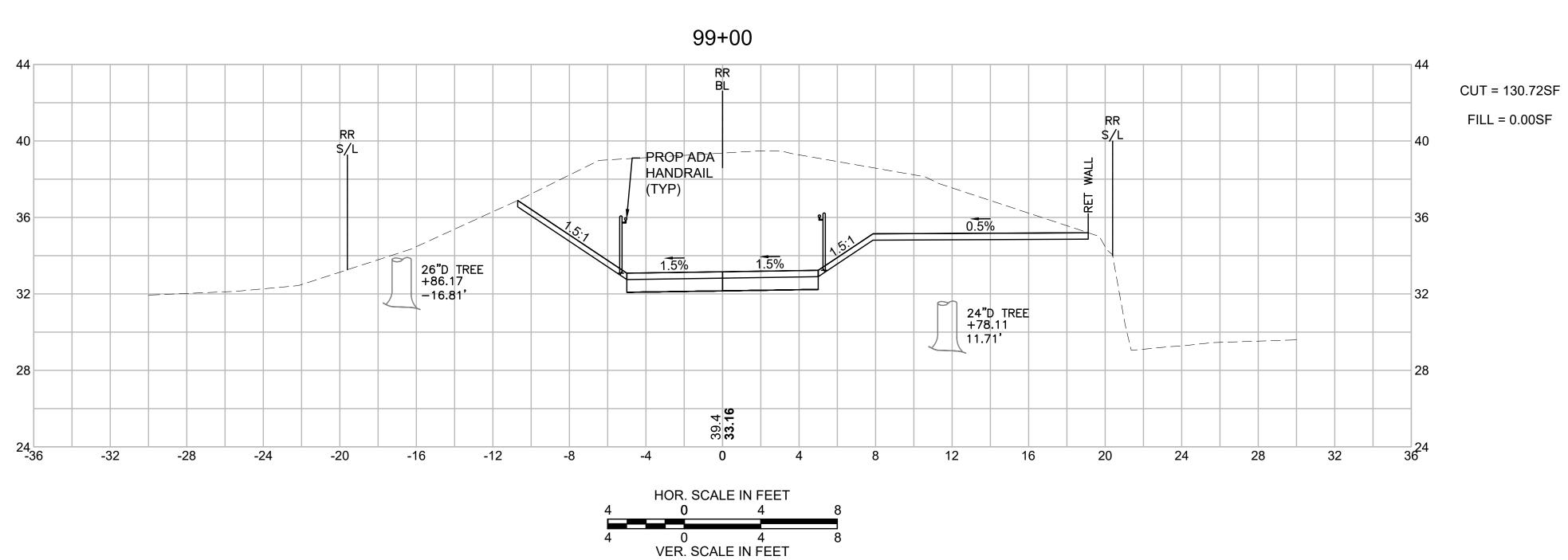




SWAMPSCOTT SWAMPSCOTT RAIL TRAIL SUBMISSION MA FOR BID - 2020-09-11 16 19 STANTEC PROJECT NO. 179410549 CROSS SECTIONS PART 2 OF 5







STATE	SUBMISSION	SHEET NO.	TOTAL SHEETS
MA	FOR BID - 2020-09-11	17	19
S	STANTEC PROJECT NO. 1	7941054	19

CROSS SECTIONS PART 3 OF 5

