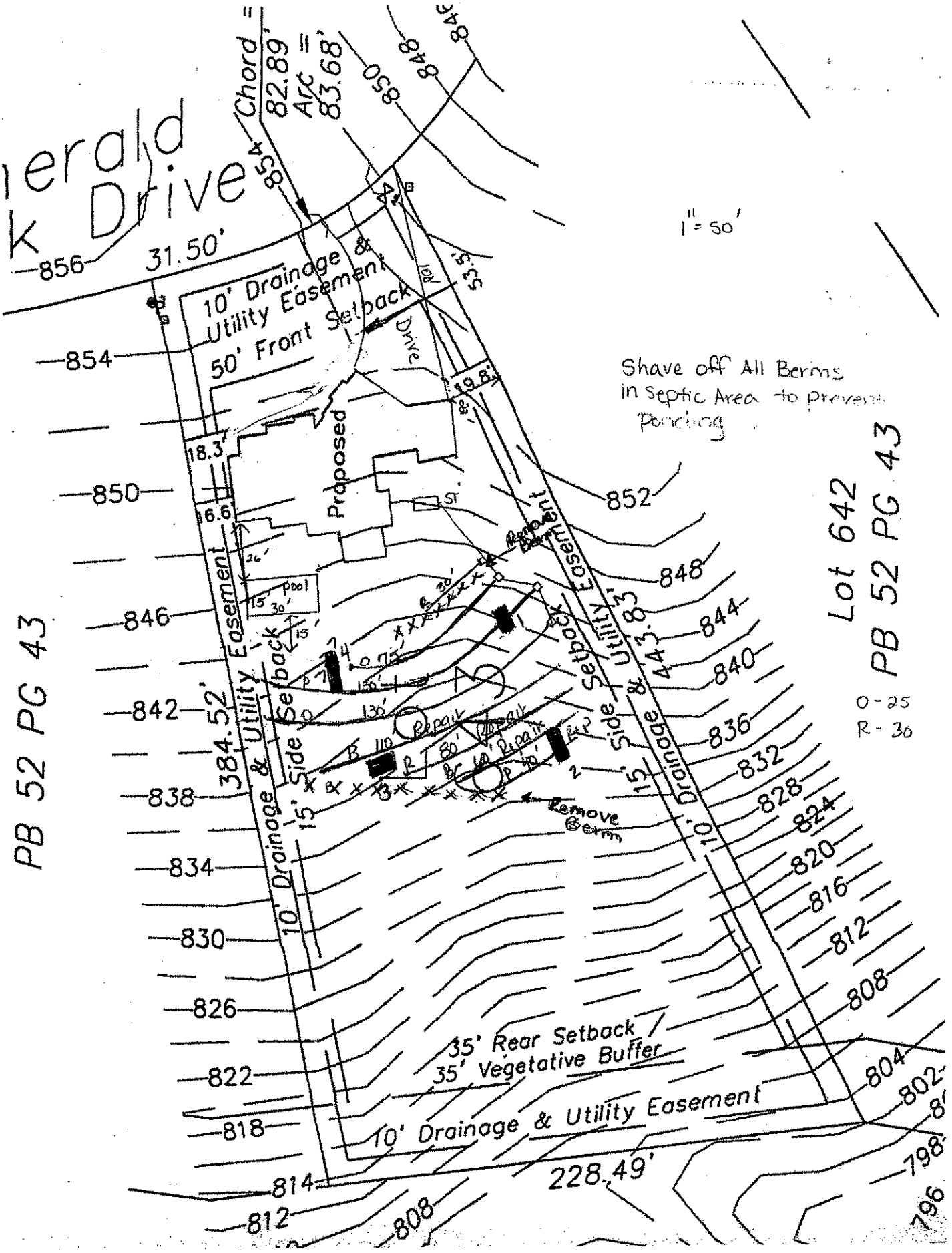

Chord = 82.89'
Arc = 83.68'
1" = 50'
31.50'
10' Drainage & Utility Easement
50' Front Setback
Drive
Shave off All Berms in Septic Area to prevent Ponding
Proposed
18.3'
6.6'
26'
15' Pool
30'
15'
Repair
Repair
Repair
Repair
Remove Berm
Side Setback & Utility Easement
10' Drainage & Utility Easement
15'
10'
384.52'
44.83'
228.49'
35' Rear Setback
35' Vegetative Buffer
10' Drainage & Utility Easement
PB 52 PG 43
Lot 642
PB 52 PG 43
O-25
R-30
856
854
850
846
842
838
834
830
826
822
818
814
812
808
852
848
844
840
836
832
828
824
820
816
812
808
804
802
798
796

Lot 643 Falls Cove Subdivision Fast Track - The Oaks Group, PA

Number of Bedrooms	**3**
Basement or Crawl	**Crawl Space**
Design Flow (gpd)	**360**
Primary System LTAR (gpd/ft2)	**0.25**
Primary System Type	**25% Reduction**
No. Lines	4 (See Table)
Total Linear Feet	365
Trench Width	3' min.
Trench Spacing	9' min.
Distribution Device	Drop Boxes or Other
Tank Size	1000 gallon tank
Max Trench Bottom Depth (Low Side)	24 inches
Maintenance Agreement Required	No
Repair System	**LP PPBPS**
Total Linear Feet	290
Repair Loading Rate	0.25

Table: Summary of Primary and Repair Nitrification Line Specifications

Line No.	Use	Line Color	System Type	Line Length (Ft.)
1	System	Red	25% Reduction	30 endfed
2	System	Orange	25% Reduction	75 endfed
3	System	Pink	25% Reduction	130 endfed
4	System	Orange	25% Reduction	130 endfed
5	Repair	Blue	LP PPBPS	110
6	Repair	Red	LP PPBPS	80
7	Repair	Blue	LP PPBPS	60
8	Repair	Pink	LP PPBPS	40
				Total System: 365'.
				Total Repair: 290'

Note: Keep necessary setbacks to foundation drains if used
Tank locations and distribution devices can be altered at ICHD's discretion
Keep 15 ft between pool edge and upper system line minimum

Project #:
Property ID #:
County: Iredell

SOIL/SITE EVALUATION

HSJ

Sheet:
Date Evaluated: 12/16/15

Owner or Client: 4G Design Build
Proposed Facility: SFR Design Flow: 360
Location of Site: Falls Cove 643
Soil Described By: KMS Others Present: EH
Antecedent Moisture: Weather: 50° F

Property Size: 1.57 Ac
Site LTAR: Int. 0.25 Rep. 0.25
Site Classification: PS

Water Supply: [X] Public [ ] Community [ ] On-Site Well [ ] Spring [ ] Other
Evaluation Method: [ ] Auger Boring [X] Pit [ ] Cut
Type of Wastewater: [X] Sewage [ ] Industrial Process [ ] Mixed

PROFILE #	Lscp. Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY: Structure	Texture	Consistence	PROFILE FACTORS: Inclusions	Matrix Color	Mottles	Profile Notes (Restr Horiz, Soil Depth, Coarse Frag, etc...)	Profile Class & LTAR
1	L	0-13	mo ABK	C	FR ss/sp		R			0.3
		13-49	wk SBK	CL	↓	F SL Pockets (Sap)	C Sap	R		
		49-52	MA SAP	SL	↓		Multi			
2	L	0-15	MO GR	SCL	FR ss/sp		Vd/Br			0.3
		15-35	WK SBK	C	↓		R			
		35-49	MA SAP	SL	↓		Multi			
		49-52	WK SBK	SCL	↓		R			
					* Rock in step on one side					
3	L	0-11	MO GR	SCL	FR ss/sp		R			0.25
		11-35	WK ABK	C	↓		R			
		35-48	MA SAP	L	↓		R			
4	L	0-13	MO ABK	C	FR ss/sp		R			0.25
		13-49	WK SBK	CL	↓	C Sap	R			
		49-55	MA SAP	SL/L	↓		Multi			

COMMENTS:

Gravity 25% Reduction System

LP PPBPS Repair