

## DEPARTMENT OF PUBLIC HEALTH SCOTT HARRIS, M.D. • ACTING STATE HEALTH OFFICER

## Shelby County Health Department • Environmental Division Northeastern District

August 31, 2018

Mr. David Brogdon Shelby County Rd 11 Chelsea AL 35043

Dear Mr. Brogdon:

Enclosed is the Phase 3 Final Development assessment from the Shelby County Health Department for:

Name of Development: The Highlands of Chelsea

Needed to complete The Highlands of Chelsea Subdivision are the following items: A final plot plan showing lot dimensions. A final development fee (part 3) of 300.00 total. Please see the attached report regarding the lots and lot conditions, types of systems, permitting, and approvals.

If you have questions, please contact me the Shelby County Health Department at 205/620-1650.

Sincerely.

Russell Harry Environmental Super

## CEP-3 PART A, PHASE 3

	Completed	By The Shelby Co	unty Health Departn	nent		
Name of Establishment/Development:		The Highland	s of Chelsea			
LOCAL HEALTH DEPARTMENT:						
$\checkmark$ Approval (With Conditions)	$^\square$ Disapproval	(Withheld)				
Our approval/disapproval of the SIT	PREPARATION PLA	N is based on th	e following cond	itions:		
Soil Limitations:						
possibility of slopes greater than 25%, depth	to rock, Heavy Clays					
Protection of EDF and REDF areas:						
EDF and REDF will be staked and flagged. An	other necessary measur	es shall be taken to	protect the EDF and	REDF areas during de	evelopment and/or c	onstruction.
Site Modifications:						
Note: Site / lot modifications not approved by the Health Department.	in the SPP within 25 feet o	of the proposed OSS	o <mark>r EDF replacement a</mark>	<mark>rea will require a detai</mark>	led professional evalu	Jation as determined
Recommendations:						
Actual lot sizes (excluding easement, rights of v	rays, etc.)					
See Individual Lot Information on following pag	25					

Lot /Block: Lot Si	ze System Type: Re	estrictive Layer Depth	•	Lot Approval Conditions:
Perc rate range	Perc depth range: T	ype of Restriction:	MVS:	,
1/	*Shallow Conventional	29		Permitted for Conventional Shallow Placement-Add 7 Inches of approved fill, then excavate trenches to 22"-24" in new ground surface. Landscape area for adequate drainage.
70	24	Other ]	12	
10 /	*Conventional	36		PERMITTED for Conventional System.
65	24	Other	12	·
11 /	*Shallow Conventional	24		Permitted for Conventional Shallow Placement-Add 12 Inches of approved fill, then excavate trenches to 22"-24" in new ground surface. Landscape area for adequate drainage.
65	24	Other	12	
12 /	*Engineered - Other	20		NOT APPROVED due to soil conditions found during Health Dept. Site Visit. Reported data does not agree with field findings.
75	24	Rock	18	
13 /	*Conventional	38		PERMITTED for Conventional System.
55	24	Other	12	
14/	*Shallow Conventional	38		Permitted for Conventional Shallow Placement-Add 4 Inches of approved fill, then excavate trenches to 22"-24" in new ground surface. Landscape area for adequate drainage.
55	24	Other	18	
15 /	*Engineered - Other	25		NOT APPROVED due to soil conditions found during Health Dept. Site Visit. Reported data does not agree with field findings.
65	24	ASHES	18	
16 /	*Shallow Conventional	35	,	Permitted for Conventional Shallow Placement-Add 7 Inches of approved fill, then excavate trenches to 22"-24" in new ground surface. Landscape area for adequate drainage.
75	24	ASHES	18	
17/	*Shallow Conventional	36	-	Permitted for Conventional Shallow Placement-Add 8 Inches of approved fill, then excavate trenches to 22"-24" in new ground surface. Landscape area for adequate drainage.
75	24	ASHES	18	

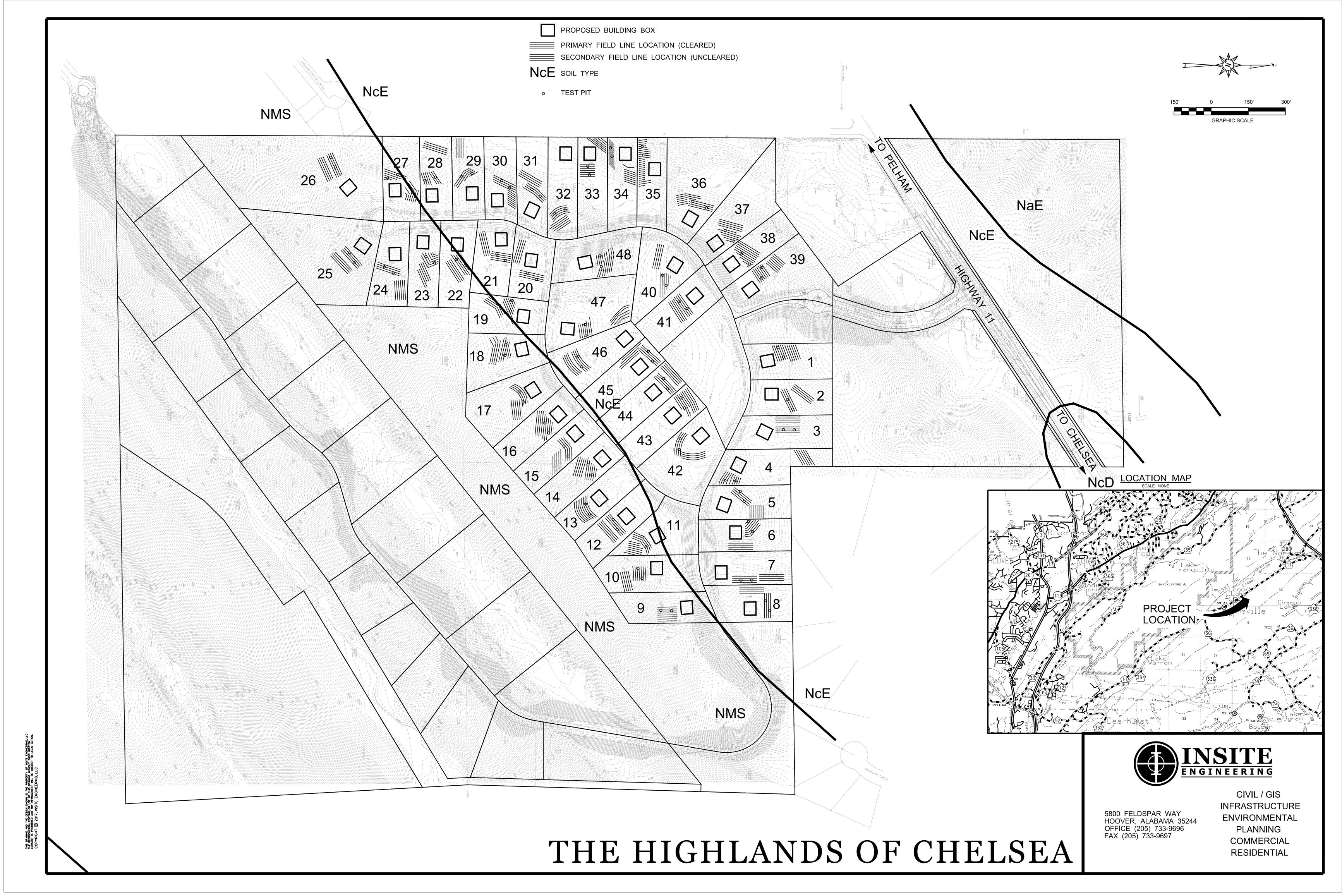
Lot /	Block: Lot Size	System Type:	Restrictive Layer Dep	th:	Lot Approval Conditions:
	Perc rate range:	Perc depth range:	Type of Restriction:	MVS:	
18 /		*Shallow Convention	al 38		Permitted for Conventional Shallow Placement-Add 4 Inches of approved fill, then excavate trenches to 22"-24" in new ground surface. Landscape area for adequate drainage.
	80	24	ASHES	<u> 18</u> ]	
19 /		*Shallow Convention	al 36		Permitted for Conventional Shallow Placement-Add. 6 Inches of approved fill, then excavate trenches to 22"-24" in new ground surface. Landscape area for adequate drainage.
	80	24	ASHES	18	
21		Shallow Conventions	al 27	•	Permitted for Conventional Shallow Placement-Add 11 Inches of approved fill, then excavate trenches to 22"-24" in new ground surface. Landscape area for adequate drainage.
<b>***</b>	70	24	ASHES	<u>[18]</u>	
20 /		*Shallow Convention	al 36		Permitted for Conventional Shallow Placement-Add 6 Inches of approved fill, then excavate trenches to 22"-24" in new ground surface. Landscape area for adequate drainage.
	75		ASHES	18	
21 /		*Shallow Convention	al 32		Permitted for Conventional Shallow Placement-Add 10 Inches of approved fill, then excavate trenches to 22"-24" in new ground surface. Landscape area for adequate drainage.
	85	24	ASHES ]	18	
22 /		*Shallow Convention	al 28		Permitted for Conventional Shallow Placement-Add 8 Inches of approved fill, then excavate trenches to 22"-24" in new ground surface. Landscape area for adequate drainage.
	55		Other	<u>[12]</u>	
23 /		*Engineered - Other	r 41		NOT APPROVED due to soil conditions found during Health Dept. Site Visit. Reported data does not agree with field findings.
	65	24	Other	<u> 12</u> ]	
24 /		*Shallow Convention	al 26		Permitted for Conventional Shallow Placement-Add 12 Inches of approved fill, then excavate trenches to 22"-24" in new ground surface. Landscape area for adequate drainage.
	80	24	ASHES	18	
25 /		*Shallow Convention	al 30		Permitted for Conventional Shallow Placement-Add 12 Inches of approved fill, then excavate trenches to 22"-24" in new ground surface. Landscape area for adequate drainage.
	80	24	ASHES	18	

Lot/Block:	Lot Size	System Type: Re	estrictive Layer Dept	h:	Lot Approval Conditions:
Perc ra	te range:	Perc depth range: T	ype of Restriction:	MVS:	
26 /		*Shallow Conventional	36		Permitted for Conventional Shallow Placement-Add 6 Inches of approved fill, then excavate trenches to 22"-24" in new ground surface. Landscape area for adequate drainage.
	60	24	ASHES	18	·
27 /		*Conventional	36		PERMITTED for Conventional System.
	80	24	Other	12	
28 /		*Shallow Conventional	36		Permitted for Conventional Shallow Placement-Add 6 Inches of approved fill, then excavate trenches to 22"-24" in new ground surface. Landscape area for adequate drainage.
	60	24	ASHES	18	
29 /		*Engineered - Other	25		NOT APPROVED due to soil conditions found during Health Dept. Site Visit. Reported data does not agree with field findings.
	55	12	Rock	18 ]	<b>(</b>
3 /		*Shallow Conventional	32		Permitted for Engineered Shallow Placement-Add 10 Inches of approved fill, then excavate trenches to 22"-24" in new ground surface. Landscape area for adequate drainage.
1	80 ]	24	ASHES	18	<b>'</b>
30 /		*Conventional	36		PERMITTED for Conventional System.
	80	24	Other	12	
31 /		*Engineered - Other	19		NOT APPROVED due to soil conditions found during Health Dept. Site Visit. Reported data does not agree with field findings.
	35	12	Other	18	
32 /		*Engineered - Other	22		NOT APPROVED due to soil conditions found during Health Dept. Site Visit. Reported data does not agree with field findings.
	80	24	Other	12	
33 /		*Conventional	42		PERMITTED for Conventional System.
	65	24	Other	18	

Lot/Block:	Lot Size	System Type:	Restrictive Layer Deptl	h:	Lot Approval Conditions:
Perc ra	te range:	Perc depth range:	Type of Restriction:	MVS:	
34 /		*Shallow Conventiona	i 32		Permitted for Conventional Shallow Placement-Add 4 inches of approved fill, then excavate trenches to 22"-24" in new ground surface. Landscape area for adequate drainage.
	30	12	Other	12	·
35 /		*Shallow Conventiona	l 26		Permitted for Conventional Shallow Placement-Add 12 Inches of approved fill, then excavate trenches to 22"-24" in new ground surface. Landscape area for adequate drainage.
	80	24	ASHES	18	1
36 /		*Shallow Conventiona	l 26		Permitted for Conventional Shallow Placement-Add 12 Inches of approved fill, then excavate trenches to 22"-24" in new ground surface. Landscape area for adequate drainage.
	80	16	ASHES	18 ]	<u>i</u>
37 /		*Shallow Conventiona	l 28		Permitted for Conventional Shallow Placement-Add 12 Inches of approved fill, then excavate trenches to 22"-24" in new ground surface. Landscape area for adequate drainage.
!— - !	80	24	ASHES	18	
38 /		*Shallow Conventiona	l 26		Permitted for Conventional Shallow Placement-Add 12 Inches of approved fill, then excavate trenches to 22"-24" in new ground surface. Landscape area for adequate drainage.
, I—-	80	24	ASHES	18	
39 /		*Shallow Conventiona	l 26		Permitted for Conventional Shallow Placement-Add 12 Inches of approved fill, then excavate trenches to 22"-24" in new ground surface. Landscape area for adequate drainage.
	80	14	ASHES	18	
41		*Shallow Conventiona	26		Permitted for Conventional Shallow Placement-Add 10 Inches of approved fill, then excavate trenches to 22"-24" in new ground surface. Landscape area for adequate drainage.
ļ	75	20	Other	12	
40 /		*Shallow Conventiona	i 36		Permitted for Conventional Shallow Placement-Add 6 Inches of approved fill, then excavate trenches to 22"-24" in new ground surface. Landscape area for adequate drainage.
1	55	24	ASHES	18	
41 /		*Shallow Conventiona	i 36		Permitted for Conventional Shallow Placement-Add 6 Inches of approved fill, then excavate trenches to 22"-24" in new ground surface. Landscape area for adequate drainage.
	60	24	ASHES	18	

Lot/Block:	Lot Size	System Type:	Restrictive Layer Dep	oth:	Lot Approval Conditions:
Perc rate	range:	Perc depth range:	Type of Restriction:	MVS:	
42 /		*Shallow Conventional	33		Permitted for Conventional Shallow Placement-Add 9 Inches of approved fill, then excavate trenches to 22"-24" in new ground surface. Landscape area for adequate drainage.
	30	24	ASHES	18	i ;
43 /		*Engineered - Other	20		NOT APPROVED due to soil conditions found during Health Dept. Site Visit. Reported data does not agree with field findings.
6	50	14	ASHES	18	
44 /		*Shallow Conventional	24		Permitted for Conventional Shallow Placement-Add 12 Inches of approved fill, then excavate trenches to 22"-24" in new ground surface. Landscape area for adequate drainage.
6	55	21	Other	<b>12</b> ]	
45 /		*Shallow Conventional	26		Permitted for Conventional Shallow Placement-Add 12 Inches of approved fill, then excavate trenches to 22"-24" in new ground surface. Landscape area for adequate drainage.
	0	12	ASHES	<u> 18</u> ]	
46 /		*Shallow Conventional	26		Permitted for Conventional Shallow Placement-Add 112 Inches of approved fill, then excavate trenches to 22"-24" in new ground surface. Landscape area for adequate drainage.
	75	24	ASHES	18	
47 /		*Shallow Conventional	27		Permitted for Conventional Shallow Placement-Add 12 Inches of approved fill, then excavate trenches to 22"-24" in new ground surface. Landscape area for adequate drainage.
	55	24	ASHES	18	
48 /		*Shallow Conventional	32		Permitted for Conventional Shallow Placement-Add 10 Inches of approved fill, then excavate trenches to 22"-24" in new ground surface. Landscape area for adequate drainage.
	0	14	ASHES	18	
51		*Shallow Conventional	31		Permitted for Conventional Shallow Placement-Add 9 Inches of approved fill, then excavate trenches to 22"-24" in new ground surface. Landscape area for adequate drainage.
	75	24	ASHES	18	
6 /		*Conventional	43		PERMITTED for Conventional System.
	55	24	Other	18	
	<u> </u>				
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Lot	Block: Lot Siz	System Type: Restrictive Layer Depth:	Lot Approval Conditions:
	Perc rate range:	Perc depth range: Type of Restriction: MVS:	
7 /		*Shallow Conventional 38	Permitted for Engineered Shallow Placement-Add 4 Inches of approved fill, then excavate trenches to 22"-24" in new ground surface. Landscape area for adequate drainage.
	75	21 ASHES 18	
8 /		*Shallow Conventional 36	Permitted for Conventional Shallow Placement-Add 6 Inches of approved fill, then excavate trenches to 22"-24" in new ground surface. Landscape area for adequate drainage.
	75	24 ASHES 18 18	
9 /		*Shallow Conventional 32	Permitted for Conventional Shallow Placement-Add 4 Inches of approved fill, then excavate trenches to 22"-24" in new ground surface. Landscape area for adequate drainage.
	55	12 Other 12	



HORIZON	DEPTH (in.)	COLOR	TEXTURE	OIL BORE DESCRIPTI   MOTTLES		RATE min/in.
		LOT 1-SB1			Kind-Depth	Commentional
4	0-6	10YR 3/3	Fine sandy loam			Conventional
Ē	6-10	10YR 5/4	Fine sandy loam			
3t1	10-15	7.5YR 5/6	Clay loam			70 @ 24 in.
3t2 3t3	15-26 26-43	5YR 5/6 5YR 5/6	Clay Clay	7.5YR 5/6, 10YR 5/3		
C	43-57	10YR 6/8	Silty Clay	10YR 7/2, 7.5YR 5/6		
Cr	57-60	Multicolored	Weathered Shale		Cr @ 57 in.	
		Y OT 4 CDA				
4	0-6	LOT 1-SB2 10YR 3/3	Fine sandy loam	+		
Ē	6-15	10YR 5/4	Fine sandy loam			60 @ 24 in.
Bt1	15-30	5YR 5/6	Silty clay loam	10YR 6/6		
Bt2	30-45 45-57	7.5YR 5/6 10YR 6/8	Silty clay loam Silty clay	10YR 7/2, 2.5YR 5/6		
	45-57	101K 0/8	Sity Clay			
		LOT 2-SB1				Conventional
<b>A</b> E	0-5 5-12	10YR 3/4 10YR 5/8	Fine sandy loam Fine sandy loam			
Bt1	12-20	7.5YR 5/6	Silty clay loam	7.5YR 5/6		
Bt2	20-42	2.5YR 4/6	Clay	7.5YR 5/6, 10YR 6/2		70 @ 24 in.
C	42-60	2.5YR 4/6	Clay			
	<del>-  </del>	LOT 2 –SB2	+	1		1
A	0-8	10YR 3/3	Fine sandy loam			<del> </del>
E	8-13	10YR 5/4	Fine sandy loam			70 @ 24 in.
Bt1	13-25	5YR 5/6 2.5YR 5/6	Silty clay	7.5YR 5/6, 10YR 7/2		
Bt2 C	25-55 55-65	7.5YR 5/6	Clay Clay	10YR 7/2, 5YR 5/6		
		LOT 3-SB1				Conventional
A	0-6	10YR 3/3	Fine sandy loam			
Bt1 Bt2	6-14 14-28	10YR 5/6 7.5YR 5/6	Clay loam Silty clay	10YR 5/6, 10YR 5/3		80 @ 24 in.
Bt3	28-42	7.5YR 5/6	Silty clay loam	10YR 5/6, 10YR 7/2		00 (ii) 24 iii.
C	42-54	5YR 5/6	Silty clay loam	10YR 5/6, 10YR 7/2		
Cr	54-60	Multicolored	Soft shale/ tilted		Cr @ 54 in.	
		LOT 3 –SB2				
A	0-5	10YR 3/3	Fine sandy loam			
E	5-9	10YR 5/6	Fine sandy loam			80 @ 24 in.
Bt1	9-26	5YR 5/8	Clay			
Bt2 C	26-46 46-60	5YR 5/6 Silty clay	Silty clay Silty clay	7.5YR 5/6 5YR 5/6, 7.5YR 5/8		
	40-00	Sitty Clay	Sity tiay	31R 3/0, 7.31R 3/6		
		LOT 4 CD4				G 4
		LOT 4-SB1				Convent-
A	0-5	10YR 4/3	Fine sandy loam			Shallow
Bt1	5-10	10YR 5/6	Silty clay loam			
Bt2	10-24	5YR 5/6	Silty clay loam +	10YR 5/6, 10YR 5/3		75 @ 20 in.
Bt3	24-32	5YR 5/6	Silty clay	10YR 5/6, 10YR 7/2	G- 0.22.1-	
Cr	32-55	Multicolored	Soft shale		Cr @ 32 in.	
		LOT 4-SB2				
A	0-5	10YR 3/4	Fine sandy loam			
E	5-11	7.5YR 5/6	Fine sandy loam	1000 516		75 @ 24 in.
Bt1 Bt2	11-25 25 36	7.5YR 5/8 7.5YR 5/8	Clay Silty clay	10YR 5/6 10YR 5/8		
Cr	36-55	10YR 7/2, 7.5YR 5/6	Shale	2022	Cr @ 36 in.	
		LOT 5-SB1				Conventional
A	0-4	10YR 3/4	Fine sandy loam			
E	4-12	10YR 5/6	Loam			
Bt PC	12-30	5YR 5/6	Silty clay loam	10VD 5/6 2 5VD 5/6 10VD 5/9		75 @ 24 in
BC C	30-42 42-53	5YR 5/6 10YR 5/6	Silty clay Silty clay	10YR 5/6, 2.5YR 5/6, 10YR 7/2 7.5YR 5/6, 10YR 7/2		<del>                                     </del>
Cr	53-60	Multicolored	Soft shale		Cr @ 53 in.	1
		LOT 5-SB2				
A	0-5	10YR4/3	Fine sandy loam			77.024
E Bt1	5-10 10-25	10YR 5/6 7.5YR 5/8	Fine sandy loam Clay	10YR 5/6		75 @ 24 in
Bt2	25 47	10YR 6/1	Silty clay	7.5YR 5/8, 2.5YR 4/6		
Cr	47-60	multicolored	Shale/ Sandstone	·	Cr @ 47 in.	
		LOT 6-SB1		+		Conventional
A1	0-5	10YR 4/2	Loam	1		Conventional
A2	5-9	7.5YR 4/4	Loam			
	9-18	7.5YR 4/6	Loam			
Bt1						
Bt1 Bt2 Bt3	18-29 29-46	2.5YR 5/8 2.5YR 4/6	Clay loam Clay loam	7.5YR 5/6,		55 @ 24 in.

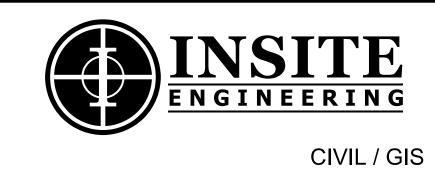
E	4-10	10YR 5/4	Silt loam			
A	0-4	10YR 3/3	Silt loam			Shallow
		LOT 12-SB1				Convent-
C Cr	40-54 54-60	7.5YR 5/6 Multicolored	Clay Shale	2.5YR 4/6, 10YR 7/2	Cr @ 54 in	
Bt	14-40	7.5YR 5/6	Silty clay loam +	2 5VD 4/6 10VD 5/3		65 @ 24 in.
A BE	0-5 5-14	10YR 3/4 10YR 6/6	Fine sandy loam Loam			
		LOT 11 -SB2				
Cr	41-60	Multicolored	Shale/ sandstone		Cr @ 41 in.	
Bt2	28-41	10YR 6/6	Clay loam Shaly clay	2.5YR 4/6, 10YR 6/4		05 @ 24 m.
E Bt1	6-16 16-28	10YR 5/4 7.5YR 4/6	Cobbly fine sandy loam			65 @ 24 in.
A	0-6	10YR 3/4	Cobbly fine sandy loam			Conventional
		LOT 11-SB1				Conventional
Cr	36-60	Multicolored	Shale		Cr @ 36 in.	
Bt1 Bt2	13-18 18-36	7.5YR 5/6 5YR 5/8	Silty clay loam Shaly clay			65 @ 24 in.
E	6-13	10YR 5/4	Fine sandy loam			
A	0-6	LOT 10 -SB2 10YR 4/3	Fine sandy loam			
Bt3 Cr	35-55 55-60	7.5YR 5/8 Multicolored	Gravelly clay loam Shale/ sandstone		Cr @ 55 in.	
Bt2	25-35	7.5YR 5/6	Sandy clay loam			50 @ 24 in.
A Bt1	0-14 14-25	10YR 4/3 10YR 5/6	Cobbly fine sandy loam Loam	<u> </u>		<u> </u>
	0.14	LOT 10-SB1	Cabble for a second			Conventional
Cr	8-18 18-60	Multicolored	Fractured shale		Cr @ 18 in.	55@ 12 in.
A Bt	0-8 8-18	10YR 3/3 10YR 5/6	Gravelly fine sandy loam Clay loam			55@ 12 in
		LOT 9 –SB2				
Cr	60+	Multicolored	Shale/ Sandstone		Cr @ 60 in.	_
Bt2	42-60	7.5YR 5/8	Gravelly clay loam			33 (W) 24 III.
BE Bt1	8-18 18-42	10YR 5/4 7.YR 5/6	Loam Cobbly clay loam			55 @ 24 in.
A	0-8	10YR 3/3	Cobbly fine sandy loam	<u> </u>		Design
		LOT 9-SB1				Engineer- Design
		LOTACRA				F
Cr	60+		Soft Shale	,	\$2.5	
Bt2 C	23-42 42-60	7.5YR 5/6 Multicolored	Clay Clay	2.5YR 4/6 2.5YR 4/6, 10YR 6/2	Cr @ 60 in.	75 @ 24 in
Bt1	12-23	7.5YR 5/6	Silty clay			
A E	0-6 6-12	10YR 3/4 10YR 5/4	Fine sandy loam Fine sandy loam			
		LOT 8 -SB2	70			
DIE	33-33	/.SIR J/0	Ciay	2.51K 4/0, 101K 0/2		<u> </u>
Bt1 Bt2	13-35 35-55	10YR 5/6 7.5YR 5/8	Clay loam Clay	2.5YR 4/6, 10YR 6/2		65 @ 24 in.
A BE	7-13	10YR 5/6	Fine sandy loam Fine sandy loam			
	0-7	LOT 8-SB1 10YR 3/4	Fine sandy loam			Conventional
		I OT 0 CD				
Bt2	39-60	10YR 5/6	Clay	10YR 6/2 (REDOX)		
E Bt1	5-14 14-39	10YR 5/4 10YR 5/6	Loam Clay		Redox @ 39 in.	75 @ 21 in
A	0-5	10YR 3/3	Fine sandy loam			
		LOT 7 –SB2				
С	53-60	10YR 5/2 (REDOX)	Clay loam		Redox @ 53 in.	
Bt2	28-53	10YR 6/6	Clay loam Clay loam			
BE Bt1	5-11 11-28	10YR 6/6 7.5YR 5/6	Loam Clay loam			60 @ 24 in
A	0-5	10YR 4/3	Fine sandy loam			Shanow
		LOT 7-SB1				Convent- Shallow
Bt3	40-51	2.5YR 4/6	Clay loam			T Y
Bt1 Bt2	12-22 22-40	7.5YR 4/6 2.5YR 5/8	Loam Clay loam			55 @ 24 in.
E	5-12	7.5YR 4/4	Loam			
A	0-5	10YR 4/2	Loam			
		LOT 6-SB2				

Bt1 Bt2	10-24 24-39	7.5YR 5/6 7.5YR 4/6	Clay loam Silty clay	5YR 5/6		75 @ 24 in.
	39-60	Multicolored	Shale/ sandstone	51K 5/6	Cr @ 39 in.	/5 @ 24 III.
Cr	39-00	Municolored	Shale/ sandstone		Cr (a) 39 m.	
		LOT 12 CD2				
A	0-6	LOT 12 –SB2 10YR 3/4	Gravelly loam			
Bt	6-24	101R 5/4 10YR 5/6	Silty clay loam +	5YR 5/6		65 @ 12 in.
Cr	24-60	Multi-colored	Soft tilted shale	31K 3/0	Cr @ 24 in.	05 (t) 12 m.
	21.00	William Colored	Soft tifted same		C1 (0) 21 III	
		LOT 13-SB1				Conventional
A	0-7	10YR 3/4	Cobbly fine sandy loam			
Bt1	7-21	10YR 6/6	Loam			** ***
Bt2	21-40	7.5YR 5/6	Gravelly clay loam	FVD F/C		55 @ 24 in.
C Cr	40-55 55-60	10YR 6/6 Multi-colored	Gravelly clay Soft tilted shale	5YR 5/6	Cr @ 55 in.	
CI	33-00	With Colored	Soft tiffed shale		CI (a) 55 III.	
		LOT 13 -SB2				
A	0-5	10YR 4/3	Cobbly fine sandy loam			
BE	5-12	10YR 6/6	Sandy loam			55 @ 24 in.
Bt	12-35	7.5YR 4/6	Very cobbly clay loam			- CC (C) 211M
С	35-55	10YR 5/6	Very cobbly sandy clay			
			loam			
		LOT 14-SB1				Conventional
A	0-7	10YR 3/4	Fine sandy loam		†	
Bt1	7-20	10YR 6/6	Loam			
Bt2	40-45	10YR 5/6	Clay loam			55 @ 24 in.
C	45-56	10YR 5/8	Clay loam	10YR 6/3		
Cr	56-60	Multicolored	Shale		Cr @ 56 in.	
		LOT 14 -SB2				
A	0-6	10YR 3/4	Gravelly fine sandy loam			
Bt1	6-18	10YR 6/6	Sandy loam			55 @ 24 in.
Bt2	18-46	10YR 5/8	Clay loam			<u> </u>
BC	46-60	10YR 5/8	Gravelly clay loam	10YR 6/2, 7.5YR 5/6, common	Redox @ 46 in.	
				Mn	1	1
		LOT 15-SB1				Conventional
A	0-6	10YR 4/3	Gravelly fine sandy loam			
BE	6-12	10YR 5/4	Fine sandy loam			
Bt1	12-36	7.5YR 5/6	Clay loam		<b>_</b>	55 @ 24 in.
Bt2	36-55	7.5YR 5/6	Clay loam-	5YR 5/6	Cr @ 55 in.	
Cr	55-60	Multi-colored	Soft tilted shale		_	ļ
		V 0 m 4 5			1	ļ
		LOT 15 -SB2				
A D4	0-8	10YR 3/4	Gravelly fine sandy loam		1	65 @ 24 !-
Bt	8-28	7.5YR 5/6	Clay loam	## ## ## ## ## ## ## ## ## ## ## ## ##	0.0351	65 @ 24 in.
BC	28-37 37-60	10YR 6/6 Multi-colored	Shaly clay Soft tilted shale	5YR 5/6	Cr @ 37 in.	
Cr	37-00	Muiti-colored	Soft threa shale			
						Conventional
		LOT 16-SB1				
A	0-7	10YR 3/4	Gravelly sandy loam			
E	7-15	10YR 5/6	Fine sandy loam			
Bt1	15-31	7.5YR 5/6	Clay loam			75 @ 24 in.
Bt2	31-45	7.5YR 5/6	Clay	10YR 6/6, 10YR 6/2		
Bt3	45-60	5YR 5/6	Clay			
		LOT 16 -SB2				ļ
A	0-5	10YR 3/4	Gravelly sandy loam		1	(0 @ 2/:
E D+1	5-19	10YR 5/6	Sandy loam		1	60 @ 24 in.
Bt1 Bt2	19-30 30-46	7.5YR 5/6 7.5YR 5/6	Clay loam Clay loam	10YR 6/6, 10YR 5/6	Cr @ 46 in.	1
Cr	46-60	Multi-colored	Soft tilted	201K 0/0, 101K 3/0	C1 (10 40 III.	1
	.,,,,,	530100	shale/sandstone			
		LOT 17-SB1				Conventional
A	0-7	10YR 3/4	Sandy loam			
E	7-20	10YR 5/6	Fine sandy loam			
Bt1	20-35	7.5YR 5/6	Clay loam			75 @ 24 in.
Bt2	35-42	5YR 5/6	Clay	7.5YR 5/8		
BC	42-60	2.5YR 4/6	Shaly clay	7.5YR 5/6, 10YR 6/2	1	1
		LOT 17 CD2			+	1
A	0-7	LOT 17 -SB2 10YR 3/4	Gravelly sandy loam		1	1
E	7-19	10YR 5/6	Fine sandy loam		1	1
Bt1	19-36	7.5YR 5/6	Clay loam		1	60 @ 24 in.
Bt2	36-50	7.5YR 5/6	Silty clay loam	10YR 6/6, 10YR 6/4	+	30 to 27 III.
BC BC	50-57	10YR 6/6	Shaly clay	7.5YR 5/6		
Cr	57-60	Multi-colored	Soft tilted		Cr @ 57 in.	
			shale/sandstone			ļ
		LOT 18-SB1				

1	0-6	10YR 3/4	Fine sandy loam			
E	6-16	10YR 5/6	Loam			80 @ 24 in.
Bt1	16-28	7.5YR 5/6	Very cobbly clay loam	2.5VD 6/8	-	
Bt2 BC	28-42 42-60	5YR 5/6 5YR 4/6	Clay Clay	2.5YR 6/8 7.5YR 5/6, 10YR 6/2	1	
Cr	60+	Multi-colored	Soft tilted	//OIK 5/0, 10 IK 0/2	Cr @ 60 in.	1
			shale/sandstone			
		LOT 18 -SB2				
A	0-9	10YR 3/4	Fine sandy loam			
E	9-29	10YR 5/6	Fine sandy loam			
Bt1	29-33	10YR 5/8	Sandy clay loam			50 @ 24 in.
Bt2	33-53	7.5YR 5/6	Clay loam-			
Cr	53-60	Multi-colored	Soft tilted shale/sandstone		Cr @ 53 in.	
			snate/sandstone			
		LOT 19-SB1				Conventional
A	0-5	10YR 4/3	Fine sandy loam			Conventional
BE	5-16	10TR 4/3	Fine sandy loam			
Bt1	16-24	7.5YR 5/6	Silty clay loam			60 @ 24 in.
Bt2	24-40	5YR 5/6	Clay loam	10YR 6/6		
Cr	40-60	Multi-colored	Soft tilted shale		Cr @ 40 in.	
					-	
	0.5	LOT 19 –SB2	F2		-	
A E	0-6 6-21	10YR 4/3 10YR 5/4	Fine sandy loam Fine sandy loam		+	+
Bt1	21-35	5YR 5/6	Clay loam			80 @ 24 in.
Bt2	35-51	2.5YR 4/6	Clay	10YR 6/6		
Cr	51-60	Multi-colored	Soft tilted		Cr @ 51 in.	
			shale/sandstone		1	+
		LOT 20-SB1				Conventional
A						
BE Bt1		MOUND OF SOIL			1	
Bt2		MOUND OF SOIL			<u> </u>	
Cr						
		LOT 20 -SB2				
A	0-6	10YR 3/4	Fine sandy loam			
BE	6-14	10YR 5/6	Loam		-	75 @ 24 :
Bt1 Bt2	14-20 20-32	5YR 5/6 5YR 5/6	Clay loam+ Cobbly Clay loam		+	75 @ 24 in.
Bt3	32-40	2.5YR 5/6	Clay	10YR 6/6	<u> </u>	
Cr	40-60	Multi-colored	Soft tilted		Cr @ 40 in.	
			shale/sandstone			
		LOT 21-SB1				Conventional
A	0-6	10YR 3/3	Gravelly fine sandy loam			
BE	6-10	10YR 5/6	Loam			
Bt1	10-27	2.5YR 4/6	Clay			85 @ 24 in.
Bt2 BC	27-46 46-60	2.5YR 4/6 2.5YP 4/6 10VP 6/6 10VP 6/2	Clay		+	
ьс	40-00	2.5YR 4/6, 10YR 6/6, 10YR 6/2	Clay		+	
		LOT 21 -SB2				
	0-4	10YR 3/3	Fine sandy loam		<u> </u>	
A			Fine sandy loam			
A E	4-10	10YR 5/4				85 @ 24 in.
E Bt1	10-18	5YR 5/6	Clay loam			03 (t) 24 m.
E Bt1 Bt2	10-18 18-32	5YR 5/6 2.5YR 4/6	Clay	10YR 6/4		65 (a) 24 m.
E Bt1 Bt2 BC	10-18 18-32 32-44	5YR 5/6 2.5YR 4/6 2.5YR 4/6,	Clay Clay	10YR 6/4 10YR 6/6		03 (tč. 24 m.
E Bt1 Bt2	10-18 18-32	5YR 5/6 2.5YR 4/6	Clay			65 (a) 24 m.
E Bt1 Bt2 BC	10-18 18-32 32-44	5YR 5/6 2.5YR 4/6 2.5YR 4/6,	Clay Clay			65 (t), 24 III.
E Bt1 Bt2 BC	10-18 18-32 32-44	5YR 5/6 2.5YR 4/6 2.5YR 4/6, 2.5YR 4/6, 10YR 6/6, 10YR 6/2	Clay Clay			
E Bt1 Bt2 BC C	10-18 18-32 32-44 44-60	5YR 5/6 2.5YR 4/6 2.5YR 4/6, 2.5YR 4/6, 10YR 6/6, 10YR 6/2 LOT 22-SB1	Clay Clay Clay			Conventional
E Bt1 Bt2 Bc C C	10-18 18-32 32-44 44-60	5YR 5/6 2.5YR 4/6 2.5YR 4/6, 2.5YR 4/6, 10YR 6/6, 10YR 6/2 LOT 22-SB1 10YR 3/4	Clay Clay Clay Fine sandy loam			
E Bt1 Bt2 BC C	10-18 18-32 32-44 44-60	5YR 5/6 2.5YR 4/6 2.5YR 4/6, 2.5YR 4/6, 10YR 6/6, 10YR 6/2  LOT 22-SBI 10YR 3/4 10YR 6/6	Clay Clay Clay Fine sandy loam Sandy loam			Conventional
E Bt1 Bt2 BC C	10-18 18-32 32-44 44-60 	5YR 5/6 2.5YR 4/6 2.5YR 4/6, 2.5YR 4/6, 10YR 6/6, 10YR 6/2  LOT 22-SBI 10YR 3/4 10YR 5/6 10YR 5/8	Clay Clay Clay Fine sandy loam Sandy loam Clay loam	10YR 6/6		
E Bt1 Bt2 BC C	10-18 18-32 32-44 44-60	5YR 5/6 2.5YR 4/6 2.5YR 4/6, 2.5YR 4/6, 10YR 6/6, 10YR 6/2  LOT 22-SBI 10YR 3/4 10YR 6/6	Clay Clay Clay Fine sandy loam Sandy loam			Conventional
E Bt1 Bt2 BC C	10-18 18-32 32-44 44-60 	5YR 5/6 2.5YR 4/6 2.5YR 4/6, 2.5YR 4/6, 10YR 6/6, 10YR 6/2  LOT 22-SBI 10YR 3/4 10YR 5/8 10YR 5/8 LOT 22 -SBZ	Clay Clay Clay Clay Fine sandy loam Sandy loam Clay loam Shaly clay	10YR 6/6		Conventional
E Bt1 Bt2 BC C A A Bt1 Bt2 BC A A	10-18 18-32 32-44 44-60 0-7 7-19 19-40 40-60 0-7	5YR 5/6 2.5YR 4/6 2.5YR 4/6, 2.5YR 4/6, 10YR 6/6, 10YR 6/2  LOT 22-SB1 10YR 3/4 10YR 6/6 10YR 5/8 10YR 5/8 10YR 5/8 10YR 5/8	Clay Clay Clay Clay  Fine sandy loam Sandy loam Clay loam Shaly clay  Fine sandy loam	10YR 6/6		Conventional 55 @ 24 in.
E Bt1 Bt2 BC C A Bt1 Bt2 BC A Bt1 Bt2 BC	10-18 18-32 32-44 44-60  0-7 7-19 19-40 40-60	5YR 5/6 2.5YR 4/6 2.5YR 4/6, 2.5YR 4/6, 10YR 6/6, 10YR 6/2  LOT 22-SB1 10YR 3/4 10YR 6/6 10YR 5/8 10YR 5/8 10YR 5/8	Clay Clay Clay Clay Fine sandy loam Sandy loam Clay loam Shaly clay Fine sandy loam Fine sandy loam	10YR 6/6		Conventional
E Bt1 Bt2 Bt2 BC C C A A Bt1 Bt2 BC A BE BE Bt	10-18 18-32 32-44 44-60 0-7 7-19 19-40 40-60 0-7 7-18 18-40	5YR 5/6  2.5YR 4/6  2.5YR 4/6,  2.5YR 4/6, 10YR 6/6, 10YR 6/2  LOT 22-SBI  10YR 3/4  10YR 6/6  10YR 5/8  LOT 22 -SB2  10YR 3/4  10YR 5/4  10YR 5/4  10YR 5/4	Clay Clay Clay Clay  Fine sandy loam Sandy loam Clay loam Shaly clay  Fine sandy loam Fine sandy loam Clay loam	2.5YR 4/6, 5YR 4/6, 10YR 6/3		Conventional 55 @ 24 in.
E Bt1 Bt2 Bt2 C C A A Bt1 Bt2 Bt2 Bt2 Bt4 Bt4 Bt4 Bt4 Bt4 Bt4 Bt4 Bt5 Bt5 Bt5 Bt5 Bt6 Bt6 Bt7	10-18 18-32 32-44 44-60  0-7 7-19 19-40 40-60	5YR 5/6 2.5YR 4/6 2.5YR 4/6, 2.5YR 4/6, 10YR 6/6, 10YR 6/2  LOT 22-SB1 10YR 3/4 10YR 6/6 10YR 5/8 10YR 5/8 10YR 5/8	Clay Clay Clay Clay Fine sandy loam Sandy loam Clay loam Shaly clay Fine sandy loam Fine sandy loam	10YR 6/6		Conventional 55 @ 24 in.
E Bt1 Bt2 BC C  A Bt1 Bt2 BC C  A Bt1 Bt2 BC	10-18 18-32 32-44 44-60 0-7 7-19 19-40 40-60 0-7 7-18 18-40	5YR 5/6  2.5YR 4/6  2.5YR 4/6,  2.5YR 4/6, 10YR 6/6, 10YR 6/2  LOT 22-SBI  10YR 3/4  10YR 6/6  10YR 5/8  LOT 22 -SB2  10YR 3/4  10YR 5/4  10YR 5/4  10YR 5/4	Clay Clay Clay Clay  Fine sandy loam Sandy loam Clay loam Shaly clay  Fine sandy loam Fine sandy loam Clay loam	2.5YR 4/6, 5YR 4/6, 10YR 6/3		Conventional 55 @ 24 in.
E Bt1 Bt2 Bt2 BC C  A Bt1 Bt2 Bt2 BC A Bt1 Bt2 BC	10-18 18-32 32-44 44-60 0-7 7-19 19-40 40-60 0-7 7-18 18-40	5YR 5/6 2.5YR 4/6, 2.5YR 4/6, 2.5YR 4/6, 10YR 6/6, 10YR 6/2  LOT 22-SB1 10YR 3/4 10YR 5/6 10YR 5/8 10YR 5/8 10YR 5/8 5YR 4/6, 10YR 5/4 10YR 5/4 10YR 5/4	Clay Clay Clay Clay  Fine sandy loam Sandy loam Clay loam Shaly clay  Fine sandy loam Fine sandy loam Clay loam	2.5YR 4/6, 5YR 4/6, 10YR 6/3		Conventional 55 @ 24 in.
E Bt1 Bt2 BC C A Bt1 Bt2 BC A BE Bt BC Bt Bt BC Bt Bt Bt Bt BC	10-18 18-32 32-44 44-60  0-7 7-19 19-40 40-60  0-7 7-18 18-40 40-60	5YR 5/6 2.5YR 4/6, 2.5YR 4/6, 2.5YR 4/6, 10YR 6/6, 10YR 6/2  LOT 22-SBI 10YR 3/4 10YR 5/8 10YR 5/8  LOT 22 -SB2 10YR 3/4 10YR 5/8  LOT 22 -SB2 10YR 3/4 10YR 5/8  LOT 22 -SB2 10YR 3/4 10YR 5/8 5YR 4/6,	Clay Clay Clay Clay Clay Fine sandy loam Sandy loam Clay loam Shaly clay Fine sandy loam Fine sandy loam Fine sandy loam Gravelly clay loam Gravelly clay loam	2.5YR 4/6, 5YR 4/6, 10YR 6/3		Conventional 55 @ 24 in.
E Bt1 Bt2 BC C C A A Bt1 Bt2 BC BC BC BC BC BC BC A A A B BE Bt BC BC BC BC BC BC BC A A A BC	10-18 18-32 32-44 44-60  0-7 7-19 19-40 40-60  0-7 7-18 18-40 40-60	5YR 5/6 2.5YR 4/6, 2.5YR 4/6, 2.5YR 4/6, 10YR 6/6, 10YR 6/6, 10YR 6/2  LOT 22-SB1 10YR 3/4 10YR 5/8 10YR 5/8 10YR 5/8  LOT 22 -SB2 10YR 5/8  LOT 23 -SB1 10YR 5/4 10YR 5/4 10YR 5/4 10YR 5/8 5YR 4/6,	Clay Clay Clay Clay Clay  Fine sandy loam Sandy loam Clay loam Shaly clay  Fine sandy loam Fine sandy loam Clay loam Clay loam Clay loam Clay loam Fine sandy loam Clay loam Clay loam	2.5YR 4/6, 5YR 4/6, 10YR 6/3		Conventional 55 @ 24 in. 55 @ 24 in.
E Bt1 Bt2 BC C C A Bt1 Bt2 BC A BE Bt BC BC A BE BT BC	10-18 18-32 32-44 44-60  0-7 7-19 19-40 40-60  0-7 7-18 18-40 40-60	5YR 5/6 2.5YR 4/6, 2.5YR 4/6, 2.5YR 4/6, 10YR 6/6, 10YR 6/2  LOT 22-SB1 10YR 3/4 10YR 6/6 10YR 5/8 10YR 5/8  LOT 22 -SB2 10YR 3/4 10YR 5/4 10YR 5/4 10YR 5/8  5YR 4/6,  LOT 23 -SB1 10YR 3/4 10YR 5/8	Clay Clay Clay Clay Clay Clay Fine sandy loam Sandy loam Clay loam Shaly clay Fine sandy loam Fine sandy loam Clay loam Gravelly clay loam Fine sandy loam Clay loam Gravelly clay loam	2.5YR 4/6, 5YR 4/6, 10YR 6/3		Conventional 55 @ 24 in.
E Bt1 Bt2 Bt2 BC C C A A Bt1 Bt2 BC A BE Bt BC A A Bt A Bt BC BT A BC BC Bt A A BC BC BT A BC BC BT A A BC BC BT BT BC BT A A BC BC BT BT BC BT BT BC BT BT BC A A A A A A A A A A A A A A A A A A	10-18 18-32 32-44 44-60  0-7 7-19 19-40 40-60  0-7 7-18 18-40 40-60	5YR 5/6 2.5YR 4/6, 2.5YR 4/6, 2.5YR 4/6, 10YR 6/6, 10YR 6/6, 10YR 6/2  LOT 22-SB1 10YR 3/4 10YR 5/8 10YR 5/8 10YR 5/8  LOT 22 -SB2 10YR 5/8  LOT 23 -SB1 10YR 5/4 10YR 5/4 10YR 5/4 10YR 5/8 5YR 4/6,	Clay Clay Clay Clay Clay  Fine sandy loam Sandy loam Clay loam Shaly clay  Fine sandy loam Fine sandy loam Clay loam Clay loam Clay loam Clay loam Fine sandy loam Clay loam Clay loam	2.5YR 4/6, 5YR 4/6, 10YR 6/3		Conventional 55 @ 24 in. 55 @ 24 in.
E Bt1 Bt2 Bt2 BC C C A A Bt1 Bt2 BC A BE Bt BC BC Bt Bt BC BC Bt Bt BC BT Bt BC BT	10-18 18-32 32-44 44-60  0-7 7-19 19-40 40-60  0-7 7-18 18-40 40-60  0-5 5-10 10-25	5YR 5/6  2.5YR 4/6  2.5YR 4/6,  2.5YR 4/6, 10YR 6/6, 10YR 6/2  LOT 22-SBI  10YR 3/4  10YR 5/8  10YR 5/8  LOT 22 -SBZ  10YR 3/4  10YR 5/8  LOT 22 -SBZ  10YR 3/4  10YR 5/8  LOT 22 -SBZ  10YR 3/4  10YR 5/4  10YR 5/6  5YR 4/6,	Clay Clay Clay Clay Clay Clay  Fine sandy loam Sandy loam Clay loam Shaly clay  Fine sandy loam Fine sandy loam Fine sandy loam Clay loam Gravelly clay loam  Fine sandy loam Gravelly clay loam  Clay loam Shaly clay Shaly clay	2.5YR 4/6, 5YR 4/6, 10YR 6/3 7.5YR 5/6, 10YR 6/6	Cr @ 41 in.	Conventional 55 @ 24 in. 55 @ 24 in.
E Bt1 Bt2 Bt2 BC C C A A Bt1 Bt2 BC A BE Bt BC	10-18 18-32 32-44 44-60  0-7 7-19 19-40 40-60  0-7 7-18 18-40 40-60  0-5 5-10 10-25 25-41	5YR 5/6 2.5YR 4/6, 2.5YR 4/6, 2.5YR 4/6, 10YR 6/6, 10YR 6/2  LOT 22-SB1 10YR 3/4 10YR 5/8 10YR 5/8 10YR 5/8  LOT 22 -SB2 10YR 5/4 10YR 5/4 10YR 5/4 10YR 5/4 10YR 5/8 5YR 4/6,  LOT 23 -SB1 10YR 5/8 5YR 4/6,	Clay Clay Clay Clay Clay Clay Clay Clay	2.5YR 4/6, 5YR 4/6, 10YR 6/3 7.5YR 5/6, 10YR 6/6	Cr @ 41 in.	Conventional 55 @ 24 in. 55 @ 24 in.
E Bt1 Bt2 Bt2 Bt2 BC C C A A Bt1 Bt2 BC A BE Bt Bt BC	10-18 18-32 32-44 44-60  0-7 7-19 19-40 40-60  0-7 7-18 18-40 40-60  0-5 5-10 10-25 25-41	5YR 5/6 2.5YR 4/6, 2.5YR 4/6, 2.5YR 4/6, 10YR 6/6, 10YR 6/2  LOT 22-SB1 10YR 3/4 10YR 5/8 10YR 5/8 10YR 5/8  LOT 22 -SB2 10YR 5/4 10YR 5/4 10YR 5/4 10YR 5/4 10YR 5/8 5YR 4/6,  LOT 23 -SB1 10YR 5/8 5YR 4/6,	Clay Clay Clay Clay Clay Clay  Fine sandy loam Sandy loam Clay loam Shaly clay  Fine sandy loam Fine sandy loam Fine sandy loam Clay loam Gravelly clay loam  Fine sandy loam Gravelly clay loam  Clay loam Shaly clay Shaly clay	2.5YR 4/6, 5YR 4/6, 10YR 6/3 7.5YR 5/6, 10YR 6/6	Cr @ 41 in.	Conventional 55 @ 24 in. 55 @ 24 in.

		DRAINAGEWAY				
		LOT 24-SB1				Conventional
A E	0-4 4-14	10YR 3/4 10YR 5/4	Fine sandy loam Sandy loam			
Bt1	14-39	10YR 6/6	Clay loam	5YR 5/6		55 @ 24 in.
Cr	39-60	Multi-colored	Soft tilted shale		Cr @ 39 in.	
		TOTAL CDA				
A	0-4	LOT 24 –SB2 10YR 3/4	Gravelly fine sandy loam			
BE	4-8	101K 5/4 10YR 6/6	Loam			
Bt	8-27	5YR 5/6	Clay			80 @ 24 in.
BC	27-40	5YR 5/6	Shaly clay	10YR 7/2, 10YR 6/6	0.040:	
Cr	40-60	Multi-colored	Soft tilted shale		Cr @ 40 in.	
		* 0 T 4 T 0 T				
		LOT 25-SB1				Conventional
A. E	0-7 7-20	10YR 3/4 10YR 5/4	Cobbly fine sandy loam Fine sandy loam			+
Bt1	20-34	7.5YR 5/6	Clay loam+			60 @ 24 in.
Bt2	34-46	10YR 5/6	Clay	5YR 5/6		Ĭ
Cr	46-60	10YR 7/2	Shaly clay	2.5YR 5/6, 10YR 6/6	Cr @ 46 in.	-
		LOT 25 -SB2				
A	0-7	10YR 3/4	Cobbly fine sandy loam			
BE	7-13	10YR 6/6	Loam			80 @ 24 in.
Bt	13-36	7.5YR 5/6	Clay		0.020	
Cr	36-60	Multi-colored	Soft tilted shale		Cr @ 36 in.	
	0-6	LOT 26-SB1 10YR 3/3	Cohlesson			Conventional
A BE	6-15	10YR 5/4	Cobbly fine sandy loam Fine sandy loam			
Bt1	15-27	10YR 5/6	Clay loam+			60 @ 24 in.
Bt2	27-40	7.5YR 5/6	Clay	5YR 5/6		
Cr	40-60	Multi-colored	Soft tilted shale		Cr @ 40 in.	
		LOT 26 -SB2				
A	0-6	10YR 3/4	Fine sandy loam			
BE	6-16	10YR 5/4	Loam			
Bt1	16-35	7.5YR 5/6	Clay loam+	FND F/C 10ND C/C	G:: @ 47 i-:	55 @ 24 in.
Bt2 Cr	35-47 47-60	7.5YR 5/6 Multi-colored	Clay Soft tilted shale	5YR 5/6, 10YR 6/6	Cr @ 47 in.	
			3011 111110 311111			
		LOT 27-SB1				Conventional
A	0-5	10YR 4/3	Fine sandy loam			Conventional
BE	5-12	10YR 6/6	Loam			
Bt1	12-27	5YR 5/6	Clay loam+	2 57 TO 516 407 TO 616		70 @ 24 in.
Bt2 C	27-43 43-55	5YR 5/6 5YR 5/6	Silty clay Silty clay	2.5YR 5/6, 10YR 6/6 7.5YR 5/6, 10YR 6/1		
	45-55	311 3/0	Shty they	7.518 5/0, 1018 0/1		
		LOT 27-SB2				
A	0-6	10YR 3/4	Gravelly fine sandy loam			
BE Bt1	6-11 11-35	10YR 6/6 5YR 5/6	Loam Clay			80 @ 24 in.
Bt2	35-50	5YR 5/6	Clay loam	2.5YR 5/6, 10YR 6/6		50 (a) 24 m.
BC	50-60	5YR 5/6	Clay loam	2.5YR 5/6, 10YR 6/2		
		LOT 28-SB1				Conventional
A	0-7	10YR 3/4	Gravelly fine sandy loam			
E Bt1	7-15 15-28	10YR 5/4 7.5YR 5/6	Gravelly fine sandy loam Clay loam			60 @ 24 in.
Bt2	28-43	10YR 6/6	Clay loam Clay loam			00 (a) 24 m.
BC	43-55	10YR 6/6	Clay loam	10YR 6/2		
A	0-5	LOT 28-SB2 10YR 3/4	Fine sandy loam			+
BE	5-15	10YR 5/4 10YR 6/6	Loam			
Bt1	15-34	7.5YR 5/6	Clay loam			60 @ 24 in.
Bt2 BC	34-50 50-60	10YR 6/6 5YR 4/6	Clay loam Clay loam	5YR 4/6, 7.5YR 5/6 10YR 6/6, 10YR 6/2		-
вс	50-00	51R 4/0	Ciay ioam	10 Y K 6/6, 10 Y K 6/2		
		LOT 40 CP4				G t
		LOT 29-SB1				Convent-
^	0-4	10YR 3/3	Fine sandy learn			Shallow
A. Bt	0-4 4-13	10YR 3/3 10YR 5/6	Fine sandy loam Clay loam	5YR 5/6		1
C	13-24	5YR 5/6	Gravelly clay	10YR 5/6		55 @ 12 in.
	24-60	Multicolored	Shale		Cr @ 24 in	
Cr		LOT 20 CD2				
	0-4	LOT 29-SB2 10YR 3/3	Loam			

C	19-35	5YR 5/6	Very gravelly clay loam	10YR 5/6	200	50 @ 12 in.
R	35-60	multicolored	Shale/Sandstone		R @ 35 in	
		LOT 30-SB1				Conventional
A	0-6	10YR 3/4	Silt loam			Conventional
E	6-13	10YR 5/4	Silt loam			
Bt	13-34	5YR 5/6	Clay	7.5YR 5/6		80 @ 24 in.
С	34-44	5YR 5/6	Shaly Clay	2.5YR 5/6, 10YR 5/6	Cr @ 44 in.	
Cr	44-60	Multicolored	Soft shale			
		LOT 30-SB2				
A	0-5	10YR 3/4	Silt loam			
E	5-123	10YR 6/6	Silt loam			
Bt	12-28	7.5YR 5/6	Clay loam			60 @ 24 in.
BC	28-44	10YR 6/6	Very gravelly clay loam	10YR 6/6	Cr @ 44 in.	
Cr	44-60	Multicolored	Soft shale			
						Engineer-
						Design
		LOT 31-SB1				
A	0-4	10YR 3/4	Gravelly fine sandy loam			
E	4-7	10YR 6/6	Very gravelly fine sandy			
			loam			
Bt	7-19	10YR 5/8	Very gravelly loam			35 @ 12 in.
Cr	19-60	Multicolored	Soft shale/sandstone		Cr @ 19 in.	
		LOT 31-SB2				
A	0-8	10YR 3/2	Gravelly loam			
BE	8-19	10YR 5/6	Very gravelly loam			1
Bt	19-23	7.5YR 5/6	Very gravelly silty clay			30 @ 12 in.
C-	22.60	Multipol3	loam		Cu @ 22 /-	-
Cr	23-60	Multicolored	Soft shale/sandstone		Cr @ 23 in.	+
		LOT 32-SB1				Covent-
						Shallow
A	0-4	10YR 4/3	Gravelly fine sandy loam			50 @ 12 in.
E	4-10	10YR 5/4	Gravelly fine sandy loam			50 W 12 III.
Bt	10-22	7.5YR 5/6	Very gravelly clay loam		Cr @ 22 in	
Cr	22-60	multicolored	Soft shale/sandstone		C1 (0) 22 III	
CI	22-00	muncolored	Soft shart/sandstone			
	<u> </u>	LOT 32-SB2	<u> </u>			
	0-7	10YR 3/4	Gravelly fine sandy loam			
BE	7-13	10YR 5/4	Gravelly loam			80 @ 24 in.
Bt	13-29	5YR 5/6	Clay			80 ( <i>a</i> ) 24 m.
BC	29-41	5YR 5/6	Silty clay loam	10YR 6/6	Cr @ 41 in.	
Cr	41-60	multicolored	Soft shale	101100	C1 (ii) 41 III.	
		LOT 33-SB1				Conventional
A	0-7	10YR 3/4	Fine sandy loam			
BE	7-14	10YR 5/6	Fine sandy loam			
Bt1	14-32	7.5YR 5/6	Clay loam+			
Bt2	32-44	10YR 6/6	Clay loam+			65 @ 24 in.
Bt3	44-54	10YR 5/6	Clay loam+	10YR 6/4		
C	54-60	10YR 5/6	Silty Clay loam+	10YR 6/4, 10YR 6/2		
		LOT 33-SB2				
A	0-8	10YR 4/3	Very fine sandy loam			
Bt1	8-18	10YR 5/4	Silty clay loam			60 @ 24 in.
Bt2	18-27	10YR 5/8	Clay loam			
BC	27-45	10YR 5/6	Silty clay loam		Cr @ 45 in.	
Cr	45-60	multicolored	Soft shale			
		LOT 34-SB1	+			Convert
		LO1 34-3B1		1		Convent-
						Shallow
A1	0-6	10YR 3/4	Fine sandy loam			
A2	6-10	10YR 4/3	Fine sandy loam	ļ		
E	10-20	10YR 6/6	Sandy loam	<b> </b>		30 @ 12 in.
С	20-24	10YR 5/8	Gravelly sandy loam	ļ	0.0.1	_
Cr	24-40	multicolored	Sandstone		Cr @ 24 in.	
		LOT 34–SB2				
A	0-10	10YR 3/2	Sandy loam			1.0.11
E	10-17	10YR 4/4	Gravelly sandy loam			30 @ 12 in.
Bw	17-24	10YR 5/4	Gravelly sandy loam		Cr @ 24 in	+
Cr	24-40	multicolored	Sandstone			+
		LOT 25 CD4				- C
		LOT 35-SB1				Conventional
A	0-6	10YR 3/4	Silt loam			
Bt1	6-17	10YR 6/6	Clay			
Bt2	17-36	5YR 5/6	Clay	537D 516 10372 611		80 @ 24 in.
Bt3	36-52	10YR 6/6	Clay	5YR 5/6, 10YR 6/4		_
C	52-60	10YR 6/6	Clay	2.5YR 5/6, 10YR 6/2		



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INFRASTRUCTURE ENVIRONMENTAL PLANNING COMMERCIAL RESIDENTIAL 60 @ 24 in.

Cr	50-60	Multicolored	Soft Shale	ı		T
Ci	30-00	Municolored	Soft Share			
		LOT 41-SB2				
A E	0-5 5-10	10YR 3/4 10YR 5/4	Fine sandy loam Fine sandy loam			
BE	10-15	10YR 5/6	Loam			60 @ 24 in.
Bt1 Bt2	15-31 31-49	7.5YR 5/6 2.5YR 5/6	Clay loam Clay	10YR 6/4		
Btz	31-49	2.518 5/0	Ciay	101 K 0/4		
		LOT 42-SB1				Conventional
A	0-4	10YR 3/3	Silt loam			
E Bt1	4-10 10-24	10YR 5/4 7.5YR 5/6	Silt loam Clay loam			75 @ 24 in.
Bt2	24-39	7.5YR 4/6	Silty clay	5YR 5/6		75 te 24 in.
С	39-60	10YR 6/6	Silty clay	10YR 7/2		
		LOT 42-SB2				
A	0-8	10YR 3/4	Fine sandy loam			
BE Bt1	8-18 18-32	10YR 6/6 7.5YR 5/6	Loam Clay			80 @ 24 in.
Bt2	32-46	10YR 6/6	Clay		Cr @ 46 in.	
Cr	46-55	Multicolored	Soft Shale			
		LOT 43-SB1				Convent-
						Shallow
A Bt1	0-4 4-8	10YR 4/2 10YR 5/3	Fine sandy loam Silty clay loam			
Bt2	8-22	7.5YR 5/6	Hvy Silty clay loam			60 @ 24 in
Bt3 Cr	22-37 37-50	7.5YR 5/6 Multicolored	Clay loam Soft Shale Fractured	10YR 5/6	Cr @ 37 in.	
Cr	37-30	Municolorea	Soft Shale Fractured			
		LOT 42 SPA				
A	0-6	LOT 43-SB2 10YR 4/3	Fine sandy loam			
E	6-14	10YR 5/4	Fine sandy loam			60 @ 14 in
Bt Cr	14-26 26-40	7.5YR 5/6 Multicolored	Silty clay loam	10YR 5/6	Cr @ 26 in.	
		LOT 44-SB1				Convent-
						Shallow
A E	0-7 7-11	10YR 4/2 10YR 5/4	Silt loam Silt loam			
Bt	11-19	7.5YR 5/6	Clay			65 @ 21 in.
BC Cr	19-33 33-50	7.5YR 5/6 Multicolored	Vg S ilty clay loam Fractured shale	50% shale fragments	Cr @ 33 in.	
Ci	33-30	winteofored	Tractured share			
		LOT 44-SB2				
A	0-4	10YR 4/3	Gravelly fine sandy loam			
E	4-10	10YR 6/4	Fine sandy loam			35 @ 12 in.
Bw Cr	10-24 24-40	7.5YR 5/6 Multicolored	Gr Loam Tilted fractured shale		Cr @ 24 in.	
		LOT 45-SB1				Convent-
						Shallow
A E	0-4 4-8	10YR 4/3 10YR 5/4	Gravelly silt loam Silt loam			70 @ 12 in.
Bt	8-18	7.5YR 5/6	Silty clay			70 (6 12 111
BC Cr	18-30 30-50	7.5YR 5/6 Multicolored	Silty clay loam Soft Shale		Cr @ 30 in.	
Ci	30-30		Soft Share			
	0-4	LOT 45-SB2 10YR 4/3	Gravelly silt loam			
A E	4-9	101R 4/3 10YR 5/4	Gravelly silt loam			70 @ 17 in.
Bt	9-27	7.5YR 5/6	Silty clay	10YR 5/6		
BC Cr	27-35 35-50	7.5YR 5/6 Multicolored	VG silty clay Loam Shale	50% Shale Fragments	Cr @ 35 in.	
		LOT 46-SB1				Conventional
A	0-4	10YR 4/3 10YR 5/4	Gravelly silt loam			
BE Bt1	4-11 11-22	7.5YR 5/6	Loam Clay loam			+
Bt2	20-45	7.5YR 5/6	Clay loam			55 @ 24 in
Bt3 BC	45-55 55-60	7.5YR 5/6 Mottled 7.5YR 5/6, 10YR 5/6	Silty clay loam Silty clay loam	10YR 6/3		
		LOT 46-SB2	L			
Δ	0.5	10VR 4/3				
A E	0-5 5-10	10YR 4/3 10YR 5/4	Gravelly silt loam Loam			
E Bt1	5-10 10-14	10YR 5/4 7.5 YR 5/6	Loam Silty clay	7.5VD 5/6		75 @ 24 in
E Bt1 Bt2 BC	5-10 10-14 14-31 31-38	10YR 5/4 7.5 YR 5/6 5YR 5/6 5YR 5/6	Loam Silty clay Silty clay Silty clay loam	7.5YR 5/6 7.5YR 5/6, 10YR 6/3	Cr @ 38 in.	75 @ 24 in.
E Bt1 Bt2	5-10 10-14 14-31	10YR 5/4 7.5 YR 5/6 5YR 5/6	Loam Silty clay Silty clay		Cr @ 38 in.	75 @ 24 in.

		LOT 47-SB1				Conventiona
A	0-10	10YR 4/3	Gravelly loam			00111111111
Bt1	10-24	7.5YR 5/6	Silty clay loam			
Bt2	24-30	5YR 5/6	Silty clay loam	7.5YR 5/6, 10YR 6/3		65 @ 24 in.
Btx	30-52	5YR 5/6	Silty clay loam	7.5YR 5/6		
BC	52-60	10YR 5/6	Silty clay loam	7.5YR 5/6, 2.5YR 4/6, 10YR 6/2	Redox @ 52 in.	
		LOT 47-SB2				
A	0-7	10YR 4/3	Gravelly silt loam			
BE	7-13	10YR 5/3	Gravelly loam			
Bt	13-32	7.5YR 5/6	Silty clay loam			65 @ 24 in.
Btx	32-44	7.5YR 6/6	Silty clay loam	10YR 5/6, 5YR 5/6, 10YR 6/3		
BC	44-60	10YR 6/6	Silty clay loam	10YR 6/2, 7.5YR 5/6	Redox @ 44 in.	
		LOT 48-SB1				Convent- Shallow
A	0-3	10YR 4/3	Gravelly Fine sandy loam			
E	3-7	10YR 5/4	Gravelly silt loam			
BE	7-13	10YR 5/6	Silt loam			70 @ 14 in.
Bt	13-26	7.5YR 5/6	Silty clay		Cr @ 26 in.	
Cr	26-40	Multicolored	Soft tilted shale		+	
		LOT 48-SB2				
A	0-8	10YR 4/3	Gravelly sandy loam			
E	8-15	10YR 5/4	Fine sandy loam			
Bt	15-28	7.5YR 5/6	Silty clay			70 @ 24 in.
BC	28-35	7.5YR 5/6	Gravelly silty clay loam	5YR 5/6	Cr @ 35 in.	
Cr	35-60	Multicolored	Soft shale			

I, Lawrence E. McGhee hereby certify that the soil test on Lot 1-48 of The Highland Subdivision were conducted as specified in the Onsite Sewage and Treatment and Disposal, Chapter 420-3-1, and are true and accurate as presented.



**DATE:** May 8, 2017



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