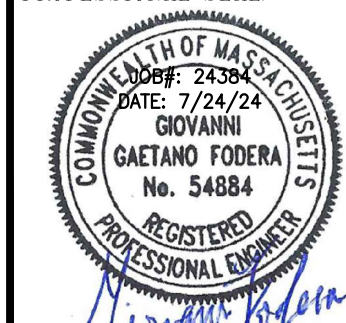


REVISION	DATE	BY

PROJECT LOCATION:
 323 MAIN ST.
 READING, MA 01867
 PARCEL ID:
 12-109

PLAN SET:
PROPOSED DRAINAGE
 "BAGEL WORLD"
 323 MAIN STREET
 READING, MA 01867

PROFESSIONAL SEAL:

 GAETANO FODERA
 No. 54884
 REGISTERED PROFESSIONAL ENGINEER

JOB NO.: 24384-435
 SHEET TITLE:
PROPOSED DRAINAGE PLAN
 SHEET NUMBER:
1 OF 2

IMPERVIOUS SURFACES

IMPERVIOUS AREA DIRECTED TO RECHARGE SYSTEM 7,500 S.F.

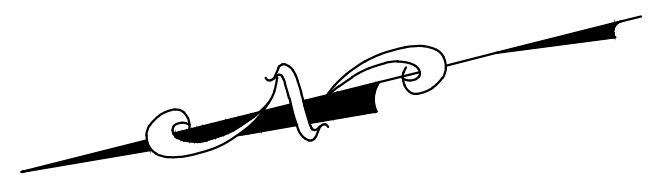
DRAINAGE CALCULATIONS

PROPOSED IMPERVIOUS: 7,500 S.F.
 DESIGN STORM: 1 INCH * ROOF AREA
 STORAGE REQUIRED: 7,500 S.F. * (1"/12") = 625 CF

PROPOSED STORAGE

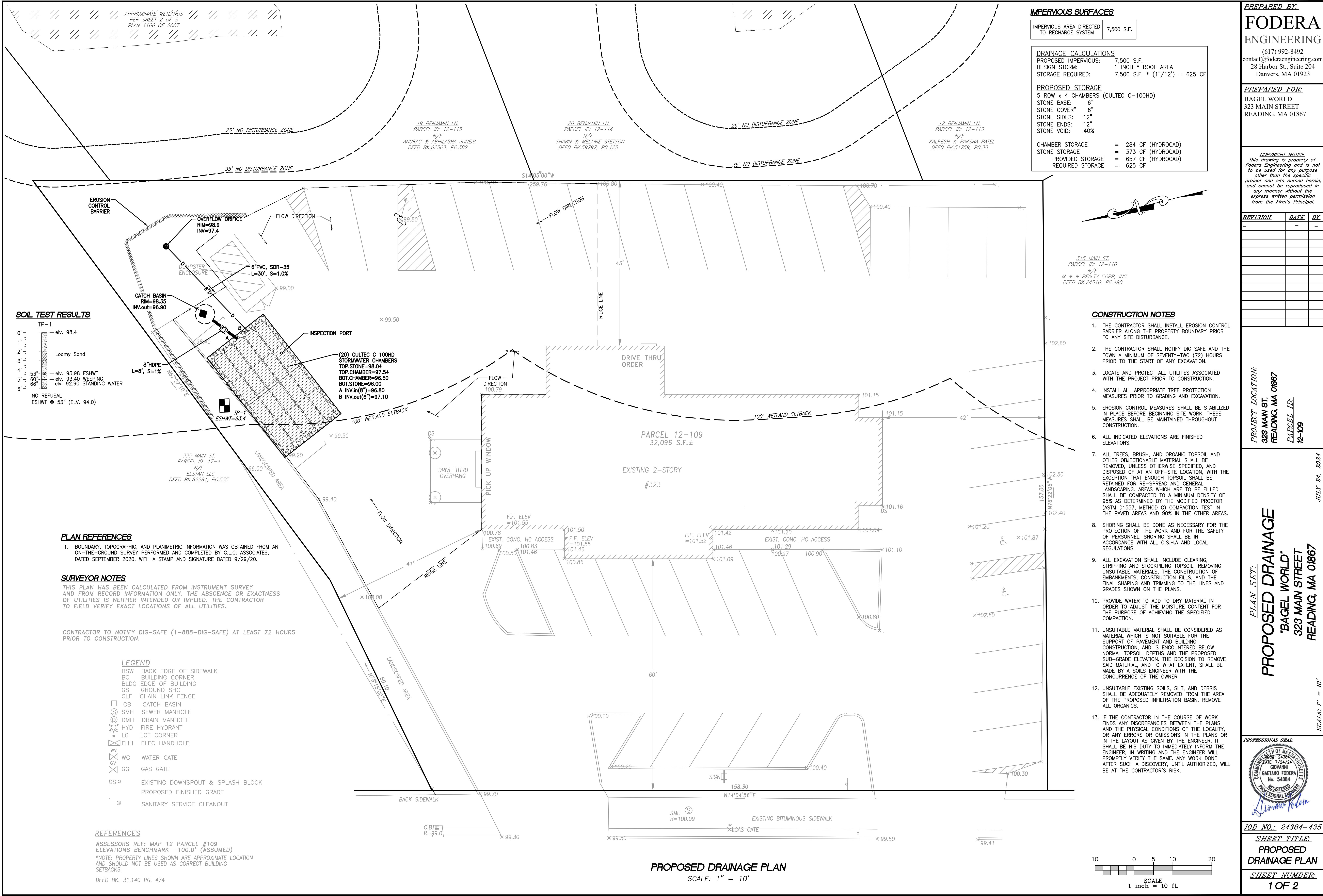
5 ROW x 4 CHAMBERS (CULTEC C-100HD)
 STONE BASE: 6"
 STONE COVER: 6"
 STONE SIDES: 12"
 STONE ENDS: 12"
 STONE VOID: 40%

CHAMBER STORAGE = 284 CF (HYDROCAD)
 STONE STORAGE = 373 CF (HYDROCAD)
 PROVIDED STORAGE = 657 CF (HYDROCAD)
 REQUIRED STORAGE = 625 CF

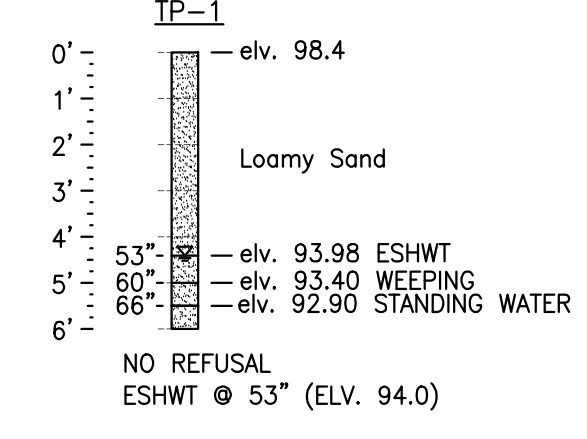


CONSTRUCTION NOTES

1. THE CONTRACTOR SHALL INSTALL EROSION CONTROL BARRIER ALONG THE PROPERTY BOUNDARY PRIOR TO ANY SITE DISTURBANCE.
2. THE CONTRACTOR SHALL NOTIFY DIG SAFE AND THE TOWN A MINIMUM OF SEVENTY-TWO (72) HOURS PRIOR TO THE START OF ANY EXCAVATION.
3. LOCATE AND PROTECT ALL UTILITIES ASSOCIATED WITH THE PROJECT PRIOR TO CONSTRUCTION.
4. INSTALL ALL APPROPRIATE TREE PROTECTION MEASURES PRIOR TO GRADING AND EXCAVATION.
5. EROSION CONTROL MEASURES SHALL BE STABILIZED IN PLACE BEFORE BEGINNING SITE WORK. THESE MEASURES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.
6. ALL INDICATED ELEVATIONS ARE FINISHED ELEVATIONS.
7. ALL TREES, BRUSH, AND ORGANIC TOPSOIL AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED, UNLESS OTHERWISE SPECIFIED, AND DISPOSED OF AT AN OFF-SITE LOCATION, WITH THE EXCEPTION THAT ENOUGH TOPSOIL SHALL BE RETAINED FOR RE-SPREAD AND GENERAL LANDSCAPING. AREAS WHICH ARE TO BE FILLED SHALL BE COMPACTED TO A MINIMUM DENSITY OF 95% AS DETERMINED BY THE MODIFIED PROCTOR (ASTM D1557, METHOD C) COMPACTION TEST IN THE PAVED AREAS AND 90% IN THE OTHER AREAS.
8. SHORING SHALL BE DONE AS NECESSARY FOR THE PROTECTION OF THE WORK AND FOR THE SAFETY OF PERSONNEL. SHORING SHALL BE IN ACCORDANCE WITH ALL O.S.H.A AND LOCAL REGULATIONS.
9. ALL EXCAVATION SHALL INCLUDE CLEARING, STRIPPING AND STOCKPILING TOPSOIL, REMOVING UNSUITABLE MATERIALS, THE CONSTRUCTION OF EMBANKMENTS, CONSTRUCTION FILLS, AND THE FINAL SHAPING AND TRIMMING TO THE LINES AND GRADES SHOWN ON THE PLANS.
10. PROVIDE WATER TO ADD TO DRY MATERIAL IN ORDER TO ADJUST THE MOISTURE CONTENT FOR THE PURPOSE OF ACHIEVING THE SPECIFIED COMPACTION.
11. UNSUITABLE MATERIAL SHALL BE CONSIDERED AS MATERIAL WHICH IS NOT SUITABLE FOR THE SUPPORT OF PAVEMENT AND BUILDING CONSTRUCTION, AND IS ENCOUNTERED BELOW NORMAL TOPSOIL DEPTHS AND THE PROPOSED SUB-GRADE ELEVATION. THE DECISION TO REMOVE SAID MATERIAL, AND TO WHAT EXTENT, SHALL BE MADE BY A SOILS ENGINEER WITH THE CONCURRENCE OF THE OWNER.
12. UNSUITABLE EXISTING SOILS, SILT, AND DEBRIS SHALL BE ADEQUATELY REMOVED FROM THE AREA OF THE PROPOSED INFILTRATION BASIN. REMOVE ALL ORGANICS.
13. IF THE CONTRACTOR IN THE COURSE OF WORK FINDS ANY DISCREPANCIES BETWEEN THE PLANS AND THE PHYSICAL CONDITIONS OF THE LOCALITY, OR ANY ERRORS OR OMISSIONS IN THE PLANS OR IN THE LAYOUT AS GIVEN BY THE ENGINEER, IT SHALL BE HIS DUTY TO IMMEDIATELY INFORM THE ENGINEER, IN WRITING AND THE ENGINEER WILL PROMPTLY VERIFY THE SAME. ANY WORK DONE AFTER SUCH A DISCOVERY, UNTIL AUTHORIZED, WILL BE AT THE CONTRACTOR'S RISK.



SOIL TEST RESULTS



PLAN REFERENCES

1. BOUNDARY, TOPOGRAPHIC, AND PLANIMETRIC INFORMATION WAS OBTAINED FROM AN ON-THE-GROUND SURVEY PERFORMED AND COMPLETED BY C.L.G. ASSOCIATES, DATED SEPTEMBER 2020, WITH A STAMP AND SIGNATURE DATED 9/29/20.

SURVEYOR NOTES

THIS PLAN HAS BEEN CALCULATED FROM INSTRUMENT SURVEY AND FROM RECORD INFORMATION ONLY. THE ABSENCE OR EXACTNESS OF UTILITIES IS NEITHER INTENDED OR IMPLIED. THE CONTRACTOR TO FIELD VERIFY EXACT LOCATIONS OF ALL UTILITIES.

CONTRACTOR TO NOTIFY DIG-SAFE (1-888-DIG-SAFE) AT LEAST 72 HOURS PRIOR TO CONSTRUCTION.

LEGEND

- BSW BACK EDGE OF SIDEWALK
- BC BUILDING CORNER
- BLDG EDGE OF BUILDING
- GS GROUND SHOT
- CLF CHAIN LINK FENCE
- CB CATCH BASIN
- SMH SEWER MANHOLE
- DMH DRAIN MANHOLE
- HYD FIRE HYDRANT
- LC LOT CORNER
- EHC ELEC HANDHOLE
- WG WATER GATE
- GG GAS GATE
- DS EXISTING DOWNSPOUT & SPLASH BLOCK
- PROPOSED FINISHED GRADE
- SANITARY SERVICE CLEANOUT

REFERENCES

ASSESSORS REF: MAP 12 PARCEL #109
 ELEVATIONS BENCHMARK -100.0' (ASSUMED)
 *NOTE: PROPERTY LINES SHOWN ARE APPROXIMATE LOCATION AND SHOULD NOT BE USED AS CORRECT BUILDING SETBACKS.
 DEED BK. 31,140 PG. 474

PROPOSED DRAINAGE PLAN
 SCALE: 1" = 10'

