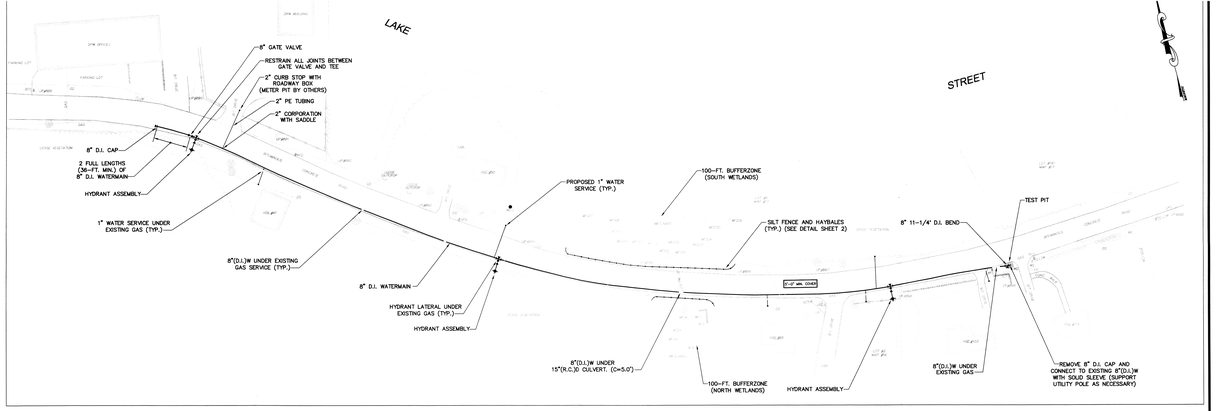


PLAN

SCALE: 1" = 40'-0"

LEGEND

EXISTING	EXISTING	PROPOSED
DRAIN/SEWER MANHOLE	8" DUCTILE IRON WATERMAIN	8" D.I. — 8" DUCTILE-IRON WATERMAIN
ELECTRIC/TELEPHONE MANHOLE	12" REINFORCED CONCRETE PIPE DRAIN	8"-11 1/4" — 8"-11 1/4" DEGREE BEND WITH THRUST BLOCK
CATCH BASIN/DROP INLET	3" RIGID METAL CONDUIT TRAFFIC SIGNAL	8"-22 1/2" — 8"-22 1/2 DEGREE BEND WITH THRUST BLOCK
CONCRETE/GRANITE BOUND	20" STEEL GAS MAIN	8"-45° — 8"-45 DEGREE BEND WITH THRUST BLOCK
HYDRANT	TELEPHONE/ELECTRIC CONDUIT	8"-90° — 8"-90 DEGREE BEND WITH THRUST BLOCK
WATER/GAS GATE	STONE WALL	CAP — CAP AND THRUST BLOCK
WATER/GAS SERVICE	RETAINING WALL	12" X 8" TEE — 12" X 8" TEE WITH THRUST BLOCK
UTILITY POLE NO. 125	EDGE OF WOODS	8" G.V. — 8" GATE VALVE
UTILITY POLE NO. 125 WITH OVERHEAD LIGHT	STEEL GUARD RAIL	12" B.V. — 12" BUTTERFLY VALVE
LAMP POST	WOOD POST AND WIRE GUARD RAIL	HYDRANT ASSEMBLY
STREET SIGN	CAPE COD BERM	SOLID SLEEVE / COUPLING
MAIL BOX	LEDGE OR ROCK OUTCROP	REDUCER
WELL	BOULDER	COUPLING
STAKE AND TACK	LANDSCAPED AREA	SEDIMENTATION CONTROL AT CATCH BASIN OR DROP INLET
FLAG POLE	DECIDUOUS TREE	SILTATION FENCING
WETLAND FLAG	EVERGREEN TREE (PINES, SPRUCES, ETC.)	
TRAFFIC CONTROL HANDHOLE/METER PEDESTAL	SHRUBS OR BUSHES	
TRAFFIC CONTROL CONTROLLER/DETECTOR	PROPOSED	
FENCE	8W+00 — WATERMAIN STATION 36	
FENCE	5'-0" MIN. COVER — COVER OVER WATERMAIN = 5'-0" MINIMUM	
FENCE	TEST PIT	

NOTES:

1. HORIZONTAL SEPARATION BETWEEN PROPOSED WATERMAIN AND EXISTING GAS SHALL BE A MINIMUM OF THREE FEET.
2. WHERE PROPOSED WATERMAIN CROSSES EXISTING UTILITIES, IT SHALL CROSS UNDER UNLESS OTHERWISE NOTED.
3. ALL PIPE JOINTS SHALL HAVE NITRILE GASKETS.
4. ALL SERVICES SHALL BE 1-INCH DIAMETER UNLESS OTHERWISE NOTED.
5. SERVICE CONNECTION LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS WILL BE DETERMINED IN THE FIELD.
6. RIGHT-OF-WAY AND PROPERTY LINES ARE APPROXIMATE ONLY.
7. THE CONTRACTOR IS ADVISED THAT THE EXISTING WATERMAIN TO WHICH THIS PROJECT WILL CONNECT IS OWNED BY THE SEEKONK WATER DISTRICT. THE CONTRACTOR SHALL SCHEDULE AND COORDINATE HIS WORK WITH THE DISTRICT FOR CONNECTION TO THE EXISTING WATERMAIN AND FOR PRESSURE TESTING AND DISINFECTION. ONLY DISTRICT PERSONNEL SHALL OPERATE VALVES AND HYDRANTS.

Received FEB 6 2009 Conservation Com.

Approved Date Comm.

R.D.A

Light, Patterson Et Al & Lincoln

REVISIONS		
NO.	ITEM	DATE
1.	ISSUED FOR REVIEW & PERMITTING	1/30/09

AMORY ENGINEERS P.C. — DATE: 1/30/09

AMORY ENGINEERS, P.C.
DUXBURY, MASSACHUSETTS

DRAWN BY:	RJT	FILE NAME:	AS SHOWN
DESIGNED BY:	RJT	JOB NO.:	3243
CHECKED BY:	DAJ	DATE:	1/21/09

SCALE:	AS SHOWN
DWG. NO.:	1509
CONTRACT:	DPW #09-04

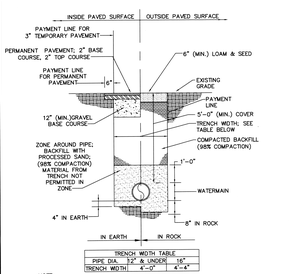
DEPARTMENT OF PUBLIC WORKS
SEEKONK, MASSACHUSETTS

CONSTRUCTION OF LAKE STREET
WATERMAIN AND APPURTENANT WORK

LAKE STREET AND LEGEND

CIVIL

SHEET 1 OF 2



NOTE:

1. PAYMENT FOR PAVEMENT INSTALLED BEYOND PAYMENT LINE WILL BE MADE ONLY UPON APPROVAL BY THE OWNER.

WATERMAIN TRENCH

NOT TO SCALE

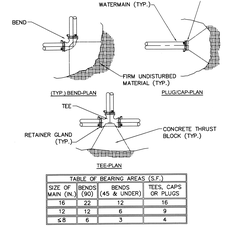


TABLE OF BEARING AREAS (S.F.)

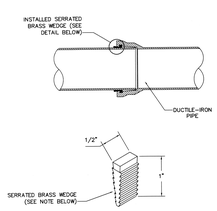
SIZE OF MAIN (IN.)	BENDS (90)	BENDS (45 & UNDER)	TEES, CAPS OR PLUGS
16	22	12	16
12	12	6	9
c.i.	6	3	4

NOTES:

1. CONCRETE FOR THRUST BLOCKS SHALL HAVE MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AT 28 DAYS, UNLESS DETERMINED OTHERWISE BY THE ENGINEER.
2. THRUST BLOCK BEARING AREAS SHALL BE IN ACCORDANCE WITH TABLE, UNLESS DETERMINED OTHERWISE BY THE ENGINEER.
3. THRUST BLOCK SIDES SHALL BE FORMED WITH PLYWOOD.

THRUST BLOCK DETAILS

NOT TO SCALE

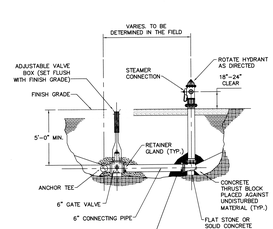


NOTES:

1. BRASS WEDGES SHALL BE INSTALLED ON ALL PUSH-ON PIPE JOINTS, TWO PER JOINT, INCLUDING HYDRANT BRANCHES, ETC.
2. EACH WEDGE SHALL BE DRIVEN INTO THE OPENING BETWEEN THE PLAIN END AND THE BELL ON OPPOSITE SIDES OF THE PIPE UNTIL SNUG.

SERRATED BRASS WEDGE DETAIL

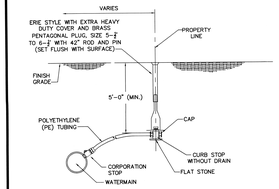
NOT TO SCALE



NOTE: DEPTH OF HYDRANT BURY SHALL SUIT. INSTALLED DEPTH OF COVER OVER WATERMAIN.

HYDRANT ASSEMBLY

NOT TO SCALE

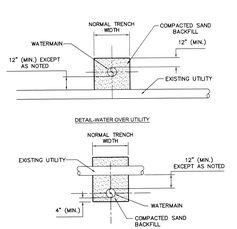


NOTES:

1. ALL JOINTS SHALL BE COMPRESSION TYPE.
2. POLYETHYLENE TUBING SHALL BE BACKFILLED WITH SAND BY HAND TO 6" ABOVE TUBING AND COMPACTED TO 98%.
3. A SERVICE SADDLE IS REQUIRED FOR ALL SERVICES LARGER THAN ONE INCH.

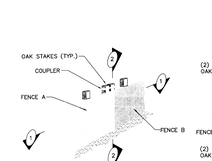
NEW SERVICE CONNECTION

NOT TO SCALE



TYPICAL UTILITY CROSSING

NOT TO SCALE

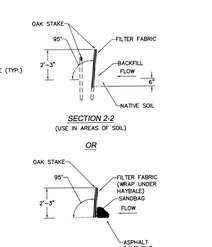


NOTES:

1. SILT FENCE / HAYBALES SHALL BE PLACED PRIOR TO START OF WORK.
2. OAK STAKES SHALL BE DRIVEN AT LEAST 18" MIN. INTO NATIVE SOIL.

SILT FENCE AND HAYBALES

NOT TO SCALE



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DEPARTMENT OF PUBLIC WORKS
SEEKONK, MASSACHUSETTS

CONSTRUCTION OF LAKE STREET
WATERMAIN AND APPURTENANT WORK

CONSTRUCTION DETAILS

CIVIL

SHEET 2 OF 2