

SALEM  
BRIDGE STREET

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.		2	81
PROJECT FILE NO. 601017			

ABBREVIATIONS

AADT ANNUAL AVERAGE DAILY TRAFFIC  
AASHTO AMERICAN ASSOCIATION OF HIGHWAY AND TRANSPORTATION OFFICIALS  
ABAN. ABANDON  
ABUT. ABUTMENT  
ACCOMP ASPHALT COATED CORRUGATED METAL PIPE  
ADJ. ADJUST  
ADT AVERAGE DAILY TRAFFIC  
ALM. ALARM  
ALT. ALTERNATE, ALTERNATIVE  
ANSI AMERICAN NATIONAL STANDARDS INSTITUTE  
APPR. APPROACH  
APPROX. APPROXIMATE  
ASTM AMERICAN SOCIETY FOR TESTING AND MATERIALS  
AUX. AUXILIARY  
AVE. AVENUE  
  
BAR. BARRIER  
B&B BALLED & BURLAPPED  
BD. BOUND  
BIT. BITUMINOUS  
BL OR B BASELINE  
BLDG. BUILDING  
BM BENCH MARK, BEAM  
BO BY OTHERS  
BOD BOTTOM OF DITCH  
BOT. BOTTOM  
BR. BRIDGE  
BRG. BEARING  
BRK. BRICK  
  
C CUT  
CB CATCH BASIN  
CBCI CATCH BASIN WITH CURB INLET  
CC CEMENT CONCRETE  
CCM CEMENT CONCRETE MASONRY  
CEM. CEMENT  
CF CUBIC FEET  
CFS CUBIC FEET PER SECOND  
CI CAST IRON, CURB INLET  
CIP CAST IRON PIPE  
CIP CONC CAST IN PLACE CONCRETE  
CIP(CL) CAST IRON PIPE (CEMENT LINED)  
CL. CENTERLINE  
CLF CHAIN LINK FENCE  
CLL CLEARING LIMIT LINE  
CLP CEMENT LINED PIPE  
CLR. CLEAR, CLEARANCE  
CMB CONCRETE MEDIAN BARRIER  
CMP CORRUGATED METAL PIPE  
CO. CLEANOUT, COUNTRY  
COL. COLUMN  
CONC. CONCRETE  
COND. CONDUIT  
CONST. CONSTRUCT, CONSTRUCTION  
CONT. CONTINUE(D), CONTINUATION  
CS COMBINED SEWER  
CSJT CONSTRUCTION JOINT  
CSMH COMBINED SEWER MANHOLE  
CTR. CENTER  
CULV. CULVERT  
CY CUBIC YARD  
  
Δ DELTA ANGLE (CENTRAL ANGLE OF HORIZONTAL CURVE)  
D DIRECTIONAL PERCENTAGE OF DESIGN HOURLY VOLUME  
DIA. DIAMETER  
DA DRAINAGE AREA  
DDHV DIRECTIONAL DESIGN HOURLY VOLUME  
DEPT. DEPARTMENT  
DET. DETAIL  
DHV DESIGN HOURLY VOLUME  
DI DROP INLET  
DIM. DIMENSION  
DIP(L) DUCTILE IRON PIPE (LINED)  
DR. DRIVE, DRAIN  
  
E EAST, EXTERNAL  
EA. EACH  
EB ELECTRICAL BOX  
E.BD EASTBOUND  
EHH ELECTRIC HANDHOLE  
ELEV. ELEVATION  
ELEC. ELECTRICAL  
EMB. EMBANKMENT  
EMH ELECTRIC MANHOLE  
ENT. ENTRANCE  
EOP EDGE OF PAVEMENT  
EQ. EQUAL  
EST. ESTIMATE  
EXC. EXCAVATION  
EXIST. EXISTING  
EXJT EXPANSION JOINT  
EXPWY. EXPRESSWAY  
EXP. EXPANSION  
EXT. EXTERIOR, EXTERNAL

F FILL  
FA FIRE ALARM, FEDERAL AID  
F&C FRAME & COVER  
FDN. FOUNDATION  
FED. FEDERAL  
F&G FRAME & GRATE  
FH FIRE HYDRANT  
FHWA FEDERAL HIGHWAY ADMINISTRATION  
FIN. FINISH  
FL FLOW LINE  
FLDSTN. FIELDSTONE  
FLR. FLOOR  
FS FIRE SIGNAL  
FT. FOOT, FEET  
  
G GAS  
GAL. GALLON  
GALV. GALVANIZED  
GAR. GARAGE  
GD. GROUND  
GDRL GUARD RAIL  
GG GAS GATE  
GI GUTTER INLET  
GIP GALVANIZED IRON PIPE  
GM GAS METER  
GRAN. GRANITE  
GRAV. GRAVEL  
GV GAS VALVE  
  
HDW. HEADWALL  
HGL HYDRAULIC GRADE LINE  
HH HANDHOLE  
HO. HOUSE  
HOR. HORIZONTAL  
HOV HIGH OCCUPANCY VEHICLE  
HP HIGH POINT  
HES HIGH EARLY STRENGTH  
HS HIGH SERVICE WATER  
HWY. HIGHWAY  
HWY. GD. HIGHWAY GUARD  
HYD. HYDRANT  
  
IN. INCH  
INV. INVERT  
IP IRON PIPE  
IR. IRON  
IT INTERSECTION OF SLOPES OR PROFILE GRADE LINES  
  
JCT. JUNCTION  
  
K RATE OF VERTICAL CURVATURE, RATIO OF DESIGN HOURLY VOLUME TO AVERAGE DAILY TRAFFIC  
  
L LENGTH OF CURVE  
LAT. LATERAL  
LB LEACHING BASIN  
LB(S) POUND(S)  
LDSCP. LANDSCAPING  
LF LINEAR FEET  
LP LOW POINT, LIGHT POLE  
LS LOW SERVICE WATER  
LT. LEFT  
  
M MUCK EXCAVATION  
m METER  
MASS. MASSACHUSETTS  
MAX. MAXIMUM  
MB. MAILBOX  
MBTA MASSACHUSETTS BAY TRANSPORTATION AUTHORITY  
MDC METROPOLITAN DISTRICT COMMISSION  
MED. MEDIAN  
MH. MANHOLE  
MHB MASSACHUSETTS HIGHWAY BOUND  
MHD MASSACHUSETTS HIGHWAY DEPARTMENT  
MHW MEAN HIGH WATER  
MIN. MINIMUM  
MISC. MISCELLANEOUS  
MLW MEAN LOW WATER  
mm MILLIMETER  
MPH MILES PER HOUR  
MSL MEAN SEA LEVEL  
MTA MASSACHUSETTS TURNPIKE AUTHORITY  
MUTCD MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES  
MWRA MASSACHUSETTS WATER RESOURCES AUTHORITY  
  
N NORTH  
N/A NOT APPLICABLE  
NAD NORTH AMERICAN DATUM  
NAVD NORTH AMERICAN VERTICAL DATUM  
N.BD NORTHBOUND  
NC NORMAL CROWN  
NET NEW ENGLAND TELEPHONE  
NGVD NATIONAL GEODETIC VERTICAL DATUM  
NIC NOT IN CONTRACT

NO. NUMBER  
NTS NOT TO SCALE  
  
OW OBSERVATION WELL  
  
PB PULL BOX  
PC POINT OF CURVATURE  
PCC POINT OF COMPOUND CURVATURE  
PGL PROFILE GRADE LINE  
PI POINT OF INTERSECTION  
PKG. PARKING  
PL OR P PROPERTY LINE  
PM PARKING METER  
POC POINT ON CURVE  
POT POINT ON TANGENT  
PRC POINT OF REVERSE CURVATURE  
PROJ. PROJECT  
PROP. PROPOSED  
PSB PLANTABLE SOIL BORROW  
PSF POUNDS PER SQUARE FOOT  
PSI POUNDS PER SQUARE INCH  
PT POINT OF TANGENCY, POINT  
PVC POINT OF VERTICAL CURVATURE  
PVI POINT OF VERTICAL INTERSECTION  
PVMT. PAVEMENT  
PVT POINT OF VERTICAL TANGENCY  
PWW PAVED WATERWAY  
  
QTY. QUANTITY  
  
R RADIUS, ROCK EXCAVATION  
RAIL. RAILING  
RAD. RADIUS  
RC REINFORCED CONCRETE  
RCB REINFORCED CONCRETE BOX CULVERT  
RCP REINFORCED CONCRETE PIPE  
RD. ROAD  
RDWY. ROADWAY  
REFL. REFLECTORIZED  
REINF. REINFORCE, REINFORCING  
RELOC. RELOCATE(D), RELOCATION  
REM. REMOVE  
REMOD. REMODEL  
REQD. REQUIRED  
RET. RETAIN, RETAINING  
RET WALL RETAINING WALL  
REV. REVISION, REVISED  
ROW RIGHT-OF-WAY  
RR. RAILROAD  
R&R REMOVE AND RESET  
RS RAILROAD SIGNAL  
R&S REMOVE AND STACK  
RT. RIGHT  
RTE. ROUTE  
  
S SOUTH, SLOPE, SIGN  
SAN. SANITARY  
SB STONE BOUND, SPECIAL BORROW  
S.BD SOUTHBOUND  
SD STORM DRAIN, SUBDRAIN  
SDMH STORM DRAINAGE MANHOLE  
SE. SUPERELEVATION  
SEC. SECTION  
SF SQUARE FEET  
SH. SHEET  
SHLD. SHOULDER  
SHLL STATE HIGHWAY LAYOUT LINE  
SHLO STATE HIGHWAY LAYOUT  
SK. SKEW  
SL STOP LINE, SURVEY LINE  
SPEC(S) SPECIFICATION(S)  
SS SANITARY SEWER  
SSD STOPPING SIGHT DISTANCE  
SSMH SANITARY SEWER MANHOLE  
ST. STREET  
STA. STATION  
STD. STANDARD  
STMH STEAM MANHOLE  
STR. STRUCTURE, STRUCTURAL  
STRY. STORY  
SURF. SURFACE, SURFACING  
SW. SIDEWALK  
SY SQUARE YARD  
  
T PERCENTAGE OF TRUCKS, TON, TANGENT LENGTH OF CURVE  
TAN. TANGENT  
TCB TRAFFIC CONTROL BOX  
TEL. TELEPHONE  
TEMP. TEMPORARY  
TMH TELEPHONE MANHOLE  
TOPO TOPOGRAPHY  
TP TURNING POINT  
TSC TRAFFIC SIGNAL CONDUIT

TRANS. TRANSITION  
TRWY TRAVELED WAY  
TS TRAFFIC SIGNAL  
TV. TELEVISION (CABLE)  
TVMH TELEVISION MANHOLE (CABLE)  
TYP. TYPICAL  
  
UD UNDERDRAIN OR SUBDRAIN  
UP UTILITY POLE  
USGS U.S GEOLOGICAL SURVEY  
UTIL. UTILITIES  
  
V DESIGN SPEED  
VAR. VARIES, VARIABLE  
VC VERTICAL CURVE  
VCP VITRIFIED CLAY PIPE  
VERT. VERTICAL  
  
W WEST  
W.BD WESTBOUND  
WCR WHEELCHAIR RAMP  
WD. WOOD  
WDTH. WIDTH  
WE WATER ELEVATION  
WG WATER GATE  
WIP WROUGHT IRON PIPE  
WM WATER METER, WATER MAIN  
WMH WATER MANHOLE  
WV WATER VALVE  
  
X-SECT. CROSS-SECTION  
  
YD. YARD  
YR. YEAR

TRAFFIC ABBREVIATIONS

R STEADY CIRCULAR RED  
Y STEADY CIRCULAR YELLOW  
G STEADY CIRCULAR GREEN  
FR FLASHING CIRCULAR RED  
FY FLASHING CIRCULAR YELLOW  
YVA STEADY YELLOW VERTICAL ARROW  
GVA STEADY GREEN VERTICAL ARROW  
RLA STEADY RED LEFT ARROW  
YLA STEADY YELLOW LEFT ARROW  
GLA STEADY GREEN LEFT ARROW  
RRA STEADY RED RIGHT ARROW  
YRA STEADY YELLOW RIGHT ARROW  
GRA STEADY GREEN RIGHT ARROW  
W STEADY WALK  
FDW FLASHING DON'T WALK  
DW DON'T WALK  
ØA TRAFFIC SIGNAL PHASE  
BWLL BROKEN WHITE LANE LINE  
(3 m LENGTH, 9 m GAP)  
DWL 100 mm DOTTED WHITE LINE  
(600 mm LENGTH, 1.200 m GAP)  
DYCL 150 mm DOUBLE YELLOW CENTER LINE  
DYL 100 mm DOTTED YELLOW LINE  
SWCHL 200 mm SOLID WHITE CHANNELIZING LINE  
SWEL 150 mm SOLID WHITE EDGE LINE  
SWGL 300 mm SOLID WHITE GORE LINE  
SWLL SOLID WHITE LANE LINE  
SYEL 150 mm SOLID YELLOW EDGE LINE  
WTL WHITE TRANSVERSE LINE  
YTL YELLOW TRANSVERSE LINE  
CW 300 mm CROSSWALK  
LN LANE  
SL 300 mm WHITE STOP LINE

HIGHWAY GUARD ABBREVIATIONS

B.E. BURIED END  
F.E. FLARED END  
L.E. LEADING END  
T.B. TRANSITION BEAM W-BEAM TO THRIE BEAM  
T.S. TERMINAL SECTION  
T.E. TRAILING END  
TAN.E. TANGENT END