BRIDGE ST, MILES RIVER RD, **ESSEX ST, FOREST ST, APPALOOSA LANE, VILLAGE LANE, BEECH ST, & LAKE SHORE AVE TITLE SHEET & INDEX** SHEET 1 OF 16

HAMILTON

PLAN OF

BRIDGE STREET, MILES RIVER ROAD, ESSEX STREET, APPALOOSA LANE, FOREST STREET, LAKE SHORE AVE, VILLAGE LANE, & BEECH STREET

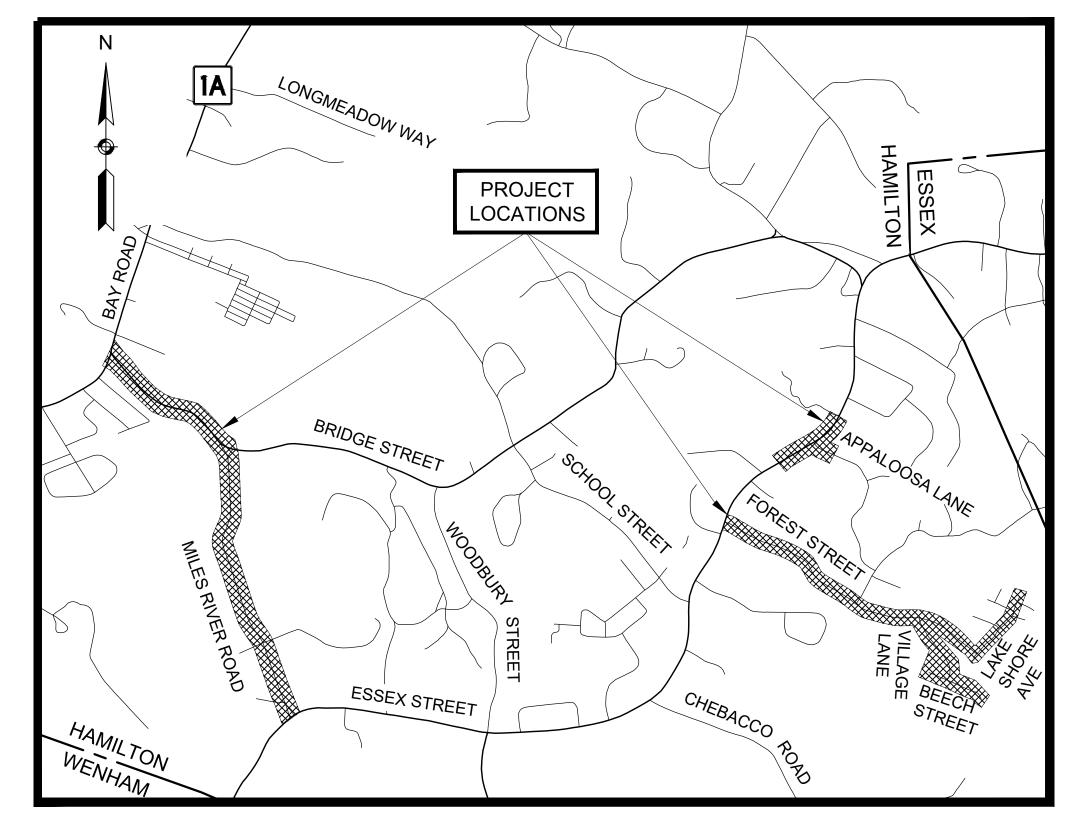
IN THE TOWN OF

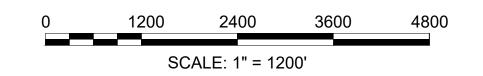
HAMILTON **ESSEX COUNTY**

INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET & INDEX
2	LEGEND & ABBREVIATIONS
3	KEY PLAN
4-11	CONSTRUCTION PLANS SHEETS 9-11 OMITTED
12-14	TEMPORARY TRAFFIC CONTROL PLANS— OMITTE
15_16	CONSTRUCTION DETAILS

REVISED NOI SUBMITTAL





LENGTH OF PROJECT ALONG BRIDGE STREET = 1940 FEET = 0.367 MILES LENGTH OF PROJECT ALONG MILES RIVER ROAD = 3570 FEET = 0.676 MILES LENGTH OF PROJECT ALONG ESSEX STREET = 850 FEET = 0.161 MILES LENGTH OF PROJECT ALONG FOREST STREET = 3630 FEET = 0.68 MILES LENGTH OF PROJECT ALONG APPALOOSA LANE = 275 FEET = 0.052 MILES LENGTH OF PROJECT ALONG LAKE SHORE AVE = 1070 FEET = 0.203 MILES LENGTH OF PROJECT ALONG VILLAGE LANE = 905 FEET = 0.171 MILES LENGTH OF PROJECT ALONG BEECH STREET = 615 FEET = 0..116 MILES

7/7/2021	REVISED NOI SUBMITTAL	1
6/9/2021	NOI SUBMITTAL	-
DATE	DESCRIPTION	REV#

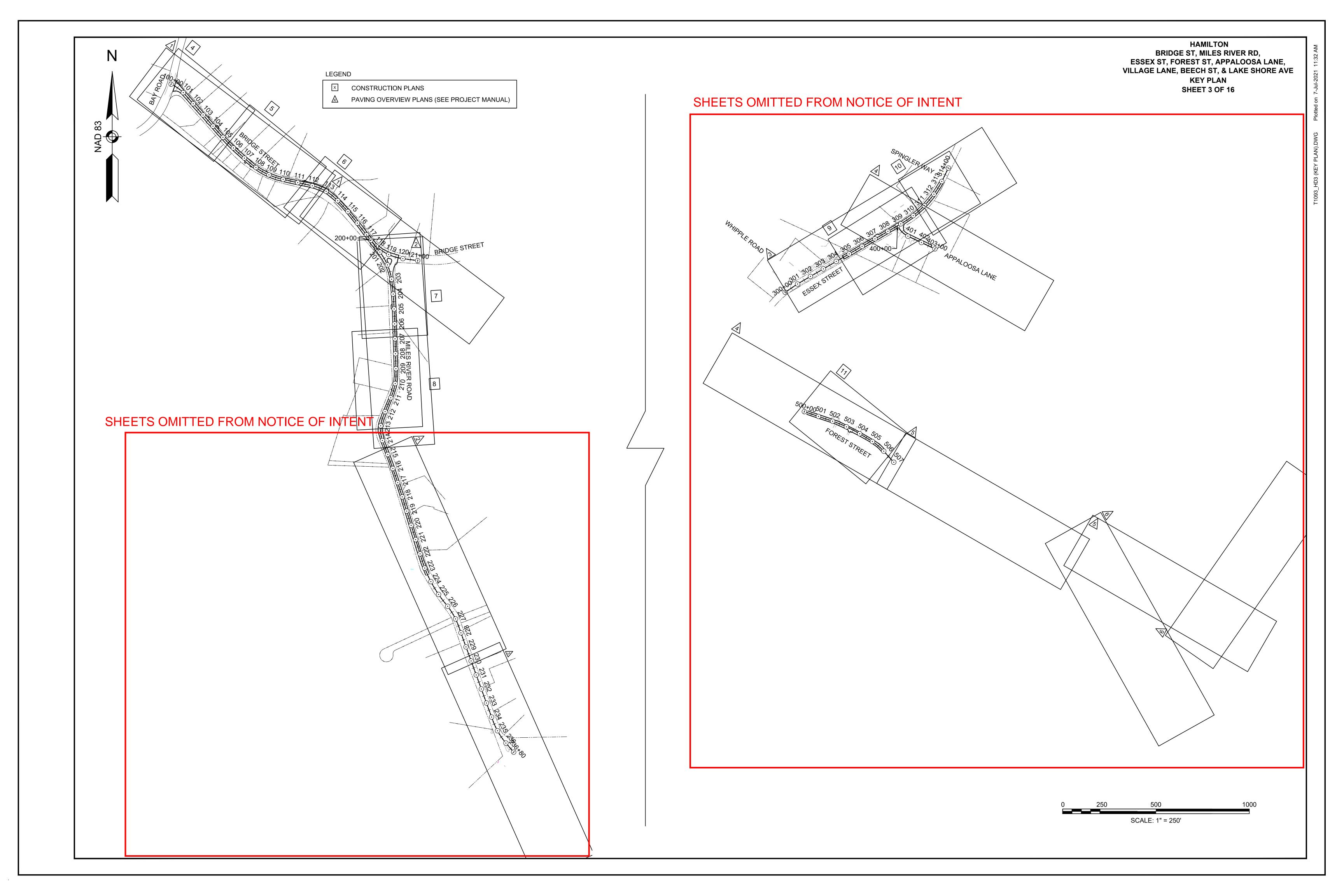


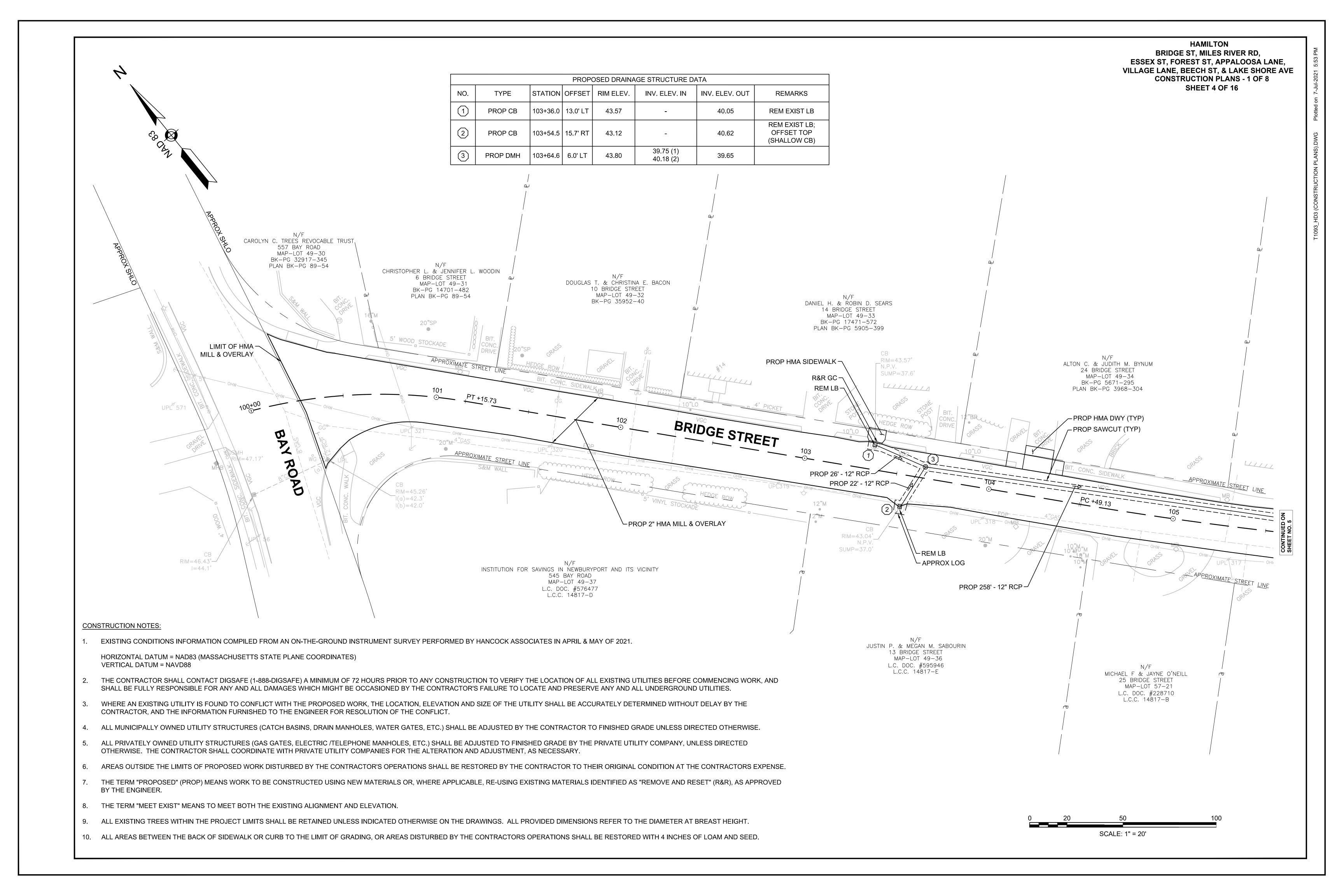
146 Dascomb Road 2nd Floor 978-794-1792 508-868-5104

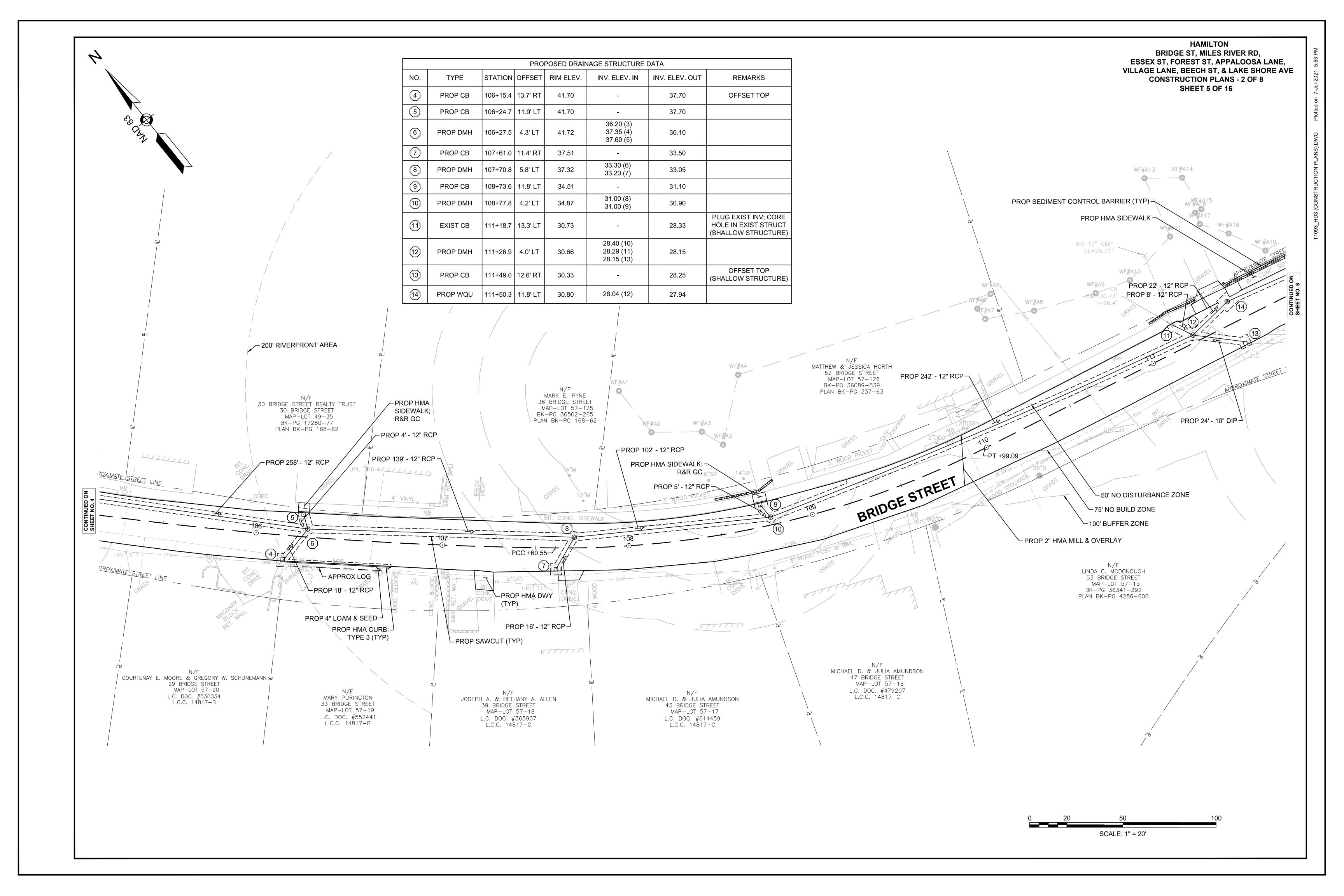
| 169 Ocean Blvd, Unit 3 Andover, MA 01810 | Worcester, MA 01608 | Hampton, NH 03842 603-601-8154

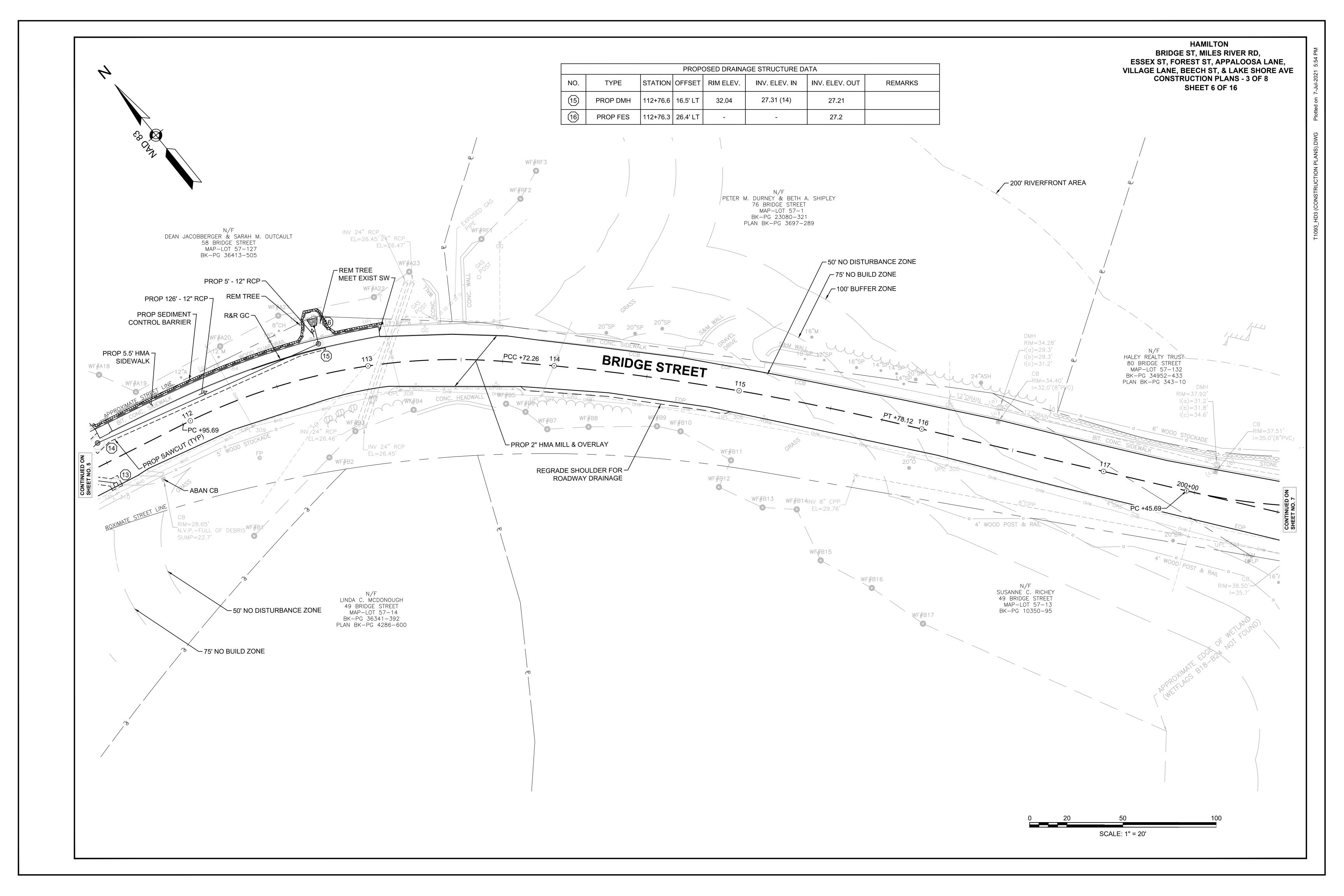
www.TheEngineeringCorp.com

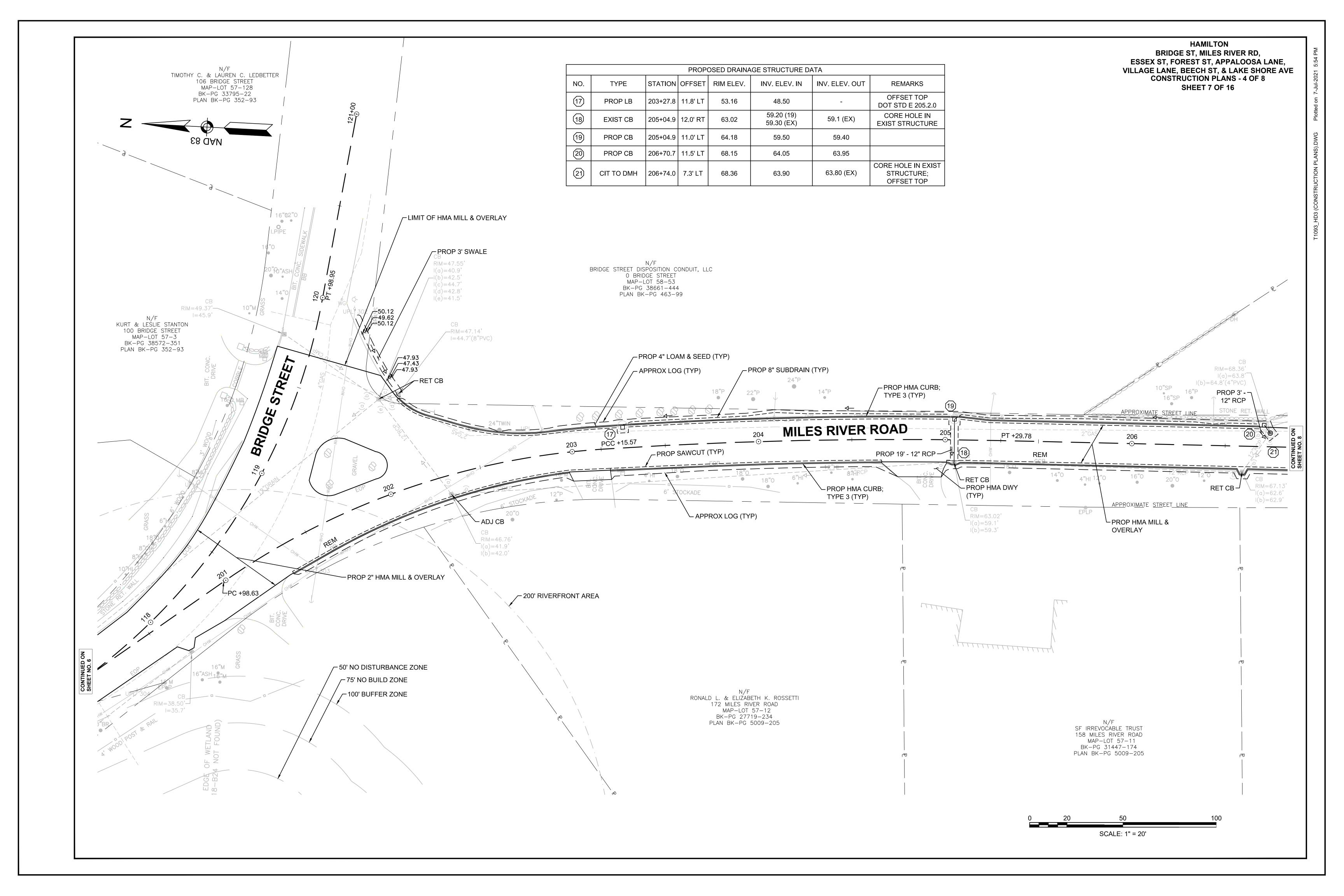
_	YMBOLS		TRAFFIC SY	MBOLS			'IATIONS	_	HAMILTON BRIDGE ST, MILES RIVER RD,
EXISTING	PROPOSED	DESCRIPTION				<u>GENERAL</u>			SSEX ST, FOREST ST, APPALOOSA LAN
JB	<u></u> JB	JERSEY BARRIER	<u>EXISTING</u>	PROPOSED	DESCRIPTION	AADT	ANNUAL AVERAGE DAILY TRAFFIC	VILL	LAGE LANE, BEECH ST, & LAKE SHORE
⊞⊕⊞ СВ	СВ	CATCH BASIN	Ø 1	Ø 1	CONTROLLER PHASE ACTUATED	ABAN	ABANDON ADJUST		LEGEND & ABBREVIATIONS SHEET 2 OF 16
		CATCH BASIN CURB INLET	[Ō]			ADJ APPROX.	APPROXIMATE		OHEET Z OF TO
♥ FP © GP		FLAG POLE			TRAFFIC SIGNAL HEAD (SIZE AS NOTED)	A.C.	ASPHALT CONCRETE		
□ MB	☐ GP □ MB	GAS PUMP MAIL BOX	<u>[O]</u>			ACCM PIPE	ASPHALT COATED CORRUGATED METAL PIPE		
		POST SQUARE			WIRE LOOP DETECTOR (6' x 6' TYP UNLESS OTHERWISE SPECIFIED)	BIT.	BITUMINOUS		
\bigcirc	0	POST CIRCULAR	7	7	VIDEO DETECTION CAMERA	ВС	BOTTOM OF CURB		
⊕ WELL	⊕ WELL	WELL		_ > ■	MICROWAVE DETECTOR	BD.	BOUND		
- EHH	□ EHH	ELECTRIC HANDHOLE	0			BL	BASELINE	ABBRE	VIATIONS (cont.)
0	\circ	FENCE GATE POST	\oplus	•	PEDESTRIAN PUSH BUTTON, SIGN (DIRECTIONAL ARROW AS SHOWN) AND SADDLE	BLDG	BUILDING	GENERA	
O GG	o GG	GAS GATE	*	*	EMERGENCY PREEMPTION CONFIRMATION STROBE LIGHT	BM	BENCHMARK	GENERA	
◆ BHL #	◆ BHL #	BORING HOLE	↓	←	VEHICULAR SIGNAL HEAD	BO BOS	BY OTHERS BOTTOM OF SLOPE	R&D	RADIUS OF CURVATURE REMOVE AND DISPOSE
→ MW #	→ MW #	MONITORING WELL	•			BR.	BRIDGE	RCP	REINFORCED CONCRETE PIPE
TP #	■ TP#	TEST PIT	≪—	←	VEHICULAR SIGNAL HEAD, OPTICALLY PROGRAMMED	CB	CATCH BASIN	RD	ROAD
ϕ	ф V	HYDRANT	←	•	FLASHING BEACON	CBCI	CATCH BASIN WITH CURB INLET	RDWY	ROADWAY
☆	*	LIGHT POLE			PEDESTRIAN SIGNAL HEAD, (TYPE AS NOTED OR AS SPECIFIED)	CC	CEMENT CONCRETE	REM	REMOVE
CO.BD.		COUNTY BOUND	M. DDCO	F PD00		CCM	CEMENT CONCRETE MASONRY	RET	RETAIN
		GPS POINT CABLE MANHOLE	⊠ RRSG	☑ RRSG	RAILROAD SIGNAL	CEM	CEMENT	RET WALL	RETAINING WALL
© (6)	© @	DRAINAGE MANHOLE	OR O	•	SIGNAL POST AND BASE (ALPHA-NUMERIC DESIGNATION NOTED)	CI	CURB INLET	ROW	RIGHT OF WAY
© ©	(F)	ELECTRIC MANHOLE	○	20'	MAST ARM, SHAFT AND BASE (ARM LENGTH AS NOTED)	CIP	CAST IRON PIPE	RR	RAILROAD
<u> </u>	<u>.</u> (6)	GAS MANHOLE		-		CLF	CHAIN LINK FENCE	R&R	REMOVE AND STACK
) M	(M)	MISC MANHOLE			HIGH MAST POLE OR TOWER	CL	CENTERLINE CORRUGATED METAL PIPE	R&S	REMOVE AND STACK RIGHT
<u> </u>	<u> </u>	SEWER MANHOLE			SIGN AND POST	CMP	CORRUGATED STEEL DIDE	RT SB	STONE BOUND
T	Ť	TELEPHONE MANHOLE	00	00	SIGN AND POST (2 POSTS)	CSP	COUNTY	SHLD	SHOULDER
W	w	WATER MANHOLE		¥ ^{20'} ●		CO. CONC	COUNTY CONCRETE	SMH	SEWER MANHOLE
■ MHB	■ MHB	MASSACHUSETTS HIGHWAY BOUND		·	MAST ARM WITH LUMINAIRE	CONT	CONTINUOUS	ST	STREET
□ MON		MONUMENT		-	OPTICAL PRE-EMPTION DETECTOR	CONST	CONSTRUCTION	STA	STATION
□ SB		STONE BOUND	\bowtie	\bowtie	CONTROL CABINET, GROUND MOUNTED	CR GR	CROWN GRADE	SSD	STOPPING SIGHT DISTANCE
■ TB		TOWN OR CITY BOUND			CONTROL CABINET, POLE MOUNTED	DHV	DESIGN HOURLY VOLUME	SHLO	STATE HIGHWAY LAYOUT LINE
Δ		TRAVERSE OR TRIANGULATION STATION			CONTROL CABINET, POLE MOUNTED	DI	DROP INLET	SW	SIDEWALK
TPL or GUY	→ TPL or GUY			⋈• ≣	FLASHING BEACON CONTROL AND METER PEDESTAL	DIA	DIAMETER	T	TANGENT DISTANCE OF CURVE/TRUCI
o HTP	LUED	TRANSMISSION POLE	\bowtie	\bowtie	LOAD CENTER ASSEMBLY	DIP	DUCTILE IRON PIPE	TAN	TANGENT
-d- UFB	-∳ UFB	UTILITY POLE W/ FIREBOX			PULL BOX 12"x12" (OR AS NOTED)	DW	STEADY DON'T WALK - PORTLAND ORANGE	TEMP	TEMPORARY
- UPDL	-∳- UPDL	UTILITY POLE WITH DOUBLE LIGHT				DWY	DRIVEWAY	TC TOS	TOP OF CURB TOP OF SLOPE
-&- ULT ->- UPL	-&- ULT -⊶ UPL	UTILITY POLE W / 1 LIGHT UTILITY POLE			ELECTRIC HANDHOLE 12"x24" (OR AS NOTED)	, ,	ELEVATION	TYP	TYPICAL
OPL O	-→ UPL	BUSH			= TRAFFIC SIGNAL CONDUIT	EMB	EMBANKMENT	UP	UTILITY POLE
IZE & TYPE		TREE				EOP EXIST (or EX)	EDGE OF PAVEMENT	VAR	VARIES
0		STUMP				EXC EXC	EXCAVATION	VERT	VERTICAL
<u>.</u>		SWAMP / MARSH				F&C	FRAME AND COVER	VC	VERTICAL CURVE
• WG	。 WG	WATER GATE				F&G	FRAME AND GRATE	WCR	WHEEL CHAIR RAMP
• PM	° PM	PARKING METER				FDN.	FOUNDATION	WG	WATER GATE
		OVERHEAD CABLE/WIRE				FLDSTN	FIELDSTONE	WIP	WROUGHT IRON PIPE
		= CURBING				GAR	GARAGE	WM	WATER METER/WATER MAIN
		CONDING							CROSS SECTION
<u></u>		 CONTOURS (ON-THE-GROUND SURVEY DATA) 				GD	GROUND	X-SECT	
0099 0099		CONTOURS (ON-THE-GROUND SURVEY DATA)CONTOURS (PHOTOGRAMMETRIC DATA)				GD GG	GROUND GAS GATE	X-SECT	
0		CONTOURS (ON-THE-GROUND SURVEY DATA)CONTOURS (PHOTOGRAMMETRIC DATA)UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER)	PAVEMENT I	MARKINGS SY	YMBOLS	GG GI	GAS GATE GUTTER INLET	X-SECT	
<u>99</u>		 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) 	PAVEMENT I	MARKINGS S		GG GI GIP	GAS GATE GUTTER INLET GALVANIZED IRON PIPE	X-SECT	
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 I EXISTING	MARKINGS SY	YMBOLS <u>DESCRIPTION</u>	GG GI GIP GRAN	GAS GATE GUTTER INLET GALVANIZED IRON PIPE GRANITE	X-SECT	
<u>99</u>		 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) 			DESCRIPTION	GG GI GIP GRAN GRAV	GAS GATE GUTTER INLET GALVANIZED IRON PIPE GRANITE GRAVEL	X-SECT	
99 <u></u>		 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	DESCRIPTION PAVEMENT ARROW - WHITE	GG GI GIP GRAN GRAV GRD	GAS GATE GUTTER INLET GALVANIZED IRON PIPE GRANITE GRAVEL GUARD	X-SECT	
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) 		PROPOSED	DESCRIPTION	GG GI GIP GRAN GRAV GRD HDW	GAS GATE GUTTER INLET GALVANIZED IRON PIPE GRANITE GRAVEL GUARD HEADWALL	X-SECT	
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99 — 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 GUARD RAIL - WOOD POSTS GUARD RAIL - DOUBLE FACE - STEEL POSTS GUARD RAIL - DOUBLE FACE - WOOD POSTS CHAIN LINK OR METAL FENCE WOOD FENCE SEDIMENT CONTROL BARRIER TREE LINE SAWCUT LINE	EXISTING ONY	PROPOSED The second se	DESCRIPTION PAVEMENT ARROW - WHITE LEGEND "ONLY" - WHITE STOP LINE CROSSWALK SOLID WHITE LINE SOLID YELLOW LINE BROKEN WHITE LINE BROKEN YELLOW LINE DOTTED WHITE LINE	GG GI GIP GRAN GRAV GRD HDW HMA HOR HYD INV JCT L LB LP LT MAX MB	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	X-SEC1	
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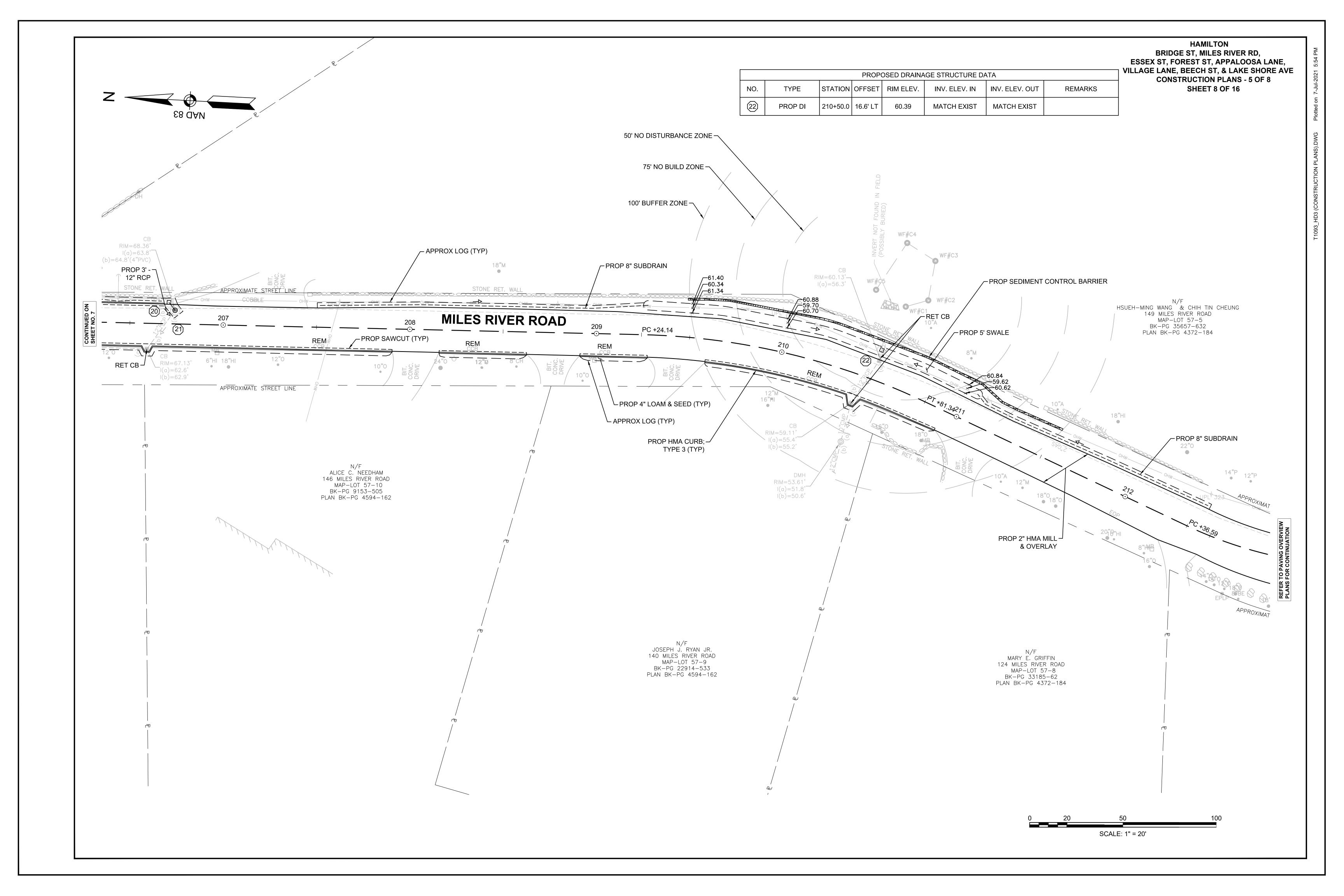












HAMILTON

SHEET 16 OF 16

INSTALL SILT SACK IN EXISTING CATCH BASINS BEFORE COMMENCING WORK, AND IN NEW CATCH BASINS IMMEDIATELY AFTER INSTALLATION OF STRUCTURE MAINTAIN UNTIL BINDER COURSE PAVING IS COMPLETE OR A PERMANENT STAND OF GRASS HAS BEEN ESTABLISHED.

GRATE TO BE PLACED OVER SILT SACK.

AND CLEANING OR REPLACEMENT SHALL BE PERFORMED PROMPTLY AS NEEDED. INLET PROTECTION SILT SACK IN CATCH BASIN

SILT SACK SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS

- SILT SACK PLAN VIEW

PAVEMENT NOTES

PROPOSED MILL & HOT MIX ASPHALT (HMA) OVERLAY

SURFACE: 2" SUPERPAVE SURFACE COURSE - 12.5 (SSC-12.5) OVER ASPHALT EMULSION TACK COAT OVER 2" PAVEMENT FINE MILLING

PROPOSED FULL DEPTH PAVEMENT LESS THAN 4' WIDE

SURFACE: 2" SUPERPAVE SURFACE COURSE - 12.5 (SSC-12.5) OVER ASPHALT EMULSION TACK COAT OVER

6" HIGH EARLY STRENGTH CEMENT CONCRETE BASE COURSE OVER

SUBBASE: 12" GRAVEL BORROW, TYPE b

PROPOSED PERMANENT PAVEMENT TRENCH PATCH

SURFACE: VARIABLE DEPTH HMA FOR PATCHING TO MATCH EXISTING PAVEMENT PER SECTION 450.53

(COMPACTED IN 2" (MAX) LIFTS TO MATCH EXIST PAVEMENT THICKNESS)

8" GRAVEL BORROW, TYPE b OVER

SUBBASE: EXISTING MATERIAL SUITABLE FOR RE-USE (SEE VARIOUS TRENCH DETAILS)

PROPOSED TEMPORARY PAVEMENT TRENCH PATCH

SURFACE: 21/2" TEMPORARY ASPHALT PATCHING

EXISTING MATERIAL SUITABLE FOR RE-USE (SEE VARIOUS TRENCH DETAILS)

PROPOSED HMA SIDEWALK

SURFACE: 11/4" SUPERPAVE SURFACE COURSE 9.5 (SSC -9.5) OVER

1¾" SUPERPAVE INTERMEDIATE COURSE 12.5 (SIC - 12.5) OVER

8" SUITABLE EXISTING GRAVEL; ADD GRAVEL BORROW, TYPE b AS REQUIRED

PROPOSED DRIVEWAY APRON REPAIR

GENERAL PAVEMENT NOTES:

SURFACE: 11/2" SUPERPAVE SURFACE COURSE 9.5 (SSC -9.5) OVER

2½" SUPERPAVE INTERMEDIATE COURSE 12.5 (SIC - 12.5) OVER

8" SUITABLE EXISTING GRAVEL;

ADD GRAVEL BORROW, TYPE b AS REQUIRED

1. ASPHALT EMULSION FOR TACK COAT SHALL BE APPLIED BETWEEN ALL ASPHALT SURFACES AND SAWCUT JOINTS BEFORE PAVING. HMA JOINT SEALANT SHALL BE APPLIED TO ALL COLD JOINTS (LONGITUDINAL AND TRANSVERSE) BEFORE PAVING SURFACE COURSE. ASPHALT EMULSION FOR TACK COAT SHALL BE APPLIED IN ACCORDANCE WITH SUBSECTION 450.43. ALL SURFACES SHALL BE CLEAN OF ALL ORGANICS, DEBRIS, AND SAND PRIOR TO PAVING.

2. ALL HMA SHALL BE IN ACCORDANCE WITH SECTION 460.

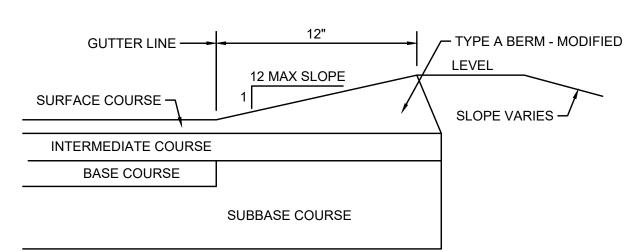
3. ASPHALT EMULSION FOR TACK COAT SHALL BE RS-1H TO RESIST TRACKING OF TACK BY HAUL VEHICLES.

4. HMA FOR WALKS SHALL BE IN ACCORDANCE WITH SECTION 702.

5. ALL GRAVEL BORROW MEETING SPECIFICATION SHALL BE RETAINED IN PLACE, COMPACTED, AND LEVELED AS REQUIRED.

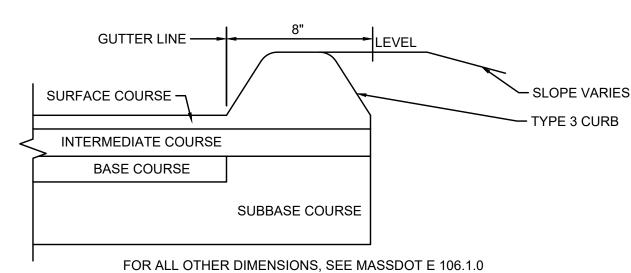
- PROP GRANITE CURB W/ 6" REVEAL GUTTER LINE ---TREATMENT VARIES (SEE PLANS) HMA FOR PATCHING (MATCH EXIST TOP COURSE THICKNESS) — EXISTING PAVEMENT SAWCUT -- GRAVEL BASE COURSE * CEMENT CONCRETE -* CONCRETE SHALL BE INCLUDED IN PRICE BID FOR VARIOUS GRANITE CURB ITEMS FOR 6" OFFSET FROM

GRANITE CURB IN EXISTING PAVEMENT



FOR ALL OTHER DIMENSIONS, SEE MASSDOT E 106.1.0

MONOLITHIC BERM



HMA CURB TYPE 3

NOTES:

TUBES MAY BE

PLACED ON THE

SEE NOTE 4 -

TOP

SLAB

MONOLITHIC

BASE SECTION

1. ALL SECTIONS SHALL BE DESIGNED FOR HS-20 LOADING.

INVERT

4 4'-0" SUMP

(SEE NOTE 5)

2. PROVIDE DOGHOUSE OPENING FOR PIPE WITH 2" MAX CLEARANCE TO OUTSIDE OF PIPE. TOP SLAB SHALL NOT REST DIRECTLY ON PIPE. GROUT ALL PIPE CONNECTIONS WITH NON-SHRINK GROUT.

 $4' \pm 1"$ DIAMETER

24" SQUARE

. OPENING

- 3. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.
- 4. CATCH BASIN AND MANHOLE FRAMES SHALL BE SET IN FULL MORTAR BED.
- 5. OMIT 4' SUMP FOR MANHOLE STRUCTURES.
- 6. FRAME ELEVATION SHALL BE INSTALLED AT FINISH GRADE USING VARIABLE FRAME DEPTHS AND VARIABLE HEIGHT BRICK COURSES.

GUTTER LINE ---

SPECIAL CATCH BASIN/MANHOLE (SHALLOW)

NOT TO SCALE

NOTES:

- 1. PROVIDE A MINIMUM BARRIER TUBE DIAMETER OF 12 INCHES FOR SLOPES UP TO 50 FEET IN LENGTH WITH A SLOPE RATIO OF 3H:1V OR STEEPER. LONGER SLOPES OF 3H:1V MAY REQUIRE LARGER TUBE DIAMETER OR ADDITIONAL COURSING OF TUBES TO CREATE A FILTER BERM. REFER TO MANUFACTURER'S RECOMMENDATIONS FOR SITUATIONS WITH LONGER OR STEEPER SLOPES.
- 2. INSTALL BARRIER TUBES ALONG CONTOURS AND PERPENDICULAR TO SHEET OR CONCENTRATED FLOW.
- 3. TUBE LOCATION MAY BE SHIFTED TO ADJUST TO LANDSCAPE FEATURES, BUT SHALL PROTECT UNDISTURBED AREA AND VEGETATION TO MAXIMUM EXTENT POSSIBLE.
- 4. DO NOT INSTALL IN PERENNIAL, EPHEMERAL OR INTERMITTENT STREAMS. 5. ADDITIONAL BARRIER TUBES SHALL BE USED AT THE DIRECTION OF THE ENGINEER.
- 6. ADDITIONAL STAKING SHALL BE USED AT THE DIRECTION OF THE ENGINEER. - SEDIMENT CONTROL BARRIER MINIMUM 12 INCHES IN DIAMETER WITH AN EFFECTIVE HEIGHT OF 9.5 INCHES.

BARRIERS FOR SEDIMENT CONTROL SHALL BE JUTE MESH OR APPROVED BIODEGRADABLE MATERIAL, HOWEVER PHOTO-BIODEGRADABLE FABRIC SHALL BE REMOVED AT END OF CONTRACT.

TAMP BARRIER TUBES IN PLACE TO ENSURE GOOD

TRENCH BARRIERS INTO EXISTING GRADE. - SEDIMENT CONTROL BARRIER TUBES SHALL BE STAKED OR LEANED AGAINST SUPPORTS (TREES, CINDER BLOCKS) ON SLOPES 2:1 OR GREATER.

CONTACT WITH SOIL SURFACE. IT IS NOT NECESSARY TO

WHERE NECESSARY, STAKING SHALL BE MIN. 1 INCH X 1 INCH X 3 FEET UNTREATED HARDWOOD STAKES, UP TO 5 FT. APART OR AS REQUIRED TO SECURE BARRIER TUBES IN PLACE. TUBES SHALL BE STAKED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.

UNDISTURBED SOIL & VEGETATION. TUBES SHALL BE PLACED AS CLOSE TO LIMITS OF SOIL DISTURBANCE AS POSSIBLE.

BARRIER TUBES UPHILL SIDE OF CAN BE PLACED WELL- ANCHORED, DIRECTLY ON STATIONARY **EXISTING** FEATURES SUCH AS PAVEMENT WHEN **EXISTING TREES IN** NECESSARY. LIEU OF STAKING. DIRECTION OF FLOW EXISTING HEADWALL OR OTHER OBSTACLE TUBES MAY BE SLEEVED (ONE INSERTED INTO ANOTHER) OR PROVIDE A 3 FT. MINIMUM OVERLAP AT ENDS OF TUBES TO JOIN IN A CONTINUOUS **CURVE ENDS UPHILL** TO PREVENT UNTREATED HARDWOOD STAKES **DIVERSION OF**

SURFACE TREATMENT TYPE 3 CURB -1/2" CRUSHED STONE SEE E 209.1.0 FOR SUBDRAIN DETAIL — MINIMUM WIDTH O.D. PIPE + 12"

TYPICAL SUBDRAIN PLACEMENT

N.T.S.

6" TO 8" CATCH BASIN OR MANHOLE FRAME AS REQUIRED

SEE NOTE 3

- DRAIN PIPE AS NOTED

- "DOGHOUSE" CUT—OUT

(SEE NOTE 2)

(SEE NOTE 6)

(TYP.) UNFILTERED RUN-OFF. PLAN VIEW

SEDIMENT CONTROL BARRIER