

Environmental Services - Water Quality
Onsite Wastewater Scan Data Entry Form

PERMIT #: 0052027

PIN #: 0678282001

OP DATE: 0512912015

SYSTEM USE:

- ☒ House
☐ Mobile Home
☐ Business
☐ Other

SEWAGE TYPE:

- ☒ Domestic
☐ Industrial

PUMP/SIPHON?:

- ☒ Yes
☐ No

PRESSURE MANIFOLD:

- ☐ Yes
☒ No

SYSTEM TYPE:

- ☐ I
☐ II
☒ III
☐ IV
☐ V
☐ VI
☐ Other

SUB TYPE:

- ☐ A
☒ B
☐ C
☐ D
☐ E
☐ F
☐ G

NBR BEDROOMS:

- ☐ 1
☐ 2
☐ 3
☒ 4
☐ 5
☐ 6
☐ Other

MAINT. SCHEDULE:

- ☐ Yes
☒ No

CERT. OPERATOR

- ☐ Yes
☒ 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
☒	1250	☐	None/NA GT or PT

DRAINFIELD SIZE(SQ. FT.)

01200

DRAIN TYPE:

- ☐ Stone
☒ EZ Flow
☐ Infiltrator
☐ Biodiffuser
☐ Cultec
☐ Drip
☐ Hancor
☐ Large Dia. Pipe
☐ Multi-Pipe
☐ Other

MAX DEPTH (IN.):

- ☐ 12 in. or less
☐ 18 in. or less
☐ 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
☒ 12 in. or less
☐ 18 in. or less
☐ 24 in. or less
☐ Other

TRENCHES:

- ☒ Individual
☐ Bed

TRENCH WIDTH (IN.):

- ☐ 12 in. or less
☐ 18 in.
☐ 24 in.
☒ 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#: D052027 STATUS: A APP. DATE: 10/29/2014 BLDG. PERMIT#: 0151175
PIN: 0678 28 2001 000 TAX MAP: 0 RECORDED: Y ORIG. PERMIT#:
TOWNSHIP: 12 MIDDLE CREEK JURISDICTION: WC ZONING: R30 SW DEVICE: N S#:
APPLICANT: LENNAR CAROLINAS (919) 337 - 0227
909 AVIATION PKWY STE 700 MORRISVILLE, NC 27560
HD USE: 101A CONVENTIONAL ONE-FAMILY HOUSE EXIST USE: DESIGN FEE REQ?: PAID?:
LTAR: 0.30 0.30 BEDROOMS: 4 BASEMENT: N #EMPLOYEES: 0 FOUNDATION DRAIN: Y
SITE: ADDRESS: 5000 DARCY WOODS LN
SUBDIVISION: HIGH GROVE LOT: 111 ACRES: 0.70 EASEMENT: N LOC: SYS:
DIRECTION: 401S TO 1010 TR OLD STAGE TL DARCY WOODS

IMPROVEMENT PERMIT

As per GS 130A-335 (f), Improvement Permit is based on a Site Plan and is void Sixty (60) months from date of issuance: ☐

As per GS 130A-335 (f), Improvement Permit is based on a Plat and is valid without expiration: ☐

Permit is subject to revocation if the site plan or plat, whichever is applicable, or the intended use changes.

TANK SIZE: 1200 gal. PUMP Tank: 1200 gal. GREASE TRAP: gal. SQ FT: 1200 STONE DEPTH: ___ in. MAX DEPTH LINE: 26 in.
WASTEWATER: INDIVIDUAL SEWAGE: DOMESTIC TYPE SYSTEM: III B PUMP: Y P/M: N LP: TD:
DAILY FLOW: 480 gal/day WATER: COMMUNITY PRETREATMENT: NA FILL: DAF: DEEP: REDUCE35%:

COMMENTS:

IP ISSUED? Y DATE: 11/18/2014 BY: (TAH) *Tim Howard (JP)* PHONE#: (919)-369-5974

AUTHORIZATION FOR WASTEWATER/WATER SYSTEM CONSTRUCTION

VOID SIXTY (60) MONTHS FROM DATE OF ISSUANCE

AUTHORIZATION CONDITIONS:

Contractors shall install system on contours, see attached site plan for wastewater system design and well location. No underground utilities, water lines or sprinkler systems may be located in the original system or repair areas. A septic tank filter with a riser for access is required. 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. An Accepted Status System may be used in place of conventional system, if it can be placed in the permitted/authorized trench footprint (except reduction in line length and/or number as allowed for in approval) and the installation is in accordance with the accepted system approval, without unauthorized product alteration. If permit required use of an Accepted Status System, substitution with another accepted status system may be made, as long as no changes are necessary in the location of each nitrification line (including any increase in line length), trench depth or effluent distribution method. If changes are necessary, prior approval by this office is required before system installation.

OTHER CONDITIONS: SYSTEM DESIGNED AS AN ACCEPTED STATUS SYSTEM WITH A 25% REDUCTION TAKEN IN DRAINLINE LENGTH. THERE WILL BE A 1200 GALLON SEPTIC TANK AND PUMP TANK. EFFLUENT WILL PUMP TO A MANITEE AND FEED 4-100'X 3' INNOVATIVE DRAINLINES. THE MAXIMUM TRENCH DEPTH IS 26". THE REPAIR IS A PRESSURE MANIFOLD LOCATED ABOVE INITIAL SYSTEM. THERE SHALL BE NO GRADING OR FILLING WITHIN THE INITIAL OR REPAIR AREAS. PLEASE CALL PRIOR TO INSTALLATION WITH QUESTIONS, CHANGES, OR CONCERNS. TAH 919-369-5974

TANK SIZE: 1200 gal. PUMP TANK: 1200 gal. GREASE TRAP: gal. SQ FT: 1200 STONE DEPTH: ___ in. MAX DEPTH LINE: 26 in.
MAINT: N OPER: N L/O: Y TRENCH#: 4 LENGTH: 100 ft. WIDTH: 36 in. DESIGNER:
SUBFIELDS: ___ DESIGN HEAD PRESSURE: ___ DESIGN FLOW: ___ gal/min DOSE VOLUME: ___ gal. PRETREATMENT: NA

CA ISSUED? Y DATE: 11/18/2014 BY: (TAH) *Tim Howard (JP)* PHONE#: (919)-369-5974

11-19-14
JP

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#: D052027 STATUS: A APP. DATE: 10/29/2014 BLDG. PERMIT#: 0151175
PIN: 0678 28 2001 000 TAX MAP: 0 RECORDED: Y ORIG. PERMIT#:
TOWNSHIP: 12 MIDDLE CREEK JURISDICTION: WC ZONING: R30 SW DEVICE: N S#:
APPLICANT: LENNAR CAROLINAS (919) 337 - 0227
909 AVIATION PKWY STE 700 MORRISVILLE, NC 27560
USE: HD USE: 101A CONVENTIONAL ONE-FAMILY HOUSE EXIST USE:
LTAR: 0.30 0.30 BEDROOMS: 4 BASEMENT: N #EMPLOYEES: 0
SITE: ADDRESS: 5000 DARCY WOODS LN
SUBDIVISION: HIGH GROVE LOT: 111 ACRES: 0.70 EASEMENT: N LOC: SYS:
DIRECTION: 401S TO 1010 TR OLD STAGE TL DARCY WOODS

Well System: WATER: COMMUNITY - TYPE:

WELL LOG INFORMATION: DEPTH: _____ CASING DEPTH: _____ YIELD: _____ STATIC LEVEL: _____
WELL CONTRACTOR: _____ REG.# _____ PUMP CONTRACTOR: _____ REG.# _____
Construction Compliance GROUT APPROVED ☐ DATE _____ EHS _____
WELLHEAD APPROVED ☐ DATE _____ EHS _____
SYSTEM FINALIZED ☐ DATE _____ EHS _____

COMMENTS: COMMUNITY WATER

Operation Permit

DESIGN FLOW: _____ gal./min. ACTUAL FLOW: _____ DOSE VOLUME: _____ gal. INNOVATIVE LETTER: _____
INSTALLED BY: Fay Adcock INSTALLATION APPROVED BY: Tah.
PROPRIETARY SYSTEM: 92FLOW TYPE SYSTEM: III B
COMMENTS:

OPERATIONS PERMIT ISSUED? Yes OP DATE: 5-29-15 BY: AYA

Systems defined as either a Type IIIb, IIIg with a pump, IV, V or VI, in accordance with the North Carolina Administrative Code 15A NCAC 18A .1961, Table V as adopted by reference in the "Regulations Governing Wastewater Treatment and Dispersal Systems in Wake County", require Wake County Environmental Services to conduct periodic inspections on this type system, pursuant to 15A NCAC 18A .1961 (j). Fees for these inspections will be charged as per the approved Fee Schedule. In addition, all systems are to be operated and maintained as specified in 15A NCAC 18A .1961. 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.

As Built Information:

Date: 4/29/15 Benchmark: T51 Inlet Riser Rod reading: 6'5"
ST: 1250 gals ID#: MIP S+B 381 D.O.M.: 12-6-14 Elev.: 7'5" Distance to Structure: 15'
PT: 1230 gals ID#: MIP PT364 D.O.M.: 5-17-14 Elev.: 7'10 3/4" Distance to Well: _____
GT: _____ gals ID#: _____ D.O.M.: _____ Elev.: _____ Distance to P/L: _____
D-box/FD/PM elev.: Monitor Supply Line: ~75 ft. Pump/Ctrl Panel: _____ Filter: _____
Line 1: 5'8 3/4" _____ Date: _____ Line 6: _____ Date: _____
Line 2: 5'7" _____ Date: _____ Line 7: _____ Date: _____
Line 3: 6'1 1/2" _____ Date: _____ Line 8: _____ Date: _____
Line 4: 6'10" _____ Date: _____ Line 9: _____ Date: _____
Line 5: _____ Date: _____ Line 10: _____ Date: _____
ETM1: _____ CC1: _____ ETM2: _____ CC2: _____ OR: _____ AC: _____ WM: _____
Notes: _____

Needs PF

PRELIMINARY PLOT PLAN FOR

LENNAR

AS BUILT

LOT 111, HIGH GROVE 2, PH.4-D

5000 DARCY WOODS LANE

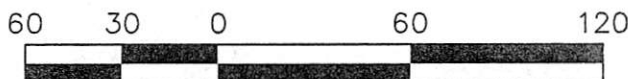
REF: B.M. 2012, PAGES 1109-1110

MIDDLE CREEK TOWNSHIP

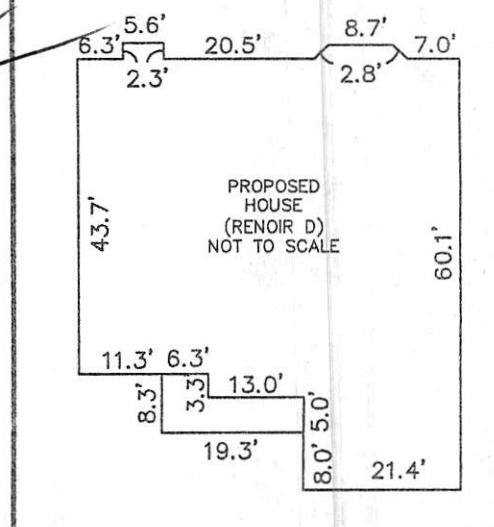
WAKE COUNTY, NORTH CAROLINA

SEPTEMBER 25, 2014

ZONED R-30



SCALE 1"=60'



PROPOSED HOUSE
(RENOIR D)
NOT TO SCALE

0151175
D062027

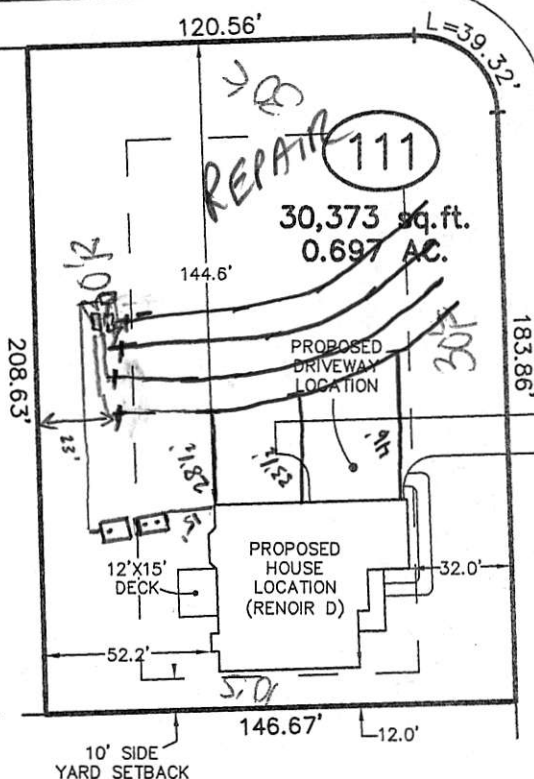
LEBRUN PATH 50' PUBLIC R/W

Comments: NO 6m. for error on front
OR side - Need foundation
Survey

Revised: 30
Front: 30
Side: 30
Corner: 30

By: 112
Date: 10-29-14
Use: 10/14

Revised: 30
Front: 30
Side: 30
Corner: 30



DARCY WOODS LANE 50' PUBLIC R/W

5000

0678282001

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

Signature of Owner or Authorized Agent

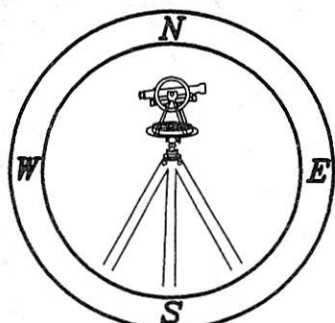
THIS SURVEYOR DOES NOT
WARRANTY THE ACCURACY
OF ARCHITECTURAL DIMENSIONS.
THEY ARE TO BE VERIFIED BY
THE CONTRACTOR.

IMPERVIOUS SURFACE TABLE

HOUSE	2,824 S.F.
DRIVEWAY	1,265 S.F.
SIDEWALK	210 S.F.
SCREEN PORCH	180 S.F.
TOTAL IMPERVIOUS AREA	4,479 S.F.
TOTAL LOT AREA	30,373 S.F.
PERCENTAGE OF IMPERVIOUS AREA	14.75%
MAX. IMPERVIOUS ALLOWED	2,000 S.F.

NOTE:

-IMPERVIOUS CALCULATIONS ACCOUNT
FOR IMPERVIOUS AREA CONTAINED
WITHIN LOT LINES ONLY.



CAWTHORNE, MOSS
& PANCIERA, P.C.

Professional Land Surveyors
C-1525

333 S. White Street
Post Office Box 1253
Wake Forest, N.C. 27588
(919)556-3148

NOTES:

-THIS PLAN DOES NOT REFLECT AN
ACTUAL SURVEY. IT IS A PRELIMINARY
PLAN AND SHOULD BE USED FOR ITS
INTENDED PURPOSE ONLY.
-NOT FOR RECORDATION, CONVEYANCES,
OR SALES.

PRELIMINARY PLOT PLAN FOR

LENNAR ^{CA}

LOT 111, HIGH GROVE 2, PH.4-D

5000 DARCY WOODS LANE

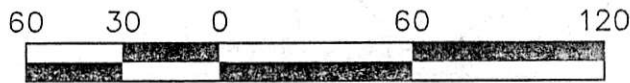
REF: B.M. 2012, PAGES 1109-1110

MIDDLE CREEK TOWNSHIP

WAKE COUNTY, NORTH CAROLINA

SEPTEMBER 25, 2014

ZONED R-30



SCALE 1"=60'

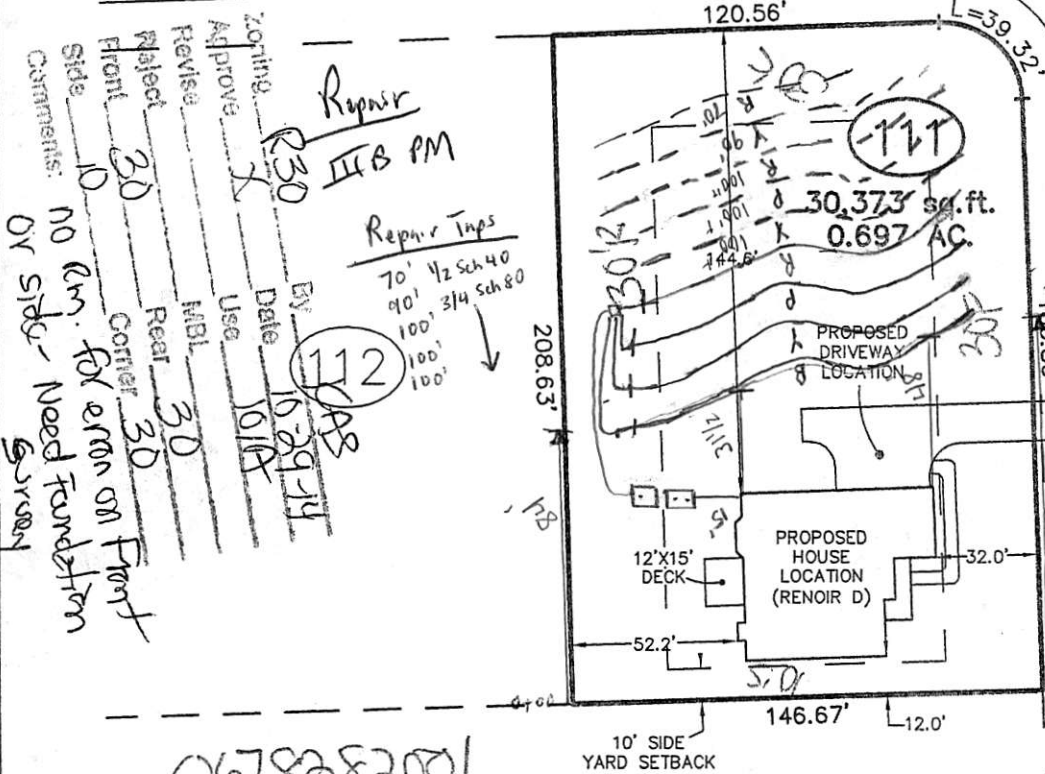
Initial

- 1200 Gallon S.T. & P.T.
- Pump to Monitor
- 4-100'x3' Innovative Drainlines
- 26" Max Trench Depth

0151175
D062027

LEBRUN PATH 50' PUBLIC R/W

DARCY WOODS LANE 50' PUBLIC R/W



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

Signature of Owner or Authorized Agent

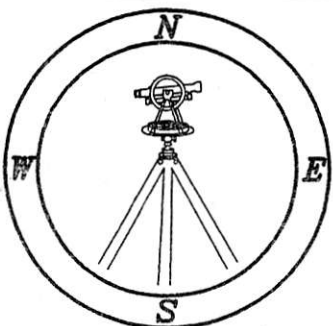
THIS SURVEYOR DOES NOT WARRANTY THE ACCURACY OF ARCHITECTURAL DIMENSIONS. THEY ARE TO BE VERIFIED BY THE CONTRACTOR.

IMPERVIOUS SURFACE TABLE

HOUSE	2,824 S.F.
DRIVEWAY	1,265 S.F.
SIDEWALK	210 S.F.
SCREEN PORCH	180 S.F.
TOTAL IMPERVIOUS AREA	4,479 S.F.
TOTAL LOT AREA	30,373 S.F.
PERCENTAGE OF IMPERVIOUS AREA	14.75%
MAX. IMPERVIOUS ALLOWED	7,000 S.F.

NOTE:

-IMPERVIOUS CALCULATIONS ACCOUNT FOR IMPERVIOUS AREA CONTAINED WITHIN LOT LINES ONLY.



CAWTHORNE, MOSS & PANCIERA, P.C.

Professional Land Surveyors
C-1525

333 S. White Street
Post Office Box 1253
Wake Forest, N.C. 27588
(919)556-3148

NOTES:

-THIS PLAN DOES NOT REFLECT AN ACTUAL SURVEY. IT IS A PRELIMINARY PLAN AND SHOULD BE USED FOR ITS INTENDED PURPOSE ONLY.
-NOT FOR RECORDATION, CONVEYANCES, OR SALES.

WAKE COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES

4 TAP PRESSURE MANI-TEE DESIGN

Name: Lennar Carolinas **P.I.N. #:** 0678282001 **D#:** 52027
Address: 5000 Darcy Woods **Subdiv:** High Grove **Lot#:** 111
of BDR: 4 **Daily Flow:** 480 gal/day **L.T.A.R.:** 0.30 gal/day/sq.ft
Septic Tank: 1200 gals **Pump Tank:** 1200 gals **Sq. Foot:** 1200 **Stone Depth:**
Number of Taps: 4 **Length of Trenches:** 400 ft(See Tap Chart for Details)
Depth of Trenches: 26 in **Manifold Length:** 42 in
Manifold Diameter: 2in sch 40pvc Mani-Tee **Tap Configuration:** 6 in spacing 1 side(s) of manifold
Supply Line: length: 0 ft **Diameter:** 2 in sch 40pvc
Friction Loss + Fitting Loss: 1.32 ft(supply line length + 70' for fittings in pump tank)
Design Head: 2 ft **Elevation Head:** 6.00 ft
Total Head: 9.32 ft **Pump to Deliver:** 28.44 gals/min at 9.32 ft head
Dosing Volume: 195 gals,
Drawdown: 195 gals divided by 20 gals/in = 9.8 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

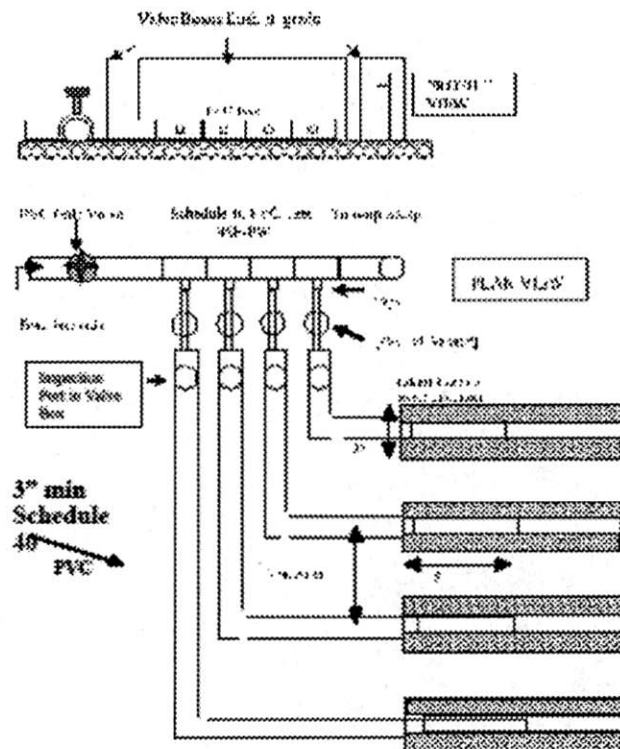
Bench Mark	is = 100.00	set at					Design Head:	2	
Pump tank elev.		100.00	Pump elev.	95.00			Manifold elev.	101.00	
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR
1	r		100.00	100	1/2in SCH 40	7.11	0.00	300	0.000
2	p		100.00	100	1/2in SCH 40	7.11	0.00	300	0.000
3	y		100.00	100	1/2in SCH 40	7.11	0.00	300	0.000
4	b		100.00	100	1/2in SCH 40	7.11	0.00	300	0.000
		total	feet =	400	gal/min =	28.44			
% of Dose Vol.	75								
Dose Volume	195								
Dose Pump Time	6.86								
Drawdown in Inches	9.8								
Supply Line Length									
Comments:									

Hydraulic Profile

Manifold Elevation	101.00	0
Pump tank elev.	100.00	2
Pump elev.	95.00	0

	Line 1	Line 2	Line 3	Line 4
Taps	1/2in SCH 40	1/2in SCH 40	1/2in SCH 40	1/2in SCH 40
Flow	7.11	7.11	7.11	7.11

Wake County Mani-Tee Design



Manifold sizing may need to be altered after installer layout. The installer must layout the system prior to the pre-construction conference