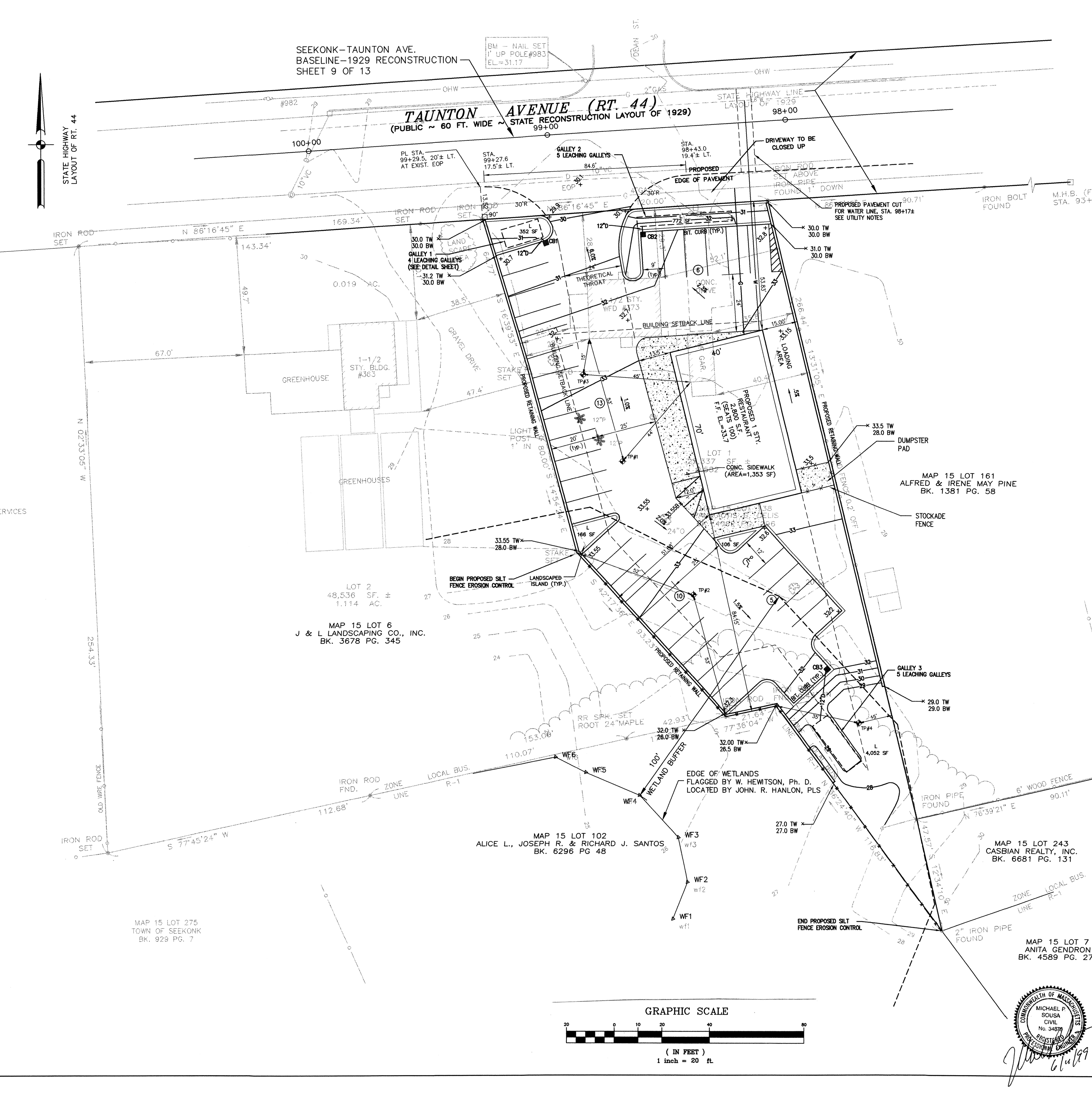


ZONING TABLE

ZONE: LOCAL BUSINESS
USE: RESTAURANT (100 SEATS)

	REQUIRED	PROVIDED
MINIMUM LOT AREA	N/A	25,337 SF
MINIMUM FRONTAGE	50 LF	120'
FRONT SETBACK	50'	54'
SIDE SETBACK	15'	15'
REAR SETBACK	25' (ADJOINS R-1)	84'
MAX. BUILDING HEIGHT	40' (3 STY.)	20'
MAX. BUILDING COVERAGE	40%	12%

PARKING SUMMARY

	TOWN REQUIRED	AS DESIGNED
STANDARD SPACES (10'x20")	33*	33
HANDICAP SPACES	1**	1
TOTAL PARKING SPACES	34	34
LOADING SPACES (400 SF)	NONE***	1
LANDSCAPING	3,130 SF****	5,448

* RESTAURANT: ONE PARKING SPACE PER EACH THREE SEATS OF TOTAL SEATING CAPACITY (100/3=33)

** HANDICAP SPACES: ONE PER ESTABLISHMENT, WITH A MAXIMUM OF 10%, INCLUSIVE, OF TOTAL PARKING REQUIRED.

*** LOADING SPACES: ALL USES UNDER 5,000 SF OF GROSS FLOOR AREA: NO MINIMUM; SUFFICIENT PROVISION TO ELIMINATE ALL ON OR OFF LOADING ON THE STREET PURSUANT TO NORMAL ECONOMIC ACTIVITY.

****LANDSCAPING: 20% OF PAVEMENT AREA (15,640 x .20 = 3,130)

DRAINAGE STRUCTURES

STRUCTURE No.	RIM ELEV.	INV. OUT ELEV.	INV. IN ELEV.	INV. IN FROM STR. No.
CB1	30.4	28.33	–	–
CB2	31.8	28.35	–	–
CB3	31.85	27.80	–	–
GALLEY1	–	–	28.3	CB1
GALLEY2	–	–	28.3	CB2
GALLEY3	–	–	27.6	CB3

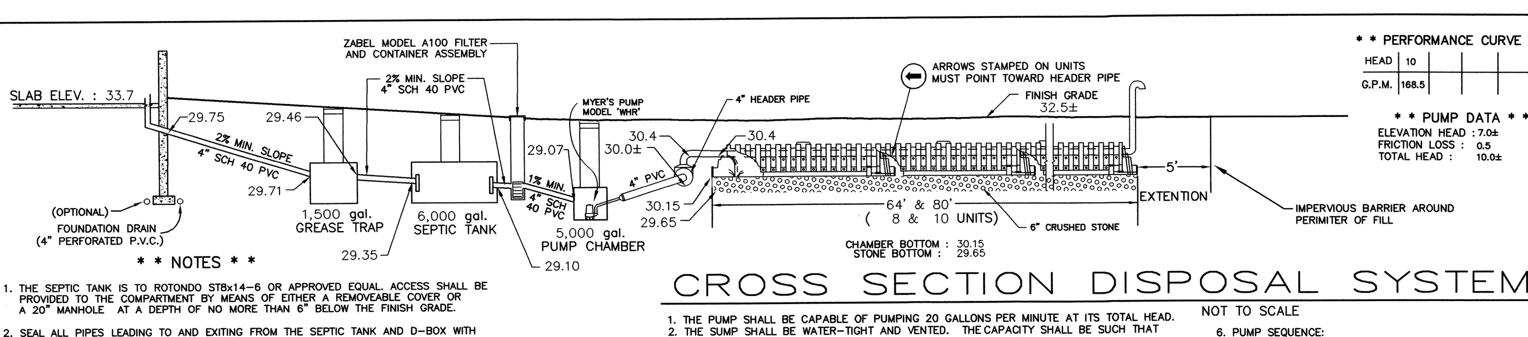
REFERENCES:

1. REFERENCE PLAN ENTITLED "PLAN OF LAND IN SEEKONK, MA., PREPARED FOR PANAGIOTIS G. DELIS, DATE: NOVEMBER 18, 1998, SCALE: 1"=20'" BY JOHN A. HALNON CO., PROFESSIONAL LAND SURVEYING & CONSULTING.
2. REFERENCE PLAN ENTITLED "PLAN OF LAND IN SEEKONK, MA., PREPARED FOR PANAGIOTIS G. DELIS AND J&L LANDSCAPING CO., INC. 373 & 363 TAUNTON AVE., SEEKONK, MA., DATE: FEB. 2, 1999, SCALE: 1"=20'" BY JOHN A. HALNON CO., PROFESSIONAL LAND SURVEYING & CONSULTING.
3. EDGE OF WETLANDS WAS FLAGGED BY WALTER F. HEWITSON PHD, BOTANIST, ON MARCH 9, 1999. THE FLAGS WERE THEN LOCATED BY JOHN R. HALNON, PLS.

COMMONWEALTH OF MASSACHUSETTS — MICHAEL P. SOUSA — CIVIL — No. 34876 — REGISTERED PROFESSIONAL ENGINEER — 6/1/99

PROJ. MANAGER: MPS	**FUSS & O'NEILL INC.** *Consulting Engineers* 410 NORTH BROADWAY, EAST PROVIDENCE, R.I. (401) 434-9760
CHIEF DESIGNER: JDS	
REVIEWED / BY / DATE	
SURVEY	PROPOSED SITE PLAN
SITE	TOTI'S PIZZA
STRUCTURAL	A.P. 15 / LOT 138
REVISION DATE:	373 TAUNTON AVE. (RTE. 44) SEEKONK, MA.
DATUM: H: V:	JOB NUMBER 98837 · PHASE · DATE 6/1/99 · SHEET NO. 5 OF 7
SCALE: 1"=20'	

FILENAME: 98837_CS1 · PPP: · MS: · PS: · UCS:



CROSS SECTION DISPOSAL SYSTEM

NOT TO SCALE

1. THE PUMP SHALL BE CAPABLE OF PUMPING 20 GALLONS PER MINUTE AT ITS TOTAL HEAD.
2. THE SUMP SHALL BE WATER-TIGHT AND VENTED. THE CAPACITY SHALL BE SUCH THAT THE PUMP MAY BE SET TO DOSE THE FIELD 3 TO 4 TIMES PER DAY.
3. THERE SHALL BE A CHECK VALVE INSTALLED AT THE PUMP TO PREVENT EFFLUENT FROM DRAINING BACK TO THE PUMP.
4. THE PUMP SHALL BE CAPABLE OF HANDLING 1-1/4" SOLIDS
5. PUMP MUST BE EQUIPPED WITH AN ALARM LOCATED IN THE BUILDING, POWERED BY A SEPERATE CIRCUIT FROM THE PUMPS.
6. PUMP SEQUENCE:
   A. PUMP OFF
   B. PRIMARY (LEAD) PUMP ON
   C. BACKUP (LAG) PUMP ON & ALARM ON
   D. PUMPS MUST ALTERNATE

* * NOTES * *

1. THE SEPTIC TANK IS TO ROTONDO ST8x14-6 OR APPROVED EQUAL. ACCESS SHALL BE PROVIDED TO THE COMPARTMENT BY MEANS OF EITHER A REMOVEABLE COVER OR A 20" MANHOLE AT A DEPTH OF NO MORE THAN 6" BELOW THE FINISH GRADE.
2. SEAL ALL PIPES LEADING TO AND EXITING FROM THE SEPTIC TANK AND D-BOX WITH EITHER NON-SHRINK MORTAR, THICK PLASTIC CEMENT OR OTHER SEALANT.
3. SEWER PIPE FROM BUILDING TO SEPTIC TANK SHALL BE 4" SCH 40 SOLID P.V.C. WITH A MIN. PITCH OF 1/4" PER FOOT (2%). IF PIPE IS TO BE USED UNDER WHEEL LOADS, IT MUST BE INSTALLED TO MEET AASHTO H-20 SPECIFICATIONS.
4. THE FIRST LENGTH OF ALL DISTRIBUTION LINES LEADING FROM THE MANIFOLD TO EACH ROW OF CONTACTORS SHALL BE LAID WITH THE SAME PITCH.
5. INSTALL SPLASH PLATES UNDER INLET OF EACH ROW OF CULTEC CHAMBERS, OR INSTALL PERFORATED P.V.C. PIPE THROUGH EACH ROW TO VENT PIPE.
6. COVER EACH ROW OF CHAMBERS WITH CULTEC 410 ENGINEERING FABRIC OR EQUAL.
7. SYSTEM MAY HAVE TO BE REBUILT IN PLACE IF FAILURE OCCURS
8. SITE PREPARATION: ALL TREES, TOPSOIL, ROOTS AND ORGANIC MATTER SHALL BE REMOVED FROM THE AREA TO BE FILLED.
9. AREA OF SYSTEM TO BE STRIPPED TO THE 'B' HORIZON AND FOR 5' ALL AROUND, AND BACKFILLED WITH A CLEAN GRANULAR SAND, FREE FROM ORGANIC MATTER AND DELETERIOUS SUBSTANCES.

COMPONENT REQUIREMENTS

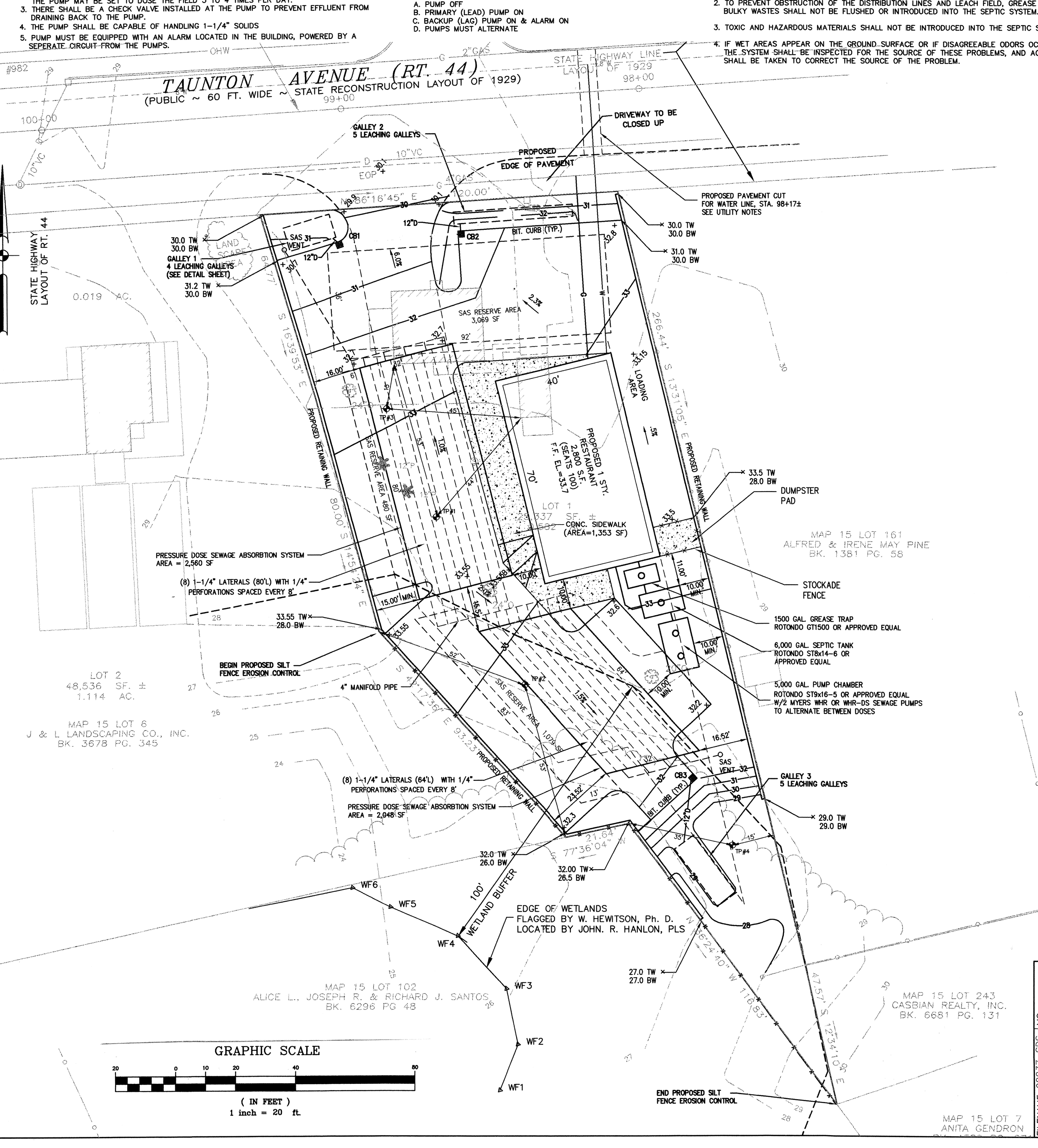
COMPONENT	REQ'D SIZE	DESIGN SIZE
SEPTIC TANK (3500 gpd x 1.5)	5,250 GAL.	6,000 GAL.
PUMP CHAMBER (1 dose + 1 day)	4,375 GAL.	5,000 GAL.
GREASE TRAP (15 gpd/seat)	1,500 GAL.	1,500 GAL.

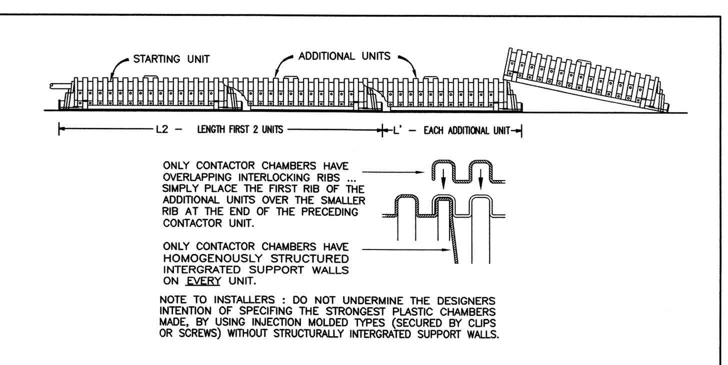
DESIGN FLOW

USE	REQ'D.	DESIGN
Restaurant - 100 Gals per day per person		
100 Seats at 35 GPD	3500 gals.	
3500 GPD \ .74 (class I soil)	5,250 gpd	6,000 GPD

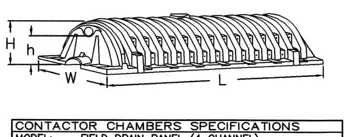
* * * OPERATING REQUIREMENTS * * *

1. THE SEPTIC TANK SHALL BE INSPECTED FOR ACCUMULATION OF SLUDGE AND SURFACE SCUM AT LEAST ONCE EVERY YEAR. WHEN THE COMBINED THICKNESS OF THE SLUDGE AND SURFACE SCUM EQUAL 1/3 OR MORE OF THE TANK DEPTH, THE TANK SHALL BE PUMPED BY A LICENSED SEPTIC TANK PUMPER.
2. TO PREVENT OBSTRUCTION OF THE DISTRIBUTION LINES AND LEACH FIELD, GREASE AND BULKY WASTES SHALL NOT BE FLUSHED OR INTRODUCED INTO THE SEPTIC SYSTEM.
3. TOXIC AND HAZARDOUS MATERIALS SHALL NOT BE INTRODUCED INTO THE SEPTIC SYSTEM.
4. IF WET AREAS APPEAR ON THE GROUND SURFACE OR IF DISAGREEABLE ODORS OCCUR, THE SYSTEM SHALL BE INSPECTED FOR THE SOURCE OF THESE PROBLEMS, AND ACTION SHALL BE TAKEN TO CORRECT THE SOURCE OF THE PROBLEM.





NOTE TO INSTALLERS : DO NOT UNDERMINE THE DESIGNERS INTENTION OF SPECIFING THE STRONGEST PLASTIC CHAMBERS MADE, BY USING INJECTION MOLDED TYPES (SECURED BY CLIPS OR SCREWS) WITHOUT STRUCTURALLY INTERGRATED SUPPORT WALLS.



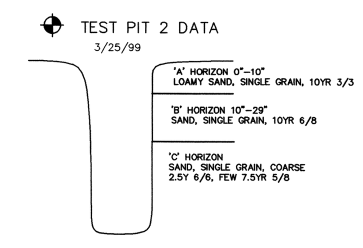
CONTACTOR CHAMBERS SPECIFICATIONS

MODEL:	FIELD DRAIN PANEL (4 CHANNEL)
BED WIDTH	32"
CENTER TO CENTER SPACING	4'-0"
CAPACITY PER CHAMBER (gallons)	116
EFFECTIVE SF/LF SEPTIC	4.94
CF STORAGE/CHAMBER	13.32
BURIAL REQ. FOR H-20	14"
DIMENSIONS L (LAY UP)	96"
W	48"
H	8.5"
h	3"
L2	16.0'
L'	8.5'
WEIGHT H-20	40 lbs.

* * LEACHING CHAMBERS * *
WHEEL LOADING : H-20
✓ MODEL USED IN THIS DESIGN
☑ FIELD DRAIN PANEL
☐ CONTACTOR 100
☐ CONTACTOR 125
☐ RECHARGER 180
☐ RECHARGER 330
32 - STARTING UNITS (CLOSED)
112 - INTERMEDIATE UNITS (OPEN)

* CONTACTORS & RECHARGERS AVAILABLE FROM *
KURT S. MASTERS, RR1, BOX 692, MILAN, NH 03588, (603) 449-6797
CULTEC, INC., 878 FEDERAL ROAD, BROOKFIELD, CT 06804, (203) 775-4416, (800) 4CULTEC

TEST PIT 2 DATA
3/25/99

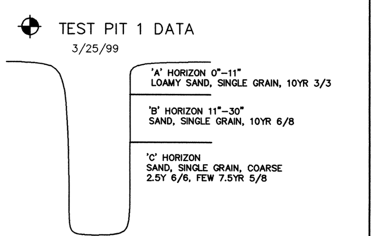


EST. GW 40"
WATER : 49"
LEDGE : NONE OBS. @ 102"
MOTTLING :40"

* * SOIL TYPE * *
10 YR 6/8, SINGLE GRAIN SAND

PERCOLATION TEST DATA
DATE OF TEST : 3/25/99
DEPTH : 49" BOT.
RESULTS : LESS THAN 2 MIN./INCH

TEST PIT 1 DATA
3/25/99



EST. GW 40"
WATER : 49"
LEDGE : NONE OBS. @ 102"
MOTTLING :40"

* * SOIL TYPE * *
10 YR 6/8, SINGLE GRAIN SAND

PERCOLATION TEST DATA
DATE OF TEST : 3/25/99
DEPTH : 50" BOT.
RESULTS : LESS THAN 2 MIN./INCH

* * LEACH BED CALCULATIONS * *
PERCOLATION RATE : LESS THAN 2 MIN./INCH
NUMBER OF SEATS: 100
LEACHING AREA REQUIRED : 4,730 S.F.
LEACHING AREA PROVIDED : 4,608 S.F.

* * DESIGN INTENT * *
AT LEAST 50% OF THE BED BOTTOM IS TO BE NO MORE THAN 24" BELOW THE ORIGINAL GROUND.
THE MOST UPSLOPE CORNER OR SIDE OF BED IS TO BE NO MORE THAN 32" BELOW THE ORIGINAL GROUND.

ZONING TABLE

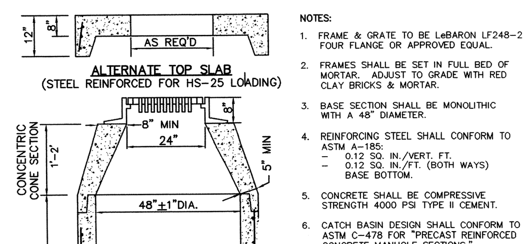
ZONE: LOCAL BUSINESS
USE: RESTAURANT (100 SEATS)

	REQUIRED	PROVIDED
MINIMUM LOT AREA	N/A	25,337 SF
MINIMUM FRONTAGE	50 LF	120'
FRONT SETBACK	50'	54'
SIDE SETBACK	15'	16'
REAR SETBACK	25' (ADJOINS R-1)	84'
MAX. BUILDING HEIGHT	40' (3 STY.)	20'
MAX. BUILDING COVERAGE	40%	12%

COMMONWEALTH OF MASSACHUSETTS — MICHAEL P. SOUSA — CIVIL — No. 34876 — REGISTERED PROFESSIONAL ENGINEER — 6/1/99

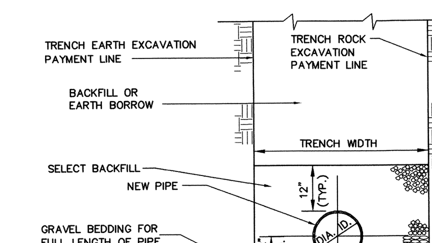
PROJ. MANAGER: MPS	**FUSS & O'NEILL INC.** *Consulting Engineers* 410 NORTH BROADWAY, EAST PROVIDENCE, R.I. (401) 434-9760
CHIEF DESIGNER: JDS	
REVIEWED / BY / DATE	
SURVEY	PROPOSED SEWAGE ABSORBTION SYSTEM
SITE	TOTI'S PIZZA
STRUCTURAL	A.P. 15 / LOT 138
REVISION DATE:	373 TAUNTON AVE. (RTE. 44) SEEKONK, MA.
DATUM: H: V:	JOB NUMBER 98837 · PHASE · DATE 6/1/99 · SHEET NO. 6 OF 7
SCALE: 1"=20'	

FILENAME: 98837_SDS · PPP: · MS: · PS: · UCS:

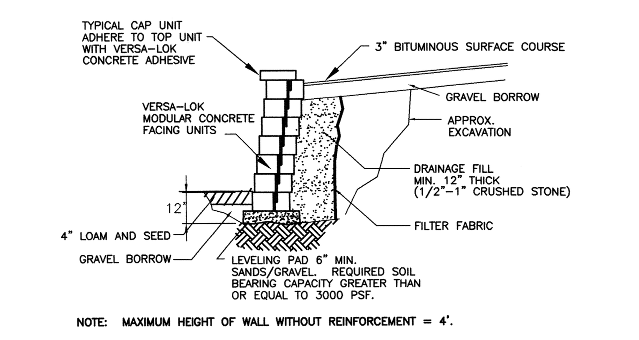


NOTES:
1. FRAME & GRATE TO BE LeBARON LF248-2 FOUR FLANGE OR APPROVED EQUAL.
2. FRAMES SHALL BE SET IN FULL BED OF MORTAR. ADJUST TO GRADE WITH RED CLAY BRICKS & MORTAR.
3. BASE SECTION SHALL BE MONOLITHIC WITH A 48" DIAMETER.
4. REINFORCING STEEL SHALL CONFORM TO ASTM A-185:
   - 0.12 SQ. IN./VERT. FT.
   - 0.12 SQ. IN./FT. (BOTH WAYS) BASE BOTTOM.
5. CONCRETE SHALL BE COMPRESSIVE STRENGTH 4000 PSI TYPE II CEMENT.
6. CATCH BASIN DESIGN SHALL CONFORM TO ASTM C-478 FOR "PRECAST REINFORCED CONCRETE MANHOLE SECTIONS."
7. PROVIDE "V" KNOCKOUTS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS.
8. ALL JOINTS SHALL BE MORTARED.
7. CATCH BASIN TO HAVE 8" WALLS IF LESS THAN 6'-6" DEEP.

PRECAST CATCH BASIN (48")
SCALE: NTS

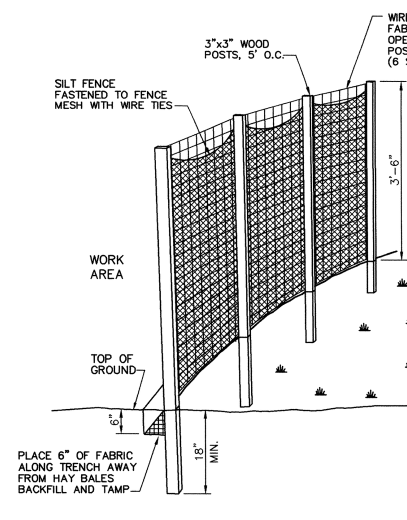


EARTH – ROCK TRENCH
NOT TO SCALE



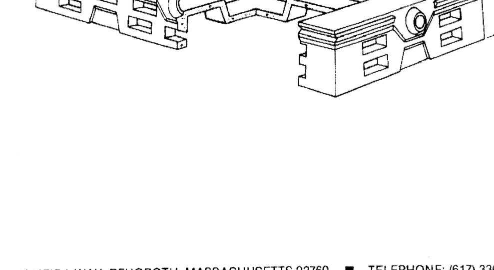
NOTE: MAXIMUM HEIGHT OF WALL WITHOUT REINFORCEMENT = 4'.

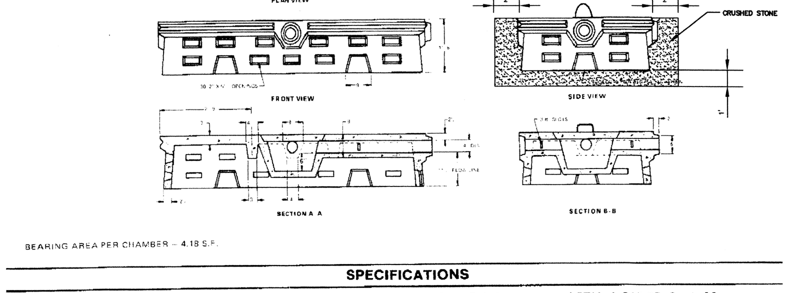
VERSA-LOK RETAINING WALL
NOT TO SCALE



SILT FENCE BARRIER DETAIL
NOT TO SCALE

ROTONDO & SONS, INC.
PRECAST CONCRETE PRODUCTS





THE BEARING POWERS OF SOIL SUPPORTING ANY STRUCTURE SHOULD BE DETERMINED AND EQUATED TO THE APPLIED LOADS TO CALCULATE THE BEARING AREA REQUIRED.

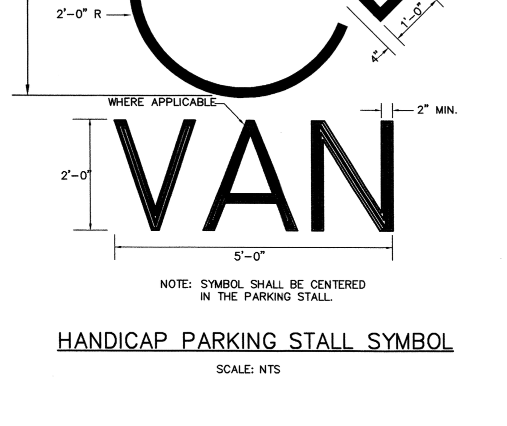
BEARING AREA PER CHAMBER – 4.18 S.F.

SPECIFICATIONS

- Concrete Minimum Strength – 4,000 P.S.I. @ 28 Days
- Design Loading – Standard Units: 600 P.S.F. Optional Units: AASHO HS20-44
- Steel Reinforcement – ASTM A-615-75, Grade 60
- Vent Holes and Inspection Manholes – Optional See Flowdiffusor® Leaching Chamber Brochure

41 ALMEIDA WAY, REHOBOTH, MASSACHUSETTS 02769 ■ TELEPHONE: (617) 336-7600
151 OLD FARMS ROAD, AVON, CONNECTICUT 06001 ■ TELEPHONE: (203) 673-3291

ROTONDO PRECAST FLOWDIFFUSSOR
FD 4x8–D
NOT TO SCALE



NOTE: SYMBOL SHALL BE CENTERED IN THE PARKING STALL.

HANDICAP PARKING STALL SYMBOL
SCALE: NTS

COMMONWEALTH OF MASSACHUSETTS — MICHAEL P. SOUSA — CIVIL — No. 34876 — REGISTERED PROFESSIONAL ENGINEER — 6/1/99

PROJ. MANAGER: MPS	**FUSS & O'NEILL INC.** *Consulting Engineers* 410 NORTH BROADWAY, EAST PROVIDENCE, R.I. (401) 434-9760
CHIEF DESIGNER: JDS	
REVIEWED / BY / DATE	
SURVEY	DETAIL SHEET
SITE	TOTI'S PIZZA
STRUCTURAL	A.P. 15 / LOT 138
REVISION DATE:	373 TAUNTON AVE. (RTE. 44) SEEKONK, MA.
DATUM: H: V:	JOB NUMBER 98837 · PHASE · DATE 6/1/99 · SHEET NO. 7 OF 7
SCALE: AS NOTED	

FILENAME: 98837_DET · PPP: · MS: · PS: · UCS: