MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
HIGHWAY DIVISION

NORTHAMPTON
KING STREET (RT. 5) CORRIDOR IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX(XXX)X	1	17
PROJECT FILE NO.	607502		

TITLE SHEET & INDEX

KING STREET (U.S. ROUTE 5) / SUMMER STREET / NORTH STREET
FINN STREET/STATE STREET

IN THE CITY OF

NORTHAMPTON

HAMPSHIRE COUNTY

FEDERAL AID PROJECT NO. XXX-XXXX(XXX)X

THE MASSACHUSETTS HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES DATED 1988, AS AMENDED, THE SUPPLEMENTAL SPECIFICATIONS DATED APRIL 1, 2019, THE OCTOBER 2017 CONSTRUCTION STANDARD DETAILS, THE 2015 OVERHEAD SIGNAL STRUCTURE AND FOUNDATION STANDARD DRAWINGS, MASSDOT TRAFFIC MANAGEMENT PLANS AND DETAIL DRAWINGS, THE LATEST MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS WITH MASSACHUSETTS AMENDMENTS, 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, WILL GOVERN.

PRELIMINARY RIGHT OF WAY

INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET & INDEX
2	KEY PLAN
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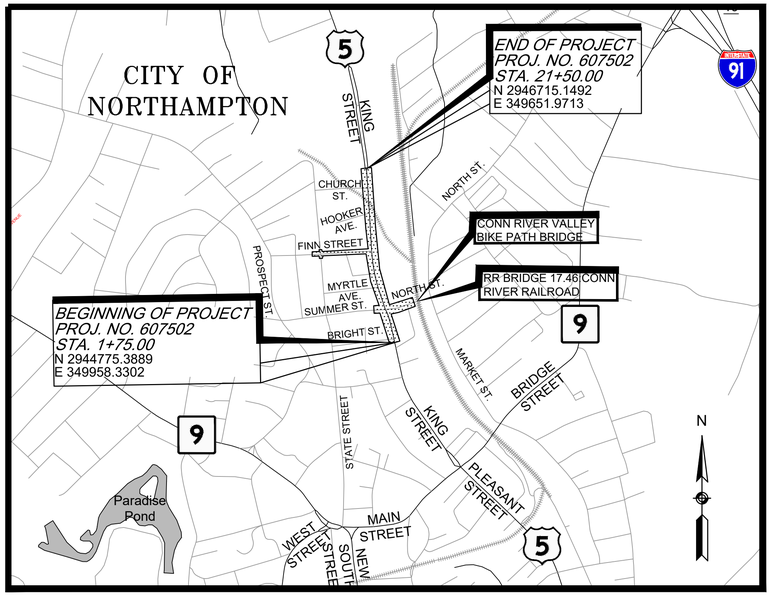

LENGTH OF PROJECT = 1,950.00 FEET = 0.369 MILES

DESIGN DESIGNATION (KING STREET)

DESIGN SPEED	30 MPH
ADT (2015)	15,575 vpd
ADT (2035)	19,004 vpd
K	8.1%
D	58% (NB)
T (PEAK HOUR)	6.9%
T (AVERAGE DAY)	5.2%
DHV	1,534 vph
DDHV	892 vph (NB)
FUNCTIONAL CLASSIFICATION	URBAN MINOR ARTERIAL (NB/SB)

DESIGN DESIGNATION (FINN STREET)

DESIGN SPEED	30 MPH
ADT (2015)	9,687 vpd
ADT (2035)	11,820 vpd
K	9.1%
D	57% (WB)
T (PEAK HOUR)	4.2%
T (AVERAGE DAY)	2.1%
DHV	1,077 vph
DDHV	609 vph (WB)
FUNCTIONAL CLASSIFICATION	URBAN MINOR ARTERIAL (EB/WB)

DATE	DESCRIPTION	REV #
07-15-2019	PRELIMINARY ROW	3
05-10-2018	PRELIMINARY ROW	2
04-04-2017	PRELIMINARY ROW	1

FUSS & O'NEILL
1550 MAIN STREET, SUITE 400
SPRINGFIELD, MA 01103
413.452.0445
www.fando.com

massDOT
Massachusetts Department of Transportation
Highway Division

RECOMMENDED FOR APPROVAL

CHIEF ENGINEER DATE

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR DATE

APPROVED

HIGHWAY ADMINISTRATOR DATE

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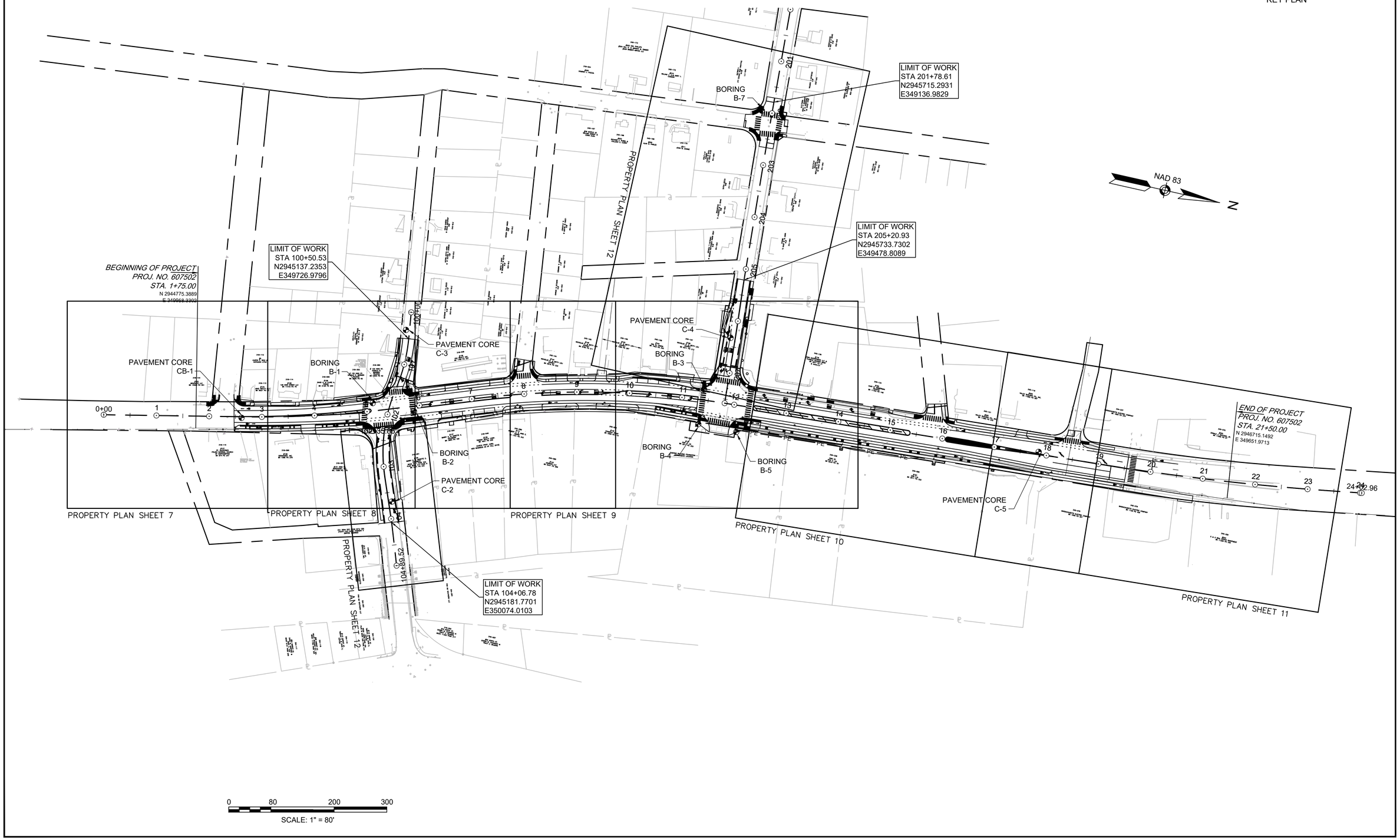
NORTHAMPTON
KING STREET (RT. 5) CORRIDOR IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX(XXX)X	2	17
PROJECT FILE NO.	607502		

PRELIMINARY RIGHT OF WAY
KEY PLAN



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GENERAL SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
JB	JB	JERSEY BARRIER ON BRIDGE OR JERSEY BARRIER
CB		CATCH BASIN
CBCI		CATCH BASIN CURB INLET
LB		LEACHING BASIN
DI		DROP INLET
CONC. HDR		CONCRETE HEADWALL
STONE HDR		STONE HEADWALL
FP		FLAG POLE
GP		GAS PUMP
MB		MAIL BOX
		POST SQUARE
		POST CIRCULAR
WELL		WELL
EHH		ELECTRIC HANDHOLE
		FENCE GATE POST
GG	GG	GAS GATE
BHL #	BHL #	BORING HOLE
MW #	MW #	MONITORING WELL
TP #	TP #	TEST PIT
		HYDRANT
		LIGHT POLE
CO.BD.		COUNTY BOUND
		GPS POINT
C		CABLE MANHOLE
D		DRAINAGE MANHOLE
E		ELECTRIC MANHOLE
G		GAS MANHOLE
FO		MISC MANHOLE
S		SEWER MANHOLE
T		TELEPHONE MANHOLE
W		WATER MANHOLE
MHB	MHB	MASSACHUSETTS HIGHWAY BOUND
MON		MONUMENT
SB		STONE BOUND
TB		TOWN OR CITY BOUND
		TRAVERSE OR TRIANGULATION STATION
TPL or GUY		TROLLEY POLE OR GUY POLE
HTP		TRANSMISSION POLE
UFB		UTILITY POLE W/ FIREBOX
UPDL		UTILITY POLE WITH DOUBLE LIGHT
ULT		UTILITY POLE W / 1 LIGHT
UPL		UTILITY POLE
		BUSH
SIZE & TYPE		TREE
		STUMP
		SWAMP / MARSH
WF-#		WETLAND FLAG
WG	WG	WATER GATE
PM		PARKING METER
		OVERHEAD CABLE/WIRE
		CURBING
		CONTOURS
		UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER)
100 99		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)
		BALANCE STONE WALL
		RETAINING WALL
		DOUBLE FACED WALL (CONCRETE OR MASONRY)
		GUARD RAIL - STEEL POSTS
		GUARD RAIL - WOOD POSTS
X	X	CHAIN LINK OR METAL FENCE
		WOOD FENCE (STOCKADE OR PICKET)
		WOOD RAIL FENCE
		HAY BALES/SILT FENCE
		TREE LINE OR LIMIT OF CLEARING AND GRUBBING
		SAWCUT LINE
		TOP OR BOTTOM OF SLOPE
		LIMIT OF EDGE OF PAVEMENT OR COLD PLANE 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
		COUNTY LAYOUT
		RAILROAD SIDELINE
		TOWN OR CITY BOUNDARY LINE
		PROPERTY LINE OR APPROXIMATE PROPERTY LINE
		EASEMENT

TRAFFIC SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
1	1	CONTROLLER PHASE ACTUATED
		TRAFFIC SIGNAL HEAD (SIZE AS NOTED)
		WIRE LOOP DETECTOR (6' x 6' TYP UNLESS OTHERWISE SPECIFIED)
		VIDEO DETECTION CAMERA
		MICROWAVE DETECTOR
		PEDESTRIAN PUSH BUTTON, SIGN (DIRECTIONAL ARROW AS SHOWN) AND SADDLE
		EMERGENCY PREEMPTION CONFIRMATION STROBE LIGHT
		VEHICULAR SIGNAL HEAD
		VEHICULAR SIGNAL HEAD, OPTICALLY PROGRAMMED
		FLASHING BEACON
		PEDESTRIAN SIGNAL HEAD, (TYPE AS NOTED OR AS SPECIFIED)
RRSG	RRSG	RAILROAD SIGNAL
OR		SIGNAL POST AND BASE (ALPHA-NUMERIC DESIGNATION NOTED)
	20'	MAST ARM, SHAFT AND BASE (ARM LENGTH AS NOTED)
		HIGH MAST POLE OR TOWER
		SIGN AND POST
		SIGN AND POST (2 POSTS)
	20'	MAST ARM WITH LUMINAIRE
		OPTICAL PRE-EMPTION DETECTOR
		CONTROL CABINET, GROUND MOUNTED
		CONTROL CABINET, POLE MOUNTED
		FLASHING BEACON CONTROL AND METER PEDESTAL
		LOAD CENTER ASSEMBLY
		PULL BOX 12"x12" (OR AS NOTED)
		ELECTRIC HANDHOLE 12"x24" (OR AS NOTED)
		TRAFFIC SIGNAL CONDUIT

PAVEMENT MARKINGS SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		PAVEMENT ARROW - WHITE
ONLY	ONLY	LEGEND "ONLY" - WHITE
	SL	STOP LINE
	CW	CROSSWALK
	SWL	SOLID WHITE LINE
	SYL	SOLID YELLOW LINE
	BWL	BROKEN WHITE LINE
	BYL	BROKEN YELLOW LINE
	DWL	DOTTED WHITE LINE
	DYL	DOTTED YELLOW LINE
	DWLEx	DOTTED WHITE LINE EXTENSION
	DYLEx	DOTTED YELLOW LINE EXTENSION
	DBWL	DOUBLE WHITE LINE
	DBYL	DOUBLE YELLOW LINE

TRAFFIC SIGNAL ABBREVIATIONS

CAB.	CABINET
CCVE	CLOSED CIRCUIT VIDEO EQUIPMENT
DW	STEADY DON'T WALK
FDW	FLASHING DON'T WALK
FR	FLASHING CIRCULAR RED
FRL	FLASHING RED LEFT ARROW
FRR	FLASHING RED RIGHT ARROW
FY	FLASHING CIRCULAR AMBER
FYL	FLASHING AMBER LEFT ARROW
FYR	FLASHING AMBER RIGHT ARROW
G	STEADY CIRCULAR GREEN
GL	STEADY GREEN LEFT ARROW
GR	STEADY GREEN RIGHT ARROW
GSL	STEADY GREEN SLASH LEFT ARROW
GSR	STEADY GREEN SLASH RIGHT ARROW
GV	STEADY GREEN VERTICAL ARROW
OL	OVERLAP
PED	PEDESTRIAN
PTZ	PAN, TILE, ZOOM

TRAFFIC SIGNAL ABBREVIATIONS(cont.)

R	STEADY CIRCULAR RED
RL	STEADY RED LEFT ARROW
RR	STEADY RED RIGHT ARROW
TR SIG	TRAFFIC SIGNAL
TSC	TRAFFIC SIGNAL CONDUIT
W	STEADY WALK
Y	STEADY CIRCULAR AMBER
YL	STEADY AMBER LEFT ARROW

ABBREVIATIONS

GENERAL

AADT	ANNUAL AVERAGE DAILY TRAFFIC
ABAN	ABANDON
ADJ	ADJUST
APPROX.	APPROXIMATE
A.C.	ASPHALT CONCRETE
ACCM PIPE	ASPHALT COATED CORRUGATED METAL PIPE
BIT.	BITUMINOUS
BC	BOTTOM OF CURB
BD.	BOUND
BL	BASELINE
BLDG	BUILDING
BM	BENCHMARK
BO	BY OTHERS
BOS	BOTTOM OF SLOPE
BR.	BRIDGE
CB	CATCH BASIN
CBCI	CATCH BASIN WITH CURB INLET
CC	CEMENT CONCRETE
CCM	CEMENT CONCRETE MASONRY
CEM	CEMENT
CI	CURB INLET
CIP	CAST IRON PIPE
CLF	CHAIN LINK FENCE
CL	CENTERLINE
CMP	CORRUGATED METAL PIPE
CSP	CORRUGATED STEEL PIPE
CO.	COUNTY
CONC	CONCRETE
CONT	CONTINUOUS
CONST	CONSTRUCTION
CR GR	CROWN GRADE
DHV	DESIGN HOURLY VOLUME
DI	DROP INLET
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DW	STEADY DON'T WALK - PORTLAND ORANGE
DWY	DRIVEWAY
ELEV (or EL.)	ELEVATION
EMB	EMBANKMENT
EOP	EDGE OF PAVEMENT
EXIST (or EX)	EXISTING
EXC	EXCAVATION
F&C	FRAME AND COVER
F&G	FRAME AND GRATE
FDN.	FOUNDATION
FLDSTN	FIELDSTONE
GAR	GARAGE
GD	GROUND
GG	GAS GATE
GI	GUTTER INLET
GIP	GALVANIZED IRON PIPE
GRAN	GRANITE
GRAV	GRAVEL
GRD	GUARD
HDW	HEADWALL
HMA	HOT MIX ASPHALT
HOR	HORIZONTAL
HYD	HYDRANT
INV	INVERT
JCT	JUNCTION
L	LENGTH OF CURVE
LB	LEACH BASIN
LP	LIGHT POLE
LT	LEFT
MAX	MAXIMUM
MB	MAILBOX
MH	MANHOLE
MHB	MASSACHUSETTS HIGHWAY BOUND
MIN	MINIMUM
NIC	NOT IN CONTRACT
NO.	NUMBER
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
P.G.L.	PROFILE GRADE LINE
PI	POINT OF INTERSECTION
POC	POINT ON CURVE
POT	POINT ON TANGENT
PRC	POINT OF REVERSE CURVATURE
PROJ	PROJECT
PROP	PROPOSED
PSB	PLANTABLE SOIL BORROW
PT	POINT OF TANGENCY
PVC	POINT OF VERTICAL CURVATURE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
PVMT	PAVEMENT

NORTHAMPTON
KING STREET (RT. 5) CORRIDOR IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX(XXX)X	3	17
PROJECT FILE NO.	607502		

PRELIMINARY RIGHT OF WAY
LEGEND & GENERAL NOTES

GENERAL NOTES:

1. INFORMATION REGARDING THE LOCATION OF EXISTING UTILITIES HAS BEEN BASED UPON AVAILABLE INFORMATION AND MAY BE INCOMPLETE, AND WHERE SHOWN SHOULD BE CONSIDERED APPROXIMATE. NO GUARANTEE TO THE ACCURACY OF THE EXISTING UTILITIES FACILITIES SHOWN IN THIS PROJECT IS EXPRESSED OR IMPLIED UNLESS OTHERWISE NOTED. CONTRACTOR SHALL CONTACT "Mass DIG-SAFE", 1-888-344-7233. CONTRACTOR SHALL MAINTAIN MARKINGS WHERE NEEDED DURING PROJECT. ALL UTILITY LOCATIONS THAT DO NOT MATCH THE VERTICAL OR HORIZONTAL CONTROL SHOWN ON THE PLANS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION. THE CONTRACTOR SHALL VERIFY LOCATIONS OF UTILITIES AND SERVICE LATERALS PRIOR TO CONSTRUCTION. ANY CONFLICTS WITH LOCATIONS OF LIGHT POLES, TREES, ETC. SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION PRIOR TO CONSTRUCTION.
2. VERIZON UNDERGROUND TELEPHONE: THE PROPOSED UNDERGROUND TELEPHONE RELOCATIONS AS SHOWN ASSUMES INSUFFICIENT COVER DUE TO PROPOSED ROADWAY WORK. ACTUAL LIMITS OF PROPOSED UNDERGROUND TELEPHONE RELOCATIONS WILL BE DETERMINED IN THE FIELD BY TEST PITS. IF COVER CAN NOT BE ACHIEVED VERIZON PREFERS TO LOWER THE LINES IN PLACE.
3. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY LOCAL AND STATE APPROVALS AND PERMITS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL CONFORM TO ALL REQUIREMENTS OF THE LOCAL AND STATE AGENCIES. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND FEES REQUIRED FOR THIS WORK INCLUDING BUT NOT LIMITED TO TOWN SIDEWALK AND EXCAVATION PERMITS AND ASSOCIATED BONDING.
4. THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES AND STRUCTURES. THOSE OF WHICH HAVE BEEN DAMAGED SHALL BE PROMPTLY REPAIRED TO EXISTING OR BETTER CONDITION AT THE CONTRACTOR'S EXPENSE.
5. THE ROADWAY IS TO BE GRADED SMOOTHLY AND EVENLY IN ACCORDANCE WITH THE GRADING AND TIE PLANS, PROFILE, AND CROSS SECTIONS. THE CONTRACTOR IS RESPONSIBLE FOR INSURING A POSITIVE DRAINAGE FLOW TO ALL CATCH BASINS WITHOUT CREATING ANY FLAT SPOTS THAT WILL RESULT IN STANDING WATER.
6. THE CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNERS TO REMOVE ANY PERSONAL ITEMS, LANDSCAPING, PLANT BULBS, PAVERS LOCATED IN THE TEMPORARY EASEMENT, TOWN LAYOUT, AND MassDOT LAYOUT.
7. ANY PUBLIC OR PRIVATE PROPERTY DISTURBED AS A RESULT OF CONSTRUCTION OPERATIONS SHALL BE RESTORED AS QUICKLY AS POSSIBLE AND TO THE SATISFACTION OF THE ENGINEER.
8. RIM OR FRAME ELEVATIONS OF ALL UTILITY STRUCTURES SHALL BE ADJUSTED TO MEET FINISHED PAVED SURFACES. PRIVATE UTILITIES WHO ARE RESPONSIBLE FOR ADJUSTING THEIR OWN STRUCTURES SHALL BE NOTIFIED AT LEAST 2 WEEKS IN ADVANCE BY THE CONTRACTOR.
9. STAGING AREAS AND MATERIAL STOCK PILES SHALL BE LIMITED WITHIN THE SITE AND LOCATED SO AS NOT TO INTERFERE WITH PEDESTRIAN OR VEHICULAR TRAFFIC UNLESS APPROVED OTHERWISE BY THE MassDOT AND THE TOWN. THE CONTRACTOR SHALL PROVIDE SAFETY DEVICES (IF ORDERED BY THE ENGINEER) TO PROTECT STOCK PILES/WORK STAGING AREAS. IF THIS WORK IS SO ORDERED THERE WILL BE NO ADDITIONAL COMPENSATION MADE TO THE CONTRACTOR.
10. HOURS OF WORK SHALL BE DEFINED IN THE CONTRACT DOCUMENTS. THE MassDOT RESERVES THE RIGHT TO ADJUST THESE HOURS IN THE INTEREST OF PUBLIC SAFETY.
11. ACCESS TO PRIVATE PROPERTIES MUST BE MAINTAINED AT ALL TIMES. FOR SECURITY REASONS ALL PRIVATELY OWNED FENCING THAT IS TO BE REMOVED SHALL BE REPLACED WITHIN 72 HOURS OF REMOVAL.
12. INSTALL SEDIMENTATION AND EROSION CONTROL MEASURES PRIOR TO START OF CONSTRUCTION. EXISTING AND PROPOSED CATCH BASINS DOWNGRADE OF ALL WORK AREAS SHALL BE SURROUNDED BY EROSION CONTROL MEASURES DURING CONSTRUCTION.

ABBREVIATIONS (cont.)

GENERAL

PWW	PAVED WATER WAY
R	RADIUS OF CURVATURE
R&D	REMOVE AND DISPOSE
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
RDWY	ROADWAY
REM	REMOVE
RET	RETAIN
RET WALL	RETAINING WALL
ROW	RIGHT OF WAY
RR	RAILROAD
R&R	REMOVE AND RESET
R&S	REMOVE AND STACK
RT	RIGHT
SB	STONE BOUND
SHLD	SHOULDER
SMH	SEWER MANHOLE
ST	STREET
STA	STATION
SSD	STOPPING SIGHT DISTANCE
SHLO	STATE HIGHWAY LAYOUT LINE
SW	SIDEWALK
T	TANGENT DISTANCE OF CURVE/TRUCK %
TAN	TANGENT
TEMP	TEMPORARY
TC	TOP OF CURB
TOS	TOP OF SLOPE
TYP	TYPICAL
UP	UTILITY POLE

ABBREVIATIONS (cont.)

GENERAL

VAR	VARIES
VERT	VERTICAL
VC	VERTICAL CURVE
WCR	WHEEL CHAIR RAMP
WG	WATER GATE
WIP	WROUGHT IRON PIPE
WM	WATER METER/WATER MAIN
X-SECT	CROSS SECTION

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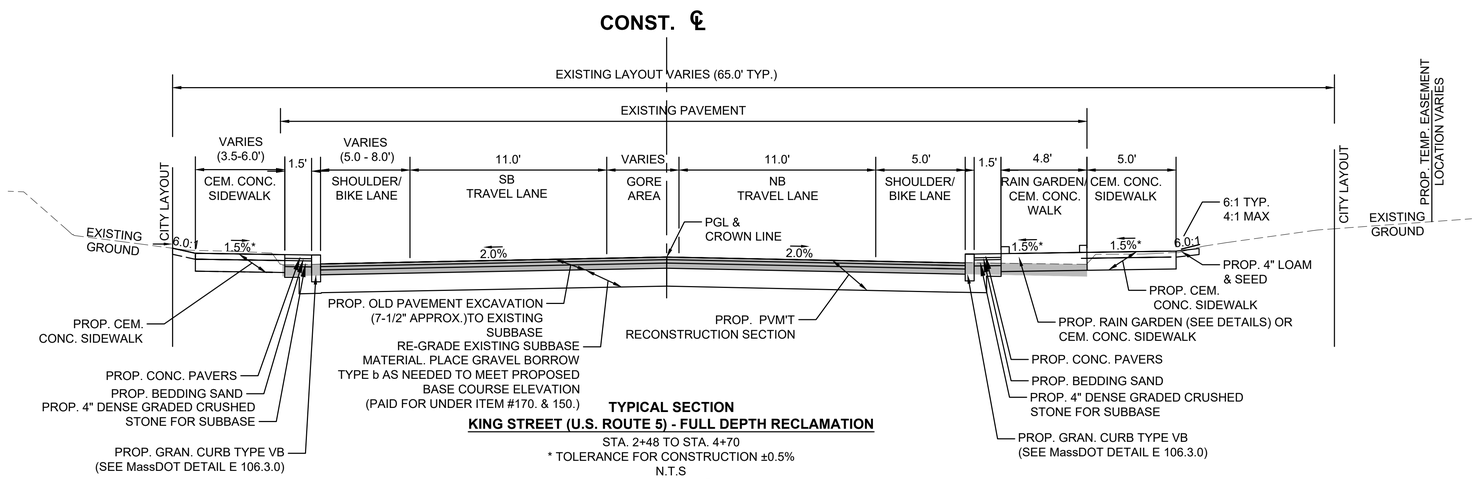
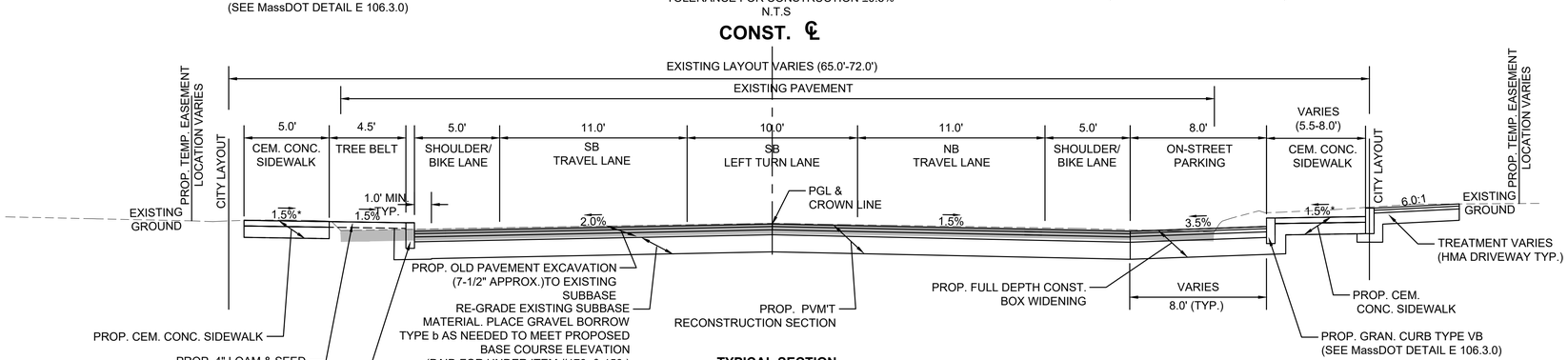
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX(XXX)X	4	17
PROJECT FILE NO.	607502		

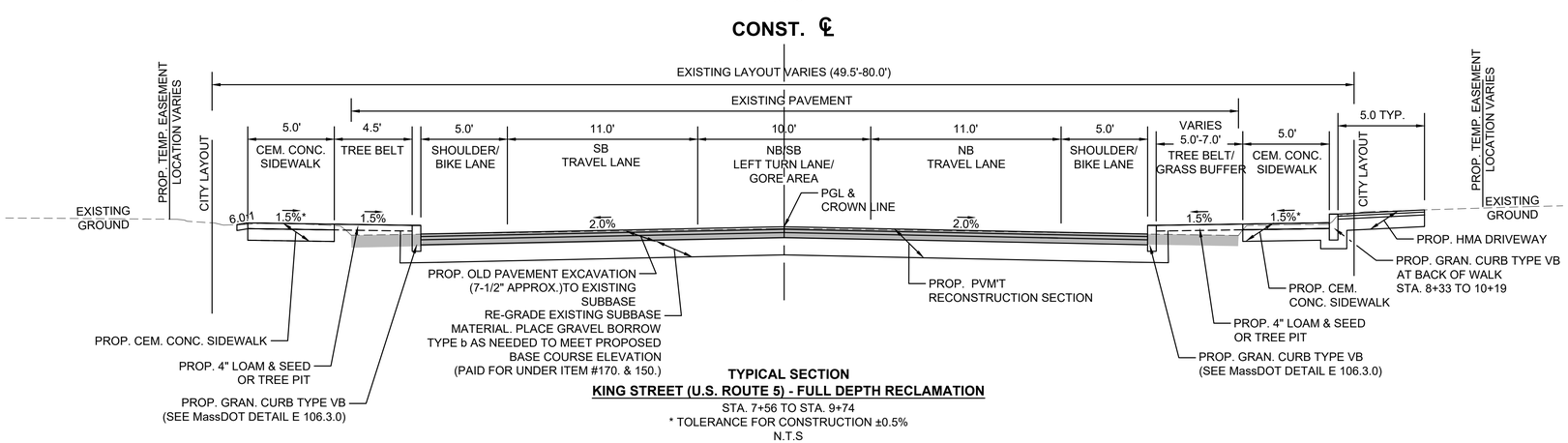
PRELIMINARY RIGHT OF WAY
TYPICAL SECTIONS



TYPICAL SECTION
KING STREET (U.S. ROUTE 5) - FULL DEPTH RECLAMATION
STA. 2+48 TO STA. 4+70
* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S



TYPICAL SECTION
KING STREET (U.S. ROUTE 5) - FULL DEPTH RECLAMATION
ON-STREET PARKING (RIGHT)
STA. 6+06 TO STA. 7+56
* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S



TYPICAL SECTION
KING STREET (U.S. ROUTE 5) - FULL DEPTH RECLAMATION
STA. 7+56 TO STA. 9+74
* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S

PAVEMENT NOTES

PROPOSED PAVEMENT MILLING AND OVERLAY - FINN ST. & NORTH ST.

1-3/4" PAVEMENT MILLING

1-3/4" SUPERPAVE SURFACE COURSE - 9.5

PROPOSED PAVEMENT RECONSTRUCTION - KING ST.

SURFACE: 1-3/4" SUPERPAVE SURFACE COURSE - 9.5 OVER
INTERMEDIATE: 2-1/4" SUPERPAVE INTERMEDIATE COURSE - 12.5 OVER
BASE: 3-1/2" SUPERPAVE BASE COURSE - 37.5 OVER
SUBBASE: RE-GRADE EXISTING SUBBASE MATERIAL, PLACE GRAVEL BORROW TYPE b AS NEEDED TO ACHIEVE PROPOSED F.G.

PROPOSED FULL DEPTH CONSTRUCTION / BOX WIDENING - KING ST, FIINN ST, SUMMER ST.

SURFACE: 1-3/4" SUPERPAVE SURFACE COURSE - 9.5 OVER
INTERMEDIATE: 2-1/4" SUPERPAVE INTERMEDIATE COURSE - 12.5 OVER
BASE: 3-1/2" SUPERPAVE BASE COURSE - 37.5 OVER
SUBBASE: 12" GRAVEL BORROW, TYPE b

PROPOSED FULL DEPTH CONSTRUCTION (LESS THAN 4.00' WIDE) - FINN ST. & NORTH ST.

SURFACE: 1-3/4" SUPERPAVE SURFACE COURSE - 9.5 OVER
INTERMEDIATE: 2-1/4" SUPERPAVE INTERMEDIATE COURSE - 12.5 OVER
BASE: 6" HIGH EARLY STRENGTH CEMENT CONCRETE BASE COURSE - 4000psi, 610, 3/4" OVER
SUBBASE: 8" GRAVEL BORROW, TYPE b.

PROPOSED CEMENT CONCRETE WALK

SURFACE: 4" CEMENT CONCRETE AIR ENTRAINED 4000psi, 3/4", 610
FOUNDATION: 8" GRAVEL BORROW, TYPE b.

PROPOSED CEMENT CONCRETE SIDEWALK THROUGH DRIVEWAY / DRIVEWAY APRON & SIDEWALK WHEEL CHAIR RAMP (WCR)

SURFACE: 6" CEMENT CONCRETE AIR ENTRAINED 4000psi, 3/4", 610
FOUNDATION: 8" GRAVEL BORROW, TYPE b.

PROPOSED HOT MIX ASPHALT DRIVEWAY / GRADE SEPARATED BIKE LANE

SURFACE: 1-1/2" SUPERPAVE SURFACE COURSE - 9.5 OVER
2" SUPERPAVE INTERMEDIATE COURSE - 12.5
FOUNDATION: 8" GRAVEL BORROW, TYPE b.

PROPOSED HOT MIX ASPHALT SIDEWALK (IF NEEDED)

1" SUPERPAVE SURFACE COURSE - 9.5 OVER
1-1/2" SUPERPAVE INTERMEDIATE COURSE - 12.5 OVER

FOUNDATION: 8" GRAVEL BORROW, TYPE b.

NOTES: PROP FULL DEPTH BOX WIDENING TO BE COORDINATED WITH RECLAMATION OPERATION. BOX WIDENING SHALL BE CONSTRUCTED WITH A 12" SUB-BASE CONSISTING OF GRAVEL BORROW AND/OR RECLAIMED PAVEMENT BORROW. BOX WIDENING SHALL BE FINE GRADED, COMPACTED AND STABILIZED DURING THE RECLAIMING OPERATION FOR THE FULL WIDTH OF THE ROADWAY.

ASPHALT EMULSION FOR TACK COAT AND HMA JOINT SEALANT SHALL BE APPLIED PER SECTION 450 QA OF THE SPECIAL PROVISIONS.

HMA FOR PATCHING SHALL BE USED FOR ALL PERMANENT, PARTIAL, AND FULL DEPTH PAVEMENT REPAIRS OF UNSOUND PAVEMENT PER SECTION 450. THIS INCLUDES ALL PERMANENT TRENCH REPAIR FOR DRAINAGE WORK ON FINN & NORTH STREET

HMA FOR MISCELLANEOUS WORK SHALL BE USED FOR ALL TEMPORARY CONSTRUCTION, TAPER RAMPS, CURB CUT RAMPS, TEMPORARY TRENCH REPAIR, ETC.

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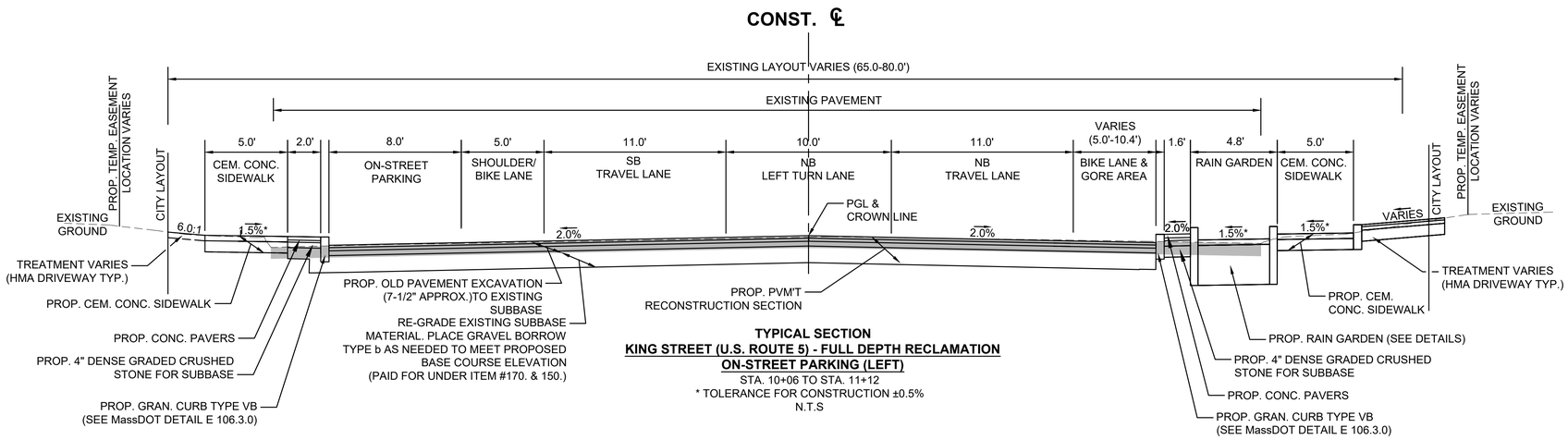
20091145A20_BND04-PARCEL_TYP_SECT.DWG 15-Jul-2019

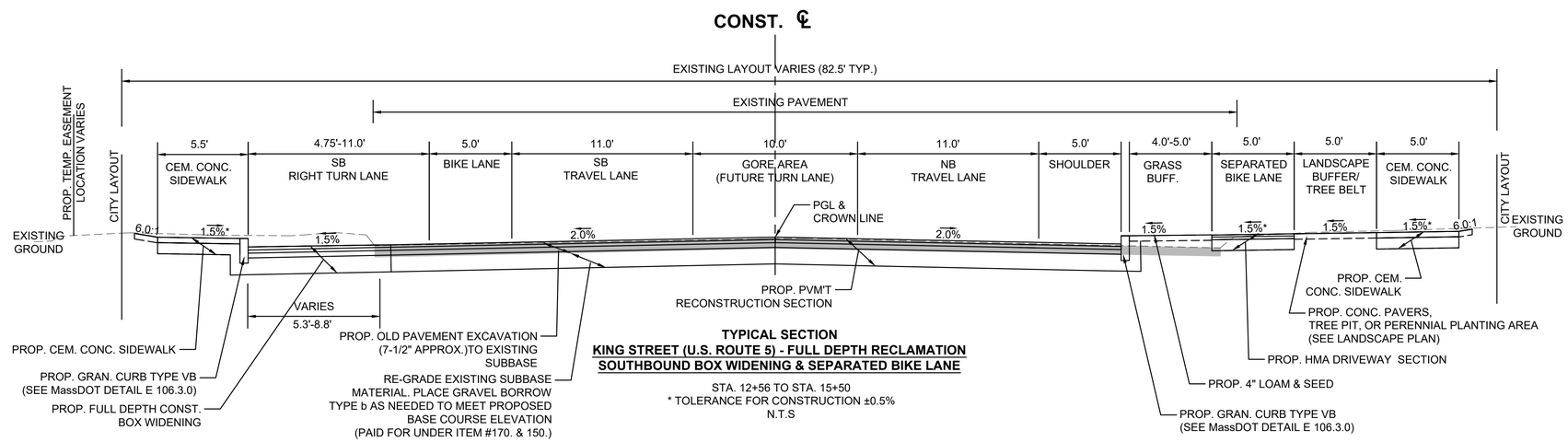
NORTHAMPTON
KING STREET (RT. 5) CORRIDOR IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX(XXX)X	5	17
PROJECT FILE NO.	607502		

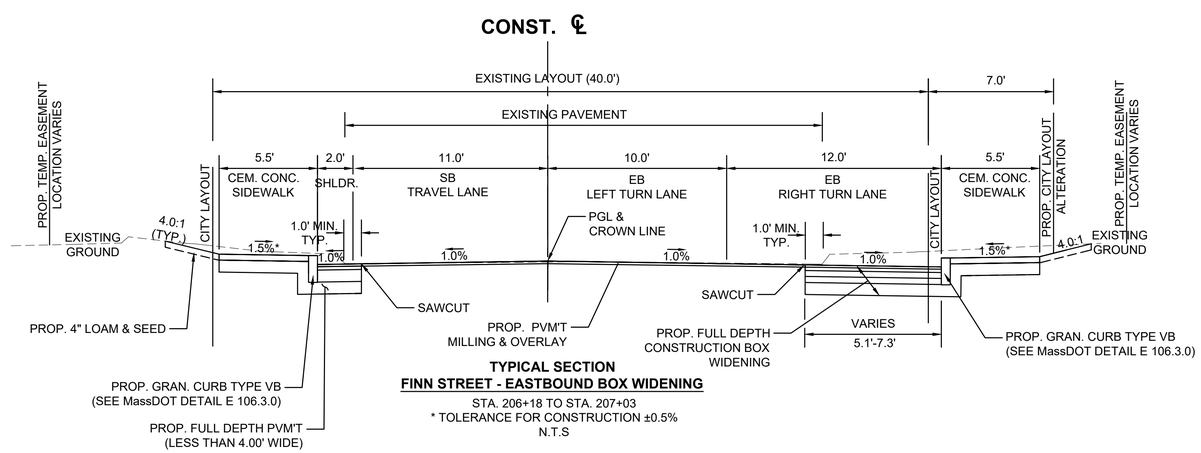
PRELIMINARY RIGHT OF WAY
TYPICAL SECTIONS



TYPICAL SECTION
KING STREET (U.S. ROUTE 5) - FULL DEPTH RECLAMATION
ON-STREET PARKING (LEFT)
STA. 10+06 TO STA. 11+12
* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S



TYPICAL SECTION
KING STREET (U.S. ROUTE 5) - FULL DEPTH RECLAMATION
SOUTHBOUND BOX WIDENING & SEPARATED BIKE LANE
STA. 12+56 TO STA. 15+50
* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S



TYPICAL SECTION
FINN STREET - EASTBOUND BOX WIDENING
STA. 206+18 TO STA. 207+03
* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S

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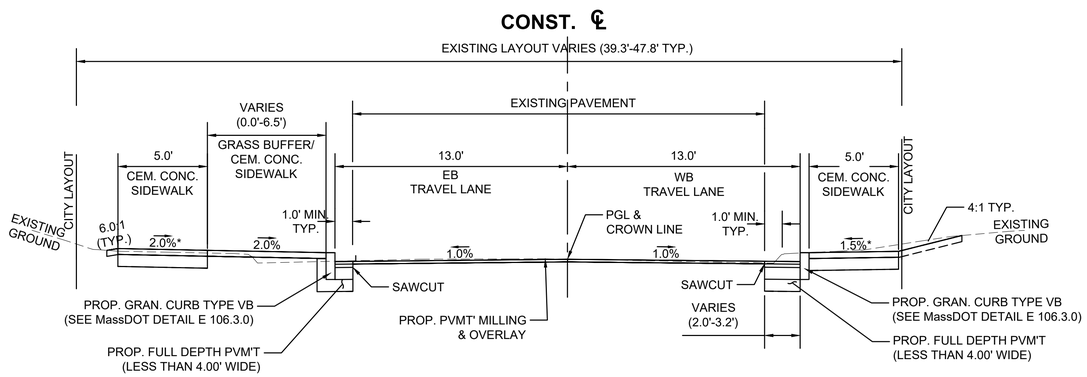
20091145A20_BND04-PARCEL_TYP_SECT.DWG 15-Jul-2019

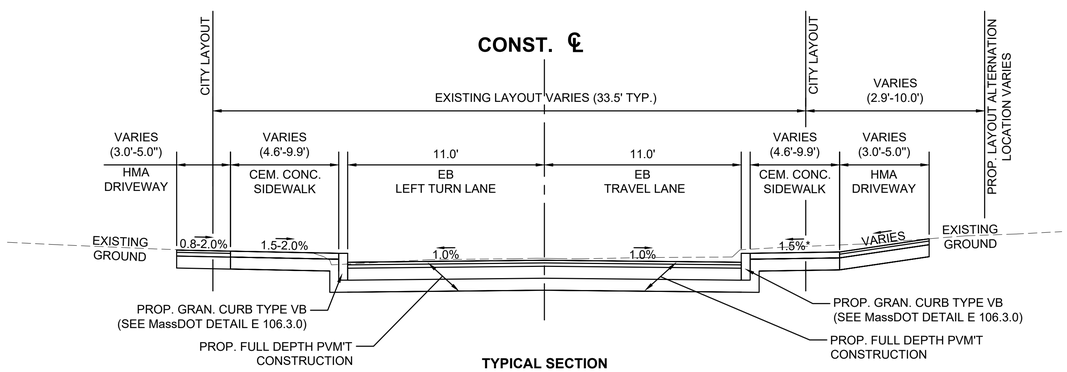
NORTHAMPTON
KING STREET (RT. 5) CORRIDOR IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX(XXX)X	6	17
PROJECT FILE NO.	607502		

PRELIMINARY RIGHT OF WAY
TYPICAL SECTIONS



TYPICAL SECTION
NORTH STREET - PAVEMENT MILLING & OVERLAY
STA. 102+50 TO STA. 104+00
* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S



TYPICAL SECTION
SUMMER STREET - FULL DEPTH PAVEMENT
STA. 100+50 TO STA. 101+25
* TOLERANCE FOR CONSTRUCTION ±0.5%
N.T.S

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MS VIEW: X
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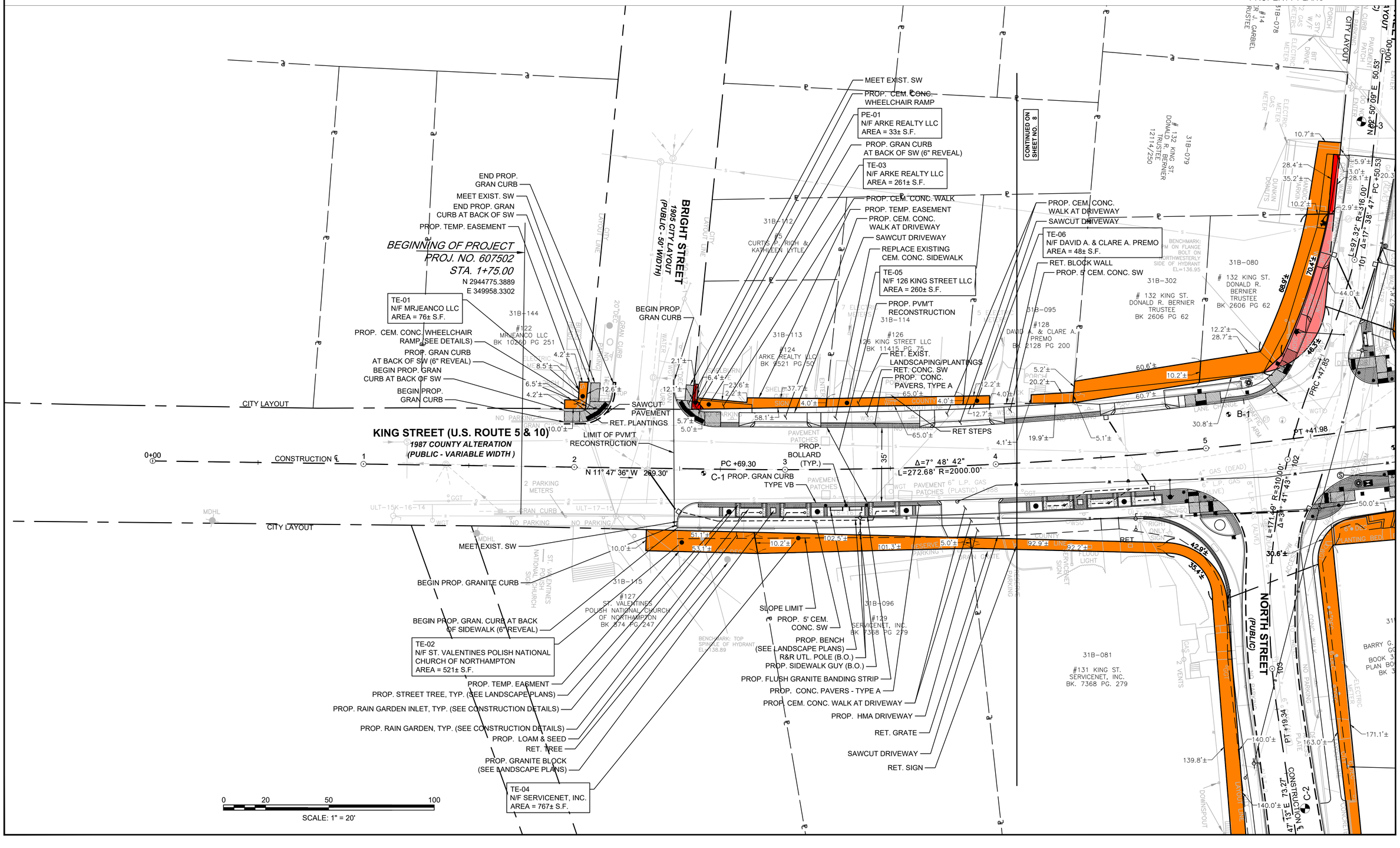
20091145A20_BND04-PARCEL_TYP_SECT.DWG 15-Jul-2019

NORTHAMPTON
KING STREET (RT. 5) CORRIDOR IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX(XXX)X	7	17
PROJECT FILE NO.	607502		

PRELIMINARY RIGHT OF WAY
PROPERTY PLANS



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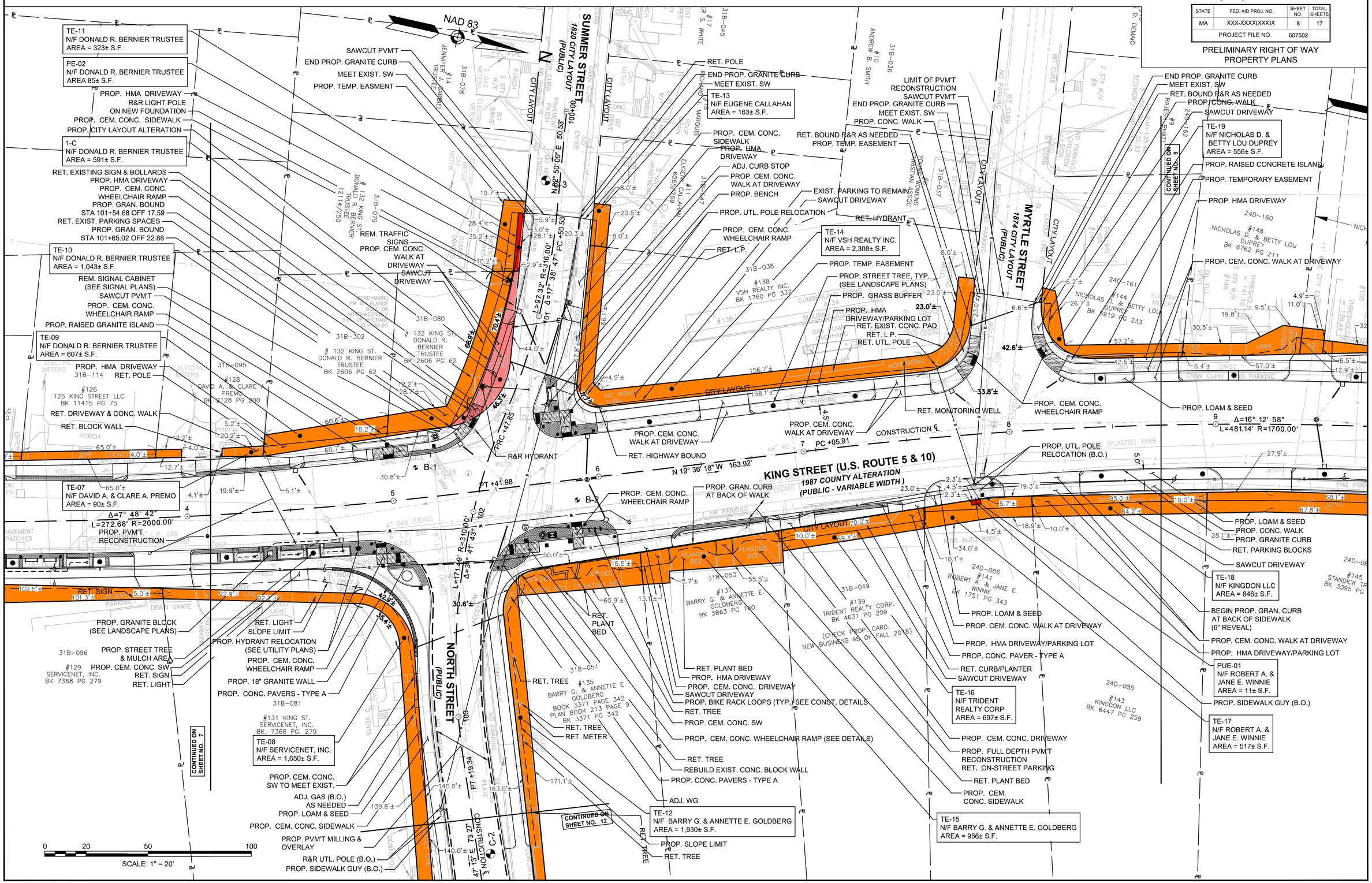
MS VIEW: -
LAYER STATE: -

20091145A20_BND05-PROPERTY PLAN SHEETS.DWG Plotted on 16-Jul-2019 1:55 PM

NORTHAMPTON
KING STREET (RT. 5) CORRIDOR IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX(XXX)X	8	17
PROJECT FILE NO.	607502		

PRELIMINARY RIGHT OF WAY PROPERTY PLANS



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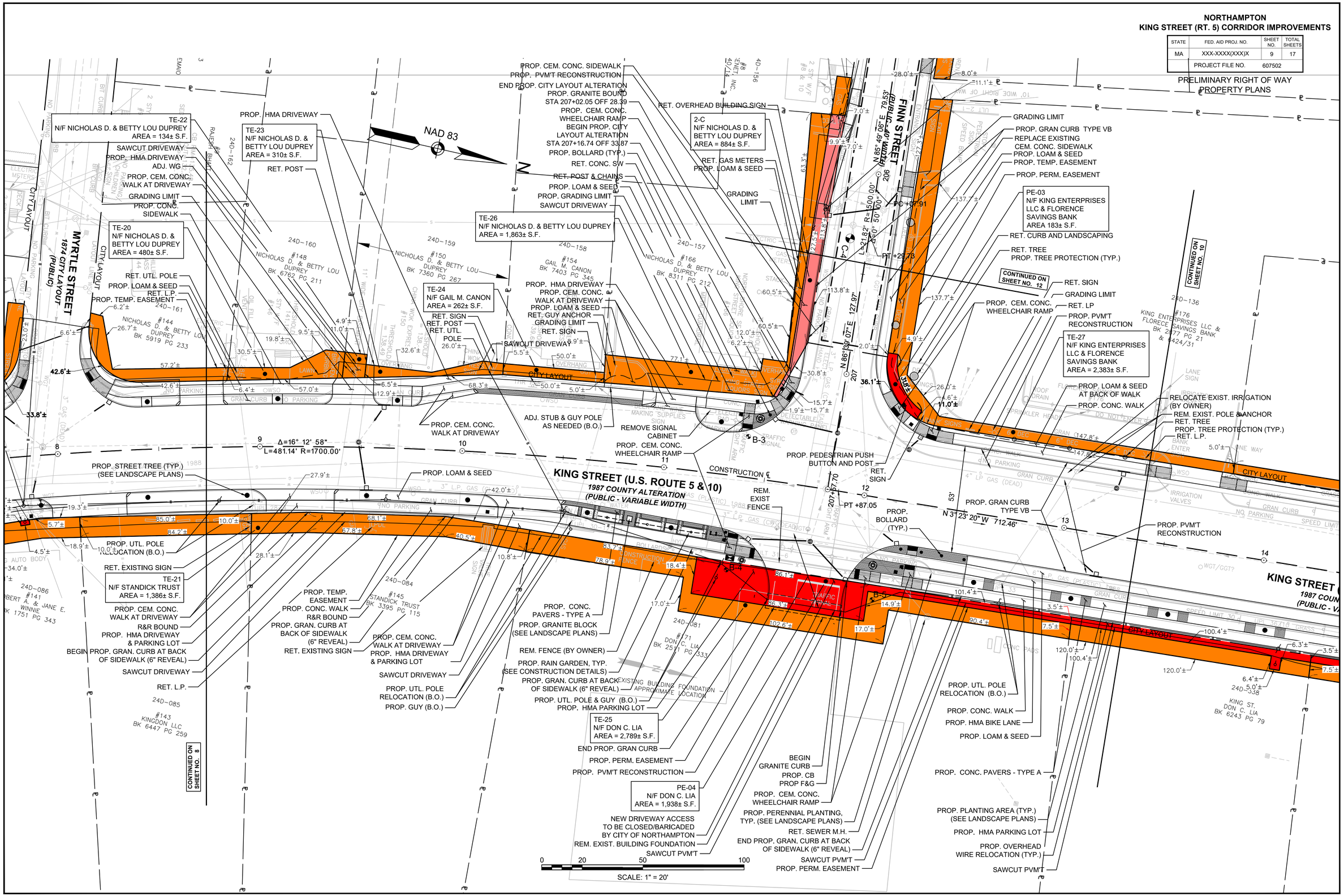
MS VIEW:- LAYER STATE:-

Plotted on 16-Jul-2019 1:55 PM
20091145A20_BND05-PROPERTY PLAN SHEETS.DWG

NORTHAMPTON
KING STREET (RT. 5) CORRIDOR IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX(XXX)X	9	17
	PROJECT FILE NO. 607502		

PRELIMINARY RIGHT OF WAY PROPERTY PLANS



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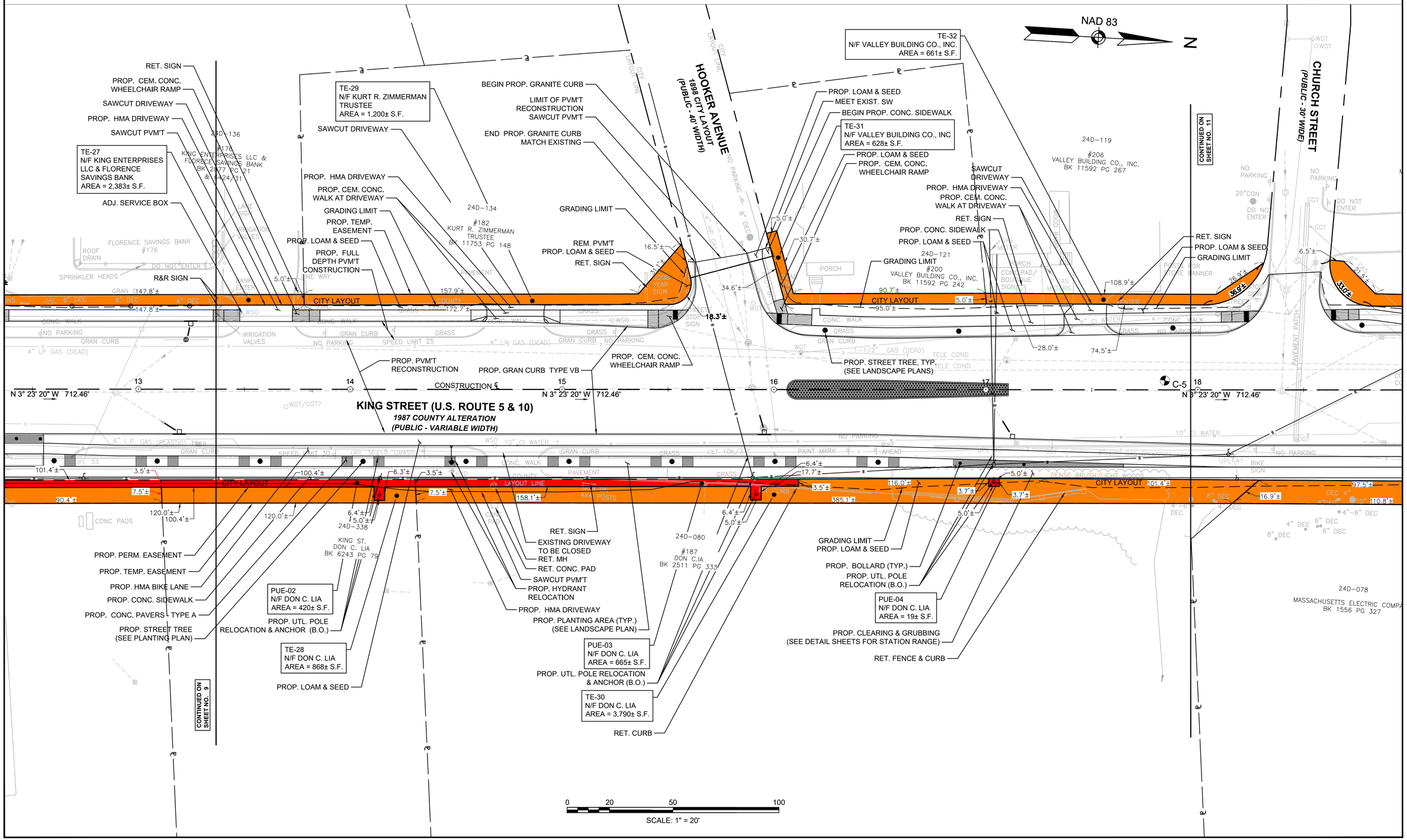
LAYER STATE: -

20091145A20_BND05-PROPERTY PLAN SHEETS.DWG Plotted on 16-Jul-2019 1:55 PM

NORTHAMPTON
KING STREET (RT. 5) CORRIDOR IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX(XXX)X	10	17
PROJECT FILE NO.	607502		

PRELIMINARY RIGHT OF WAY
PROPERTY PLANS



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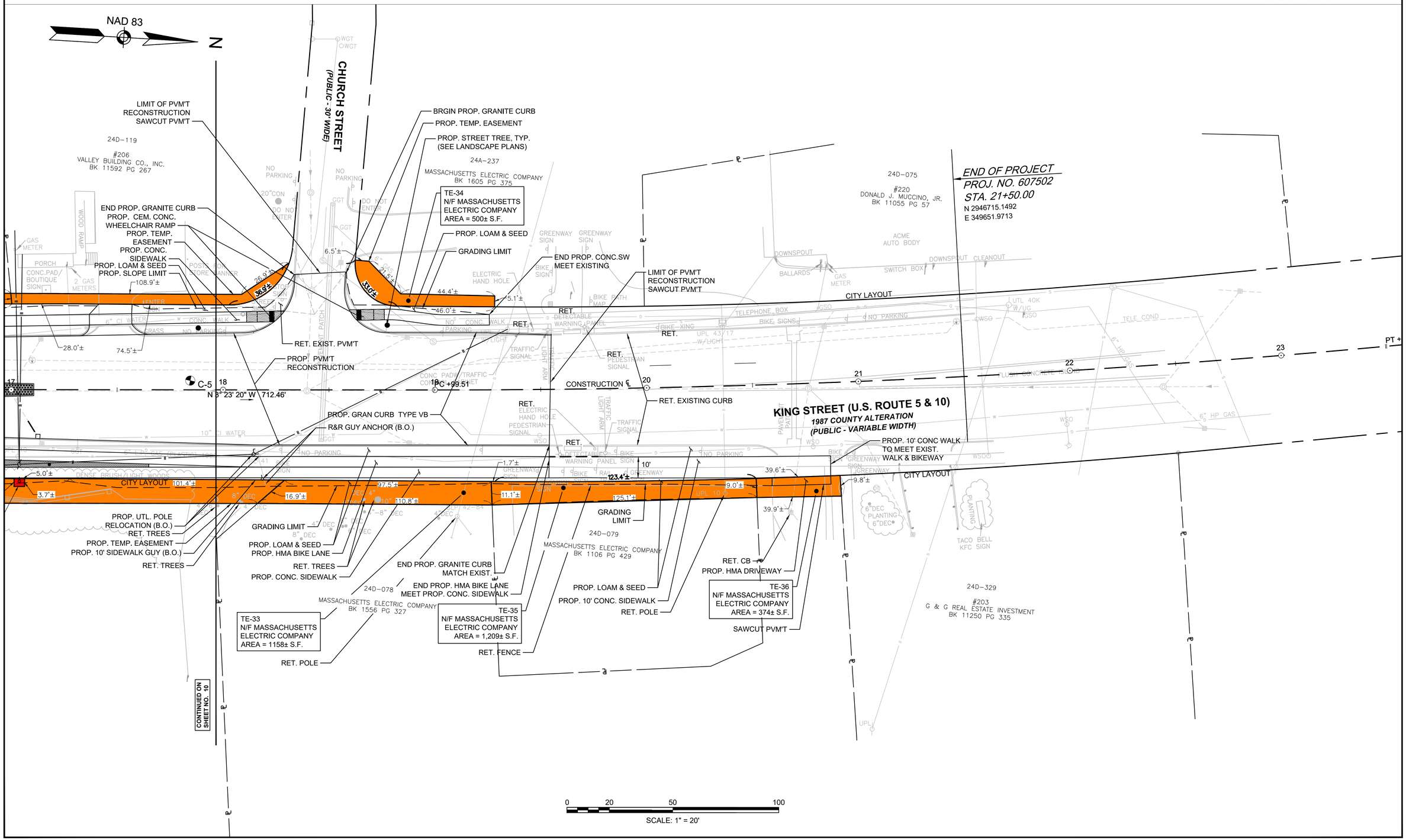
20091145A20_BND05-PROPERTY PLAN SHEETS.DWG

NORTHAMPTON
KING STREET (RT. 5) CORRIDOR IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX(XXX)X	11	17
PROJECT FILE NO.	607502		

PRELIMINARY RIGHT OF WAY
PROPERTY PLANS



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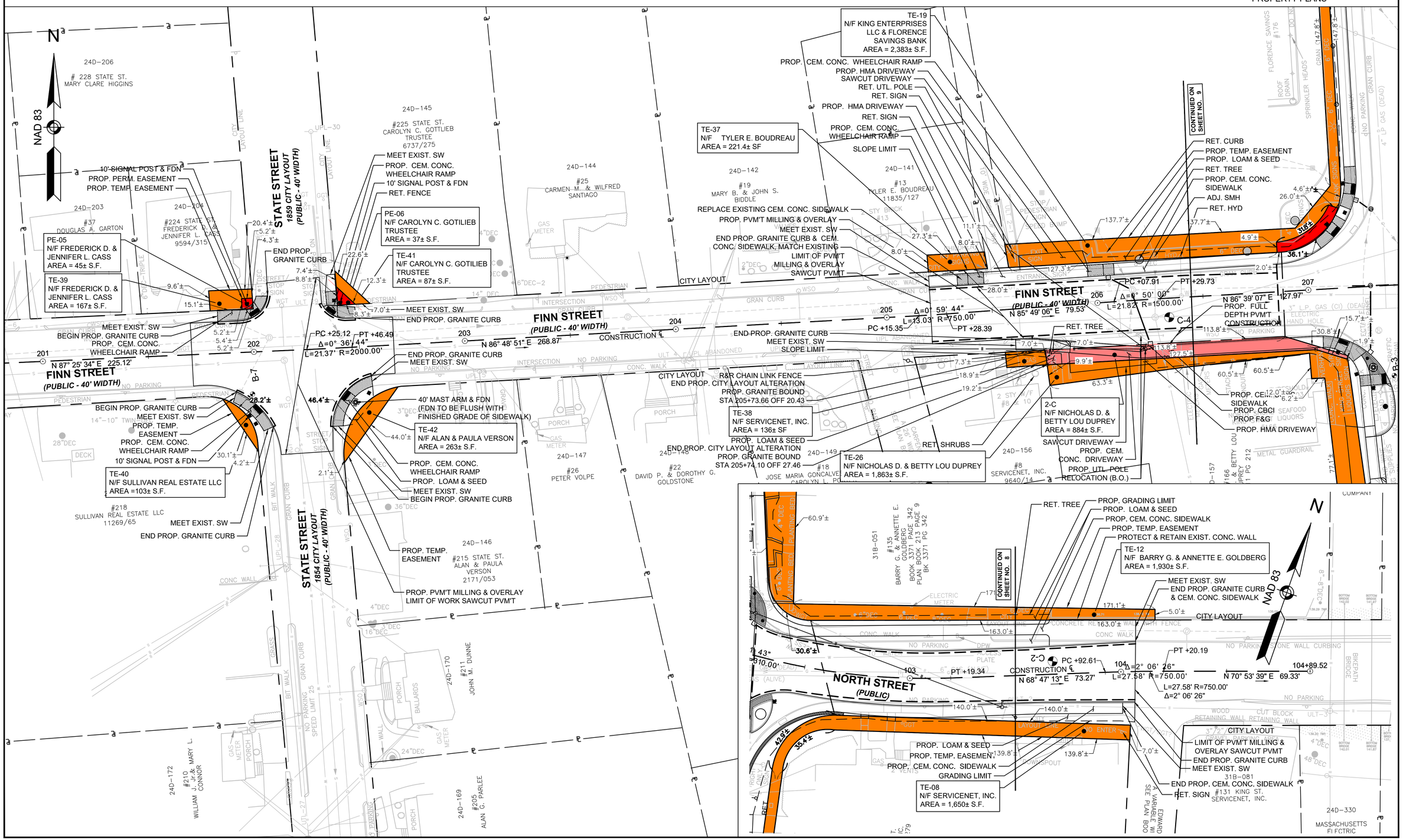
NORTHAMPTON
KING STREET (RT. 5) CORRIDOR IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX(XXX)X	12	17
PROJECT FILE NO.	607502		

PRELIMINARY RIGHT OF WAY
PROPERTY PLANS



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20091145A20_BND05-PROPERTY PLAN SHEETS.DWG Plotted on 16-Jul-2019 1:56 PM

NORTHAMPTON
KING STREET (RT. 5) CORRIDOR IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX(XXX)X	13	17
PROJECT FILE NO.	607502		

PRELIMINARY RIGHT OF WAY
PARCEL SUMMARY

PARCEL NO.	PLAN SHEET NO.	TITLEHOLDER	TITLE REFERENCE				AREA (S.F. +/-)						TOTAL PROPERTY AREA (S.F.)	REMARKS
			DEED BOOK	PAGE NO.	LCC NO.	CERT NO.	TAKEN		EASEMENT		TOTAL TAKEN	REMAINING		
							CITY	STATE	TYPE	AREA				
TE-01	7	MRJEANCO, LLC	10260	251					TEMP.	76±				FOR RECONSTRUCTION OF WHEELCHAIR RAMP AND GRADING OF SLOPES & LAWNS
TE-02	7	ST. VALENTINES POLISH NATIONAL CHURCH OF NORTHAMPTON	874	247					TEMP.	521±				FOR RECONSTRUCTION OF SIDEWALK AND GRADING OF SLOPES & LAWNS
TE-03	7	ARKE REALTY LLC	9521	50					TEMP.	261±				FOR RECONSTRUCTION OF SIDEWALK AND DRIVEWAY
TE-04	7	SERVICENET, INC.	7368	279					TEMP.	767±				FOR RECONSTRUCTION OF DRIVEWAY AND GRADING OF SLOPES & LAWNS
TE-05	7	126 KING ST LLC	11415	75					TEMP.	260±				FOR RECONSTRUCTION OF DRIVEWAY AND GRADING OF SLOPES & LAWNS
TE-06	7	DAVID A. & CLARE A. PREMO	2128	200					TEMP.	48±				FOR RECONSTRUCTION OF DRIVEWAY
TE-07	8	DAVID A. & CLARE A. PREMO	2128	200					TEMP.	90±				FOR RECONSTRUCTION OF SIDEWALK
TE-08	7, 8, 12	SERVICENET, INC.	7368	279					TEMP.	1,650±				FOR CONSTRUCTION OF GRANITE WALL, SIDEWALK RECONSTRUCTION, DRIVEWAY RECONSTRUCTION, AND GRADING OF SLOPES & LAWNS
TE-09	8	DONALD R. BERNIER TRUSTEE	2606	62					TEMP.	607±				FOR SIDEWALK RECONSTRUCTION, HMA DRIVEWAY RECONSTRUCTION, AND TRAFFIC MAST ARM & EQUIPMENT CONSTRUCTION
TE-10	8	DONALD R. BERNIER TRUSTEE	2606	62					TEMP.	1,043±				FOR SIDEWALK RECONSTRUCTION, HMA DRIVEWAY RECONSTRUCTION, AND TRAFFIC MAST ARM & EQUIPMENT CONSTRUCTION
TE-11	8	DONALD R. BERNIER TRUSTEE	12114	250					TEMP.	323±				FOR RECONSTRUCTION OF SIDEWALK & HMA DRIVEWAY
TE-12	8, 12	BARRY G. & ANNETTE E. GOLDBERG	3371	342					TEMP.	1,930±				FOR RECONSTRUCTION OF SIDEWALK, DRIVEWAY, & GRADING OF SLOPES & LAWNS
TE-13	8	EUGENE CALLAHAN	6065	269					TEMP.	163.3±				FOR RECONSTRUCTION OF SIDEWALK AND GRADING OF SLOPES & LAWNS
TE-14	8	VSH REALITY INC.	1760	337					TEMP.	2,308±				FOR RECONSTRUCTION OF SIDEWALK & HMA DRIVEWAY
TE-15	8	BARRY G. & ANNETTE E. GOLDBERG	3371	342					TEMP.	956±				FOR RECONSTRUCTION OF SIDEWALK, DRIVEWAY, & GRADING OF SLOPES & LAWNS
TE-16	8	TRIDENT REALTY CORP	4631	209					TEMP.	697±				FOR RECONSTRUCTION OF SIDEWALK & HMA DRIVEWAY
TE-17	8	ROBERT A. & JANE E. WINNIE	1751	343					TEMP.	517±				FOR RECONSTRUCTION OF SIDEWALK & HMA DRIVEWAY
TE-18	8,9	KINGDON LLC	6447	259					TEMP.	846±				FOR RECONSTRUCTION OF SIDEWALK & HMA DRIVEWAY
TE-19	8,9	NICHOLAS D. & BETTY LOU DUPREY	5919	233					TEMP.	556±				FOR RECONSTRUCTION OF SIDEWALK & HMA DRIVEWAY, AND GRANITE ISLAND CONSTRUCTION
TE-20	9	NICHOLAS D. & BETTY LOU DUPREY	6762	211					TEMP.	480±				FOR RECONSTRUCTION OF SIDEWALK AND GRADING OF SLOPES & LAWNS
TE-21	9	STANDICK TRUST	3395	115					TEMP.	1,386±				FOR RECONSTRUCTION OF SIDEWALK & HMA DRIVEWAY
TE-22	9	NICHOLAS D. & BETTY LOU DUPREY	7360	267					TEMP.	134±				FOR RECONSTRUCTION OF SIDEWALK & HMA DRIVEWAY
TE-23	9	NICHOLAS D. & BETTY LOU DUPREY	7360	267					TEMP.	310±				FOR RECONSTRUCTION OF SIDEWALK & HMA DRIVEWAY
TE-24	9	GAIL M. CANON	7403	345					TEMP.	262±				FOR RECONSTRUCTION OF SIDEWALK & HMA DRIVEWAY
TE-25	9	DON C. LIA	2511	333					TEMP.	2,789±				FOR CONSTRUCTION OF SITE DEVELOPMENT ENTRANCE, BUILDING FOUNDATION REMOVAL, AND HMA DRIVEWAY
TE-26	9, 12	NICHOLAS D. & BETTY LOU DUPREY	8311	212					TEMP.	1,863±				FOR RECONSTRUCTION OF SIDEWALK, DRIVEWAY, & GRADING OF SLOPES & LAWNS
TE-27	9, 10	KING ENTERPRISES LLC & FLORENCE SAVINGS BANK	2877 6424	21 31					TEMP.	2,383±				FOR RECONSTRUCTION OF SIDEWALK, DRIVEWAY, & GRADING OF SLOPES & LAWNS
TE-28	10	DON C. LIA	6243	79					TEMP.	868±				FOR RECONSTRUCTION OF SIDEWALK & HMA DRIVEWAY
TE-29	10	KURT R. ZIMMERMAN TRUSTEE	11753	148					TEMP.	1,200±				FOR RECONSTRUCTION OF SIDEWALK, DRIVEWAY, & GRADING OF SLOPES & LAWNS

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MS VIEW: - LAYER STATE: -

NORTHAMPTON
KING STREET (RT. 5) CORRIDOR IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX(XXX)X	14	17
PROJECT FILE NO.	607502		

PRELIMINARY RIGHT OF WAY
PARCEL SUMMARY

PARCEL NO.	PLAN SHEET NO.	TITLEHOLDER	TITLE REFERENCE				AREA (S.F. +/-)						TOTAL PROPERTY AREA (S.F.)	REMARKS
			DEED BOOK	PAGE NO.	LCC NO.	CERT NO.	TAKEN		EASEMENT		TOTAL TAKEN	REMAINING		
							CITY	STATE	TYPE	AREA				
TE-30	10	DON C. LIA	2511	333					TEMP.	3,790±				FOR RECONSTRUCTION OF SIDEWALK, DRIVEWAY, & GRADING OF SLOPES & LAWNS
TE-31	10	VALLEY BUILDING CO., INC.	11592	242					TEMP.	628±				FOR RECONSTRUCTION OF SIDEWALK AND GRADING OF SLOPES & LAWNS
TE-32	10,11	VALLEY BUILDING CO., INC.	11592	267					TEMP.	661±				FOR RECONSTRUCTION OF SIDEWALK, DRIVEWAY, & GRADING OF SLOPES & LAWNS
TE-33	11	MASSACHUSETTS ELECTRIC COMPANY	1556	327					TEMP.	1,158±				FOR RECONSTRUCTION OF SIDEWALK AND GRADING OF SLOPES & LAWNS
TE-34	11	MASSACHUSETTS ELECTRIC COMPANY	1605	375					TEMP.	500±				FOR RECONSTRUCTION OF SIDEWALK AND GRADING OF SLOPES & LAWNS
TE-35	11	MASSACHUSETTS ELECTRIC COMPANY	1106	429					TEMP.	1,209±				FOR RECONSTRUCTION OF SIDEWALK AND GRADING OF SLOPES & LAWNS
TE-36	11	MASSACHUSETTS ELECTRIC COMPANY	1556	327					TEMP.	1,158±				FOR RECONSTRUCTION OF SIDEWALK AND GRADING OF SLOPES & LAWNS
TE-37	12	TYLER E. BOUDREAU	11835	127					TEMP.	221.4±				FOR RECONSTRUCTION OF SIDEWALK AND GRADING OF SLOPES & LAWNS
TE-38	12	SERVICENET, INC.	9640	14					TEMP.	136±				FOR RECONSTRUCTION OF SIDEWALK AND GRADING OF SLOPES & LAWNS
TE-39	12	FREDERICK D. & JENNIFER L. CASS	9594	315					TEMP.	167±				FOR RECONSTRUCTION OF WHEELCHAIR RAMP AND GRADING OF SLOPES & LAWNS
TE-40	12	SULLIVAN REAL ESTATE	11269	65					TEMP.	103±				FOR RECONSTRUCTION OF WHEELCHAIR RAMP AND GRADING OF SLOPES & LAWNS
TE-41	12	CAROLYN C. GOTILIEB TRUSTEE	6737	275					TEMP.	87±				FOR RECONSTRUCTION OF WHEELCHAIR RAMP AND GRADING OF SLOPES & LAWNS
TE-42	12	ALAN & PAULA VERSON	2171	053					TEMP.	263±				FOR RECONSTRUCTION OF WHEELCHAIR RAMP AND GRADING OF SLOPES & LAWNS
PE-01	7	ARKE REALTY LLC	9521	50					PERM.	33±				FOR CONSTRUCTION & MAINTENANCE OF SIDEWALK, GRANITE CURB, & WHEELCHAIR RAMP
PE-02	8	DONALD R. BERNIER TRUSTEE	12114	250					PERM.	85±				FOR CONSTRUCTION & MAINTENANCE OF SIDEWALK
PE-03	9	KING ENTERPRISES LLC & FLORENCE SAVINGS BANK	2877 6424	21 31					PERM.	183±				FOR CONSTRUCTION & MAINTENANCE OF SIDEWALK
PE-04	9	DON C. LIA	2511	333					PERM.	2,789±				FOR CONSTRUCTION & MAINTENANCE OF SITE DEVELOPMENT ENTRANCE, DRAINAGE, AND TRAFFIC SIGNAL EQUIPMENT
PE-05	12	FREDERICK D. & JENNIFER L. CASS	9594	315					PERM.	45±				FOR CONSTRUCTION & MAINTENANCE OF TRAFFIC SIGNAL EQUIPMENT
PE-06	12	CAROLYN C. GOTILIEB TRUSTEE	6737	275					PERM.	37±				FOR CONSTRUCTION & MAINTENANCE OF TRAFFIC SIGNAL EQUIPMENT
PUE-01	8	ROBERT A. & JANE E. WINNIE	1751	343					PERM.	11±				FOR CONSTRUCTION & MAINTENANCE OF UTILITY POLE AND GUY
PUE-02	10	DON C. LIA	6243	79					PERM.	452±				FOR CONSTRUCTION & MAINTENANCE OF UTILITY POLES AND OVERHEAD WIRES
PUE-03	10	DON C. LIA	2511	333					PERM.	665±				FOR CONSTRUCTION & MAINTENANCE OF UTILITY POLES AND OVERHEAD WIRES
PUE-04	10	DON C. LIA	2511	333					PERM.	19±				FOR CONSTRUCTION & MAINTENANCE OF UTILITY POLE AND GUY
1-C	8	DONALD R. BERNIER TRUSTEE	2606	62			591±				591±	8,121±	8,712±	FOR CONSTRUCTION & MAINTENANCE OF ROADWAY AND SIDEWALK
2-C	9	NICHOLAS D. & BETTY LOU DUPREY	8311	212			884±				884±	11,748±	12,632±	FOR CONSTRUCTION & MAINTENANCE OF ROADWAY AND SIDEWALK

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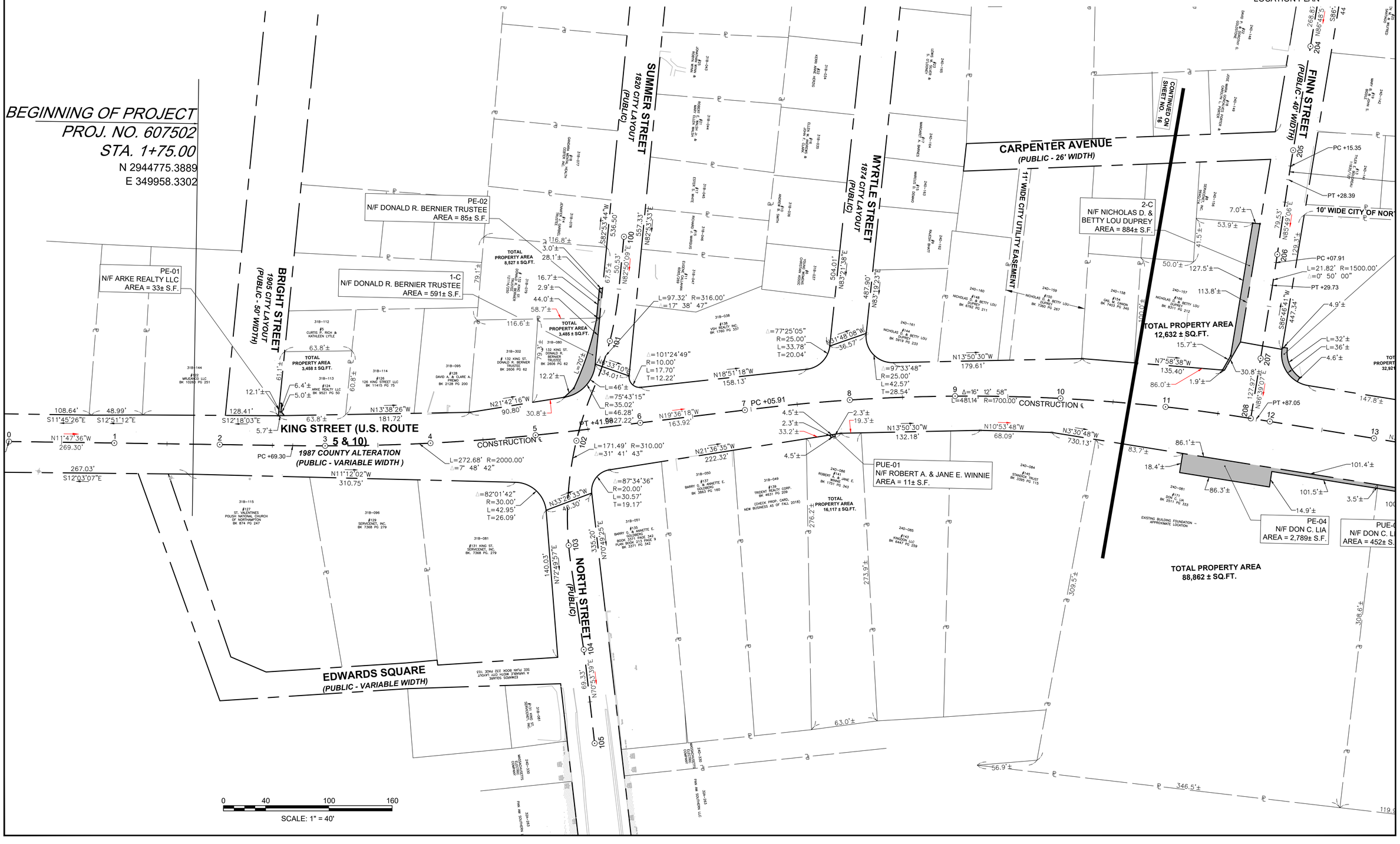
2009\145A20_BND06-PARCEL SUMMARY.DWG Plotted on 16-Jul-2019 10:14 AM

NOTES:
1) TOTAL PROPERTY AREAS SHOWN BELOW ARE BASED ON CITY OF NORTHAMPTON ASSESSORS DATA. THE PROPERTY LINES (AND ASSOCIATED DIMENSIONS) ARE APPROXIMATE)
2) RECORDABLE EASEMENT PLANS SHOWING PROPERTY BOUNDS AND DIMENSIONS SHALL BE PROVIDED BY PROFESSIONAL LAND SURVEYOR LICENSED IN THE STATE OF MASSACHUSETTS

NORTHAMPTON
KING STREET (RT. 5) CORRIDOR IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX(XXX)X	15	17
PROJECT FILE NO.	607502		

PRELIMINARY RIGHT OF WAY LOCATION PLAN



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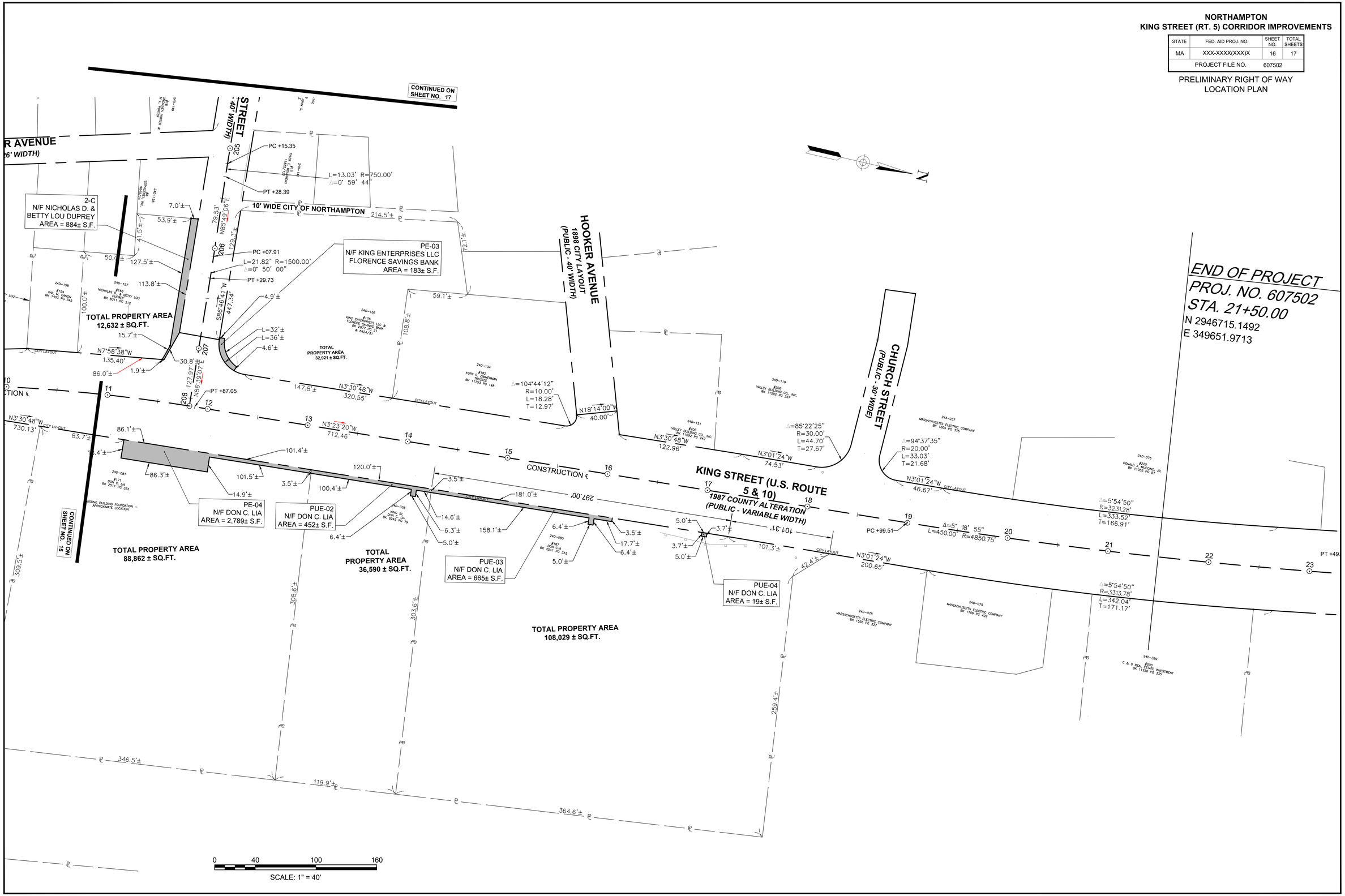
NORTHAMPTON
KING STREET (RT. 5) CORRIDOR IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX(XXX)X	16	17
PROJECT FILE NO.	607502		

PRELIMINARY RIGHT OF WAY
LOCATION PLAN



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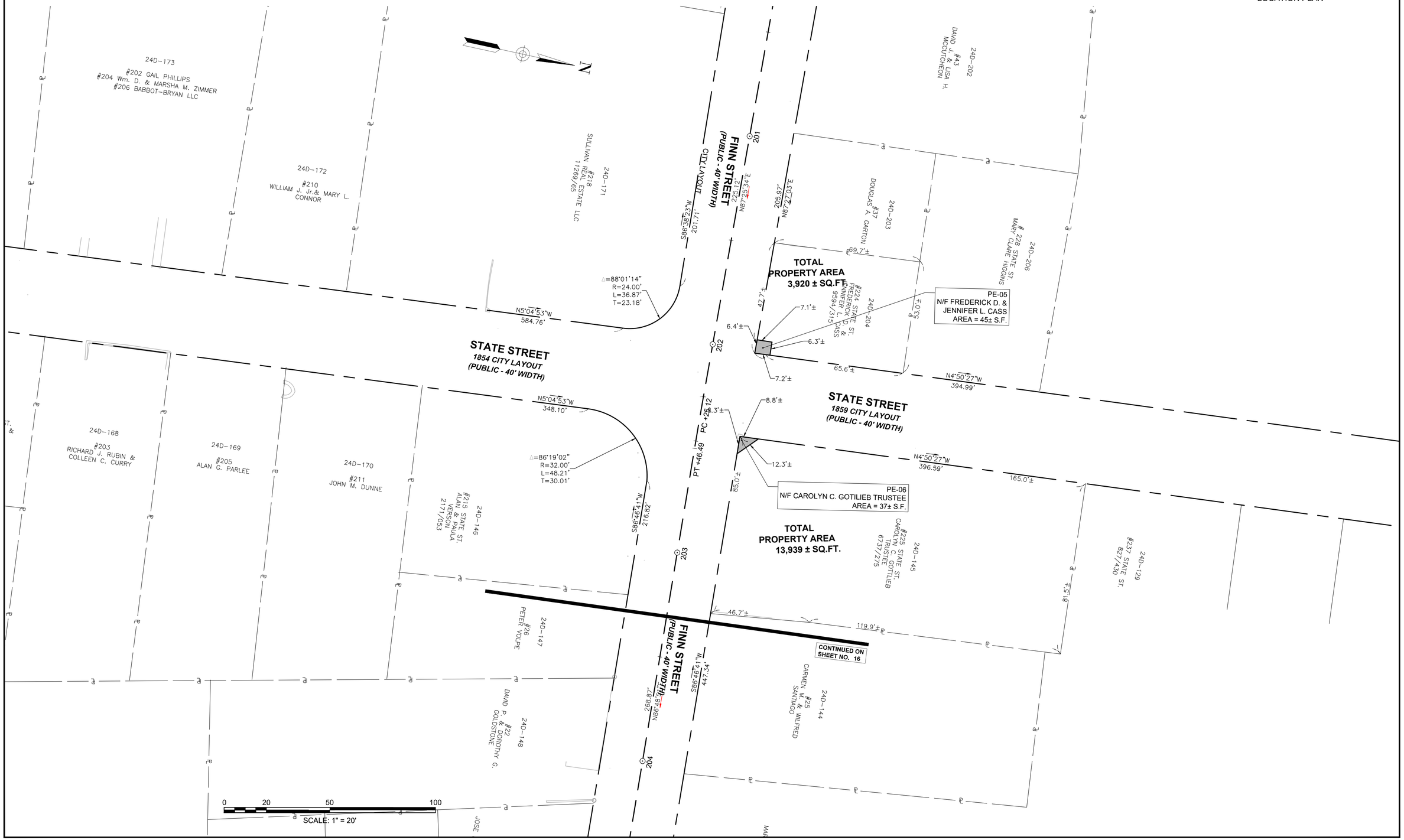
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: MADOT-D.STB
MS VIEW: - LAYER STATE: -

20091145A20_BND07-LOCATION PLAN.DWG Plotted on 15-Jul-2019 4:35 PM

NORTHAMPTON
KING STREET (RT. 5) CORRIDOR IMPROVEMENTS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX(XXX)X	17	17
PROJECT FILE NO.	607502		

PRELIMINARY RIGHT OF WAY
LOCATION PLAN



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Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: MADOT-D.STB
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LAYER STATE: -

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