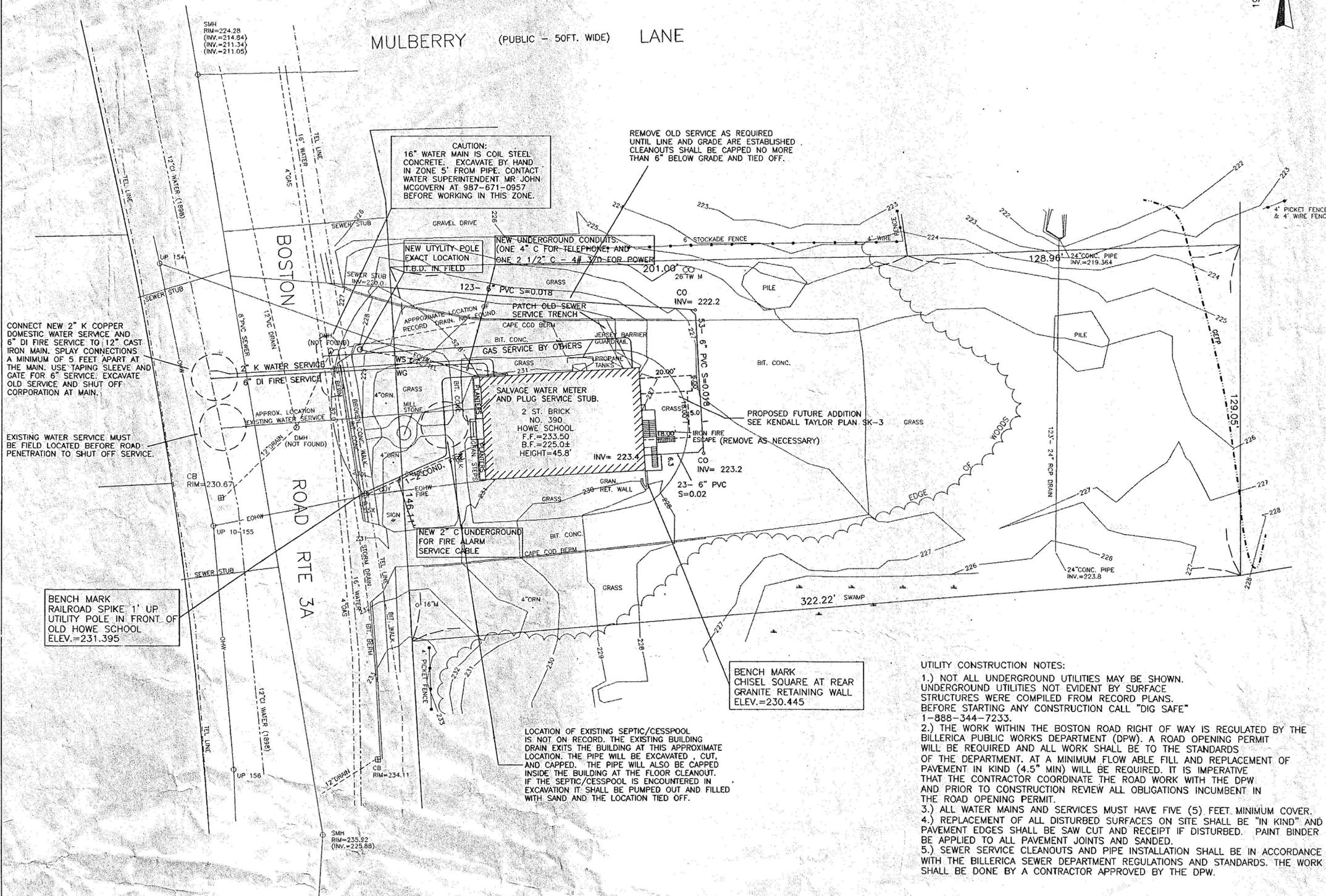


UTILITY REFERENCES:
 1.) NEW SEWAGE WORKS—CONTRACT 25 RECORD PLAN BOSTON ROAD BY FST DATED AUG. 1991.
 2.) WATER MAIN PLAN OF 1898.
 3.) 16" WATER MAIN PLAN. (UNKNOWN DATE)



NOTES:
 1.) TOPOGRAPHY WAS OBTAINED BY THE EDM/PRISM PCLE METHOD.
 2.) ELEVATIONS REFER TO NGVD 1929.
 BENCH MARK USED:
 DISK STAMPED "AA40" TOP STEP (RIGHT SIDE) AT TOWN HALL
 ELEV.=223.425
 3.) THE PROPERTY LINE SHOWN WAS COMPILED FROM PLANS AND DEEDS OF ABUTTING PROPERTIES AND CUT INTO 1918 COUNTY LAYOUT OF BOSTON ROAD. THIS COMPILATION DOES NOT NECESSARILY REPRESENT THE PROPERTY LINE, WITH THE EXCEPTION OF BOSTON ROAD SINCE IT WAS RECONSTRUCTED WITHOUT BENEFIT OF DEED.

MULBERRY (PUBLIC - 50FT. WIDE) LANE



CAUTION:
 16" WATER MAIN IS COIL STEEL CONCRETE. EXCAVATE BY HAND IN ZONE 5' FROM PIPE. CONTACT WATER SUPERINTENDENT MR JOHN MCGOVERN AT 987-671-0957 BEFORE WORKING IN THIS ZONE.

REMOVE OLD SERVICE AS REQUIRED UNTIL LINE AND GRADE ARE ESTABLISHED. CLEANOUTS SHALL BE CAPPED NO MORE THAN 6" BELOW GRADE AND TIED OFF.

NEW UTILITY POLE EXACT LOCATION T.B.D. IN FIELD
 NEW UNDERGROUND CONDUITS (ONE 4" C FOR TELEPHONE AND ONE 2 1/2" C - 4# 3/0 FOR POWER)

CONNECT NEW 2" K COPPER DOMESTIC WATER SERVICE AND 6" DI FIRE SERVICE TO 12" CAST IRON MAIN. SPLAY CONNECTIONS A MINIMUM OF 5 FEET APART AT THE MAIN. USE TAPING SLEEVE AND GATE FOR 6" SERVICE. EXCAVATE OLD SERVICE AND SHUT OFF CORPORATION AT MAIN.

EXISTING WATER SERVICE MUST BE FIELD LOCATED BEFORE ROAD PENETRATION TO SHUT OFF SERVICE.

BENCH MARK RAILROAD SPIKE 1' UP UTILITY POLE IN FRONT OF OLD HOWE SCHOOL
 ELEV.=231.395

BENCH MARK CHISEL SQUARE AT REAR GRANITE RETAINING WALL
 ELEV.=230.445

LOCATION OF EXISTING SEPTIC/CESSPOOL IS NOT ON RECORD. THE EXISTING BUILDING DRAIN EXITS THE BUILDING AT THIS APPROXIMATE LOCATION. THE PIPE WILL BE EXCAVATED, CUT, AND CAPPED. THE PIPE WILL ALSO BE CAPPED INSIDE THE BUILDING AT THE FLOOR CLEANOUT. IF THE SEPTIC/CESSPOOL IS ENCOUNTERED IN EXCAVATION IT SHALL BE PUMPED OUT AND FILLED WITH SAND AND THE LOCATION TIED OFF.

LEGEND:

B.F.	BASEMENT FLOOR
BIT.	BITUMINOUS
CB	CATCH BASIN
CO	CLEAN OUT
COM	COMMUNICATION
CONC.	CONCRETE
COND	CONDUIT
DI	DUCTILE IRON PIPE (CLASS 52)
DMH	DRAIN MANHOLE
ELEC	ELECTRIC
F.F.	FIRST FLOOR
GEFP	GREEN ENGINEERING FLOOD PLAIN
GRAN.	GRANITE
INV.	INVERT
M	MAPLE
OHW	OVERHEAD WIRE
ORN.	ORNAMENTAL
PVC	POLYVINYL CHLORIDE PIPE (SDR 35)
RCP	REINFORCED CONCRETE PIPE
RET.	RETAINING WALL
SMH	SEWER MANHOLE
ST.	STORY
TW	TWIN
VC	VITRIFIED CLAY PIPE
WG	WATER GATE
WS	WATER SERVICE CURB SHUT OFF

UTILITY CONSTRUCTION NOTES:
 1.) NOT ALL UNDERGROUND UTILITIES MAY BE SHOWN. UNDERGROUND UTILITIES NOT EVIDENT BY SURFACE STRUCTURES WERE COMPILED FROM RECORD PLANS. BEFORE STARTING ANY CONSTRUCTION CALL "DIG SAFE" 1-888-344-7233.
 2.) THE WORK WITHIN THE BOSTON ROAD RIGHT OF WAY IS REGULATED BY THE BILLERICA PUBLIC WORKS DEPARTMENT (DPW). A ROAD OPENING PERMIT WILL BE REQUIRED AND ALL WORK SHALL BE TO THE STANDARDS OF THE DEPARTMENT. AT A MINIMUM FLOW ABLE FILL AND REPLACEMENT OF PAVEMENT IN KIND (4.5" MIN) WILL BE REQUIRED. IT IS IMPERATIVE THAT THE CONTRACTOR COORDINATE THE ROAD WORK WITH THE DPW AND PRIOR TO CONSTRUCTION REVIEW ALL OBLIGATIONS INCUMBENT IN THE ROAD OPENING PERMIT.
 3.) ALL WATER MAINS AND SERVICES MUST HAVE FIVE (5) FEET MINIMUM COVER.
 4.) REPLACEMENT OF ALL DISTURBED SURFACES ON SITE SHALL BE "IN KIND" AND PAVEMENT EDGES SHALL BE SAW CUT AND RECEIPT IF DISTURBED. PAINT BINDER BE APPLIED TO ALL PAVEMENT JOINTS AND SANDED.
 5.) SEWER SERVICE CLEANOUTS AND PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH THE BILLERICA SEWER DEPARTMENT REGULATIONS AND STANDARDS. THE WORK SHALL BE DONE BY A CONTRACTOR APPROVED BY THE DPW.

ASSESSORS MAP 51, PARCEL 24
 NOONAN & MC DOWELL, INC.
 LAND SURVEYORS
 CIVIL ENGINEERS &
 ENVIRONMENTAL PLANNERS
 25 BRIDGE STREET, SUITE 6, BILLERICA, MA. 01821-1023
 (978) 687-9736

UTILITY CONNECTION PLAN
 IN
 BILLERICA, MA.
 (MIDDLESEX COUNTY)
 OLD HOWE SCHOOL SITE
 PREPARED FOR:
 TOWN OF BILLERICA
 365 BOSTON ROAD
 BILLERICA, MA. 01821



SCALE 1IN=20FT

DATE: JUNE 17, 2002

COMP./DESIGN: M.P. MCDOWELL

DRAWN: J.A. ROBINSON

CHK.M.P. MCDOWELL DWG. NO. 1799P1

SHEET NO. 1 OF 1 JOB NO. 1799/002

A-3-230