## **LAWRENCE SHORT STREET** FED. AID PROJ. NO.

PRELIMINARY RIGHT OF WAY **TITLE SHEET & INDEX** 

PROJECT FILE NO.

SIGNAL STRUCTURE AND FOUNDATION STANDARD DRAWINGS, THE MASSDOT TRAFFIC MANAGEMENT

PLANS AND DETAIL DRAWINGS. AND THE ANSI AMERICAN STANDARD FOR NURSERY STOCK.

# MASSACHUSETTS DEPARTMENT OF TRANSPORTATION HIGHWAY DIVISION

PLAN AND PROFILE OF

SHORT STREET

(BRIDGE NO. L-04-012)

IN THE CITY OF

LAWRENCE **ESSEX COUNTY** 

PRELIMINARY RIGHT OF WAY PLANS

FEDERAL AID PROJECT NO.

#### **INDEX**

#### SHEET NO. DESCRIPTION

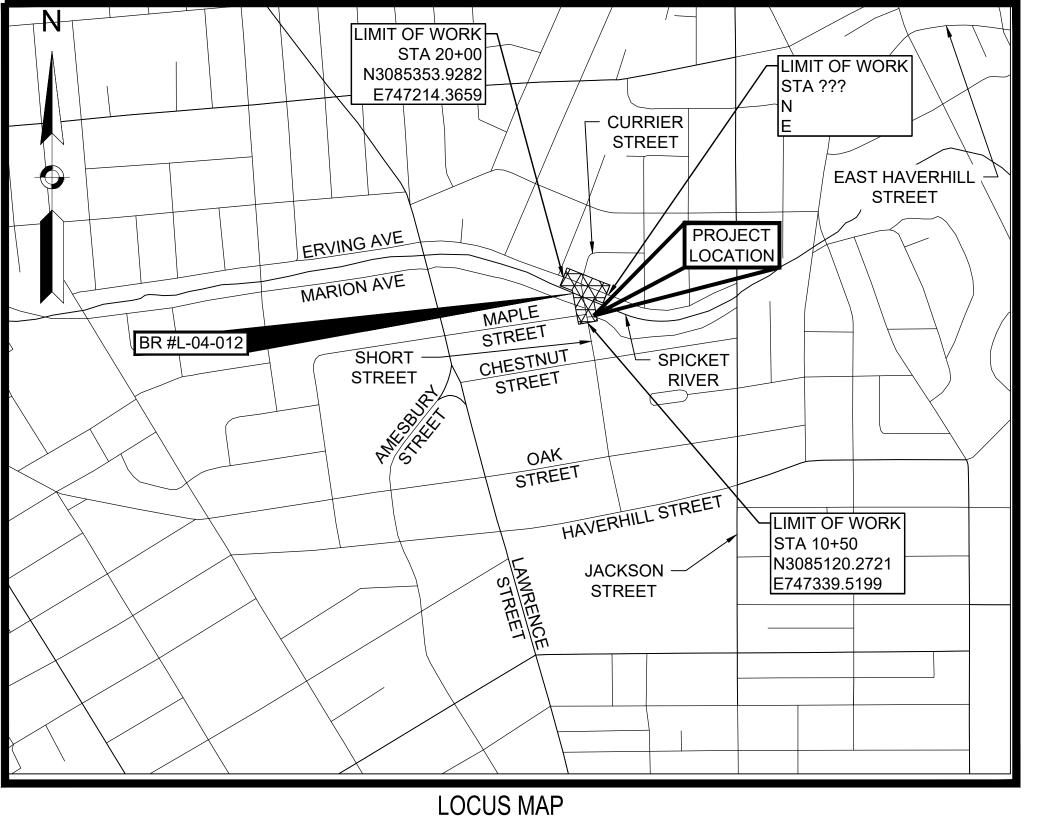
- TITLE SHEET & INDEX
- PROJECT DESCRIPTION
- TYPICAL SECTIONS CRITICAL PROFILE
- PARCEL SUMMARY SHEET
- LOCATION PLAN
- PROPERTY PLANS

THE LAYOUT LINES, AS REPRESENTED ON THE PRELIMINARY RIGHT OF WAY PLANS, ARE BASED UPON AN INSTRUMENT SURVEY THAT MEETS 250 CMR 6.00 AND ARE SUITABLE TO BE USED FOR A RECORDABLE PLAN, AND MEET THE STANDARDS SET FORTH IN BOTH 250 CMR 6.01 AND 6.02.

JASON A. ELLIS, RPLS LIC. NO 49052 DATE

#### **BASE MAP NOTES**

- 1. THE SURVEY BASE PLAN WAS PREPARED BY HANCOCK SURVEY ASSOCIATES, INC. IN AUGUST 2023.
- 2. THE MOST RECENT SITE VISIT WAS COMPLETED IN MARCH 2025 TO VERIFY THAT THE EXISTING CONDITIONS SHOWN ON THE PLAN ARE THE CURRENT CONDITIONS IN THE FIELD.
- 3. THE PROPERTY LINES SHOWN ON THE PLAN WERE COMPILED FROM RECORD PLANS AND CERTIFIED BY JASON A. ELLIS, A PLS IN DIRECT CHARGE AND SUPERVISION OF THE SURVEY BASEPLAN.
- 4. LAYOUT LINES ARE UNAMBIGUOUSLY RETRACEABLE AND DEPICTED ACCURATELY ON THE RIGHT OF WAY PLANS BY AN ON-THE-GROUND SURVEY PERFORMED IN ACCORDANCE WITH 250 CMR 6.01 AND 6.02.
- 5. THE OWNERS HAVE BEEN CHECKED AND UPDATED PER THE REGISTRY OF DEEDS AS OF MARCH 2025.
- 6. THE PREQUALIFIED SURVEYOR UNDER THE S3 CATEGORY IS PARTICIPATING IN THE DEVELOPMENT OF THE ROW PLANS. JASON A. ELLIS OF HANCOCK SURVEY ASSOCIATES, INC. HAS VERIFIED HIGHWAY LAYOUT BASELINES AND SIDELINES, VERIFIED MUNICIPAL LAYOUTS, VERIFIED THAT ABUTTERS PROPERTY LINES ARE CREATED BASED ON RECORD DEEDS AND PLANS, VERIFIED CURRENT ABUTTERS OWNERSHIP INFORMATION, VERIFIED EXISTING PERMANENT EASEMENTS, AND VERIFIED ANY OTHER ELEMENTS IN THE SURVEY BASEPLAN THAT AFFECTS DISPOSITIONS AND LAND ACQUISITIONS.



SCALE: 1" = 500'

TOTAL LENGTH OF PROJECT = 450.00 FEET = 0.085 MILES SHORT STREET = 200.00 FEET = 0.038 MILES ERVING AVENUE = 250.00 FEET = 0.047 MILES

### DRAFT NOT FOR CONSTRUCTION

DATE	DESCRIPTION	REV#
11/22/2024	25% SUBMISSION	0
	DELETED PARCELS: PUE-1, PUE-2, PUE-4, TE-9	
3-28-2024	ALTERED PARCELS: D-1, D-2, E-1, E-2, E-3, E-5, E-6, E-7, E-8, PUE-3, TCA-1, TE-1, TE-2, TE-3, TE-6, TE-7, TE-8	1
	NEW PARCELS: TE-10, TE-11	
	25% REV 1 SUBMITTAL	



**RIGHT OF WAY PLANS BY:** 



282 Merrimack St

| 311 Main Street 508-868-5104

| 169 Ocean Blvd PO Box 249 Worcester, MA 01608 | Hampton, NH 03842 603-601-8154

www.TheEngineeringCorp.com

**APPROVED** 

CHIEF ENGINEER

DATE

//OT::::	'MBOLS	DECODIDETION		SYMBOLS	
XISTING	PROPOSED	DESCRIPTION	EXISTING	PROPOSED I	DESCRIPTION
□ JB	JB	JERSEY BARRIER		$\bowtie$	CONTROLLER CABINET, FOUN
⊕ ⊕ CB	$\mathcal{O}_{\mathcal{A}}$				CONTROLLER CABINET, FOUN
<u> </u>	$\sim$	FLAG POLE			·
G GP		GAS PUMP		•	`
MB		MAIL BOX		<u> </u>	MAST ARM (LENGTH NOTED)
		POST SQUARE	₩	• E	EMERGENCY PREEMPTION C
O WELL	0	POST CIRCULAR	$+\!$	+>	VEHICULAR SIGNAL HEAD
WELL		WELL	<b>→</b> ∏	— <b>□</b> ■ F	PEDESTRIAN SIGNAL HEAD
EHH O	□ EHH O				
GG		GAS GATE	4	¬ N	MAST ARM OR IS POLE MOU!
HL #	BHL#	BORING HOLE		<b>→</b> E	EMERGENCY PRE-EMPTION R
MW #		MONITORING WELL	☆	* E	EMERGENCY PRE-EMPTION C
P #	■ TP#	TEST PIT	⊕	<b>9</b> F	PEDESTRIAN PUSH BUTTON
	<b>P</b>	HYDRANT			
	*	LIGHT POLE			
D.		COUNTY BOUND			BICYCLE WIRE LOOP DETECT
		GPS POINT		\	WIRE LOOP DETECTOR (SIZE
	© (0)			<del>-</del>	TRAFFIC SIGN (1 POST)
	Ē	ELECTRIC MANHOLE			,
	© ©	GAS MANHOLE	0 0		,
	<b>M</b>	MISC MANHOLE		■ F	PULL BOX 12"x12" (OR AS NOT
	<b>S</b>	SEWER MANHOLE		<b>—</b> E	ELECTRIC HANDHOLE 12"x24"
	<b>①</b>	TELEPHONE MANHOLE		_ ====== ]	TRAFFIC SIGNAL CONDUIT
	<b>w</b>	WATER MANHOLE		'	
	■ MHB	MASSACHUSETTS HIGHWAY BOUND MONUMENT			
J		STONE BOUND			
		TOWN OR CITY BOUND			
		TRAVERSE OR TRIANGULATION STATION			
GUY -	<ul> <li>TPL or GUY</li> </ul>	TROLLEY POLE OR GUY POLE			
		TRANSMISSION POLE	5 A \ / E \ 4 E \ 1 E		\
3	_	UTILITY POLE W/ FIREBOX	PAVEMENT	MARKINGS S	YMBOLS
L -			FXISTING	PROPOSED	DESCRIPTION
Г _	_	UTILITY POLE W / 1 LIGHT	<u> </u>		
	-≎- UPL	BUSH	7	ח	PAVEMENT ARROW - WH
YPE		TREE	ONLY	ONLY	LEGEND "ONLY" - WHITE
_		STUMP	<b>+ -</b> 8	← 🦟	BIKE LANE LEGEND - WH
		SWAMP / MARSH		-	
	• WG	WATER GATE		<del>-</del>	
	• PM	PARKING METER			CROSSWALK
		OVERHEAD CABLE/WIRE		SWL	SOLID WHITE LINE
		CURBING CONTOURS (ON-THE-GROUND SURVEY DATA)		SYL	- SOLID YELLOW LINE
		CONTOURS (ON-THE-GROUND SURVEY DATA)  CONTOURS (PHOTOGRAMMETRIC DATA)		BWL	
		MARTHER LESSING OR GUTTER INET WOURRENET. HORSING OR GUTTER INET WOURRENET			
		UNDERGROUND ELECTRIC DUCT (DOUBLE LINE 24 INCH AND OVER)	CONTROLLER CABINET, FOUR MAST ARM CONTROLLER CABINET, FOUR MAST ARM CLONATION FOR MAST ARM CLERGY PRE-EMPTION FOR FOLE MOUNT FUND PROCESTRIAN SIGNAL HEAD HEAD AND OF THE CENTROL FOR PROCESSING POLITION PROCESSING POLITION FUND FUND FUND FUND FUND FUND TRAFFIC SIGN (1 POST) FUND FUND FUND FUND FUND FUND FUND FUND		
		UNDERGROUND GAS MAIN (DOUBLE LINE 24 INCH AND OVER)		<u>DWL</u>	DOTTED WHITE LINE
		UNDERGROUND SEWER MAIN (DOUBLE LINE 24 INCH AND OVER)		<u>DYL</u>	DOTTED YELLOW I INF
		UNDERGROUND TELEPHONE DUCT (DOUBLE LINE 24 INCH AND OVER)		DWLEx	
		UNDERGROUND WATER MAIN (DOUBLE LINE 24 INCH AND OVER)			
	· · · · · · · · · · · · · · · · · · ·	BALANCED STONE WALL GUARD RAIL STEEL POSTS			DOTTED YELLOW LINE EX
		GUARD RAIL - STEEL POSTS  GUARD RAIL - WOOD POSTS		DBWL	DOUBLE WHITE LINE
_		GUARD RAIL - DOUBLE FACE - STEEL POSTS		DBYL	DOUBLE YELLOW LINE
<del></del>		GUARD RAIL - DOUBLE FACE - WOOD POSTS			
	x	CHAIN LINK OR METAL FENCE			
	o	WOOD FENCE			
		SEDIMENT CONTROL BARRIER			
	······				
		SAWCUT LINE		20010=:2:	
_		TOP OR BOTTOM OF SLOPE	PROJECT DES	SCRIPTION:	
			THE PROJEC	T CONSISTS OF IMPE	ROVEMENTS ALONG APPROX
		BORDER OF WETLAND			3.12.1
		100 FT WETLAND BUFFER	THE DOOD	·ED IMADDO\/EM4EMTO	INCLUDE, DDIDGE DEMOLITI
		200 FT RIVERFRONT BUFFER	KETA MUSTIST		LDLUIN II VUIND IN III
		200 FT RIVERFRONT BUFFER STATE HIGHWAY LAYOUT			MUTCD COMPLIANT SIGNS A
					MUTCD COMPLIANT SIGNS A
		STATE HIGHWAY LAYOUT			MUTCD COMPLIANT SIGNS A
		STATE HIGHWAY LAYOUT TOWN OR CITY LAYOUT COUNTY LAYOUT RAILROAD SIDELINE			MUTCD COMPLIANT SIGNS A
		STATE HIGHWAY LAYOUT TOWN OR CITY LAYOUT COUNTY LAYOUT RAILROAD SIDELINE TOWN OR CITY BOUNDARY LINE			MUTCD COMPLIANT SIGNS A
		STATE HIGHWAY LAYOUT TOWN OR CITY LAYOUT COUNTY LAYOUT RAILROAD SIDELINE TOWN OR CITY BOUNDARY LINE PROPERTY LINE OR APPROXIMATE PROPERTY LINE			MUTCD COMPLIANT SIGNS A
		STATE HIGHWAY LAYOUT TOWN OR CITY LAYOUT COUNTY LAYOUT RAILROAD SIDELINE TOWN OR CITY BOUNDARY LINE			MUTCD COMPLIANT SIGNS A

TRAFFIC	SYMBOLS	
EXISTING	PROPOSED	DESCRIPTION
		CONTROLLER CABINET, FOUNDATION
		CONTROLLER CABINET, FOUNDATION, CONC. PAD
₩		MAST ARM FOUNDATION (SCALE OF BLOCK = DIAMETER IN INCHES)
		MAST ARM (LENGTH NOTED)
₩	•	EMERGENCY PREEMPTION CONFIRMATION STROBE LIGHT
$+\!$	+>	VEHICULAR SIGNAL HEAD
—	—	PEDESTRIAN SIGNAL HEAD
4	⊣	MAST ARM OR TS POLE MOUNTED SIGN
=	-	EMERGENCY PRE-EMPTION RECEIVER
\$	*	EMERGENCY PRE-EMPTION CONFIRMATION STROBE
<b>⊕</b>	9	PEDESTRIAN PUSH BUTTON
	<del>- 1111</del> 1	YAGI ANTENNA
		BICYCLE WIRE LOOP DETECTOR (SIZE AS NOTED)

WIRE LOOP DETECTOR (SIZE AND TYPE NOTED)

ELECTRIC HANDHOLE 12"x24" (OR AS NOTED)

PULL BOX 12"x12" (OR AS NOTED)

#### VEMENT MARKINGS SYMBOLS

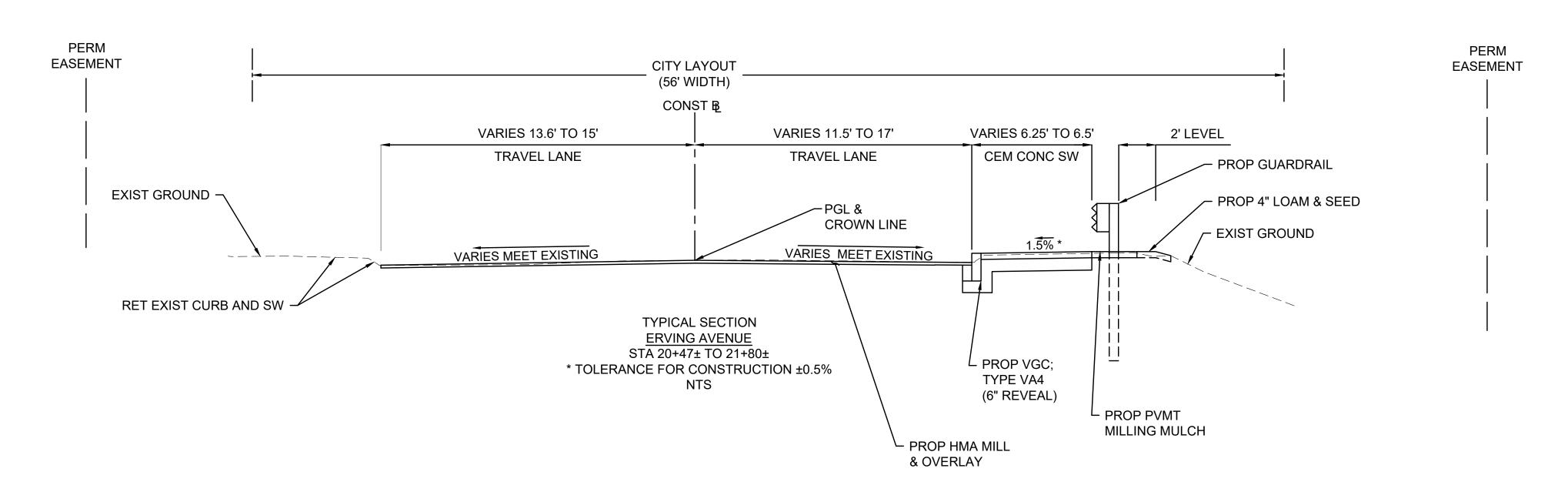
EXISTING	PROPOSED	DESCRIPTION
	<b>↑</b>	PAVEMENT ARROW - WHITE
ONLY	ONLY	LEGEND "ONLY" - WHITE
<del>-</del> ~8	← ~8	BIKE LANE LEGEND - WHITE
	SL	STOP LINE
	CM	CROSSWALK
	SWL	SOLID WHITE LINE
	SYL	SOLID YELLOW LINE
	BWL	BROKEN WHITE LINE
	BYL	BROKEN YELLOW LINE
	<u>DWL</u> _	DOTTED WHITE LINE
	<u>DYL</u> _	DOTTED YELLOW LINE
	<u>DWLEx</u>	DOTTED WHITE LINE EXTENSION
	DYLEx	DOTTED YELLOW LINE EXTENSION
	DBWL	DOUBLE WHITE LINE
	DBYL	DOUBLE YELLOW LINE

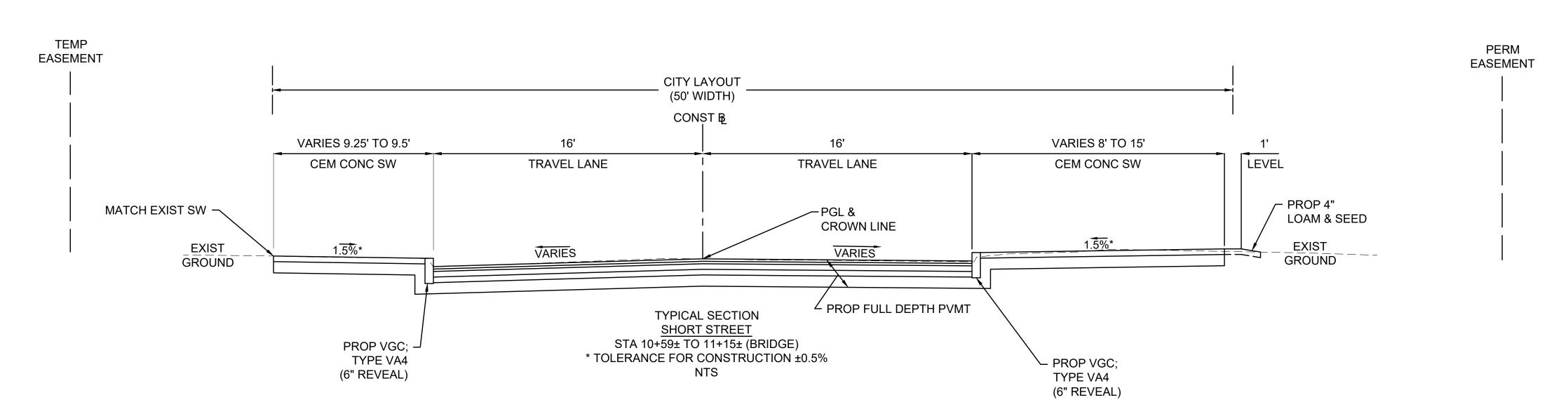
THE PROJECT CONSISTS OF IMPROVEMENTS ALONG APPROXIMATELY 200' OF SHORT STREET AND

THE PROPOSED IMPROVEMENTS INCLUDE: BRIDGE DEMOLITION AND CONSTRUCTION, SIDEWALK RECONSTRUCTION, ADA COMPLIANT PEDESTRIAN CURB RAMPS, PAVEMENT RECONSTRUCTION, DRAINAGE IMPROVEMENTS, AND MUTCD COMPLIANT SIGNS AND PAVEMENT MARKINGS.

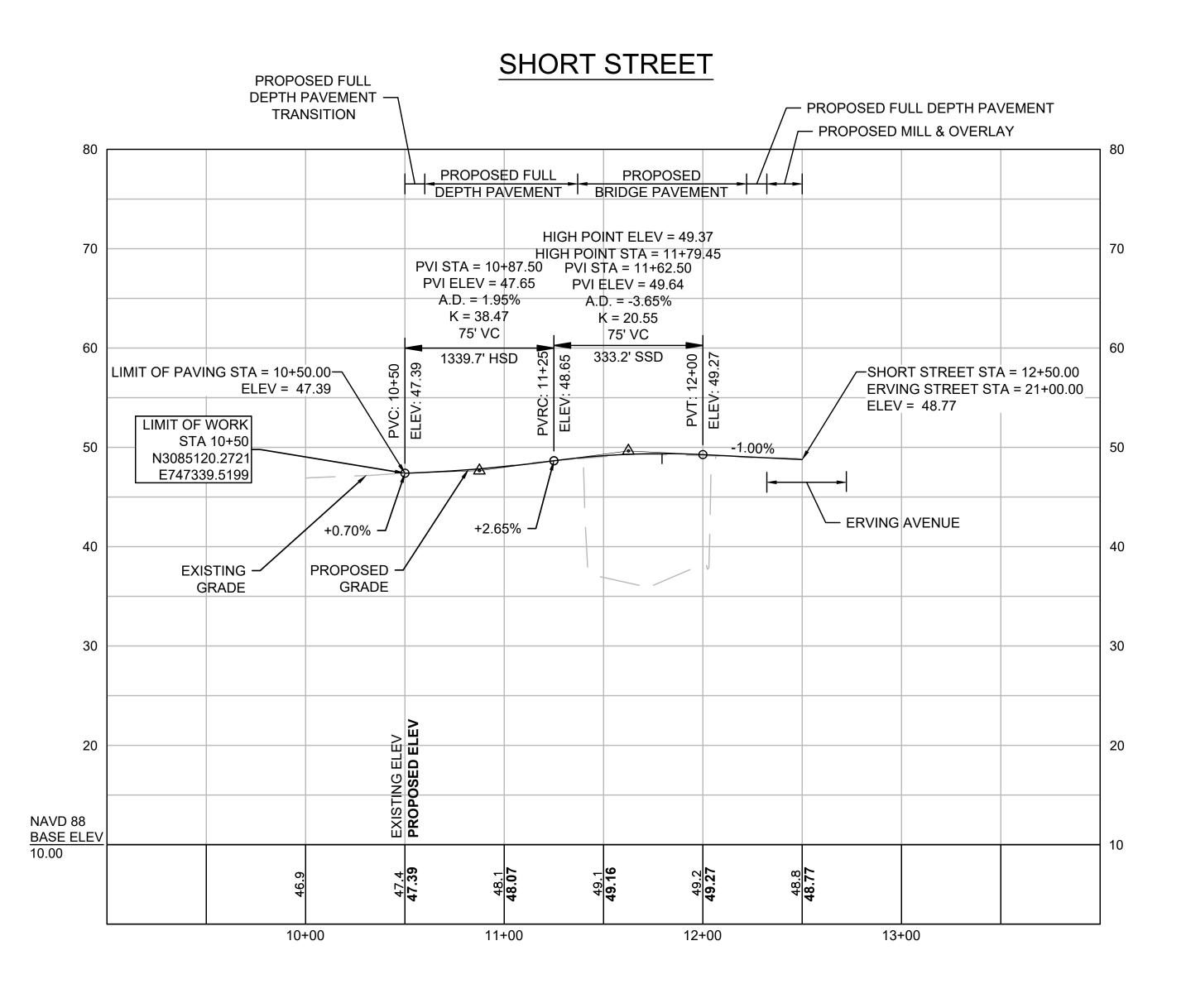
AMUNIAL AMERIAGE DAILY TRAFFIC   ADMINISTRATION   ADMIN	ABBREV GENERAL	TATIONS		LAWRENCE SHORT STREET
ABANILLON   ALCOHOMO	AADT	ANNUAL AVERAGE DAILY TRAFFIC		SHEET TOTAL
APPROXIMATE   ACM PIECE   ASPAILS   CONTROL		-		STATE FED. AID PROJ. NO. NO. SHEETS
ACOMPIER APPLIAT COATRETO CORRIGATED METAL PIPE APPLIAT COATRED CORRIGATED METAL PIPE BLOOM BUILDING BLOOM BU	_			
APPLICATION   A CONTROL OF CURRO			LECEND	
BITUMINOUS   BOUND   CENTER			LEGEND,	, ADDREVIATIONS & PROJECT DESCRIPTION
BOL   BOUND   BOUND   BUS   BUS   BOUND   BUS				
BOUND   GENERAL   PED   PROPERTIEN			ARRRE\	/IATIONS (cont.)
BULDING	BD.	BOUND		TATIONS (COIII.)
BINDOMARK   PERM				DEDECTRIAN
DO	_			
BRILDGE			P.G.L	PROFILE GRADE LINE
CATCH BASIN WITH CURB INLET			_	
CRICIA   CATCH BASIN WITH CURB NILET   PROL   PRO				
COM.         CEMENT CONGRETE MASONRY         PRODY         PRODY         PRODY         PRODY           CEM.         COMENT.         PB.B.         PLANTABLE SOIL BORROW           CIP.         CAST RON PIPE         PV.C.         POINT OF TANGENCY           CUP.         CHINELINE         PV.P.         POINT OF VERTICAL LORYATURE           CUP.         CHINELINE         PV.P.         POINT OF VERTICAL LORYATURE           COM.         CONTRUSTED STEEL PIPE         PV.W.         PAYEMENT           COD.         COUNTY         R.R.         RADIUS OF CURVATURE           COM.         CONGRUSTED STEEL PIPE         PV.W.         PAYEMENT           COM.         CONGRUSTED STEEL PIPE         PV.W.         PAYEMENT           COM.         CONGRUSTED STEEL PIPE         PV.W.         PAYEMENT           CONT.         CONTRUSTONION         R.R.         REMOVE AND DISPOSE           CONT.         CONTRUSTONION         R.R.         REMOVE AND DISPOSE           CONTRUSTONION         R.E.         RETINONION           DIV.         DESIGN HOURTY VOLUME         R.W.         RETINONION           DIV.         DESIGN HOURTY VOLUME         R.W.         RETINONIONIONIONIONIONIONIONIONIONIONIONION			PRC	
CEMENT				
CUBB NINET				
CLE				
CAL         CENTERLINE         PVT         POINT OF VERTICAL TANGENCY           CMP         CORPILICATED METAL PIPE         PWW         PAYED WATER WAY           COD         COUNTY         R         RADUS OF CURVATURE           COD         COUNTY         R         RADUS OF CURVATURE           CONC         CONFERENCE         RD         REMOVE AND DISPOSE           CONC         CONGRETE         RD         REMOVE AND DISPOSE           CONT         CONTROLLOR         RD         ROAD           CONT         CONTROLLOR         REM         REMOVE           CONT         CONTROLLOR         REM         REMOVE           CORTROLLOR         REM         REMOVE           CORTROLLOR         RET         RETAIN           CORTROLLOR         RET         RETAIN           DIV         DESIGN HOURLY VOLUME         RETWALL           DIV         DESIGN HOURLY VOLUME         RETWALL           DIP         DUCTILE IRON PIPE         RER         REMOVE AND RESET           DIP         DUCTILE IRON PIPE         RER         REMOVE AND STACK           DIP         DUCTILE IRON PIPE         RER         REMOVE AND STACK           ELECTICAL         SE         STONE BOUND		CAST IRON PIPE		
COMP         CORPRUGATED METAL PIPE         PWM         PAYEMENT           GSP         CORRUGATED STEEL PIPE         RW         PAYEM ATTER WAY           COL         COUNT         R         RADUS OF CURVATURE           COMM         CONTATIONS         RAD         REMFORCED CONCRETE PIPE           CONT         CONTATION         RD         ROAD           CONT         CONTINUOUS         RD         ROAD           CONT         CONTRUCTION UNKNOWN         RET         RET WALL           CR GR         CROWIN GRADE         RET         RET WALL           DIV         DESIGN HOUSE VOLUME         RET WALL         RIGHT OF WAY           DIA         DIAMETER         RR         RETWALL           DIA         DIAMETER         RR         RR         REMOVE AND RESET           DIV         DUCTLE IRON PIPE         RR         RR         REMOVE AND RESET           DW         STEADY DONT WALK - PORTLAND ORANGE         RT         RIGHT         REMOVE AND RESET           DW         DRIVEWAY         SELECTRICAL         STORE BOUND         SHOULDER RESET         RETAIN           ELEC         ELECTRICAL         STORE BOUND         SHOULDER HEAVANTON         SHOULDER HEAVANTON				
CSP         CORNITY         R         RADIUS OF CURYATURE           CO.         COUNTY         R         RADIUS OF CURYATURE           COMM         COMMONICATIONS         RAD         REMOVE AND DISPOSE           CONT         CONCRETE         RCP         REMOVE AND DISPOSE           CONT         CONTROLOTION         RD         ROAD           CONT         CONTROLOTION UNKNOWN         REM         REMOVE           CU         CONNECTION UNKNOWN         RET         RETAIL           DIV         DESIGN HOURLY VOLUME         RETAIL         RETAININ WAIL           DIV         DESIGN HOURLY VOLUME         RETAIL         RETAININ WAIL           DIV         DUTTLE IRON PIPE         RR         RALIROAD           DIP         DUTTLE IRON PIPE         RR         RR         RALIROAD           DIP         DUTTLE IRON PIPE         RR         RR         REMOVE AND STACK           DIP         DUTTLE IRON PIPE         RR         RR         RALIROAD           DIP         DUTTLE IRON PIPE         RR         RR         REMOVE AND STACK           ELECTICAL         STASSING         STONE BOUND         STONE BOUND           ELECTICAL         LELEVITION         SHLD         ST				
COMM         COMMUNICATIONS         RAD         REMOVE AND DISPOSE           CONC         CONCRETE         RD         ROAD         ROAD           CONT         CONTINUOUS         RDW         ROADWY         ROADWY           CONST         CONSTRUCTION         REM         REMOVE         REMAN           COY         CONDECTION UNKNOWN         RET         RETAIN           DIV         DESIGN HOURLY VOLUME         REWALL         RETAINING WALL           DIA         JUMETER         RR         RALROAD           DIA         JUMETER         RR         RALROAD           DIV         DICTILE IRON PIPE         RR         RALROAD           DW         STEADY DON'I WALK - PORTLAND ORANGE         RR         REMOVE AND STACK           DWY         DIVERWAY         SB         STONE BOUND           ELEC         ELEVATION         SHLD         STATE HICHWAY LAYOUT LINE           EMB         EMBANAGENT         SH         SWING         SWIPE MANHOLE           EXC         EXCAVATION         ST         STREET         STREET           FAC         FRAME AND COVER         ST         STREET           FAC         FRAME AND COVER         ST         STREET	CSP	CORRUGATED STEEL PIPE		
CONN CONNECTIONS CONNECTION CONSTRUCTION CR GR CONSTRUCTION CR GR CONNECTION UNKNOWN CR GR GR CONNECTION UNKNOWN CR GR GARAGE CR GR GR CONNECTION UNKNOWN CR GR CONNECTION UNKNOWN CR GR GR CONNECTION UNKNOWN CR GR GR CONNECTION UNKNOWN CR GR CONNE				
CONT         CONTINUOUS         RD         ROAD           CONSTRUCTION         REWY         ROADWAY           CR         CROWN GRADE         REM         REMOVE           CU         CONNECTION LUNKNOWN         RET         RETAIN           DIV         DESIGN HOURLY VOLUME         RET WALL         RETAINING           DIAMETER         RR         RAILROAD           DIAMETER         RR         RAILROAD           DIAMETER         RR         RAILROAD           DIV         DUCTILE IRON PIPE         RR         RR           DWY         STEADY DON'T WALK - PORTLAND ORANGE         RT         RIGHT           DWY         SITEATY DON'T WALK - PORTLAND ORANGE         RS         REMOVE AND RESET           ELEV CIVEL I.         ELEVATION         SHLO         SHOULDER           ELEV CIVEL I.         ELEVATION         SHLO         SHOULDER           EXCE VEXITING         SHLO         SHOULDER         SEWER MANHOLE           EXST (VEX.)         ELEVATION         ST         STREET           EXG         EXCAVATION         ST         STREET           EXB         FRAME AND GOVER         ST         STATION           FAG         FRAME AND GRATE         <				
COR GR         CROWN GRADE         REM         REMOVE           CU         CONNECTION UNKNOWN         RET         RETAIN           DIV         DESIGN HOURT, YOLUME         RETWALL         RETAINIS           DIA         DIAMETER         RR         RALROAD           DIA         DIAMETER         RR         RALROAD           DIV         DICTILE IRON PIPE         RR         RALROAD           DW         STEADY DONT WALK - PORTLAND GRANGE         RT         RIGHT           DW         STEADY DONT WALK - PORTLAND GRANGE         RT         RIGHT           ELEC         LELCTRICAL         SLD         SHOLD         STONE BOUND           ELEC         LELCATION         SHLD         STATCH HIGHWAY LAYOUT LINE           EMB         EMBANKMENT         SHLD         STATCH HIGHWAY LAYOUT LINE           EDEG OF PAVEMENT         SMH         SEWERMANHOLD           EXIST (OF EX)         SISTING         SOE         SUPPORT OF EXCAVATION           EXIST (OF EX)         SISTING         SOE         STOPPING SIGHT DISTANCE           EXC         STATION         SSD         STOPPING SIGHT DISTANCE           EXC         FRAME AND COVER         STA         STREET           FRAG				
COUNTECTION UNKNOWN   RETWALL   RE				
DH         DESIGN HOURLY VOLUME         RET WALL RETAINING WALL         RECIPION WAY           DI         DOPOPINAETER         RR         RICHT OF WAY           DIAM         DIAMETER         RR         RALROAD           DIP         DUCTILE IRON PIPE         RR         RAR         REMOVE AND RESET           DWY         DRIVEWAY         SB         STONIE BOUND           ELEV (oF EL.)         ELEVATION         SHLD         STATE HICHWAY LAYOUT LINE           ENB         EMBANKIMENT         SHLD         STATE HICHWAY LAYOUT LINE           EXIST (oF RX)         ZINSTING         SOE         SUPPORT OF EXCAVATION           EXX         ZINSTING         SOE         SUPPORT OF EXCAVATION           EXX         ZINSTING RAND         SSD         STOPPING SIGHT DISTANCE           F&C         FRAME AND COVER         ST         STATION           F&G         FRAME AND GARTE         STA         STATION           FBOP         FULL DEPTH PAYMENT         SW         SIDEWALK           FILDSTON         FILL DEPTH PAYMENT         SW         SIDEWALK           FLOYAN         FILL DEPTH PAYMENT         SW         SIDEWALK           GO         GROUND         T         TANCENT DISTANCE OF CURVE/TRUCK				
DIA         DIRAPHICE         RR         RALROAD           DIP         DIAMETER         RR         RAR         REMOVE AND RESET           DIP         DUCTILE IRON PIPE         RAR         REMOVE AND RESET           DW         STEADY DONT WALK - PORTLAND ORANGE         RT         ROWN           DWY         DRIVEWAY         STEADY DONT WALK - PORTLAND ORANGE         RT         RICHT           ELEC         ELECTRICAL         STEADY DONT WALK - PORTLAND ORANGE         RT         RICHT           ELEV (or EL.)         ELEVATION         SHLD         SHOULDER           ENDE         ELECTRICAL         SHLD         SHOULDER           EVAL         ELEVATION         SHLD         SHOULDER           EXIST (or EX.)         SISTING         SSD         STATE HIGHWAY LAYOUT LINE           EXIST (or EX.)         SISTING         SSD         STOPPING SIGHT DISTANCE           EXIST (or EX.)         SISTING         SSD         STOPPING SIGHT DISTANCE           EXIST (or EX.)         EXISTION         ST         STREET           EXIST (or EX.)         EXISTION         ST         STREET           EXIST (or EX.)         EXISTION         ST         STREET           EXIST (OR EX.)         SID				
DIP DIJOTHLE IRON PIPE R&R R&S REMOVE AND RESET DWY STEADY DON'T WALK - PORTLAND ORANGE DWY DRIVEWAY ELEC ELECTRICAL ELEV (or EL.) ELEVATION EMB EMBANKMENT SHLO STATE HIGHWAY LAYOUT LINE EMB EMBANKMENT SHLO STATE HIGHWAY LAYOUT LINE EMB EMBANKMENT SHLO STATE HIGHWAY LAYOUT LINE EXIST (or EX) EXISTING SOE SUPPORT OF EXCAVATION EXIST (or EX) EXISTING EXC EXCAVATION SSD STOPPING SIGHT DISTANCE FAC FRAME AND COVER ST STATION FAC FRAME AND COVER ST STAPPING SIGHT DISTANCE FAG FRAME AND GRATE SUP SHAPED SHA				
DWW         STEADY DON'T WALK - PORTLAND ORANGE         RKS         REMOVE AND STACK           DWY         DRIVEWAY         SB         STONE BOUND           ELEC         ELECTRICAL         SH LD         STONE BOUND           ELEV (or EL.)         ELEVATION         SHLD         STATE HIGHWAY LAYOUT LINE           EMB         EMBANKMENT         SMH         SEVER MANHOLE           EOP         EDGE OF PAVEMENT         SW         SUPPORT OF EXCAVATION           EXC         EXCAVATION         SD         STOPPING SIGHT DISTANCE           FRC         FRAME AND COVER         ST         STREET           FRG         FRAME AND GRATE         STA         STATION           FRO         FRAME AND GRATE         SV         SIDEWALK           FRO         FRAME AND GRATE         SV         SIDEWALK           FRO         FRAME AND GRATE         SV         STA STATION           FRG         FRAME AND GRATE         SV         SIDEWALK           FOD         FULL DEPTH PAVEMENT         SV         SIDEWALK           FOD         FULL DEPTH PAVEMENT         TY         TAN GRATED USE PATH           FDP         FULL DEPTH PAVEMENT         TY         TAN GRATED USE PATH           FDP				
DITECT   STONE BOUND				
ELEV (or EL)  ELEV (or EL)  ELEV (or EL)  EMB				
BMB         EMBAMKMENT         SHLO         SIAI E HIGHWAYAYOU LINE           EOP         EDGE OF PAVEMENT         SOE         SUPPORT OF EXCAVATION           EXC         EXCAVATION         SSD         SUPPORT OF EXCAVATION           EXC         EXCAVATION         ST         STREET           FAG         FRAME AND GOATE         STA         STATION           FOP         PULL DEPTH PAVEMENT         SW         SIDEWALK           FDN         FOUNDATION         T         TARGENT DISTANCE OF CURVE/TRUCK %           FLDSTN         FILLDSTONE         TAN         TANGENT           GAR         GARAGE         TEMP         TEMPORARY           GC         GRANITE CURB         TC         TOP OF SLOPE           GG         GROUND         TO         TOP OF SLOPE           GG         GAS GATE         TY         TYPICAL           GI         GUTTER INLET         UP         UTILITY POLE           GIP         GALVANIZED IRON PIPE         VAR         VARIES           GRAV         GRANIES         GRAVIES           GRAV         GRAVIES         VERTICAL GRAVITE CURVE           GROUD         GRAVEL         VC         VERTICAL LORANTE CURVE           H				
EURIT (or EX)				
EXC EXCAVATION ST STREET FAC FRAME AND GOVER FAG FRAME AND GOVER FOD FULL DEPTH PAVEMENT FON FOUNDATION TO SW SIDEWALK FIND FIELDSTONE FLDSTN FIELDSTONE FLDSTN FIELDSTONE FOR GRANGE GC GRANITE CURB GC GRANITE CURB GC GRANITE CURB GC GRANITE CURB GC GRANITE GURB GC GRANITE OURB GRAN GRANITE G				
FAGC FRAME AND COVER STA STATION FAG FRAME AND GRATE SUP SHARED USE PATH FOP PULL DEPTH PAVEMENT SUP SHARED USE PATH FON FOUNDATION TANGENT DISTANCE OF CURVE/TRUCK % FLDSTN FIELDSTONE TANGENT DISTANCE OF CURVE/TRUCK % FLDSTN FIELDSTONE TAN TANGENT GAR GARAGE TEMP TEMPORARY GC GRANITE CURB TC TOP OF SLOPE GG GROUND TOS TOP OF SLOPE GG GAS GATE TYP TYPICAL GIP GALVANIZED IRON PIPE VAR VARIES GRAN GRANITE GRAV GRAVEL VERT VERTICAL GRAV GRAVEL GRO GUARD VGC VERTICAL CURVE GRO GUARD VGC VERTICAL GRANITE CURB HMA HOT MIX ASPHALT WG WATER GATE HMA HOT MIX ASPHALT WG WATER GATE HP HIGH POINT WM WATER METER/WATER MAIN INV INVERT JCT JUNCTION L LENGTH OF CURVE LB LEACH BASIN LFD LAWRENCE FIRE DEPARTMENT LOG LIMIT OF GRADING LP LUGHT POLE L&S LOAM & SEED LT LEFT MAX MAXIMUM MAO MILL & OVERLAY MB MALLBOX MH MANHOLE MHB MASSACHUSETTS HIGHWAY BOUND MIN MINIMUM NIC NOT IN CONTRACT NO. NUMBER NVP NO VISIBLE PIPE OT OTHER PCC POINT OF COMPOUND CURVATURE	, ,			
FRIG. HRAME AND GRATIE FOP FULL DEPTH PAVEMENT FON FOUNDATION FLOSTN FIELDSTONE FLOSTN FIELDSTONE GAR GARAGE GC GRANITE CURB GC GROUND GG GROUND GG GAS GATE TYP TYPICAL GIP GALVANIZED IRON PIPE GRAN GRANITE GRAN GRAVE GRAVE GRAVE GRAVE GRAVE HMA HOT MIX ASPHALT HOR				
FDN FULL DEPH HAVEMENT SW SIDEWALK FDN FOUNDATION T TANGENT DISTANCE OF CURVE/TRUCK % FLDSTN FIELDSTONE TAN TANGENT ANGENT GAR GARAGE TEMP TEMPORARY GC GRANTE CURB TC TOP OF GURB GC GRANTE CURB TC TOP OF SLOPE GG GAS GATE TOS TOP OF SLOPE GG GAS GATE TYP TYPICAL GI GUTTER INLET UP UTILITY POLE GIP GALVANIZED IRON PIPE VAR VARIES GRAN GRANTE GRAN GRANTE GRAV GRAVEL VC VERTICAL CURVE GRO GUARD VGC VERTICAL CURVE GRO GUARD VGC VERTICAL CURVE HMA HOT MIX ASPHALT WG WATER GATE HOR HORIZONTAL WIP WROUGHT IRON PIPE HP HIGH POINT WM WATER METERWATER MAIN HYD HYDRANT X-SECT CROSS SECTION INV INVERT JCT JUNCTION L LENGTH OF CURVE LB LEACH BASIN LFD LAWRENCE FIRE DEPARTMENT LOG LIMIT OF GRADING LP LIGHT POLE LSS LOAM & SEED LT LEFT MAX MAXIMUM M&O MILL & OVERLAY MB MALBOX MH MANHOLE MHB MASSACHUSETTS HIGHWAY BOUND MIN MINIMUM NIC NOT IN CONTRACT NO. NUMBER NUP NO VISIBLE PIPE OT OTHER PC POINT OF CURVATURE PCC POINT OF CURVATURE PCC POINT OF CURVATURE PCC POINT OF CURVATURE PCC POINT OF CURVATURE				
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GD GROUND TOS TOP OF CURB GG GAS GATE GI GUTTER INLET GIP GALVANIZED IRON PIPE GRAN GRANITE CRAN GRANITE CRAV GRAVEL GRD GUARD HDW HEADWALL HMA HOT MIX ASPHALT HOP HIGH POINT HYD HYDRANT JOT JUNCTION L LENGTH OF CURVE LB LEACH BASIN LFD LAWRENCE FIRE DEPARTMENT LOG LIMIT OF GRADING LF LIGHT POLE L&S LOAM & SEED LT LEFT MAX MAXIMUM M&O MILL & OVERLAY MB MAILBOX MH MANHOLE MHB MASSACHUSETTS HIGHWAY BOUND MIN MINIMUM NIC NOT IN CONTRACT NOP DINT OF CIRVATURE PCC POINT OF CURVATURE PCC POINT OF CURVATURE PCC POINT OF CURVATURE PCC POINT OF CURVATURE PCC POINT OF COMPOUND CURVATURE				
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INV INVERT  JCT JUNCTION  L LENGTH OF CURVE  LB LEACH BASIN  LFD LAWRENCE FIRE DEPARTMENT  LOG LIMIT OF GRADING  LP LIGHT POLE  L&S LOAM & SEED  LT LEFT  MAX MAXIMUM  M&O MILL & OVERLAY  MB MAILBOX  MH MANHOLE  MHB MASSACHUSETTS HIGHWAY BOUND  MIN MINIMUM  NIC NOT IN CONTRACT  NO. NUMBER  NVP NO VISIBLE PIPE  OT OTHER  PC POINT OF COMPOUND CURVATURE  PCC POINT OF COMPOUND CURVATURE				
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L&S LOAM & SEED  LT LEFT  MAX MAXIMUM  M&O MILL & OVERLAY  MB MAILBOX  MH MANHOLE  MHB MASSACHUSETTS HIGHWAY BOUND  MIN MINIMUM  NIC NOT IN CONTRACT  NO. NUMBER  NVP NO VISIBLE PIPE  OT OTHER  PC POINT OF CURVATURE  PCC POINT OF COMPOUND CURVATURE				
LT LEFT MAX MAXIMUM M&O MILL & OVERLAY MB MAILBOX MH MANHOLE MHB MASSACHUSETTS HIGHWAY BOUND MIN MINIMUM NIC NOT IN CONTRACT NO. NUMBER NVP NO VISIBLE PIPE OT OTHER PC POINT OF CURVATURE PCC POINT OF COMPOUND CURVATURE				
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NIC NOT IN CONTRACT  NO. NUMBER  NVP NO VISIBLE PIPE  OT OTHER  PC POINT OF CURVATURE  PCC POINT OF COMPOUND CURVATURE				
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PC POINT OF CURVATURE PCC POINT OF COMPOUND CURVATURE	NVP			
PCC POINT OF COMPOUND CURVATURE				

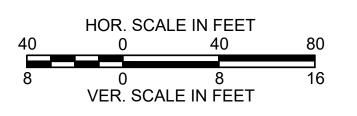
PRELIMINARY RIGHT OF WAY TYPICAL SECTIONS





PRELIMINARY RIGHT OF WAY CRITICAL PROFILE





	LAWRENCE SHORT STREE	Т	
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	5	8
	PROJECT FILE NO.	612074	
	ELIMINARY RIGHT ARCEL SUMMARY	_	

AFFECTED PROPERTIES	FEE TAKINGS	PERMANENT EASEMENTS	TEMPORARY EASEMENTS	TEMPORARY CONSTRUCTION AREAS
9	0	12	10	1

PARCEL NO.	DI ANI				TITLE RE	FERENCE	ROW F	PARCEL	PRO	OPERTY TOTALS (S.F)	FRONTAGE		701/11/0	LAND
	PLAN SHEET NO.	TITLEHOLDER	DEED BOOK	DEED PAGE	LCC NO.	CERT NO. INTEREST AQUIRED	AREA (S.F. +/-)	TOTAL TAKEN	REMAINING TOTAL PROPERTY AREA (RECORD)	ON ROW PLAN (FT.)	PROPERTY ADDRESS		RESTRICT FROM TH DEED	
D.4	7.0.0		4000	705		DEDM	000		80,655	000	OUECTNUT OTDEET	DOMINACE STRUCTURES AND DIRES TREE DEMOVAL	ARTICLE 9	
D-1 E-5	7 & 8 7 & 8	LAWRENCE CITY WATER DEPARTMENT  LAWRENCE CITY WATER DEPARTMENT	1336 1336	705 705		PERM	808 313		80,000	882	CHESTNUT STREET	HIGHWAY ALTERATION BRIDGE STRUCTURE GUARDRAIL CONCRETE HIGHWAY GUARD	REVIEW ARTICLE 97	
L-3	7 0 0	LAWILLINGE CHT WATER DEI ARTIWENT	1330	705		I LIXIVI	313					CONNECTION, COMCAST SERVICE CONNECTION	REVIEW	
TCA-1	7 & 8	LAWRENCE CITY WATER DEPARTMENT	1336	705		TEMP	589					DRAINAGE PIPE REMOVAL, MASONRY PLUG INSTALLATION, BOULDER REMOVAL, SEDIMENT CONTROL BARRIER, LOAM AND SEED, GRADING (6:1 MAX)	ARTICLE 97 REVIEW	
D-2	7 & 8	CITY OF LAWRENCE				PERM	205		21,580*	845	SHORT STREET	B2 DRAINAGE PIPE, TREE REMOVAL		
E-6	7 & 8	CITY OF LAWRENCE				PERM	169					HIGHWAY ALTERATION, BRIDGE STRUCTURE, GUARDRAIL, CEMENT CONCRETE SIDEWALK, REMOVE AND STACK CHAIN LINK FENCE, TREE REMOVAL		
E-8	7 & 8	CITY OF LAWRENCE				PERM	279					HIGHWAY ALTERATION, BRIDGE STRUCTURE, GUARDRAIL, CONCRETE HIGHWAY GUARD TRANSITION, CEMENT CONCRETE SIDEWALK		
TE-6	7 & 8	CITY OF LAWRENCE				TEMP	71					SEDIMENT CONTROL BARRIER		
TE-8	7 & 8	CITY OF LAWRENCE				TEMP	859					STREAMBED RESTORATION, SEDIMENT CONTROL BARRIER, LOAM AND SEED, GRADING (MAX 2:1), STONE FOR PIPE ENDS INSTALLATION, BRIDGE ACCESS		
D-3	7 & 8	SPICKET RIVER (EAST OF BRIDGE) - OWNER UNKNOWN				PERM	276		35,500*	59	SPICKET RIVER (EAST OF BRIDGE)	DRAINAGE PIPE		
E-7	7 & 8	SPICKET RIVER (EAST OF BRIDGE) - OWNER UNKNOWN				PERM	808					HIGHWAY ALTERATION, BRIDGE STRUCTURE, GUARDRAIL, CEMENT CONCRETE SIDEWALK		
TE-7	7 & 8	SPICKET RIVER (EAST OF BRIDGE) - OWNER UNKNOWN				TEMP	2,705					BRIDGE ACCESS, STREAMBED RESTORATION, TREE REMOVAL		
E-1	7 & 8	LAWRENCE REDEVELOPMENT AUTHORITY	1514 1515	113 304		PERM	448		62,468	467	MAPLE STREET	HIGHWAY ALTERATION, BRIDGE STRUCTURE, CONCRETE HIGHWAY GUARD TRANSITION, CEMENT CONCRETE SIDEWALK, BOULDER REMOVAL, REMOVE AND RESET POLICE CALL BOX, REMOVE AND RESET GRANITE POST	6F REVI	
TE-1	7 & 8	LAWRENCE REDEVELOPMENT AUTHORITY	1514 1515	113 304		TEMP	3,034					BRIDGE ACCESS, BRIDE CONSTRUCTION INCLUDING BEAM INSTALLATION, RELOCATE ELECTRICAL CONDUIT, POLICE CALL BOX TEMP LOCATION, GRANITE POST TEMP LOCATION, BOULDER REMOVAL, HMA SIDEWALK INSTALLATION, TEMPORARY HMA SHARED USE PATH, LOAM AND SEED, GRADING (2:1 MAX), SEDIMENT CONTROL BARRIER	6F REVIE	
E-2	7 & 8	CITY OF LAWRENCE				PERM	188		20,688*	859	ERVING AVENUE	R-3 HIGHWAY ALTERATION, BRIDGE STRUCTURE, GUARDRAIL, CONCRETE HIGHWAY GUARD TRANSITION, CEMENT CONCRETE SIDEWALK		
E-4	7 & 8	CITY OF LAWRENCE				PERM	336					HIGHWAY ALTERATION, BRIDGE STRUCTURE, GUARDRAIL, CONCRETE HIGHWAY GUARD TRANSITION, CEMENT CONCRETE SIDEWALK, REMOVE CHAIN LINK FENCE, TREE REMOVAL		
TE-2	7 & 8	CITY OF LAWRENCE				TEMP	445					STREAMBED RESTORATION, LOAM AND SEED, GRADING (2:1 MAX), SEDIMENT CONTROL BARRIER		
TE-4	7 & 8	CITY OF LAWRENCE				TEMP	458					GUARDRAIL INSTALLATION, LOAM AND SEED, GRADING (2:1 MAX), SEDIMENT CONTROL BARRIER		
E-3	7 & 8	SPICKET RIVER (WEST OF BRIDGE) -				PERM	877		38,812*	60	SPICKET RIVER (WEST OF	HIGHWAY ALTERATION, BRIDGE STRUCTURE, GUARDRAIL, CEMENT CONCRETE SIDEWALK		
TE-3	7 & 8	OWNER UNKNOWN SPICKET RIVER (WEST OF BRIDGE) - OWNER UNKNOWN				TEMP	2,491				BRIDGE)	LOAM AND SEED, GRADING (MAX 2:1), SEDIMENT CONTROL BARRIER, STREAMBED RESTORATION		
PUE-3	7	DORA SANTIAGO			13163-A	13559 PERM	130		5,093	150	14-16 CURRIER STREET	R-3 OVERHEAD WIRES, SWAG, REMOVE AND RESET SERVICE CONNECTION		
TE-11	7	DORA SANTIAGO			13163-A	13559 TEMP	56					CEMENT CONCRETE SIDEWALK		
TE-5	7	CHESTNUT PLACE, LLC	16170	320		TEMP	188			184	2-4 MAPLE STREET	R-3 CHAIN LINK FENCE REMOVAL		
TE-10	7	MARIA D. TAVERAS	11766	296		TEMP	69			70	10-14 MAPLE STREET	R-3 CEMENT CONCRETE SIDEWALK, SWAG REMOVAL		

