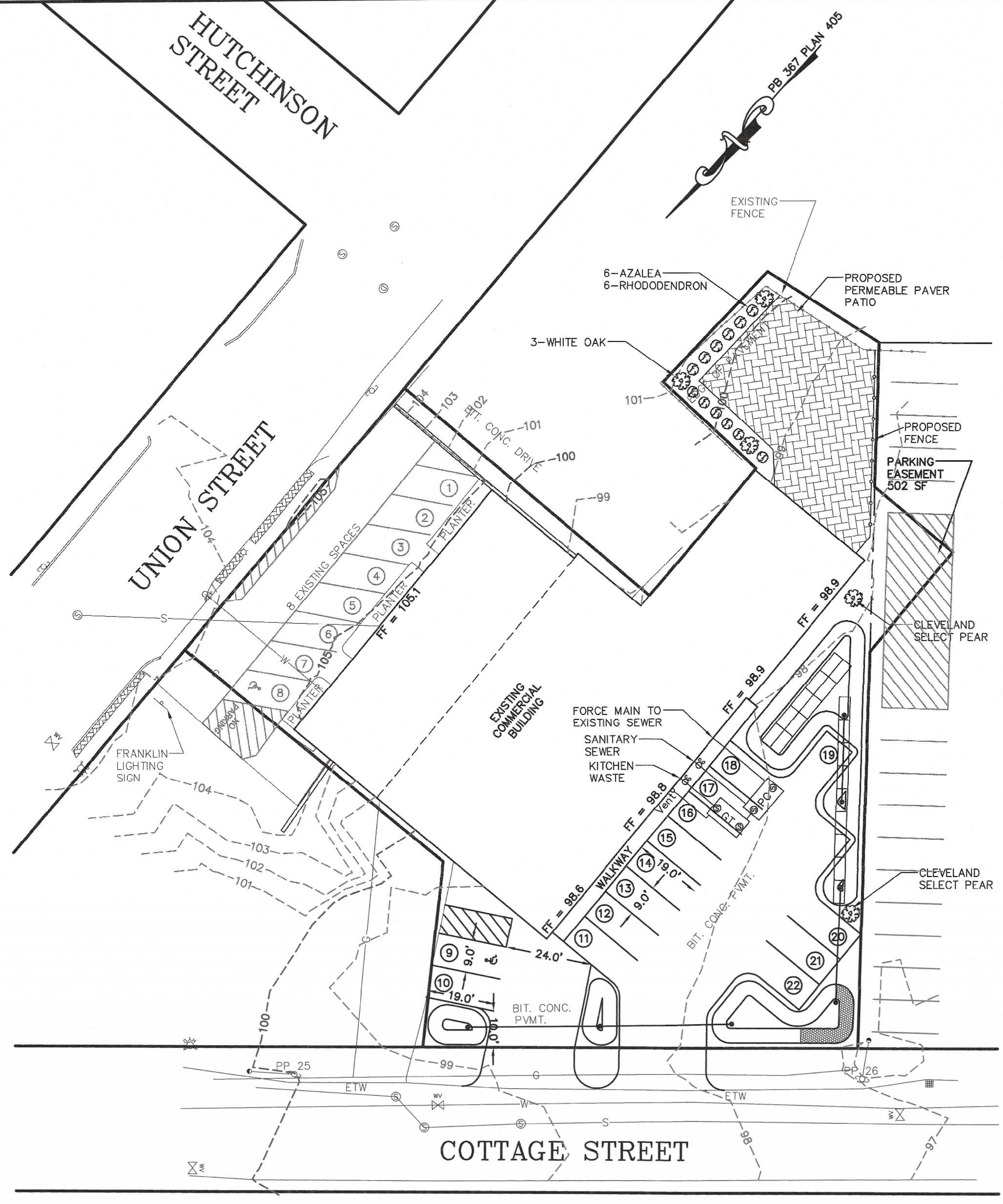
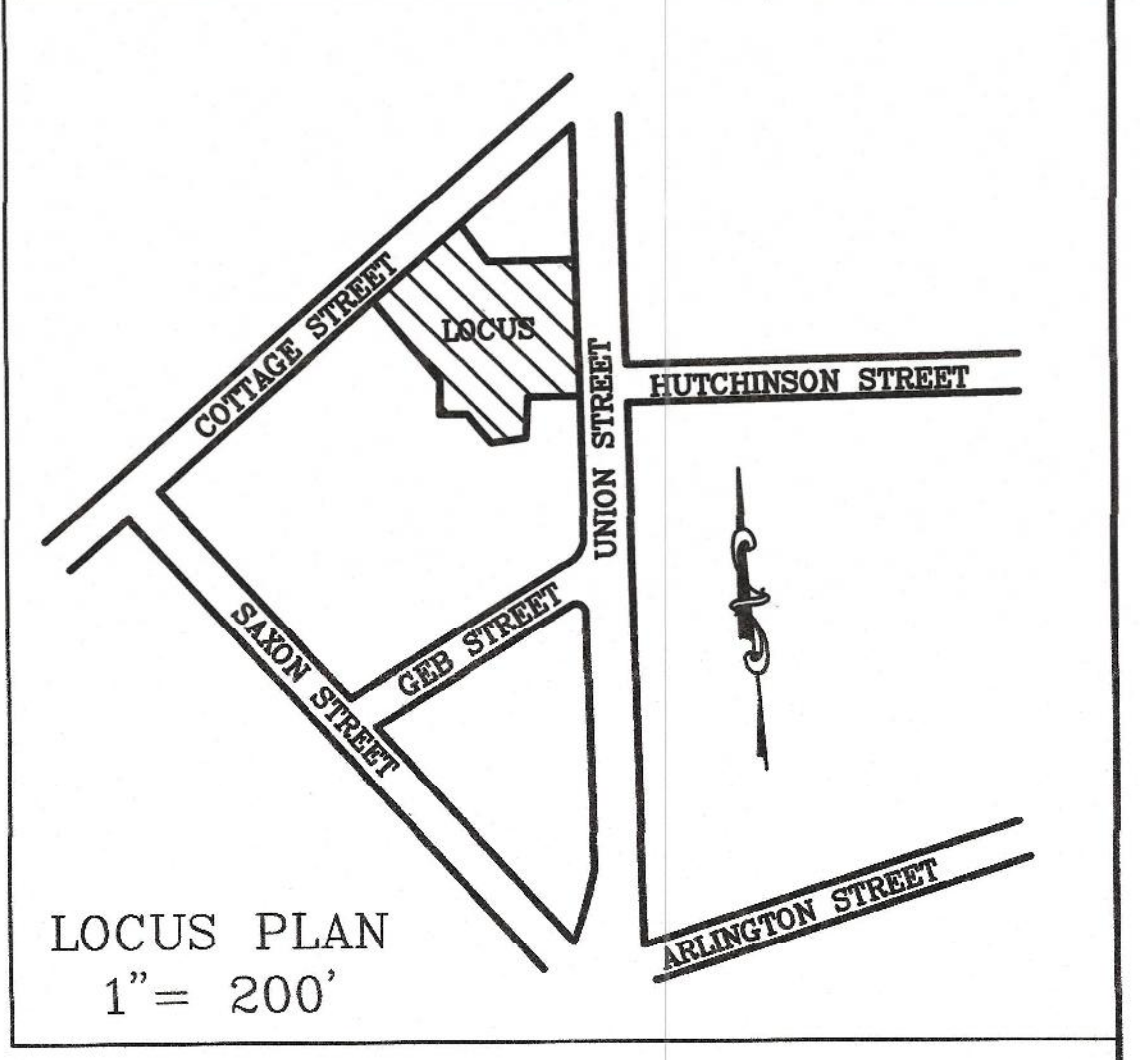


EXISTING



PROPOSED



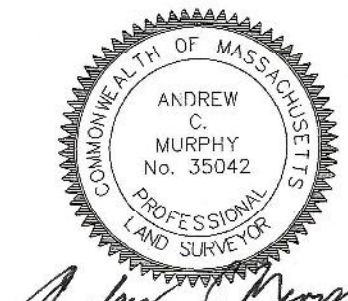
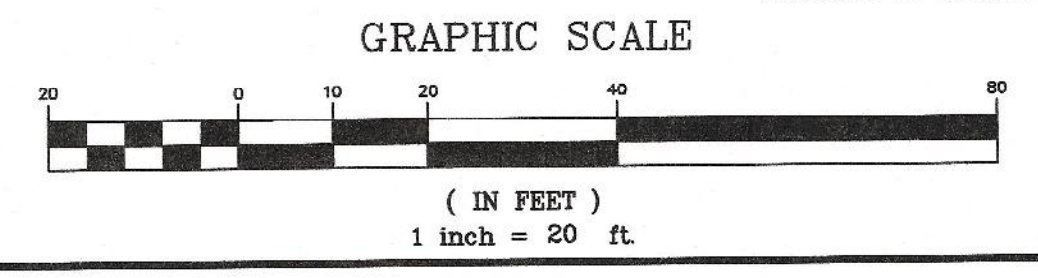
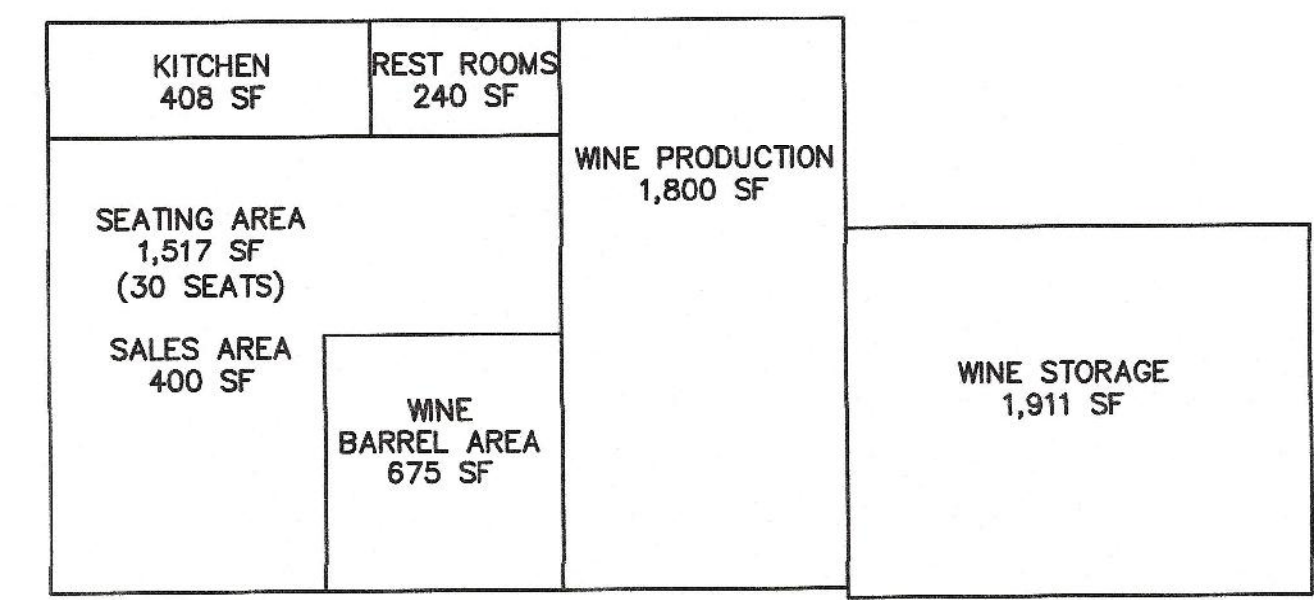
LOCUS PLAN
1" = 200'

PARKING REQUIREMENTS:
 UPPER LEVEL - 2,535 SF
 LOWER LEVEL - 6,951 SF
 TOTAL FLOOR AREA = 9,486 SF
 9,486 SF / 1 SPACE / 500 SF
 9,486 / 500 = 18.9 SPACES -> 19 SPACES
 SPACES PROVIDED: 22 SPACES

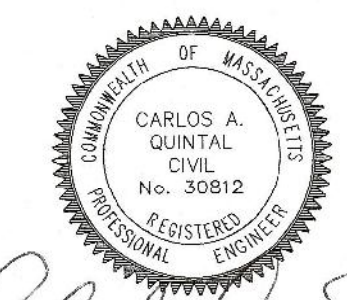
PROPOSED USE: SECTION 3.13 - BREWERY,
 DISTILLERY OR WINERY PRODUCTION WITH TASTING ROOM

1 SPACE / 2.5 SEATS
 40 SEATS / 2.5 = 16 SPACES
 2,535 SF / 500 = 5.07 SPACES
 16 + 5.07 = 21.07 SPACES -> 22 SPACES

ASSESSOR'S REFERENCE: 287-065
 DEED REFERENCE:
 DEED BOOK 37165 PAGE 391
 PLAN REFERENCES:
 PLAN 375 of 1922 DEED BOOK 1523 PAGE 421
 PLAN BOOK 159 PLAN 159 of 1988
 PLAN BOOK 367 PLAN 405 of 1988
 ZONING: COMMERCIAL 1
 AREA - 5,000 SF
 FRONTAGE - 50'
 FRONT - 20'
 SIDE - 10'
 REAR - 15'



ANDREW C. MURPHY P.L.S. #35042



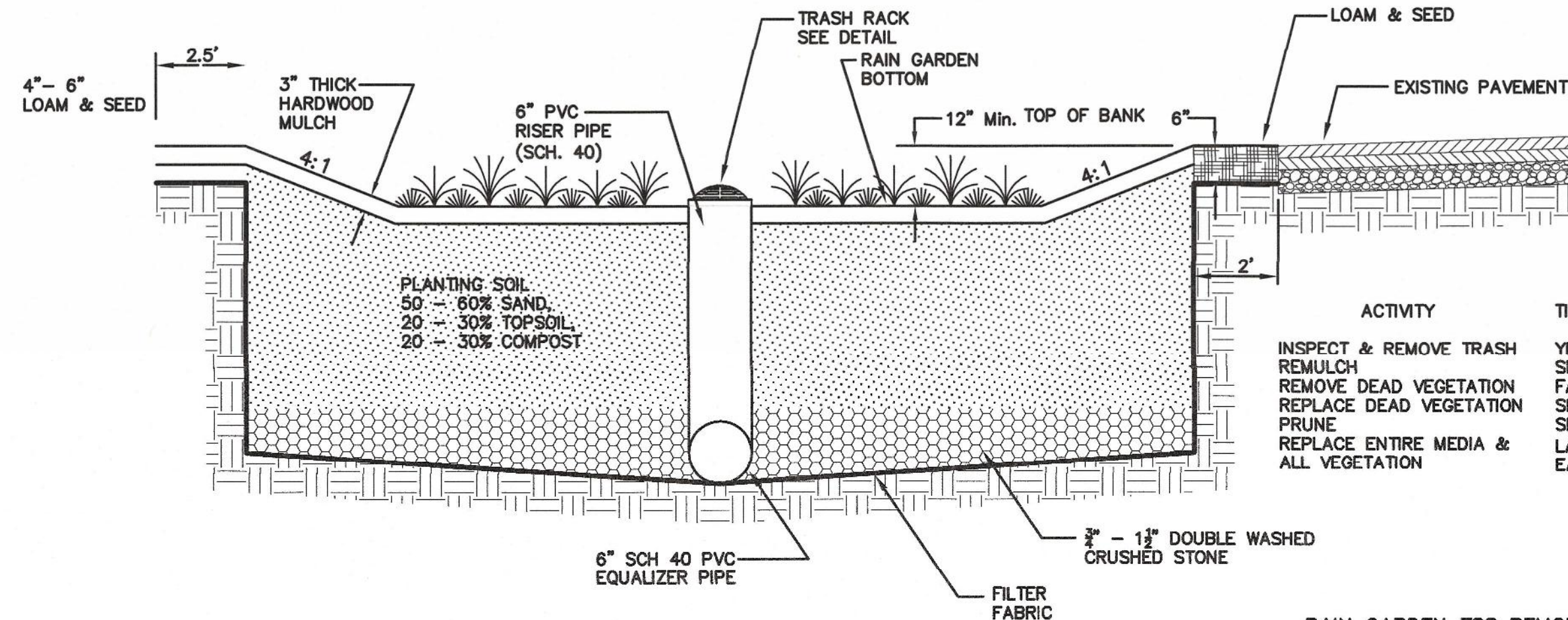
CARLOS A. QUINTAL P.E. #30812

SITE PLAN
 341 UNION STREET
 FRANKLIN, MASSACHUSETTS
 PREPARED FOR
 ROBERT VOZZELLA
 355 UNION STREET
 FRANKLIN, MASSACHUSETTS

UNITED CONSULTANTS INC.
 850 FRANKLIN STREET SUITE 11D
 WRENTHAM, MASSACHUSETTS 02093
 508-384-6560 FAX 508-384-6566

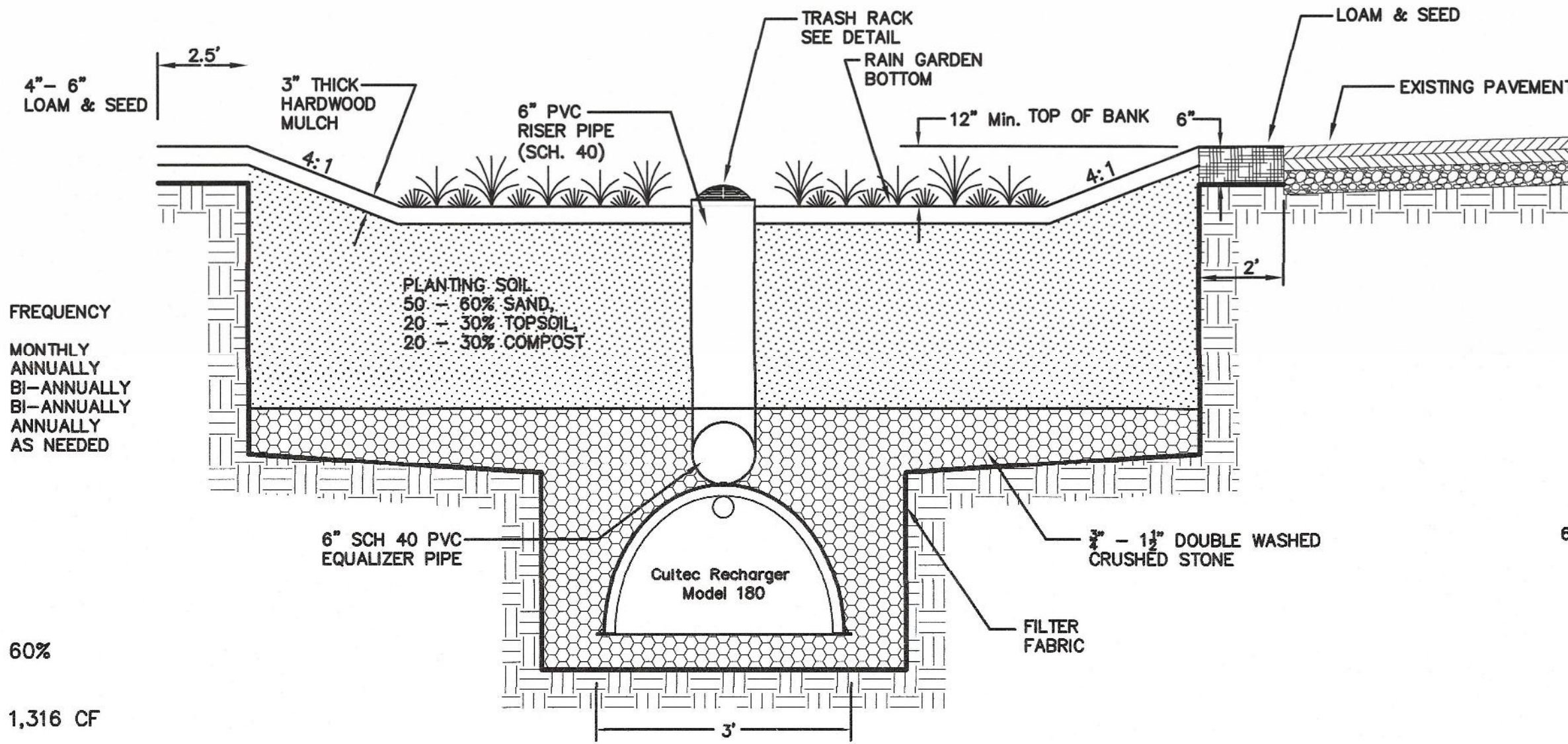
NO.	DATE	DESCRIPTION	BY

DATE: FEBRUARY 4, 2022 PROJECT: UC 1554
 SCALE: 1" = 20' SHEET: 1 of 3

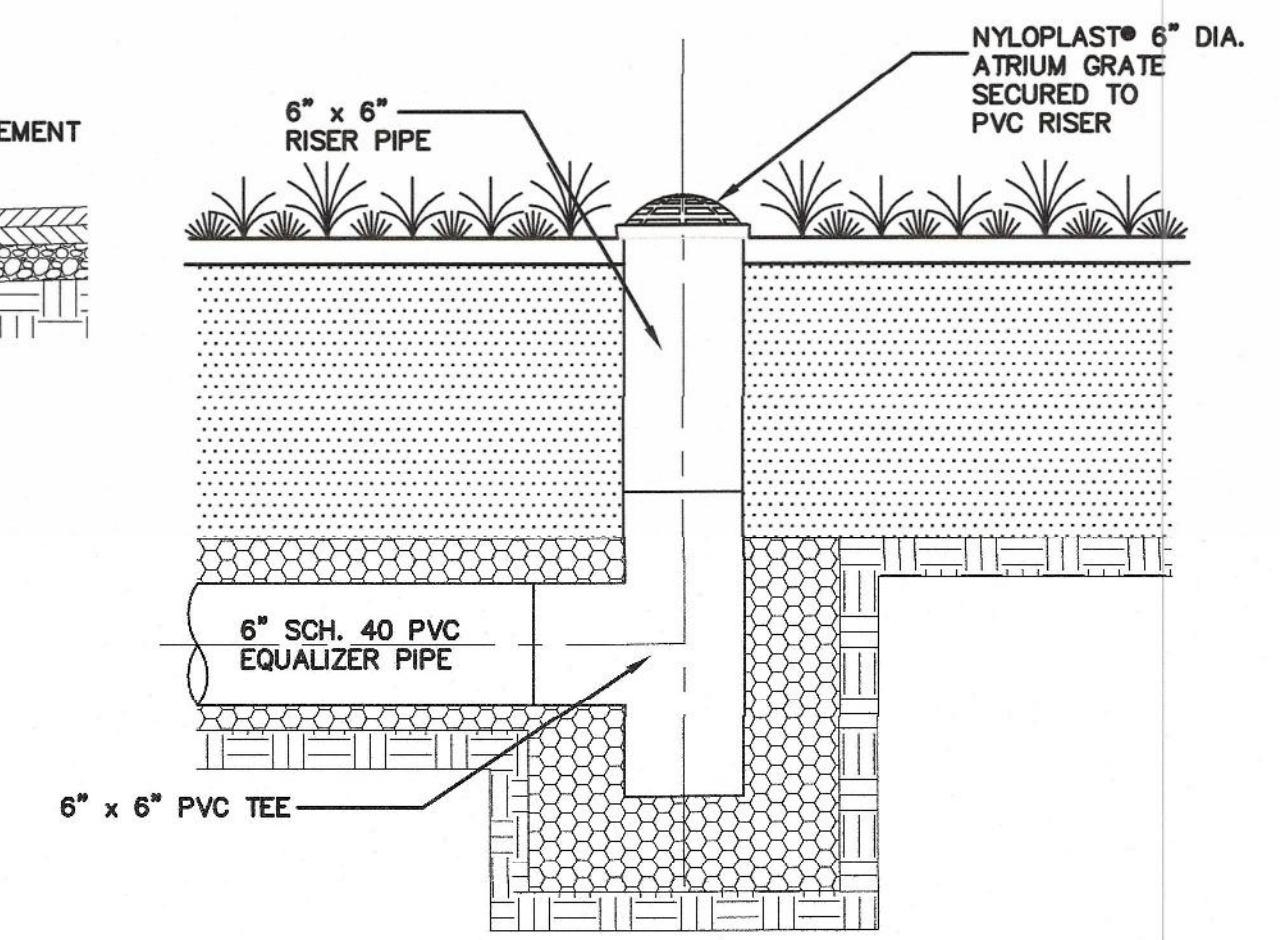


RAIN GARDEN DETAIL

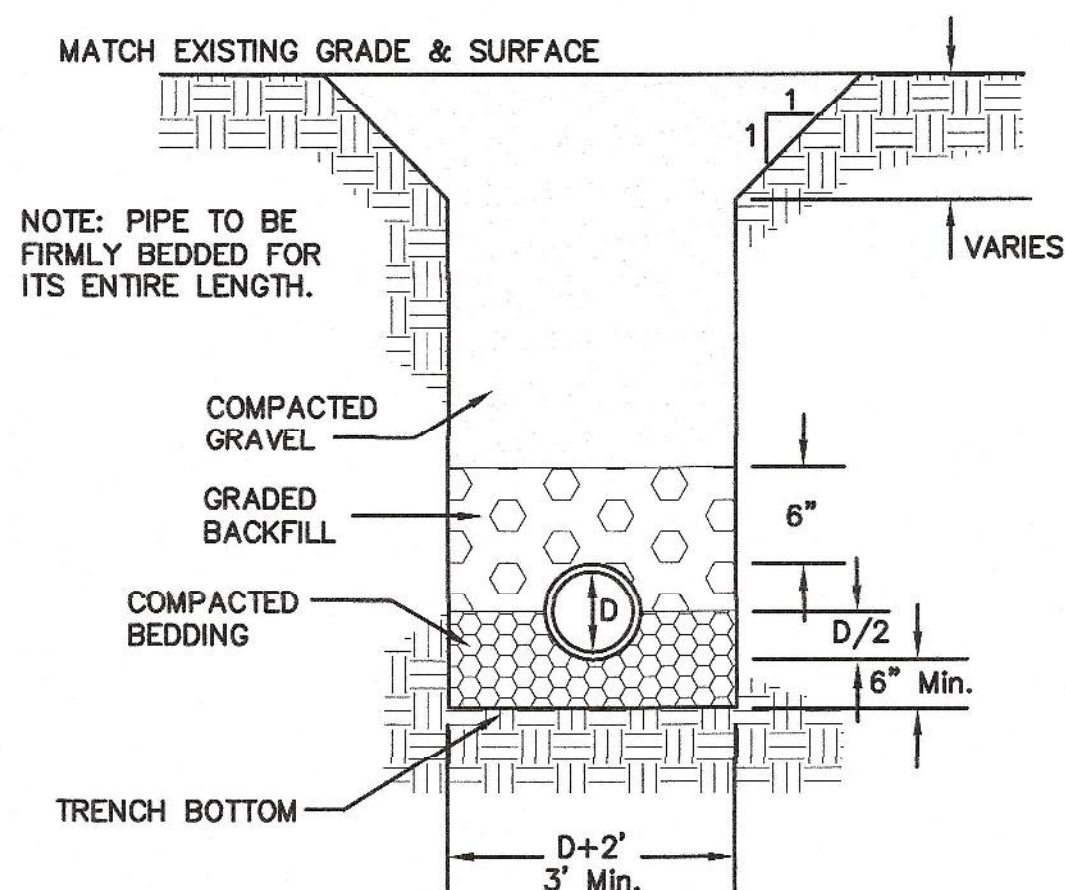
RAIN GARDEN TSS REMOVAL = 80%
 RAIN GARDEN PHOSPHORUS REMOVAL = 60%
 RAIN GARDEN STORAGE VOLUME = 19,814 SF x 0.80 INCHES = 1,307.6 CF
 REQUIRED STORAGE VOLUME PROVIDED = 1,316 CF



RAIN GARDEN DETAIL WITH CHAMBERS

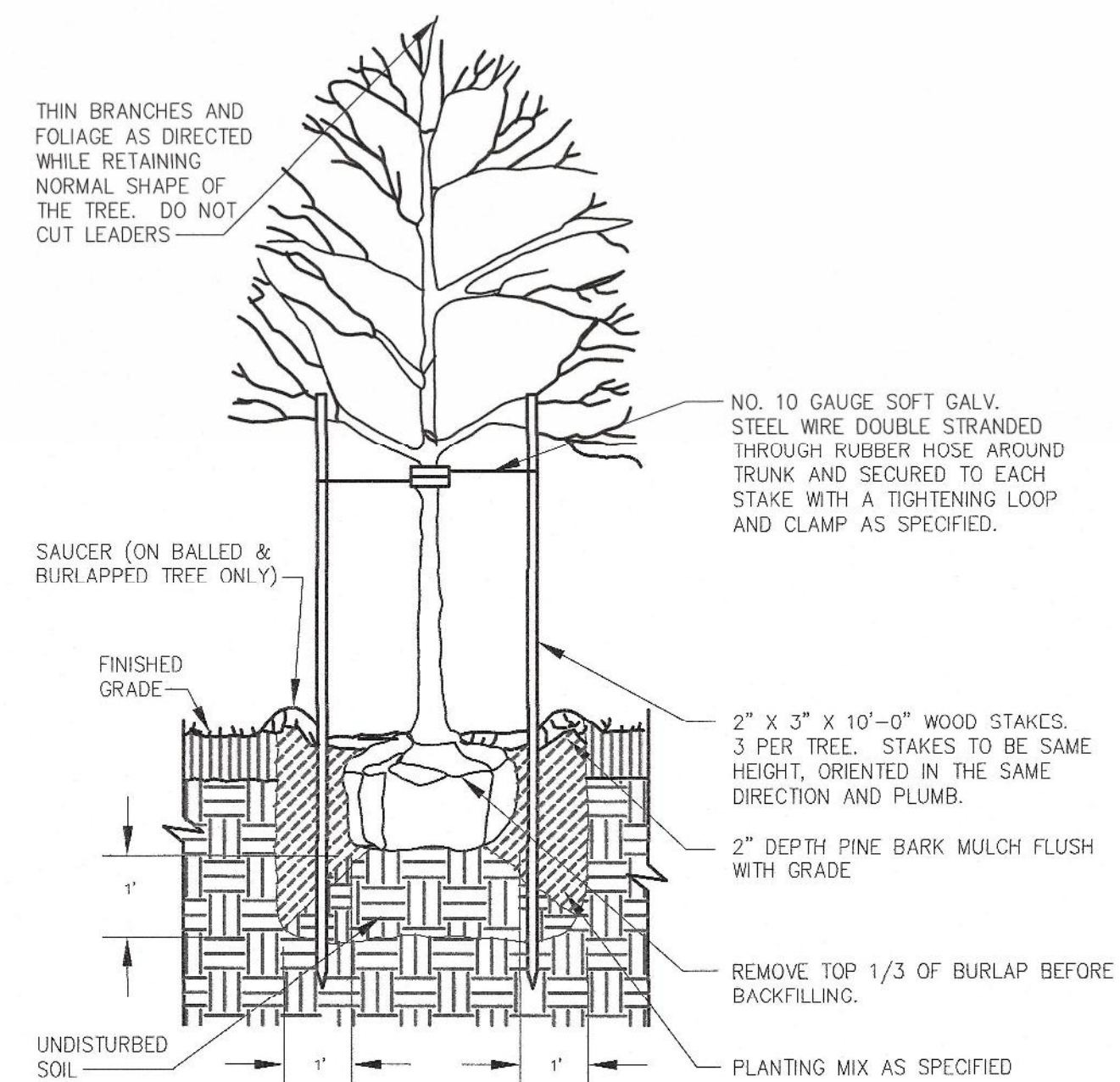


EQUALIZER CLEANOUT DETAIL

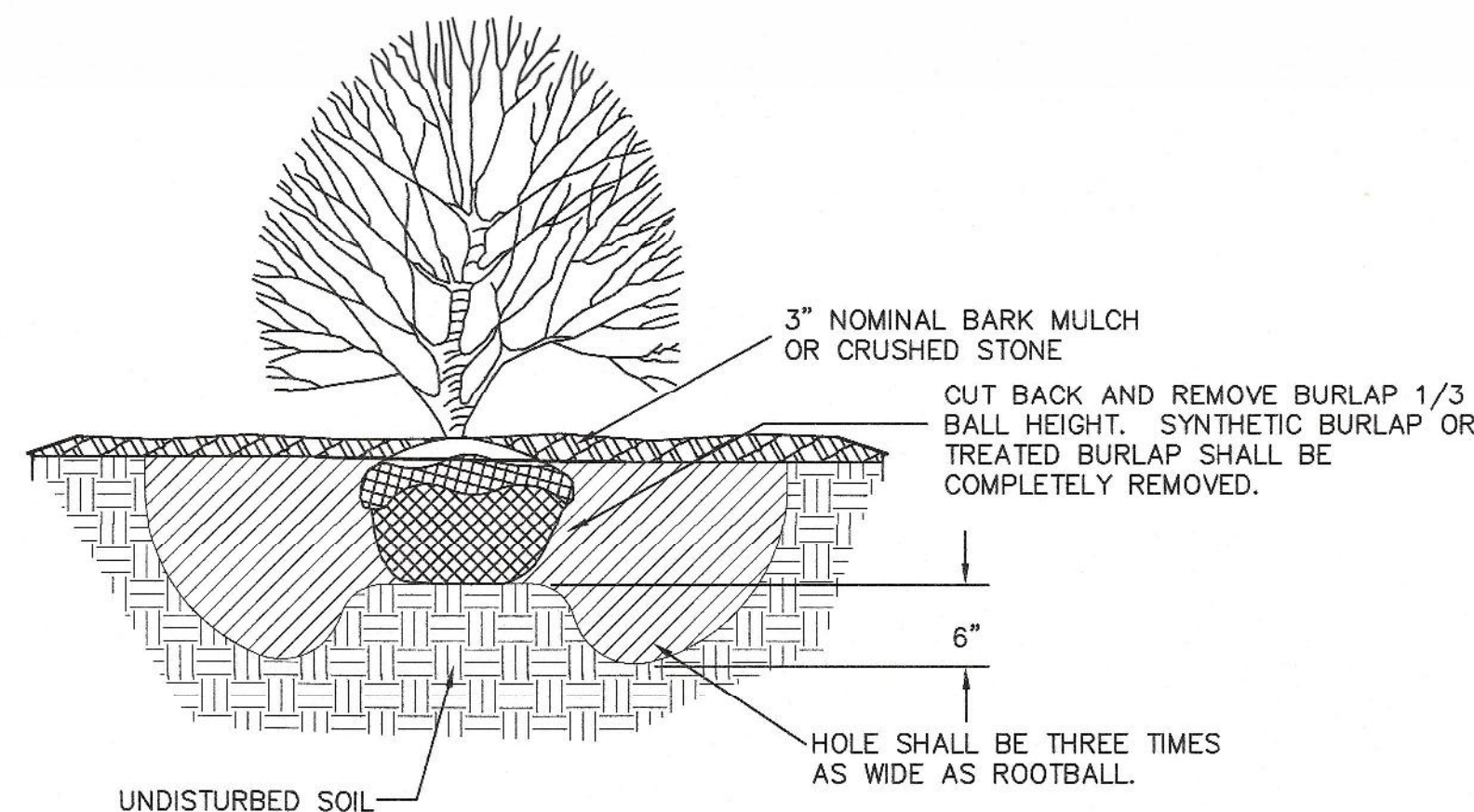


TYPE OF PIPE	SCH. 40 PVC DRAIN	C.I. SEWER
BEDDING MATERIAL	3/4" STONE	SAND
BACKFILL MATERIAL	3/4" STONE	SAND

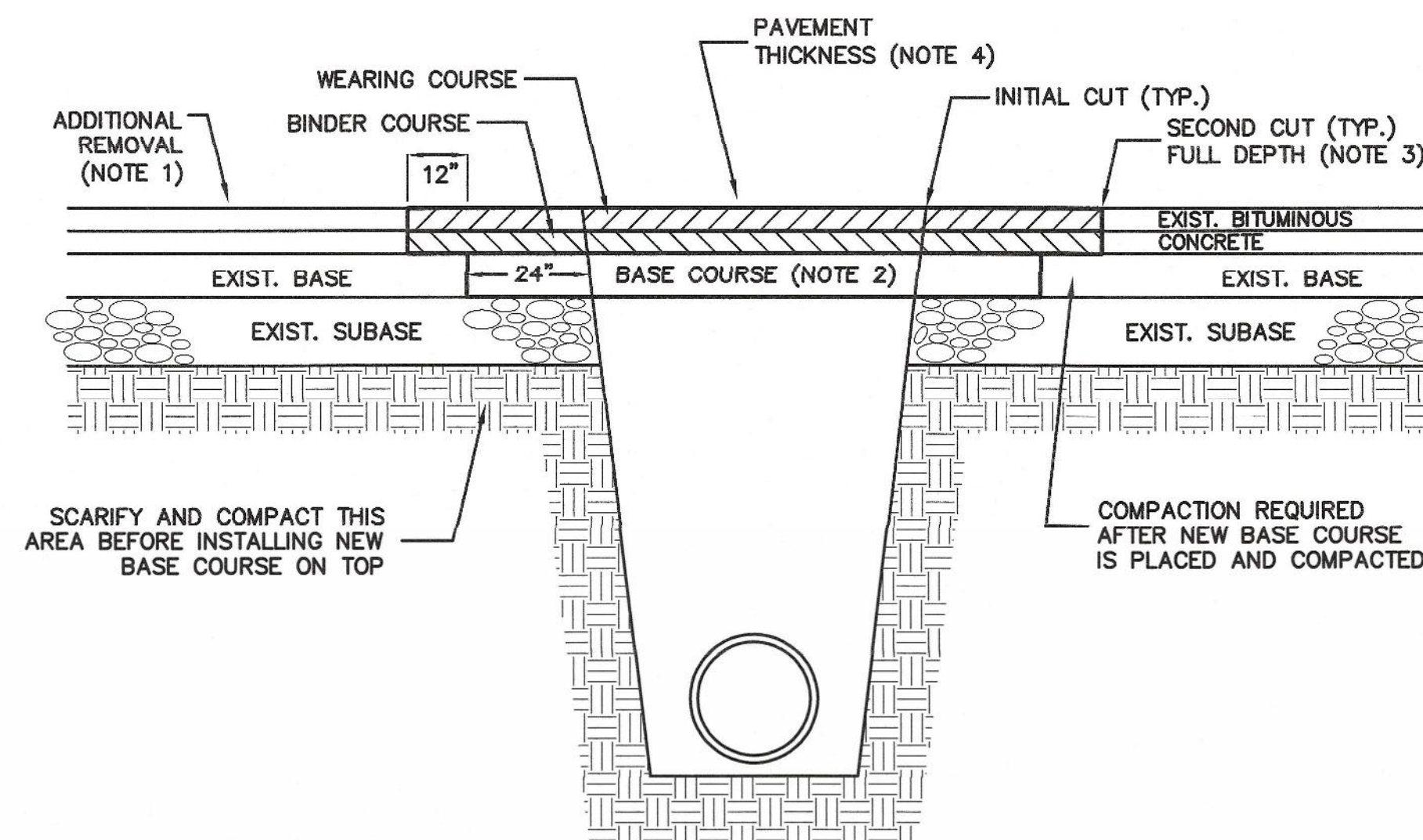
UTILITY TRENCH DETAIL



DECIDUOUS TREE PLANTING

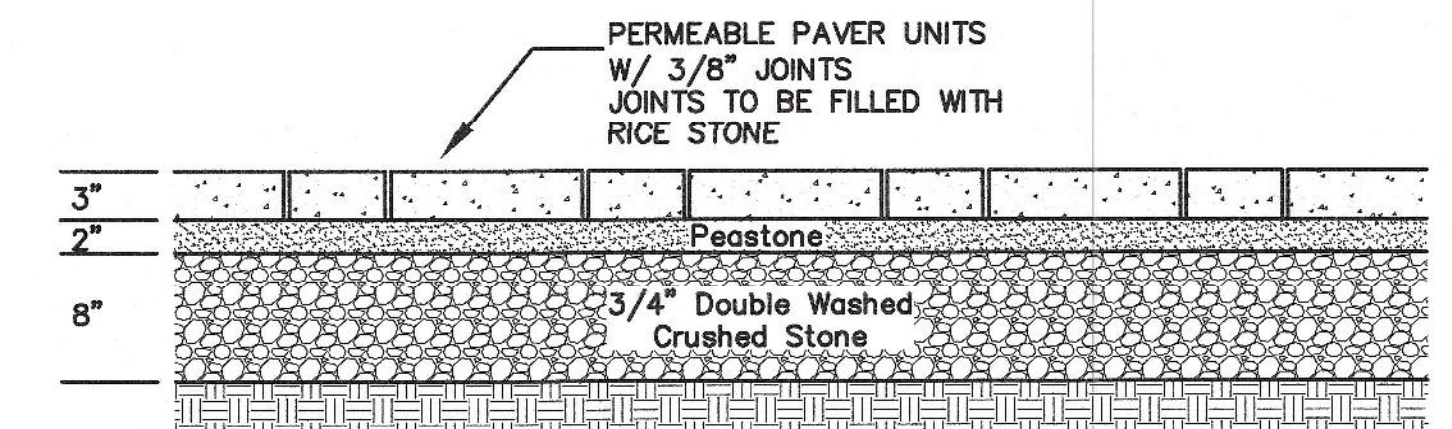


SHRUB PLANTING

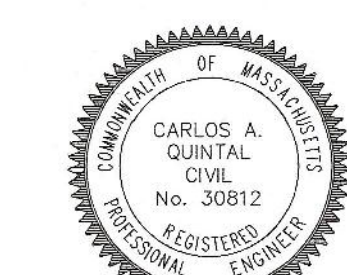
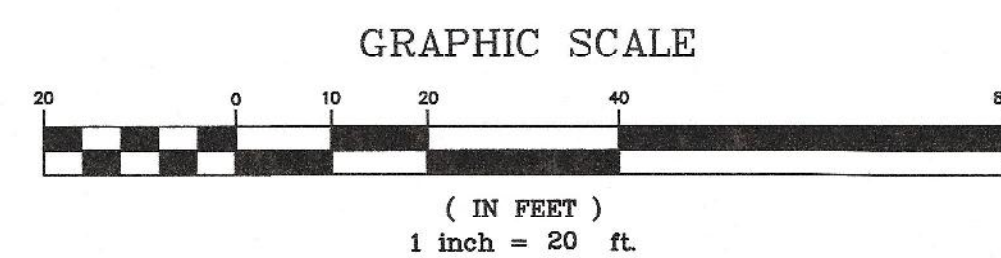


NOTES:
 1. ADDITIONAL PAVEMENT REMOVAL - REMOVE ADDITIONAL PAVEMENT TO A PAINTED LANE STRIPE, A LIP OF A GUTTER, A CURB, AN EXISTING PAVEMENT PATCH, OR AN EDGE OF THE PAVEMENT IF SUCH STREET FEATURE IS WITHIN 2' OF THE SECOND SAWCUT.
 2. NEW BASE COURSE - PROVIDE BASE COURSE MATERIAL IN LIFTS NOT EXCEEDING 8" AFTER COMPACTION. COMPACT TO A MODIFIED PROCTOR DENSITY OF 95% OR GREATER.
 3. TACK COAT - PROVIDE FULL TACK COAT COVERAGE ON ALL VERTICAL SURFACES.
 4. NEW ASPHALT PAVEMENT - INSTALL 2" WEARING COURSE OVER 2" BINDER COURSE. COMPACT THE NEW PAVEMENT TO 96% OF LABORATORY DENSITY OR 94% OF MAXIMUM THEORETICAL DENSITY.

TRENCH PATCHING DETAIL



PERMEABLE PAVER PATIO DETAIL



CARLOS A. QUINTAL P.E. #30812

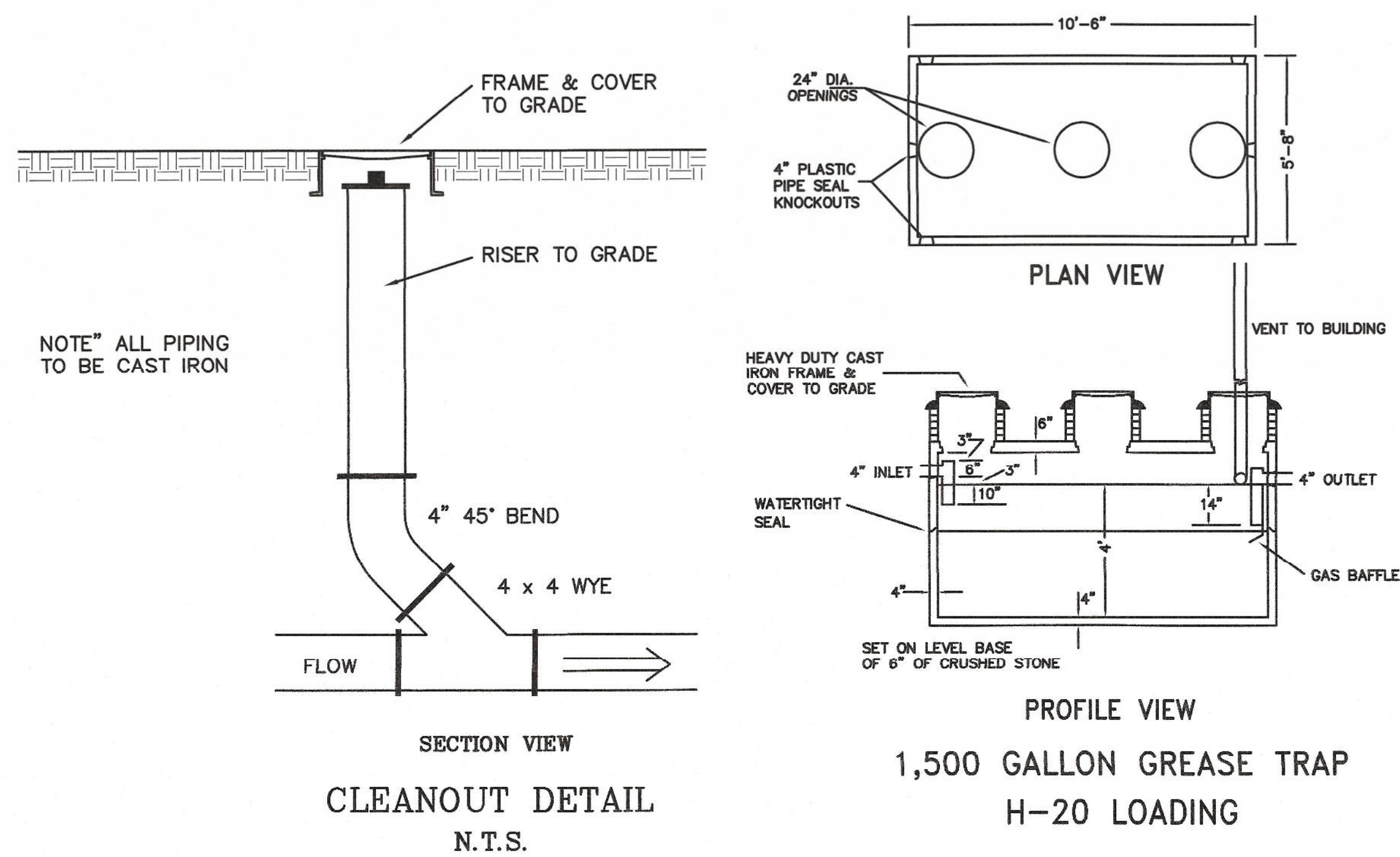
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DATE	FEBRUARY 4, 2022	PROJECT	UC 1554
SCALE	1" = 20'	SHEET	2 of 3

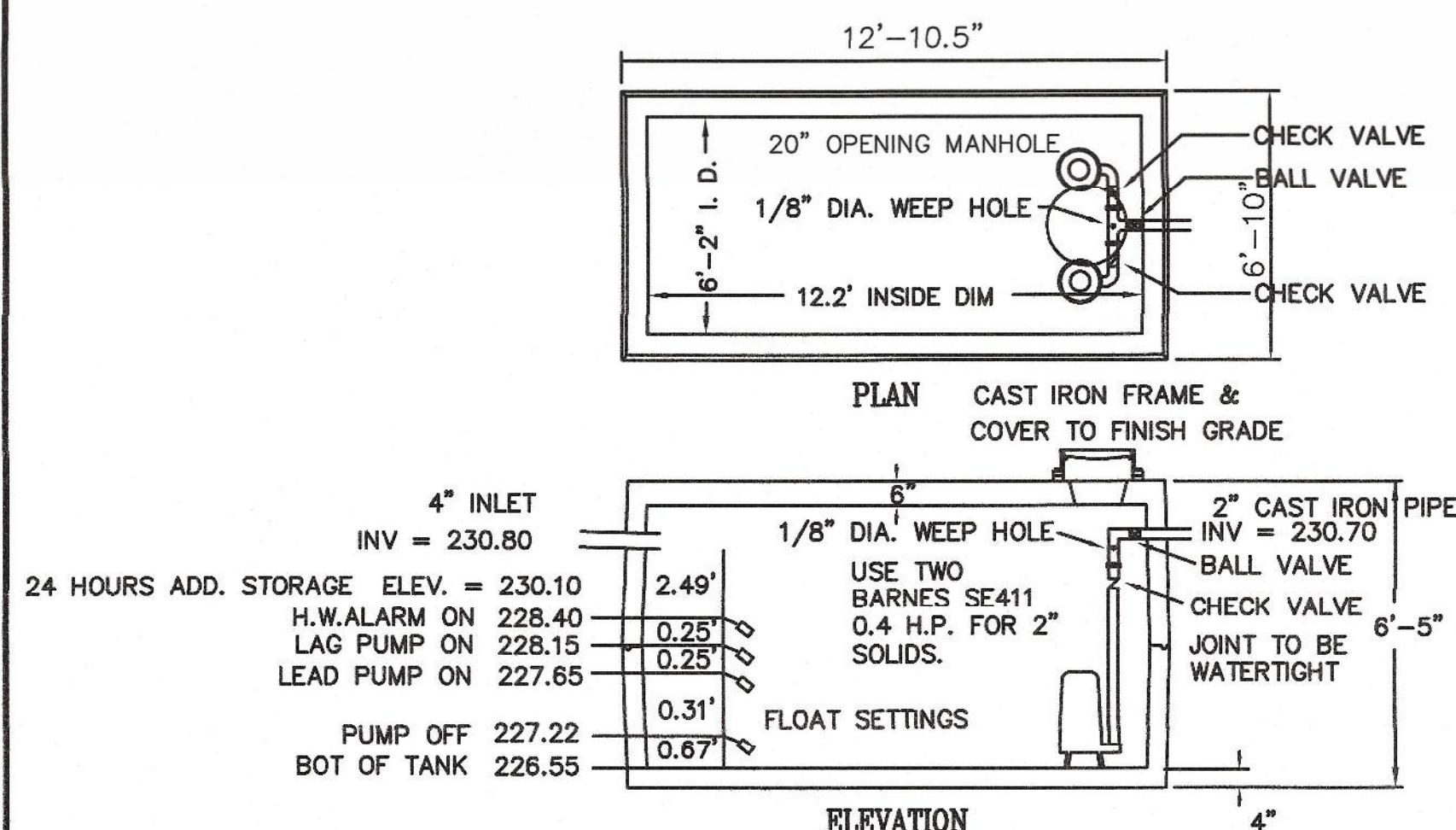
NO.	DATE	DESCRIPTION	BY



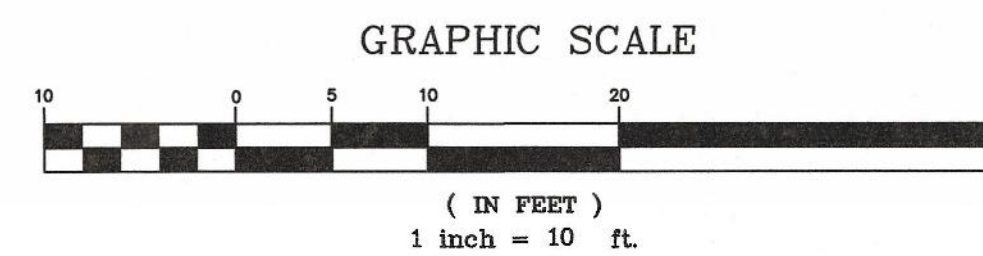
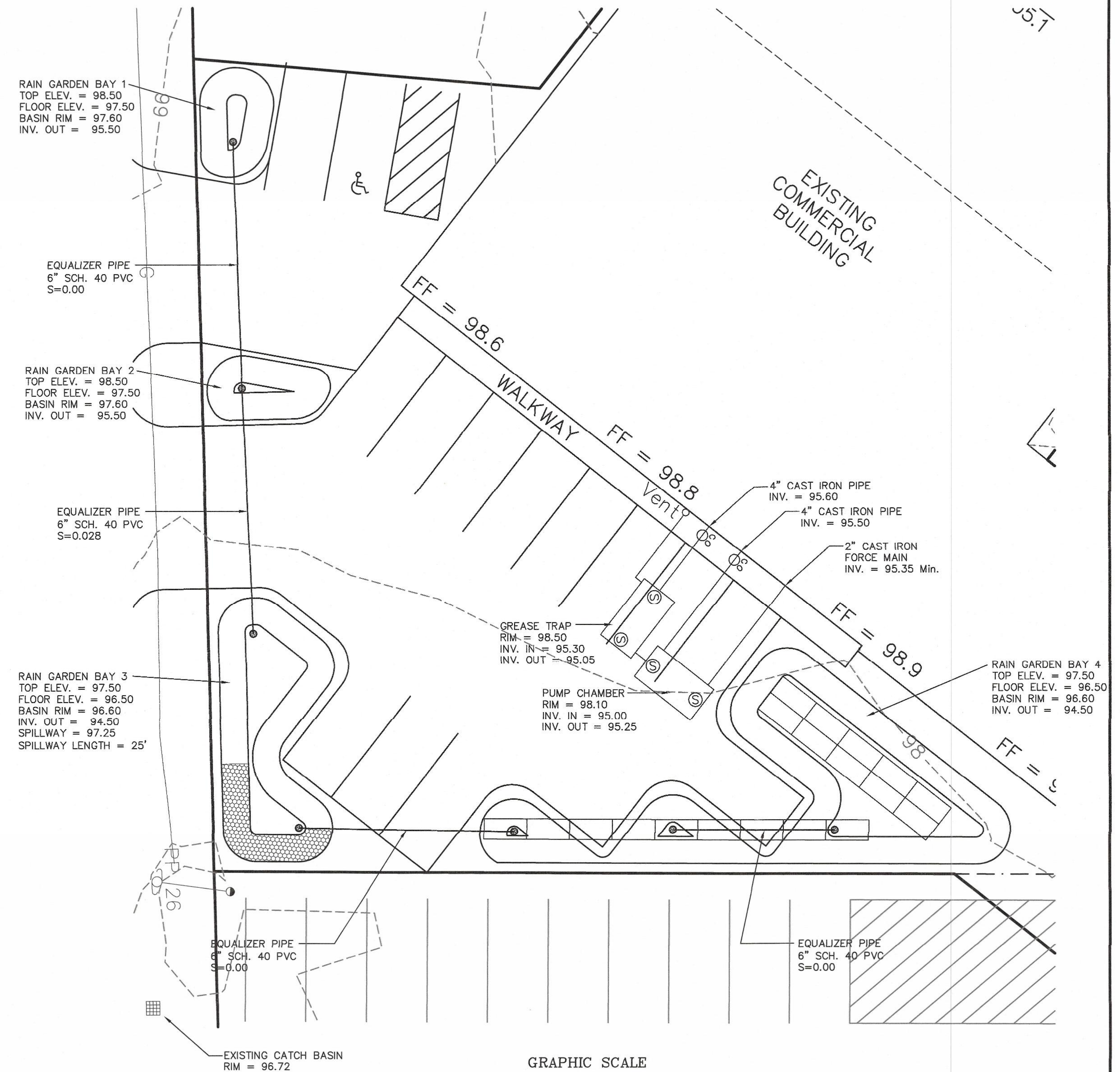
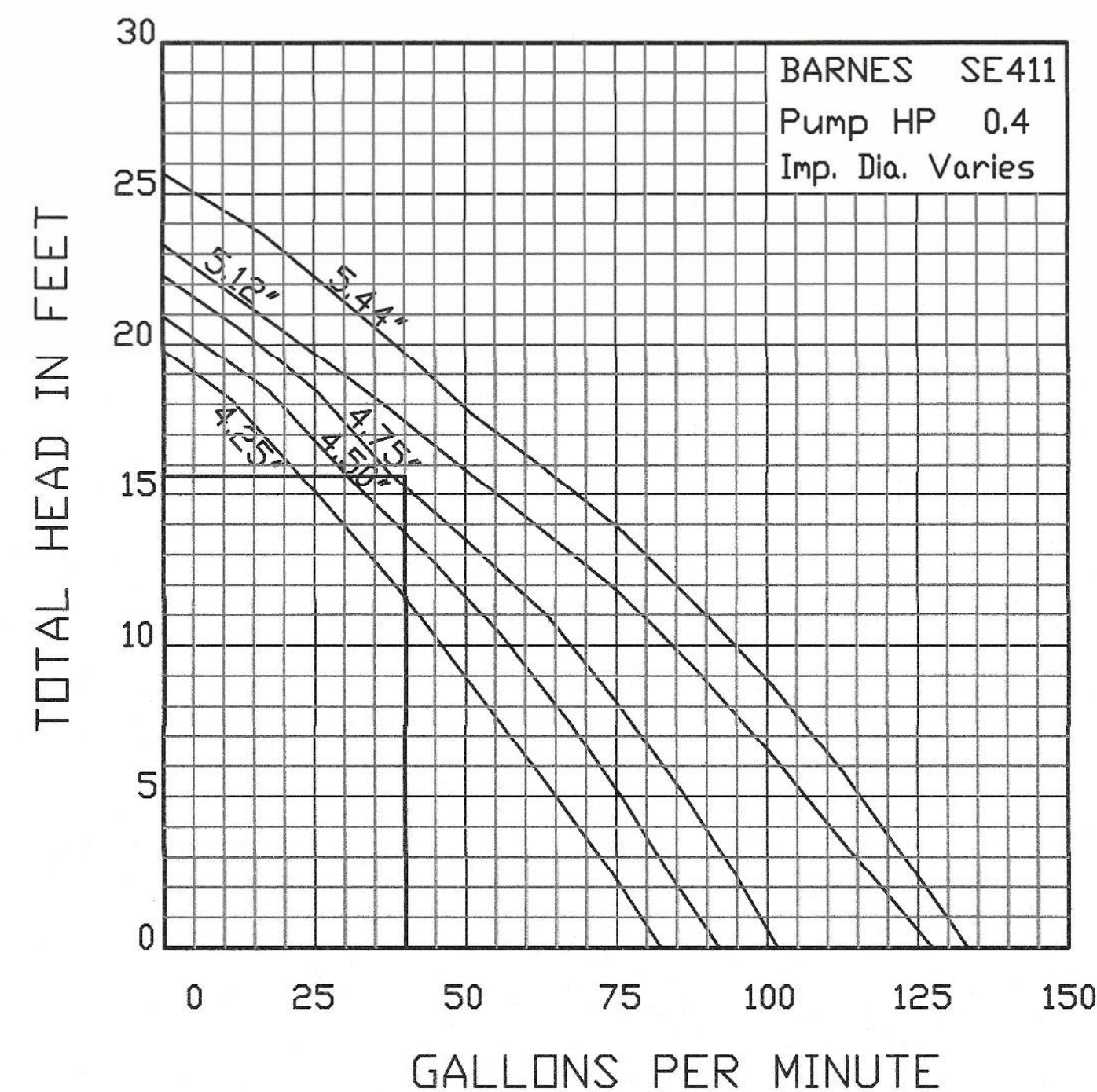
GREASE TRAP SIZING
PER 310 CMR 15.203 15 GPD/SEAT
40 SEATS x 15 GPD/SEAT = 600 GAL
GREASE TRAP CAPACITY = 1,500 GAL

THE PUMP INSTALLATION SHALL INCLUDE A CONTROL PANEL TO BE MOUNTED WITHIN THE BUILDING, WHICH INCLUDES A MANUAL ON-MANUAL OFF-AUTOMATIC ON-OFF SWITCH, A VISIBLE ALARM, AUDIBLE ALARM, AND AUDIBLE ALARM SILENCER SWITCH. THERE SHALL BE A MINIMUM OF 4 FLOAT SWITCHES IN THE PUMP CHAMBER. THE ALARM SHALL BE CONNECTED TO A SEPARATE ELECTRICAL CIRCUIT FROM THE PUMPS. THE PUMP ELECTRICAL SYSTEM SHALL BE EQUIPPED WITH A TRANSFER SWITCH TO ALLOW CONNECTION TO A PORTABLE GENERATOR. THE PUMPS SHALL BE LOCATED UNDER A MANHOLE COVER WHICH SHALL BE INSTALLED TO FINISHED GRADE, AND MADE OF A MATERIAL WHICH IS EITHER LOCKABLE OR EXTRA-HEAVY WEIGHT.

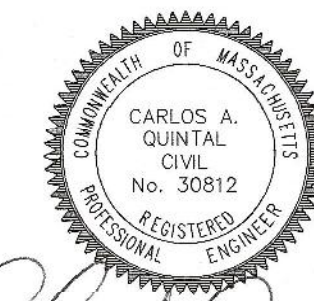
DOSE 8 TIMES DAILY
40 SEATS x 35 GPD/SEAT = 1,400 GPD / 8 = 175 GAL/DOSE
(175/7.48)/(6.16x12.2) = 0.31' DIST BETWEEN ON/OFF FLOAT
H.W. ALARM ON 6" ABOVE DOSE LEVEL
ADDITIONAL 24 HOUR STORAGE (1,400/7.48)/(6.16x12.2) = 2.49'
STATIC HEAD = 10.0'
FRICTION LOSS IN 85' OF 2" FM @ 40 GPM = 5.63'
TOTAL DYNAMIC HEAD = 15.63'
USE 2 BARNES PUMPS SE411 0.4 H.P., 5.12" IMPELLER, 2" SOLIDS PUMPS TO ALTERNATE BETWEEN CYCLES.



PUMP TANK
E. F. SHEA 2,500 GALLON SEPTIC TANK
OR EQUAL
DESIGNED FOR H 20 LOADING



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NO.	DATE	DESCRIPTION	BY