Environmental Services - Water Quality
Onsite Wastewater Scan Data Entry Form

PERMIT #: 0 0 0 6 0 0 2 PIN #: 0 6 6 8 8 8 4 3 1 9

OP DATE: 1 1 / 0 9 / 1 9 9 9

SYSTEM USE:
- [x] House
- [ ] Mobile Home
- [ ] Business
- [ ] Other

SEWAGE TYPE:
- [x] Domestic
- [ ] Industrial

PUMP/SIPHON?:
- [x] Yes
- [ ] No

PRESSURE MANIFOLD:
- [x] Yes
- [ ] No

SYSTEM TYPE:
- [ ] I
- [ ] II
- [x] III
- [ ] IV
- [ ] V
- [ ] VI
- [ ] Other

SUB TYPE:
- [ ] A
- [x] B
- [ ] C
- [ ] D
- [ ] E
- [ ] F
- [ ] G

NBR BEDROOMS:
- [ ] 1
- [ ] 2
- [ ] 3
- [ ] 4
- [x] 5
- [ ] 6
- [ ] Other

MAINT. SCHEDULE:
- [ ] Yes
- [x] No

CERT. OPERATOR
- [ ] Yes
- [x] No

GT	ST	PT	SIZE
☐	☐		750
☐	☐	☐	900
☐	☐	☐	1,000
☐	☐	☐	1,200
☐	☒	☒	1,500
☐	☐	☐	1,800
☐	☐	☐	2,100
☐	☐	☐	2,500
☐	☐	☐	3,000
☐	☐	☐	4,000
☐	☐	☐	5,000
☐	☐	☐	8,000
	☐	☐	10,000
☐	☐	☐	Other
☒		☐	None/NA GT or PT

DRAINFIELD SIZE(SQ. FT.)

0 1 4 1 0

DRAIN TYPE:
- [ ] Stone
- [x] EZ Flow
- [ ] Infiltrator
- [ ] Biodiffuser
- [ ] Cultec
- [ ] Drip
- [ ] Hancor
- [ ] Large Dia. Pipe
- [ ] Multi-Pipe
- [ ] Other

MAX DEPTH (IN.):
- [ ] 12 in. or less
- [ ] 18 in. or less
- [x] 24 in. or less
- [ ] 26 in. or less
- [ ] 28 in. or less
- [ ] 30 in. or less
- [ ] 32 in. or less
- [ ] 36 in. or less
- [ ] Other

STONE DEPTH (IN.):
- [ ] 8 in. or less
- [x] 12 in. or less
- [ ] 18 in. or less
- [ ] 24 in. or less
- [ ] Other

TRENCHES:
- [x] Individual
- [ ] Bed

TRENCH WIDTH (IN.):
- [ ] 12 in. or less
- [ ] 18 in.
- [ ] 24 in.
- [x] 36 in.
- [ ] 6 ft. or less
- [ ] 9 ft. or less
- [ ] Other

WAKE COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES WELL AND SEWAGE SITE LOCATION PERMIT

NO PERMIT(S) FOR CONSTRUCTION, LOCATION OR RELOCATION ACTIVITY SHALL BE ISSUED
UNTIL AN AUTHORIZATION FOR WASTEWATER SYSTEM CONSTRUCTION HAS BEEN ISSUED
PERMIT VOID IF NOT IN COMPLIANCE WITH ZONING REGULATIONS AND/ OR IF SITE IS ALTERED OR INTENDED USE CHANGED

PERMIT#: D006002A STATUS: A APP DATE: 04/17/1997 BLDG PERMIT#: 0973294
APPLICANT: SHELLEY BARRY WADE DAY PHONE: (919) 460 - 7237
ADDRESS: 118 GREY HORSE DR FAX#: (919) 481 - 3579
CITY: CARY STATE: NC ZIP: 27513
OWNER: MIDDLE CREEK INVESTORS DAY PHONE: (000) 000 - 0000
ADDRESS: P O BOX 301 FAX#: (000) 000 - 0000
CITY: FUQUAY VARINA STATE: NC ZIP: 27526
HD USE CD: 101 ONE-FAMILY HOUSE ORIG PERMIT#: REC?: Y
EXIST USE: TAX MAP#:
BEDROOMS: 5 BSMT: Y #EMPLOYEES: 0 WATER: I WASTEWATER: I GARB DISPOSL: N
TOWNSHIP: 12 MIDDLE CREEK JURIS: WC ZON: R30 PIN: 0668.02 88 4318 000
SUBD#: S 000 000 00 SUBD NAME: CROFTS@BRACKENR LOT-SEC: 72 ACRE: 3.56
IMPRV PRMT: ISSUED?: Y DATE: 08/16/1999 BY: RD TYPE SYSTEM: III G PUMP: Y
CNSTR AUTH: ISSUED?: Y DATE: 09/08/1999 BY: ETD MAINT: N OPER: N
RECEIPT#: FEE: OP DATE: 11-12-99 BY: ETOf
WATR SAMPL: REQ?: Y APPROVED?: DATE: PROPRIETARY SYS:
ST#: 3601 MI: DIR: NAME: TARTANCROFT DIR: TYP: PL
DIRECTIONS: 1152S L1201 CROSS 1301 TO 1ST PAVED RD TO L ONTO BRACKENRIDGE L TARTANCROFT PL LOT AT END OF C-D-S SFD PL CALL BEFORE GOING TO SITE

IMPROVEMENT PERMIT

TANK SIZE: 1500 PUMP TANK: 1500 SQ-FT: 1880 STONE DEPTH: PSA MAX DEPTH: 24
WASTEWATER: DOMESTIC ☒ INDUSTRIAL ☐ I.P. ISSUED BY RD by ETOf

AUTHORIZATION FOR WASTEWATER SYSTEM CONSTRUCTION

VOID SIXTY (60) MONTHS FROM DATE OF ISSUANCE
AUTHORIZATION CONDITIONS

Contractors to follow contours, see attached site plan for wastewater system design and well location. The wastewater system shall not be covered or placed into use until inspected by the Wake County Department of Environmental Services and an Operation Permit issued. OTHER CONDITIONS:

Septic tank filter/riser for access required. System requires use of Innovative drainfield product with 25% reduction already calculated into the design. Pressure Manifold required to serve the 8 lines. There are 5 different taps with 3 of the taps serving flow dividers to feed 2 lines. Tap 3 serves lines 5 and 7, with line 6 being served by its own tap. See plans for details. Contractor must call for construction visit before starting to install the system.

TANK SIZE: 1500 PUMP TANK: 1500 SQ-FT: 1410 STONE DEPTH: PSA MAX DEPTH: 24
SEPTIC TANK FILTER: Y TRENCH#: 8 LENGTH: 40'- 80' WIDTH: 3FT

C.A. ISSUED BY ED Duff INSTALLED BY Ron Wall CTR. I.D. #____
SEPTIC TANK FILTER USED Polylok
INNOV. APPRL. #: IWWS-95382 DATE 11-9-99 INSTALLATION APPROVED BY ED Duff

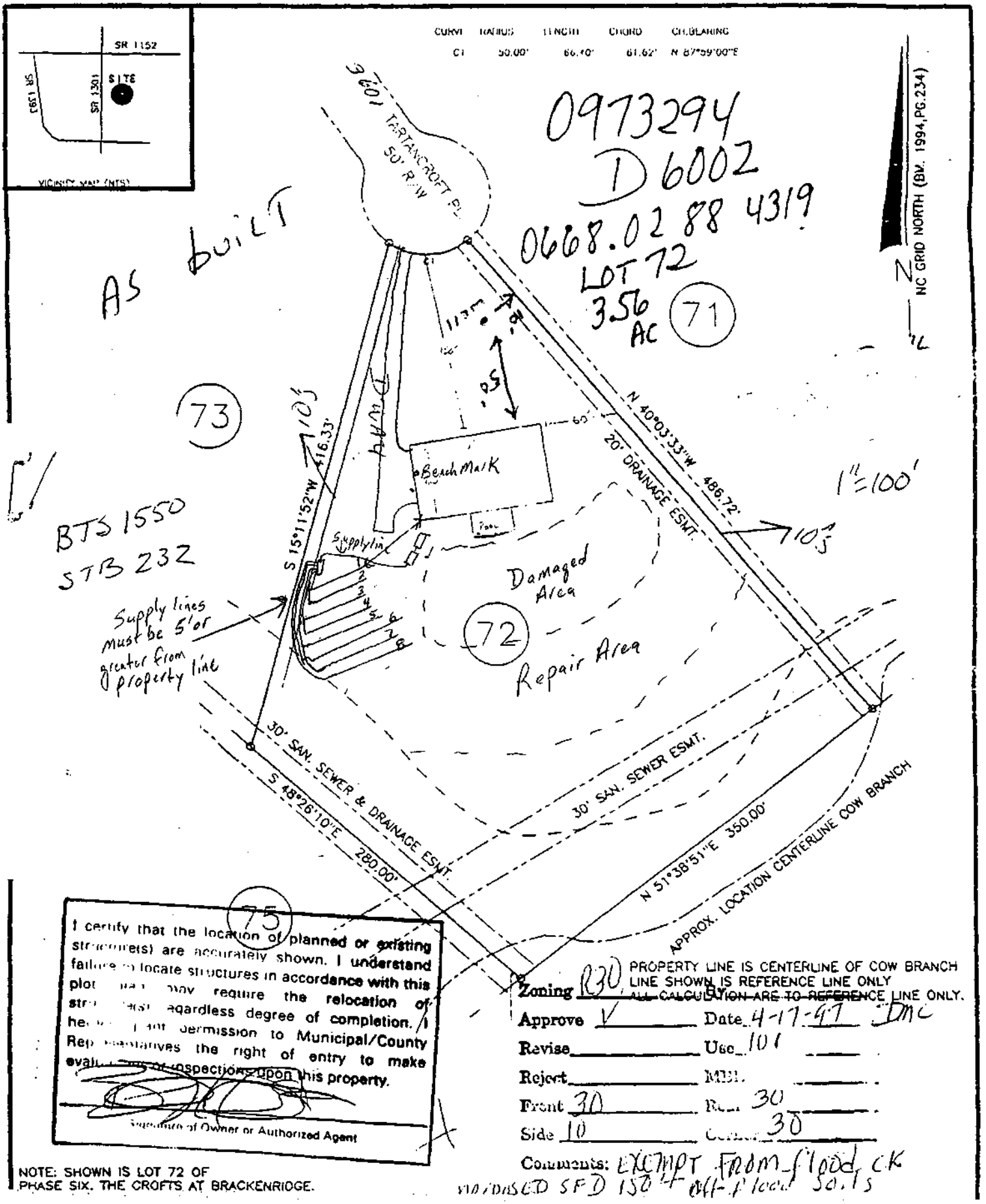
WELL SYSTEM = PRIVATE ☒ SEMI-PUBLIC ☐ ///// NEW ☒ REPLACEMENT ☐ EXISTING ☐

WELL LOG INFORMATION = DEPTH 200 CASING DEPTH 62 YIELD 10 STATIC LEVEL 23.6
WELL CONTRACTOR Bore & Lore REG.# 763 PUMP CONTRACTOR Bore+Core REG.# 763?

CONSTRUCTION COMPLIANCE = GROUT APPROVED ☒	DATE 8/3/99	EHS Buddy Wrenn	Myers 24430 99004
WCHD ID # 9351 WELLHEAD APPROVED ☒	DATE 11-12-99	EHS ED Duff	Pump 180'
NEGATIVE BACTERIOLOGICAL RESULTS ☐	DATE _____	EHS _____	Voltage-220
SYSTEM FINALIZED ☐	DATE _____	EHS _____	HP-1

COMMENTS: Well has already been installed as of 8-3-99. Date 9-11-99

This permit is based in part on information provided by the homeowner or his/her representative in the application submitted for this permit. The Environmental Health Specialist is not responsible for false or misleading information contained in the application. The Environmental Health Specialist is also not responsible for concealed conditions on the property or for statements in this report that may have resulted from false or misleading statements provided to him in the application. Neither Wake County nor the Environmental Health Specialist warrants that the septic tank system will continue to function satisfactorily in the future or that the water supply will remain potable.



75

I certify that the location of planned or existing structure(s) are accurately shown. I understand failure to locate structures in accordance with this plot plan may require the relocation of structures regardless degree of completion. I hereby grant permission to Municipal/County Representatives the right of entry to make evaluations of inspections upon this property.

Signature of Owner or Authorized Agent

PROPERTY LINE IS CENTERLINE OF COW BRANCH
LINE SHOWN IS REFERENCE LINE ONLY
ALL CALCULATION ARE TO REFERENCE LINE ONLY.

Zoning R30 By

Approve V Date 4-17-97 DMC

Revise _____ Use 101

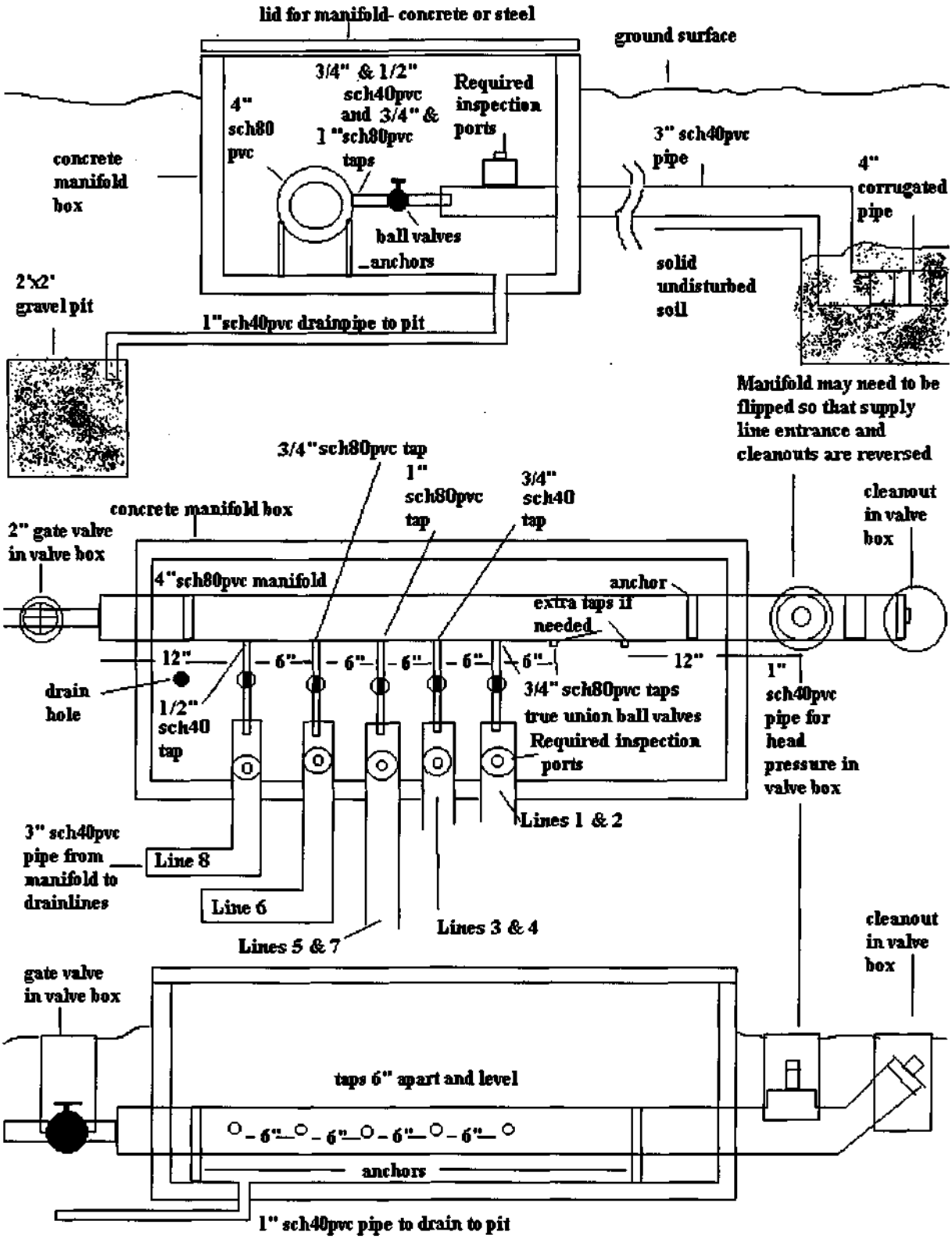
Reject _____ MH: _____

Front 30 Rear 30

Side 10 Corner 30

Comments: EXEMPT FROM flood CK
PROPOSED SFD 150 + OFF-flood SQ.FT.

NOTE: SHOWN IS LOT 72 OF
PHASE SIX, THE CROFTS AT BRACKENRIDGE.


lid for manifold- concrete or steel
ground surface
3/4" & 1/2" sch40pvc and 3/4" & 1 "sch80pvc taps
Required inspection ports
4" sch80 pvc
concrete manifold box
ball valves
anchors
3" sch40pvc pipe
4" corrugated pipe
solid undisturbed soil
2'x2' gravel pit
1"sch40pvc drainpipe to pit
Manifold may need to be flipped so that supply line entrance and cleanouts are reversed
3/4"sch80pvc tap
1" sch80pvc tap
3/4" sch40 tap
concrete manifold box
cleanout in valve box
2" gate valve in valve box
4"sch80pvc manifold
anchor
extra taps if needed
12"
6"
drain hole
1/2" sch40 tap
3/4" sch80pvc taps true union ball valves
Required inspection ports
1" sch40pvc pipe for head pressure in valve box
Lines 1 & 2
3" sch40pvc pipe from manifold to drainlines
Line 8
Line 6
Lines 5 & 7
Lines 3 & 4
cleanout in valve box
gate valve in valve box
taps 6" apart and level
anchors
1" sch40pvc pipe to drain to pit

WAKE COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES
PRESSURE MANIFOLD DESIGN

Name : Barry Shelley **P.I.N. # :** 0688.02884318 **D # :** 6002

Address : 3601 Tartancroft Place **Subdivision :** Crofts at Brackenridge **Lot # :** 72

Number of Bedrooms : 5 **Daily Flow :** 600gal/day **L.T.A.R. :** .32gal/day/sq.ft

Septic Tank : 1500gals **Pump Tank :** 1500gals **Square Footage :** 1880/1410 with 25% reduction

Number of Taps : 5 **Length of Trenches :** 40', 45', 50', 55', 2 @ 65', 70', 80'ft

Size of Taps : 1 @ 1/2 in sch40pvc 2 @ 3/4 in sch80pvc 1 @ 3/4 in sch40pvc 1 @ 1in sch80pvc

Flow per Orifice : 7.11,2 @ 10.1, 12.5, 16.8,gals/min **Total Flow :** 56.61gals/min

Manifold Diameter : 4 in sch80pvc **Tap Configuration : 6 in spacing,** 1 **side(s) of manifold**

Manifold Length : 48in

Supply Line : length : ~80ft, **diameter :** 2in Sch 40 pvc

Friction Loss + Fittings Loss: 9.03ft(supply line length + 70' for fittings in pump tank), **Design Head :** 2ft

Partial Head : 11.03ft (friction loss + fittings loss + design head)

Elevation Head : 12ft (difference between pump elevation & manifold)

Total Head : 23.03ft (partial head + elevation head)

Pump to Deliver : 56.61gals/min at 23.03ft head

Dosing Volume : 470 total pipe length X .65 gal/100ft = 305.5gals

70 % of 305.5gals = 214gals for dosage

Drawdown : 214gals divided by 31 gals/in = 10.2inches

Benchmark elev: 100'(inside garage floor at divider section between bays) Pump Tank elev.: 89.12'; pump elev.: 84.12'; manifold elev.: 96.0' System using Innovative drainfield product called EZ Lay with 25% reduction built into the design.

1st line: White flag, elev: 94.38', 45' in length, ½ ¾"sch80pvc tap, 5.05 gal/min, .126 gal/min/ft., Flow divider being used.
2nd line: Blue flag, elev: 93.69', 40' in length, ½ ¾"sch80pvc tap, 5.05 gal/min, .112 gal/min/ft., Flow divider being used.
3rd line: Red flag, elev: 92.46', 50' in length, ½ ¾"sch40pvc tap, 6.25 gal/min, .125 gal/min/ft., Flow divider being used.
4th line: Green flag, elev: 91.57', 55' in length, ½ ¾"sch40pvc tap, 6.25 gal/min, .113 gal/min/ft., Flow divider being used.
5th line: Blue flag, elev: 90.86', 65' in length, ½ 1"sch80pvc tap, 8.4 gal/min, .129 gal/min/ft., Flow divider being used.
6th line: Red flag, elev: 89.86', 80' in length, ¾"sch80pvc tap, 10.1 gal/min, .126 gal/min/ft.
7th line: White flag, elev: 89.2', 65' in length, ½ 1"sch80pvc tap, 8.4 gal/min, .129 gal/min/ft., Flow divider being used.
8th line: Orange flag, elev: 88.8', 70' in length, ½"sch40pvc tap, 7.11 gal/min, .102 gal/min/ft.

Simplex control panel to be used.

Possible pumps to be used: Zoeller 161, Hydromatic SHEF100, Goulds 3885 3/4HP, Myers ME50