Harnett County Department of Public Health

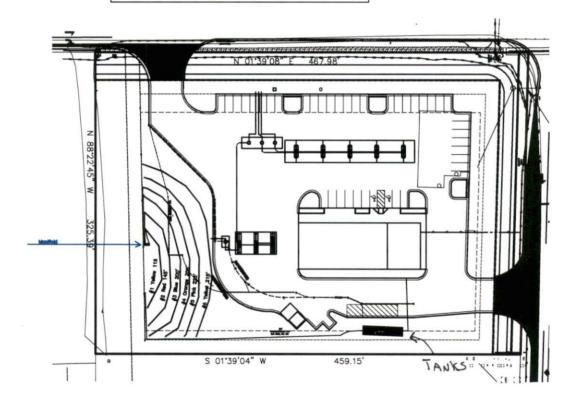
Improvement Permit

A building permit cannot be issued with only an Improvement Permit PROPERTY LOCATION: 8920 US401 N ISSUED TO: Shakti, Jay Ambe SUBDIVISION EXPANSION REPAIR Site Improvements required prior to Construction Authorization Issuance: Fence off drain field area. Submit pressure Type of Structure: 6600 ft2 Conv Store Proposed Wastewater System Type: Accepted System manifold design Projected Daily Flow: 1000 Number of bedrooms: Number of Occupants: Basement Yes Pump Required: XYes ☐ No May be required based on final location and elevations of facilities Type of Water Supply: Community Public Well Distance from well feet Permit valid for: X Five years Permit conditions: No expiration The issuance of this permit by the Health Department in no way guarantees the usbance of other permits. The permit holder is responsible for checking with appropriate governing bodies in meeting their requirements. This site is subject to revocation of the site plan, plat, or the intended use changes. The linespectment Permit shall not be affected by a change in ownership of the site. This permit is subject to compliance with the provisions of the Laws and Rules for Sewage Treatment and Disposal and to conditions of this permit. the Laws and Rules for Sewage Treatment and Disposal and to conditions of this permit. Construction Authorization (Required for Building Permit) The construction and installation requirements of Rules 1950, 1952, 1954, 1955, 1956, 1957, 1958, and 1959 are incorporated by references into this permit and shall be met. Systems shall be installed in accordance with the attached system layout. ISSUED TO: JAY AMBE SIANT) PROPERTY LOCATION: 8920 US401N SUBDIVISION Facility Type: GGOOGHA CON STONG New Expansion Basement? Yes No Basement Fixtures? Yes Type of Wastewater System** (Initial) Wastewater Flow: 1000 (See note below, if applicable) TOTAL 660 Number of trenches Installation Requirements/Conditions Septic Tank Size 2000 gallons Exact length of each trench VARIOUS feet Pump Tank Size 2006 gallons Trenches shall be installed on contour at a Maximum Trench Depth of: GREAG TRAK (Maximum soil cover shall not exceed (Trench bottoms shall be level to +/-1/4" 36" above the trench bottom) in all directions) Pump Requirements: ft. TDH vs. Aggregate Depth: ______ inches above pipe Conditions: SEE SITE SKETCH & MANIFOLD DESIGN ATTACHED ALL KITCHEN WASTE MUST ENTER GREASE TRAP WATER LINES (INCLUDING IRRIGATION) MUST BE 10FT. FROM ANY PART OF SEPTIC SYSTEM OR REPAIR AREA. NO UTILITIES ALLOWED IN INITIAL OR REPAIR DRAIN FIELD AREA. **If applicable: I understand the system type specified is different from the type specified on the application. I accept the specifications of this permit. Owner/Legal Representative Signature: This Construction Authorization is subject to revocation the site plan, plat, or the intended use changes. The Construction Authorization shall not be transferred when there is a change in ownership of the site. This Construction Authorization - under to compliance with the provision of the Laws and Rules for Sewage Treatment and Disposal and to the conditions of this permit. Authorized State Agent: Construction Authorization Expiration Date:

Preliminary Septic Design Patel Gas Station (Champs)

2/19/22)

System: Pressure Manifold 625+ Total feet of trench Lines 1-4 0.4 LTAR 24" Max Trench Bottom Accepted Status System Repair: Pressure Manifold 0.4 LTAR 24" Max Trench Bottom T&J Panel - 50% Reduction 440' of trench



*2000 Gallon Septic Tank *2000 Gallon Pump Tank

Assume flow rate of 1000 gallon/day Final daily flow rate to be determined.

GRAPHIC SCALE 1" = 100'

Adams Soil Consulting 919-414-6761 Project #963

CHAMPS Gas Station - NC Hwy 401 -Harnett County PRESSURE MANIFOLD DESIGN -Initial SYSTEM

Daily Flow:

4

1000

in

gal/day

L.T.A.R.: 0.4000

gal/day/sq.ft

Septic Tank: 2000 gals

Pump Tank:

2000

Number of Taps:

gals

Sq. Foot:

1980

System Type: Accepted

Length of Trenches:

Depth of Trenches:

ft(See Tap Chart for Details)

24"

Manifold Length:

42

Manifold Diameter:

in

4in sch 80pvc

6.65

Tap Configuration: 6 in spacing

side(s) of manifold

Supply Line: length:

Diameter:

2 in sch 40pvc

Friction Loss + Fitting Loss:

ft(supply line length + 70' for fittings in pump tank)

Pump to Deliver:

Total Head:

Elevation Head:

16.00 32.79

gals/min at

24.65

ft head

Dosing Volume:

Design Head:

24.65 ft

gals, 300

ft

Drawdown: 300 gals divided by

21.4 gals/in = 14.0

inches

Simplex Control Panel required; elapsed time meter and cycle counter required; Floats to be determined by type of pump tank used. A septic tank filter is required.

TAP CHART

TAI CHART											
Benchmark	0	is = 100.00	set at				Design Head:	2			Change in
Pump tank elev.		2	95.00	Pump elev.	80.00		Manifold elev.	96.00		# of Panels	Spacing of
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR	(PPBPS)	Panels (in)
1	Yellow	5.00	95.00	115	1/2in SCH 80	5.48	167.12	345	0.4844		
2	Red	5.60	94.40	145	1/2in SCH 40	7.11	216.83	435	0.4985		
3	Blue	6.50	93.50	200	3/4in SCH 80	10.10	308.02	600	0.5134		
4	Orange	7.20	92.80	200	3/4in SCH 80	10.10	308.02	600	0.5134		
			Total Feet = Feet Required =	660 625	gal/min = Velocity =	32.79 3.14		<u>LTAR =</u> (itar + 5%)	0.4000 0.4200		
Total # of Panels (PPBPS)				Des. Flow	1000			(Itar w/25% red)	0.5333		
% of Dose Vol.		70		Pump Run=	30.50			(ltar + 5%)	0.5600		
Dose Volume		300		Tank Gal/IN	21.4						
Dose Pump Time	•	9.16		Elev. Head	16.00						
Drawdown in Inches 14.0		14.0									
Comments:											