261 Mabry Rd

Project No. 1989-1

LINE #	FLAG COLOR	BS (ft)	HI (ft)	FS (ft)	ELEVATION (ft)	FLAGGED LINE LENGTH (ft)	DESIGN LINE LENGTH (ft)
TBM		1.4			100.00		
INSTR. 1			101.40				
1	Yellow			3.25	98.15	57	0
2	**Blue**			**3.65**	**97.75**	**72**	**70**
3	**Red**			**4.20**	**97.20**	**98**	**95**
4	**Not Flagged**			**4.60**	**96.80**	**0**	**55**
5	**White**			**5.00**	**96.40**	**137**	**105**
6	**Pink**			**5.50**	**95.90**	**106**	**105**
7	Yellow			6.00	95.40	134	110
8	Blue			6.45	94.95	122	110
9	Red			6.95	94.45	96	95
10	Pink			7.60	93.80	73	70
11	Yellow			8.05	93.35	63	60
12	Blue			8.55	92.85	58	0
13	Red			9.00	92.40	48	0
					Total	**1064**	**875**

	DESIGN LINE LENGTH (ft)	SOIL LTAR GPD/FT^2	SYSTEM TYPE	DESIGN LTAR* GPD/FT^2	DISTRIBUTION MEDIA	DISTRIBUTION METHOD	DESIGN FLOW (GPD)
System	**430**	**0.30**	**Accepted**	**0.28**	**EZ-Flow At Grade**	**Pressure Manifold**	**480**
Repair	445	0.30	Accepted	0.27	EZ-Flow At Grade	Pressure Manifold	480

Notes:

1) TBM on ground AT TREE.
2) TBM is assumed to be 100.00'.
3) All measures in feet.
4) Nitrification lines are demonstrated on contour via colored pin flags.
5) BS, FS indicate rod readings.

*** Design LTAR = Design Flow / ((Design Line Length x Trench Width) / (1-%Reduction))**

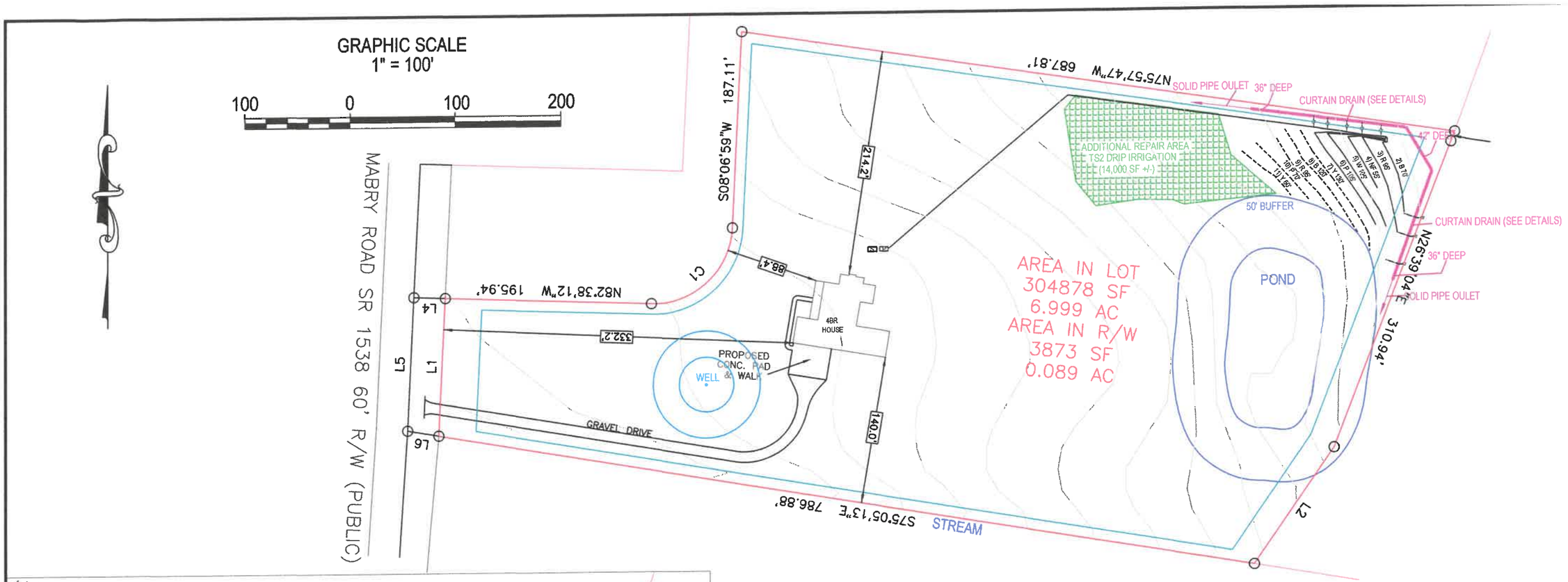
261 Mabry Rd
Project No. 1989-1
SYSTEM TAP CHART

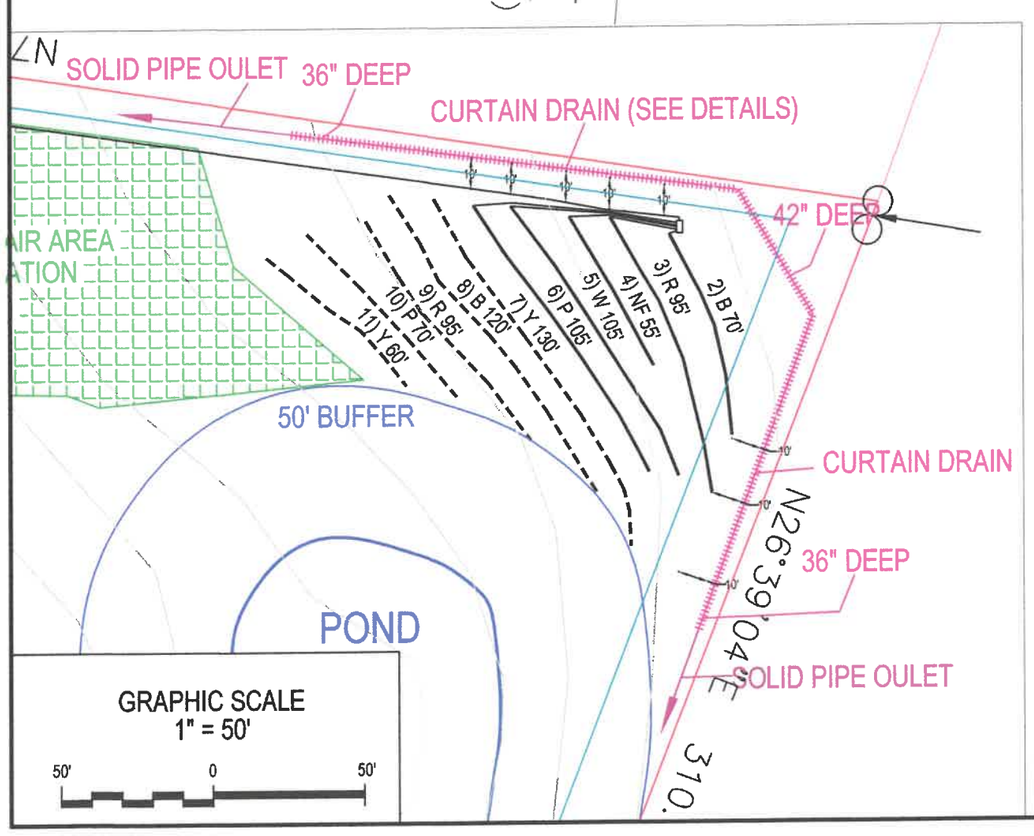
Line #	Color	Field Elev. (ft)	Length (ft)	Hole Size (in)	Flow/Tap (gpm)	gpd	Trench Area (sq ft)	Line LTAR (gpd/sq ft)
2	Blue	***97.75***	**70**	1/2" SCH. 40	**7.11**	71.60	210	0.341
3	Red	***97.20***	**95**	3/4" SCH. 80	**10.12**	101.90	285	0.358
4	Not Flagged	***96.80***	**55**	1/2" SCH. 80	**5.48**	55.17	165	0.334
5	White	***96.40***	**105**	3/4" SCH. 40	**12.48**	125.66	315	0.399
6	Pink	***95.90***	**105**	3/4" SCH. 40	**12.48**	125.66	315	0.399

total **feet =** **430** **gal/min =** **47.68**

Des. Flow	**480**	**gpd**
Pump Run=	**10.07**	**min**
soil LTAR	**0.30**	**gpd/sq ft**
(ltar +5%)	**0.315**	**gpd/sq ft**
INNOV. Product Reduction	**25%**	
LTAR with INNOV.	**0.40**	**gpd/sq ft**
LTAR with INNOV. + 5%	**0.420**	**gpd/sq ft**
100% Dose Volume	**279.83**	**gal**
Percent Dose Volume	**75%**	
Total	**209.87**	**gal**

Pump Run Time **4.40** **min**





SYSTEM:

- LINES 2-6 (430' OF EZ-FLOW)
- PRESSURE MANIFOLD
- AT-GRADE (12" TRENCH DEPTH MAX.)
- 6-8" OF APPROVED COVER MATERIAL
- CURTAIN DRAIN IS REQUIRED AS SHOWN

NOTES:

1) SITE DATA TO INCLUDE PROPERTY BOUNDARIES, STRUCTURE LOCATION, UTILITIES, ROADS, AND OTHER SITE FEATURES WERE PROVIDED BY TRUELINE SURVEYING AND ARE SHOWN TO DISPLAY GENERAL SITE CONDITIONS.

2) ALL SEPTIC SYSTEM COMPONENTS TO INCLUDE TANKS, PUMPS, MANIFOLDS, AND SYSTEM AND REPAIR LINES HAVE BEEN GPS LOCATED BY SOIL SERVICES, PLLC. ALL LOCATIONS, ELEVATIONS, AND DIMENSIONS ARE APPROXIMATE AND AS SUCH NO SPECIFIC ACCURACY EITHER VERTICAL OR HORIZONTAL IS IMPLIED.

3) PROPERTY AND EASEMENT BOUNDARIES SHOWN ON THIS SITE SKETCH ARE APPROXIMATE AND ARE NOT INTENDED FOR LOCATING PROPERTY OR IDENTIFYING PROPERTY OR EASEMENT CORNERS. THIS IS NOT A SURVEY.

LEGEND

- SYSTEM LINE
- REPAIR LINE
- ADDITIONAL REPAIR AREA (TS2 DRIP)
- PRIVATE WELL SETBACKS
- S — SEPTIC TANK
- P — PUMP TANK
- 4' DEEP CURTAIN DRAIN
- SOLID PIPE OULET

Project No.: 1989-1
Drawn: SM
Project Manager: SM
Field Work: SM
Scale: AS SHOWN
Sheet No.: 1 of 1

Sheet Title: SEPTIC SYSTEM SITE PLAN

Project: 261 MABRY RD

Client: JABIER CUELLAR AGRUETA

Location: HARNETT CO., NC

SOIL SERVICES, PLLC
PO BOX 91115, RALEIGH, NC 27675
OFFICE: (919) 745-1928 FAX: (919) 375-3969
WWW.SOILSERVICES.US

261 Mabry Rd
Project No. 1989-1
REPAIR TAP CHART

Line #	Color	Field Elev. (ft)	Length (ft)	Hole Size (in)	Flow/Tap (gpm)	gpd	Trench Area (sq ft)	Line LTAR (gpd/sq ft)
7	Yellow	***95.40***	**110**	3/4" SCH. 40	**12.48**	125.66	330	0.381
8	Blue	***94.95***	**110**	3/4" SCH. 40	**12.48**	125.66	330	0.381
9	Red	***94.45***	**95**	3/4" SCH. 80	**10.12**	101.90	285	0.358
10	Pink	***93.80***	**70**	1/2" SCH. 40	**7.11**	71.60	210	0.341
11	Yellow	***93.35***	**60**	1/2" SCH. 80	**5.48**	55.17	180	0.307

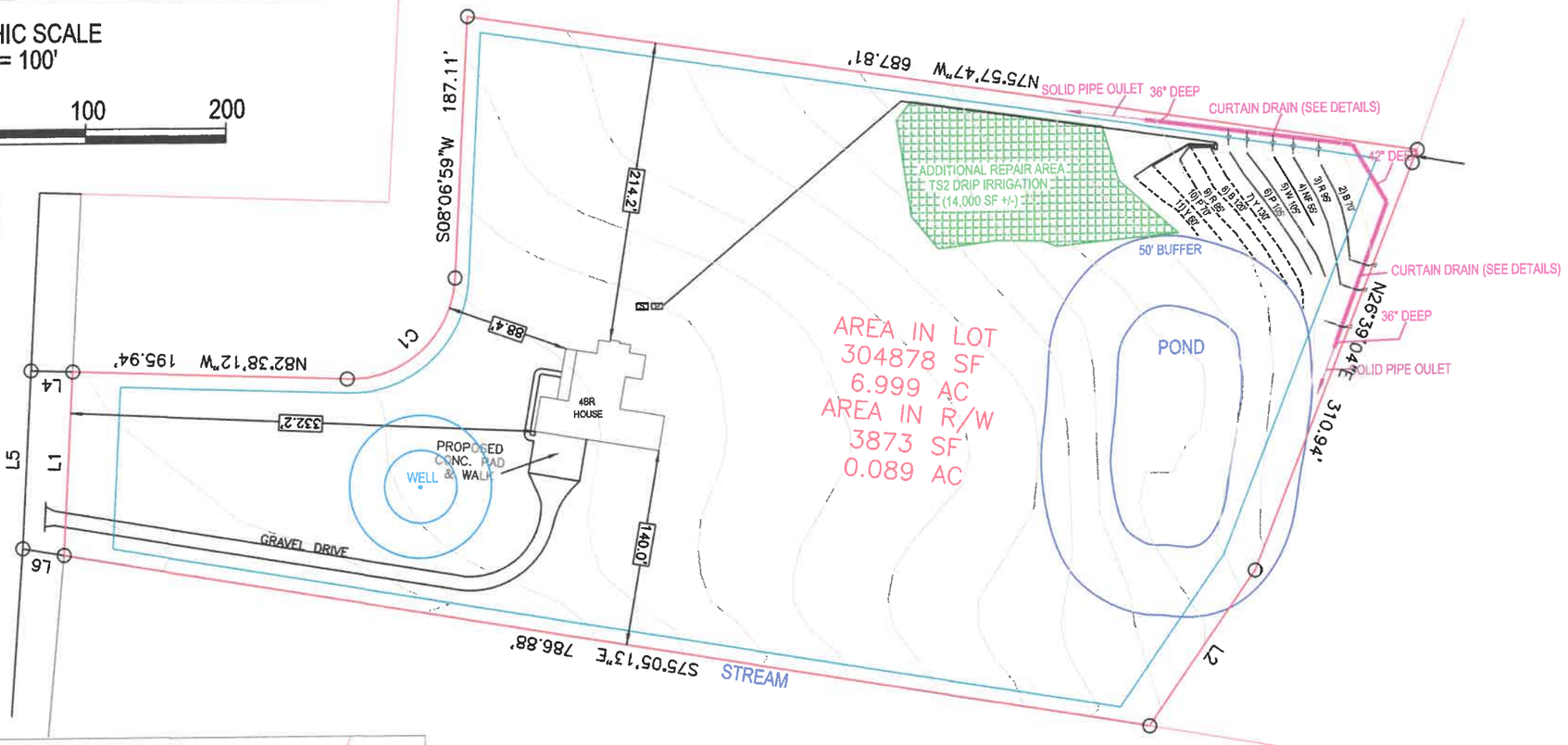
total **feet =** **445** **gal/min =** **47.68**

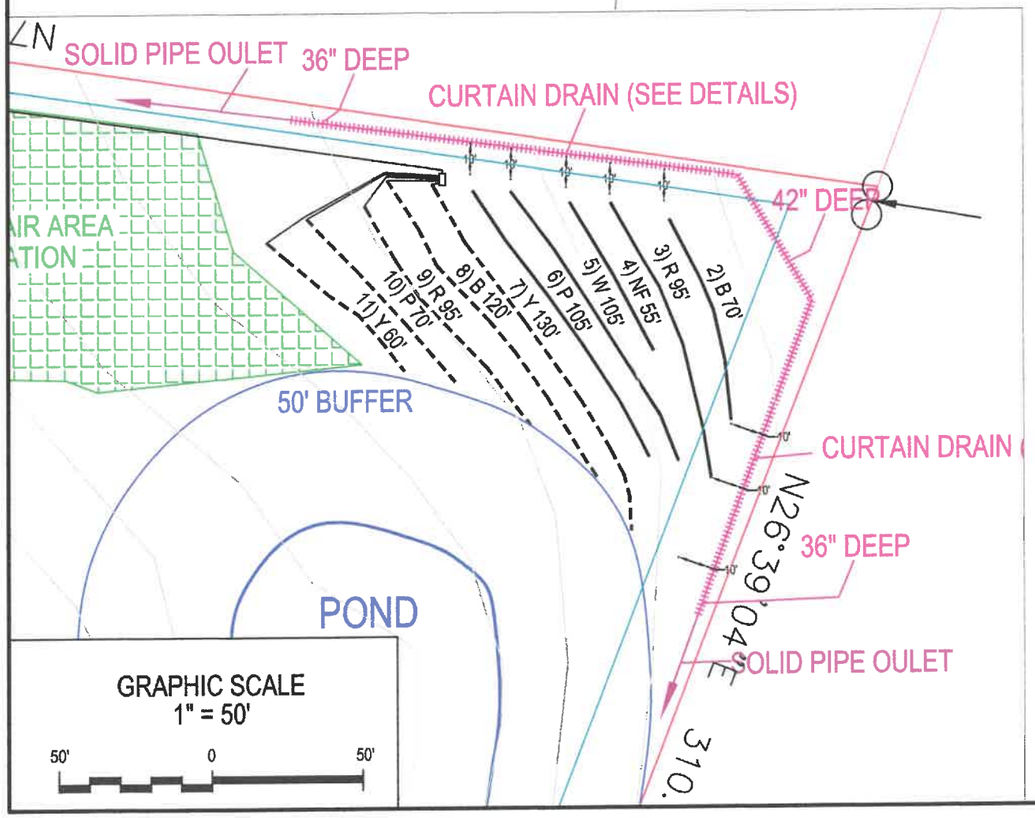
Des. Flow	**480**	**gpd**
Pump Run=	**10.07**	**min**
soil LTAR	**0.30**	**gpd/sq ft**
(ltar +5%)	**0.315**	**gpd/sq ft**
INNOV. Product Reduction	**25%**	
LTAR with INNOV.	**0.4**	**gpd/sq ft**
LTAR with INNOV. + 5%	**0.42**	**gpd/sq ft**
100% Dose Volume	**289.59**	**gal**
Percent Dose Volume	**75%**	
Total	**217.19**	**gal**

Pump Run Time **4.56** **min**

GRAPHIC SCALE
1" = 100'

100 0 100 200





GRAPHIC SCALE
1" = 50'

50' 0 50'

REPAIR:

- LINES 7-11 (445' OF EZ-FLOW)
- PRESSURE MANIFOLD
- AT-GRADE (12" TRENCH DEPTH MAX.)
- 6-8" OF APPROVED COVER MATERIAL
- CURTAIN DRAIN IS REQUIRED AS SHOWN

NOTES:

1) SITE DATA TO INCLUDE PROPERTY BOUNDARIES, STRUCTURE LOCATION, UTILITIES, ROADS, AND OTHER SITE FEATURES WERE PROVIDED BY TRUELINE SURVEYING AND ARE SHOWN TO DISPLAY GENERAL SITE CONDITIONS.

2) ALL SEPTIC SYSTEM COMPONENTS TO INCLUDE TANKS, PUMPS, MANIFOLDS, AND SYSTEM AND REPAIR LINES HAVE BEEN GPS LOCATED BY SOIL SERVICES, PLLC. ALL LOCATIONS, ELEVATIONS, AND DIMENSIONS ARE APPROXIMATE AND AS SUCH NO SPECIFIC ACCURACY EITHER VERTICAL OR HORIZONTAL IS IMPLIED.

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LEGEND

- SYSTEM LINE
- REPAIR LINE
- ADDITIONAL REPAIR AREA (TS2 DRIP)
- PRIVATE WELL SETBACKS
- S — SEPTIC TANK
- P — PUMP TANK
- 4' DEEP CURTAIN DRAIN
- SOLID PIPE OULET

Project No.: 1989-1
Drawn: SM
Project Manager: SM
Field Work: SM
Scale: AS SHOWN
Sheet No.: 1 of 1

Sheet Title: SEPTIC SYSTEM SITE PLAN

Project: 261 MABRY RD

Client: JABIER CUELLAR AGRUETA

Location: HARNETT CO., NC

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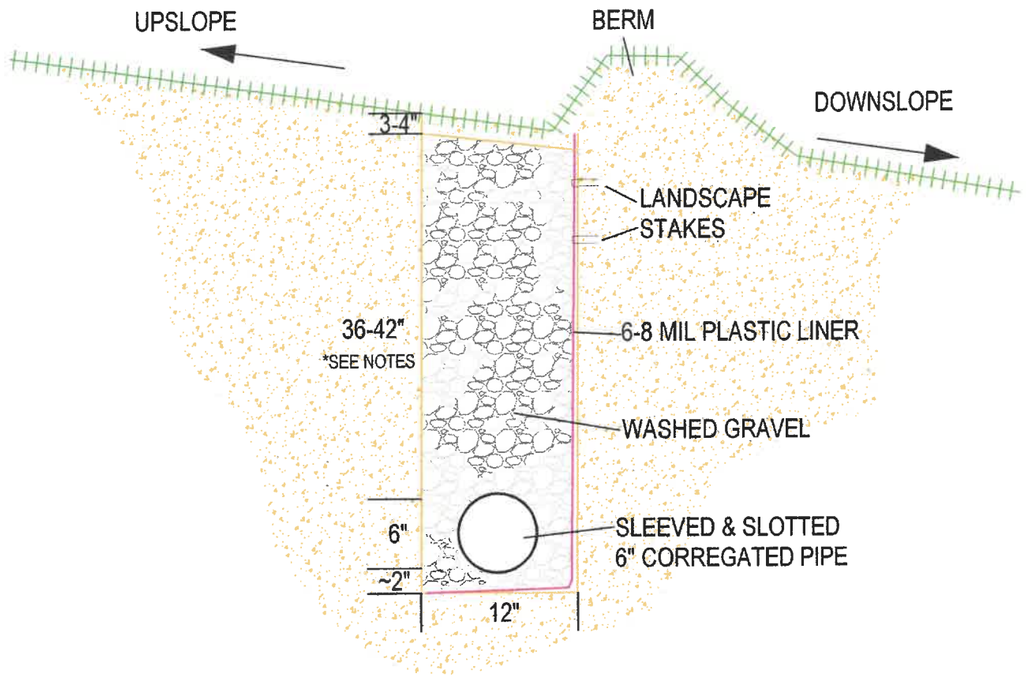

NOTES:

1) INSTALLATION DEPTH OF DRAIN SHOULD BE 36-42" AS SHOWN ON THE PLAN.
2) 2% SLOPE SHALL BE MAINTAINED THROUGHOUT THE LENGTH OF THE DRAIN AND OUTLET PIPE.
3) DOWNSLOPE SIDE OF THE CURTAIN DRAIN SHALL BE LINED WITH PLASTIC LINER.
4) OUTLET PIPE SHALL BE 4" OR 6" SOLID PIPE (NON-PERF) OR EQUIVALENT.
5) CURTAIN DRAIN PIPE SHALL BE PERFERATED/SLOTTED 6" CORRUGATED PIPE OR EQUIVALENT.
6) THE DRAIN AGGREGATE SHALL BE CAPPED WITH 3-4" OF TOPSOIL AND SOD.
7) THE DRAIN SHALL BE INSTALLED DURING DRY CONDITIONS.
8) THE DRAIN WIDTH SHALL BE 12" AND SHALL NOT BE OVER DUG AND THEN BACKFILLED TO 12".
9) THE OUTLET SHALL BE EXTENDED PAST THE DRAINFIELD AND TO THE GROUND SURFACE.
10) OUTLET PIPE SHALL NOT DISCHARGE INTO A WETLAND.
11) THE OUTLET PIPE TRENCH SHALL BE BACKFILLED WITH NATIVE SOIL.
12) A DIVERSION BERM SHALL BE CONSTRUCTED TO DIVERT SURFACE FLOW AWAY FROM THE SEPTIC DRAINFIELD AND TO ENCOURAGE INFILTRATION INTO THE CURTAIN DRAIN.

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Sheet Title: CURTAIN DRAIN DETAIL			Project No.: 1989-1
		Project Manager: SM	Drawn: SM
Project: 261 MABRY RD		Scale: NOT TO SCALE	Field Work: SM
			Sheet No.: 1 of 1
Location: HARNETT CO., NC	Client: JAVIER CUELLAR ARGUETA		