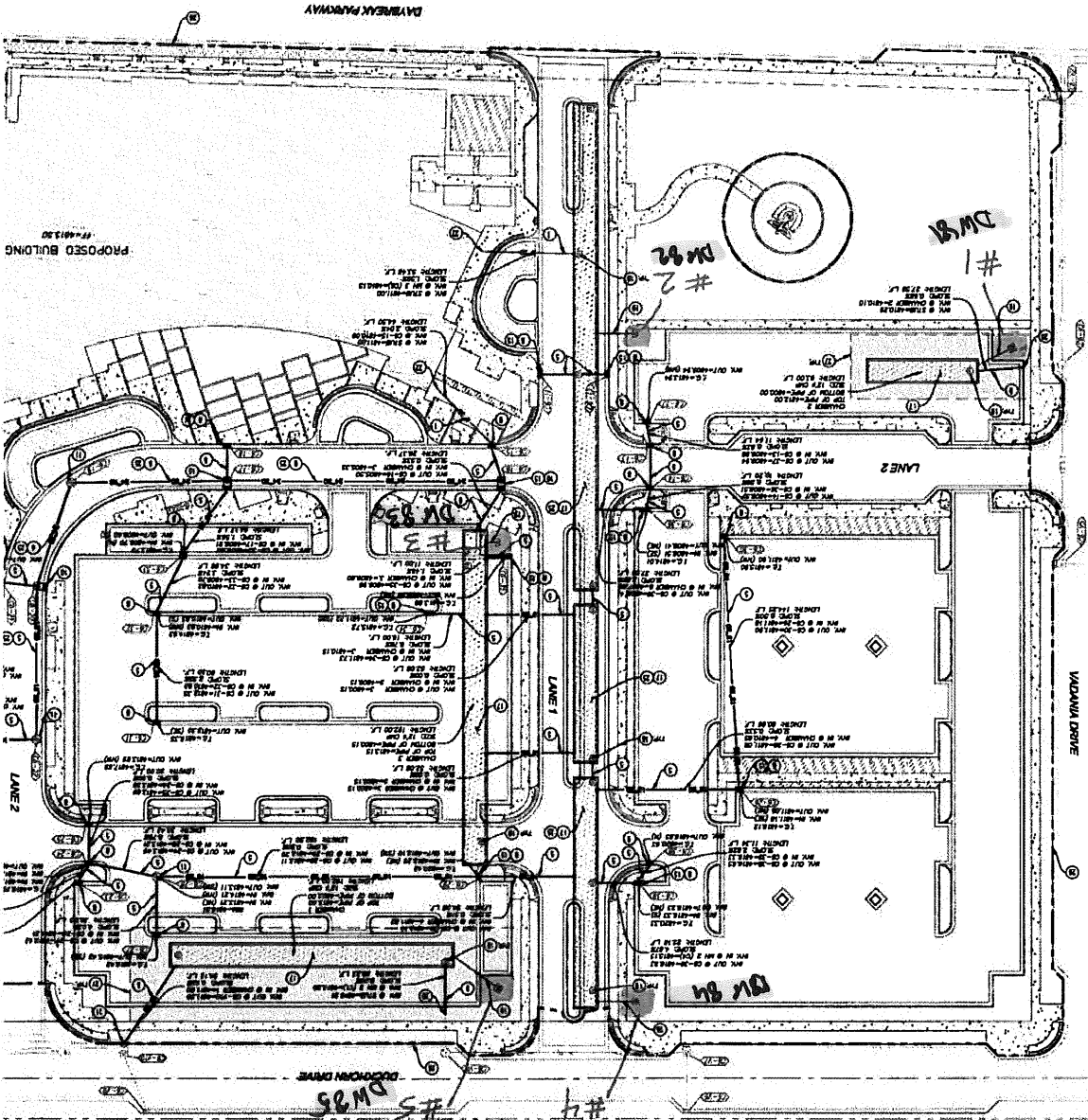


DEVELOPMENT
FUTURE



EXISTING
DEVELOPMENT

DEVELOPMENT
FUTURE

EXISTING
FUTURE

Project Number 3-819-2139.6
 Date 9-27-2010
 Logged By M.O / SRC (AMEC)
 Surface Elevation _____

Project Name U of U Medical Site
 Subcontractor Becho
 Rig Type SANY 225
 Operator Tony

#81
 Boring #1 Pg 1
 Boring Type 48" Auger
 Hammer WI & Drop _____

Depth	Sample No.	Sample Interval	Sampler	Sample Type	Recovered	Driven	Blow Count	Soil Description	Graphic
0	1			Bulk				E. Shoulder of Undrains, 90' N. of Intersection with Daybreak Parkway	
1								Silty Sandy Gravel; gravel to 3" subround, non plastic, med. brown, GM	
2								slightly moist	
3									
10 4	11'								
5	2			Bulk				Silty Clayey Gravel; cobble to 6" subround, low plasticity, tan to lt. brn, GC	
6	16'							moist to very moist	
7				Bulk				Silty Sandy Gravel; cobble to 6" subround, non-plastic, reddish brown, GM	
20 8								Moist	
9									
0									
1									
30 2	31'								
3				Bulk				Clayey Gravel / Clay; cobble to 4" subround, low plasticity lt. to med brown	
4								Moist to very moist	
5									
40 6									
7	43'			Bulk				Silty Sandy Gravel; gravel to 3" subround, non plastic, reddish brown	
8								Moist.	
9									
50 0									

Ground Water _____
 Depth _____ Hour _____ Date _____

Remarks/Location:

amec

SHEET 1 of 2

Project Number 3-819-2139.6Date 9-27-2010Logged By MO/SEC

Surface Elevation _____

Project Name _____

Subcontractor _____

Rig Type _____

Operator _____

Boring # 1 Pg 2

Boring Type _____

Hammer Wt & Drop _____

Ehud. 859-6604

Graphic

Soil Description

Silty Sandy Gravel

Lean CLAY (CL/GC) to Clayey GRAVEL
brown, low to medium plasticity,
gravel and cobble to 4" rounded
to subrounded, moist

grades to GC with cobble
cobbles 4"-10" at 76'

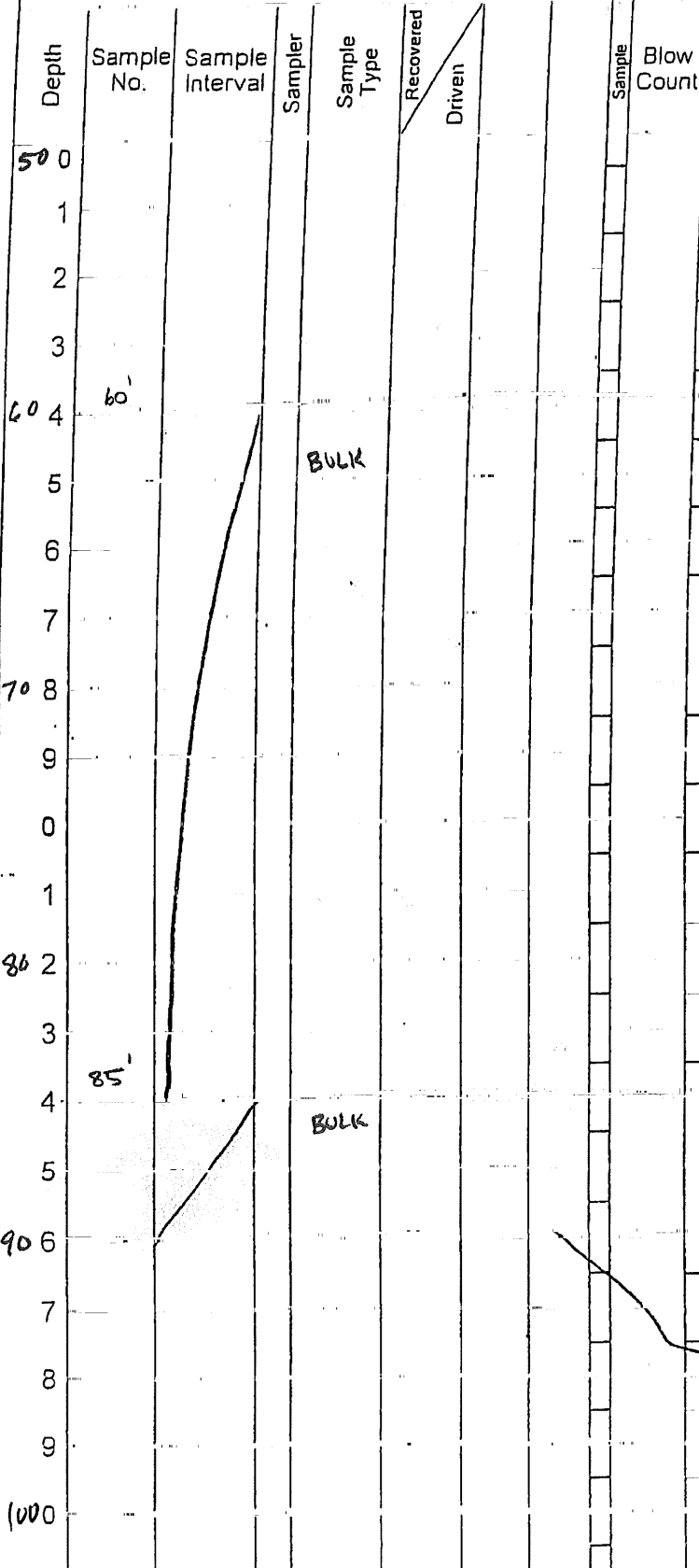
more gravel w/ depth

Clayey GRAVEL (GC) fines ~20%
brown, moist, subrounded gravel
and cobbles 4" to 10"

Silty Sandy GRAVEL (GM) rd-brown,
moist cobbles 4" to 7", calciche
blocks in cobbles, well cemented

END WELL @ 90'

Made 4 attempts to extend well
between 90' and 95', soil continued
to cave and well could not
advance

Ground
Water

Depth

Hour

Date

Remarks/Location:

amec

SHEET 2 of 2

#82

Project Number 3-819-2139.6Project Name Daybreak U of U Medical Ctr.

Boring #2 Pg1

Date 9-28-2010Subcontractor BechoLogged By Steve Clausen (AMEC)Rig Type SANY 225Boring Type 48" Auger

Surface Elevation

Operator Tony

Hammer Wt & Drop

Depth	Sample No.	Sample Interval	Sampler	Sample Type	Recovered	Driven	Sample	Blow Count	Soil Description	Graphic
0				BULK		GM			Dry well #2 east of well #1	
1									Silty Sandy GRAVEL (GM) brown, dry to moist, non-plastic, gravels subrounded	
2										
3										
4										
5										
6										
7										
8										
9										
10	10'			BULK		CL/GC			Lean CLAY to Clayey GRAVEL (CL-GC) with rubble, dark brown, moist, low to med. plasticity, cobbles to 9", subrounded	
1										
2										
3										
4										
5										
6										
7										
18'	18'			BULK		CL			Lean CLAY w/ Gravel (CL) tan, moist, medium to high plasticity, gravels to 3"	
9										
20										

Ground Water

Depth

Hour

Date

Remarks/Location:

amec

SHEET 1 of 4

Project Number _____
 Date 9-28-2010
 Logged By SPC
 Surface Elevation _____

Project Name _____
 Subcontractor _____
 Rig Type SANY 225
 Operator Tony

Boring # 2 Pg. 1
 Boring Type _____
 Hammer Wt & Drop _____

Depth	Sample No.	Sample Interval	Sampler	Sample Type	Recovered	Driven	Blow Count	Soil Description	Graphic
20									
1				BULK		GM		Silty GRAVEL w/ Sand (GM) red-brown, moist, non-plastic, grains and cobbles to 9", rounded to subrounded	
2									
3									
4									
25									
6									
7									
28									
9				BULK		GM		Silty GRAVEL w/ Sand (GM) wet to saturated, all else as above	
30									
1									
2									
3									
4									
35									
6									
37				BULK		GC		Clayey GRAVEL w/ Sand (GC) red-brown, wet, low to med. plasticity matrix, clasts rounded to subrounded, gravels to 3"	
8									
9									
40									

Ground Water _____ Depth _____ Hour _____ Date _____ Remarks/Location: _____

Project Number _____
Date 9-28-2010
Logged By SPC / AB
Surface Elevation _____

Project Name _____
Subcontractor _____
Rig Type Sany 225
Operator Tony

Boring # 2 Pg: 3
Boring Type _____
Hammer Wt & Drop _____

Depth	Sample No.	Sample Interval	Sampler	Sample Type	Recovered	Driven	Sample	Blow Count	Soil Description	Graphic
40										
1										
2										
3										
4										
45										
6										
7										
8										
9										
50										
1										
2										
3										
4										
55										
6										
7										
8										
9										
60										
			No Sample						Same description as 37' but encountering cobbles to 10"	
Ground Water	Depth	Hour	Date	Remarks/Location:						

amec

SHEET 3 of 4

Project Number _____
Date 9/28/10
Logged By AB
Surface Elevation _____

Project Name _____
Subcontractor _____
Rig Type Sany 225
Operator Tony

Boring # 2 Pg. 1

Boring Type _____
Hammer Wt & Drop _____

Depth	Sample No.	Sample Interval	Sampler	Sample Type	Recovered	Driven	Blow Count	Soil Description	Graphic
60									
1									
2									
3									
4									
65									
6									
7								67' stopped production - 5:00 PM	
8								Began 07:50 9-29-2010	
9									
70								Silty GRAVEL w/ Sand (GM) red-brown, moist, non-plastic, gravel to 3"; rounded to subrounded, occasional cobble to 5"	
1									
2								drillers struggle to keep hole open between 70' & 74', collapse and cave ins continued until 80'	
3									
4									
75									
6									
7									
8									
9									
80									

Ground Water

Depth

Hour

Date

Remarks/Location:

END DRY WELL @ 80.5 ft.

amec

SHEET 4 of 4

Project Number 3-819-2137.6Date 9-30-2010Logged By SPC

Surface Elevation _____

Project Name Lot 11 Medical CenterSubcontractor BechoRig Type SANY 225Operator Tony

#83

Boring #3 Pg 1

Boring Type 48" Auger

Hammer Wt & Drop _____

Depth	Sample No.	Sample Interval	Sampler	Sample Type	Recovered	Driven	Sample	Blow Count	Soil Description	Graphic
0									Clayey GRAVEL w/ Sand (GC) brown, non-plastic to low plasticity, gravels and cobbles to 5" rounded, dry to moist	
2 X										
4 X										
6 X										
8 X										
10 X										
12 X										
14 X										
16 X										
18 X										
20										
22 X										
24 X										
26 X										
28 X										
30 X										
32 X										
34 X										
36 X										
38 X										
40									Lean CLAY w/ gravel + cobble (CL) dark brown, medium plastic, moist cobbles to 9" rounded to subrounded	

Ground Water

Depth

Hour

Date

Remarks/Location:

amec

SHEET 1 of 2

Project Number 3-817-2157.6Project Name U of U Medical CenterDate 9-30-2010Subcontractor BechoLogged By SPCRig Type SANY 225Boring # 3 Pg

Surface Elevation _____

Operator TonyBoring Type 48" Auger

Hammer WI & Drop _____

Depth	Sample No.	Sample Interval	Sampler	Sample Type	Recovered Driven	Sample	Blow Count	Soil Description	Graphic
40.0								Lean CLAY w/ gravel + cobble (CL)	
42.1								more gravel with death graded to GC/GM	
46.3									
50.8					GM			Silty-Sandy GRAVEL w/ Cobble (GM) red-brown, moist, low plasticity matrix, gravels and cobbles to 6", rounded to subrounded.	
54.7					GM				
58.8									
60.8									
64.2					GC			Clayey GRAVEL (GC) brown, moist to wet, medium plasticity matrix, gravels and cobble to 5", rounded to subrounded	
68.4									
70.8									
74.7					GM			Silty GRAVEL some clay (GM) brown, moist to wet, low plasticity to non-plastic matrix, gravels to 4", rounded to subrounded, fines ~15% to 20%, small caliche blocks 3"-4"	
78.8								repeated minuscule and cave ins around 74 feet	
80.8								better stability @ 76'-80.5'	
82.5	82.5'				GM		82.5'		

Ground
Water

Depth

Hour

Date

Remarks/Location:

END OF WELL @ 82.5 FEET

amec

SHEET 2 of 2

Project Number 3-89-2151-6Date 9-30-2010Logged By SPC

Surface Elevation _____

Project Name U of U Medical CenterSubcontractor BechoRig Type SANY 225Operator Tony

#84

Boring #4 Pg. 1

Boring Type 48" Auger

Hammer WI & Drop _____

Depth	Sample No.	Sample Interval	Sampler	Sample Type	Recovered Driven	Blow Count	Soil Description	Graph
0							dry well #4 just south of the UTA park and ride lot's South West corner	
1							Soil Description FILL = Clayey Gravel - Road base to 1ft	
2							Lean CLAY (CL) brown, moist, iron oxide staining, some rounded gravels to 3", clay has medium plasticity	
3								
4								
5								
6								
7								
8								
9								
10								
11							more gravel with depth	
12								
13							graded to clayey GRAVEL ~13-15'	
14								
15	15'							
16							CLAYEY GRAVEL (GC) brown, moist, gravels and cobbles to 6", rounded to subrounded	
17								
18								
19								
20								

Ground
Water

Depth

Hour

Date

Remarks/Location:

amec

SHEET 1 of 1

Project Number 3-819-2137.6Date 9-30-2010Logged By SPC

Surface Elevation _____

Project Name U of U Medical CenterSubcontractor BechoRig Type SANY 225Operator Tony

Boring #4 Pg 2

Boring Type _____

Hammer WI & Drop _____

Depth	Sample No.	Sample Interval	Sampler	Sample Type	Recovered Driven	Sample	Blow Count	Soil Description	Graphic
20									
21					GC			Clayey GRAVEL (GC) As Above	
22									
23									
24									
25	25'								
26					GM			Silty Sandy GRAVEL (GM) red-brown; moist, granules and cobbles to 6", rounded to subrounded, iron oxide staining strong.	
27									
28									
29									
30									
31					GM				
32									
33									
34									
35									
36	36'								
37					CL			Lean CLAY (CL) brown, moist, medium plasticity, very little gravel, clay has calcite veining	
38									
39									
40	40.6'							End of drilling for the day 9-30-2010	

Ground Water

Depth

Hour

Date

Remarks/Location:

amec

SHEET 2 of 2

Project Number 3-819-2/37.6Date 10-1-2010Logged By SPC

Surface Elevation _____

Project Name Waybreak Lot 2 Medical Ctr.Subcontractor BechtelRig Type SANY 225Operator TonyBoring # 4 of 3Boring Type 48" Auger

Hammer Wt & Drop _____

Depth	Sample No.	Sample Interval	Sampler	Sample Type	Recovered Driven	Blow Count	Soil Description	Graphic
40					CL		Lean CLAY (CL) brown, moist, medium plasticity, very little gravel, calcite veining in clay	
41								
42								
43					GC		Clayey GRAVEL with Sand (GC) red-brown, moist, low to medium plasticity clay matrix, gravels and cobbles to 6", clasts rounded to subrounded	
44								
45								
46								
47								
48					GC			
49								
50								
51					GM		Silty Sandy Gravel (GM) gravel to 3", non-plastic, subround clasts, moist reddish brown	
52								
53								
54								
55								
56								
57								
58								
59								
60					GM			

Ground Water

Depth

Hour

Date

Remarks/Location:

amec

SHEET 3 of 3

Project Number 3-819-002139.6Date 10-1-10Logged By M.D.

Surface Elevation _____

Project Name U or U 1111111111Subcontractor BechoRig Type SANY 225Operator TonyBoring # 4 Pg 9Boring Type 48" Auger

Hammer Wt & Drop _____

Depth	Sample No.	Sample Interval	Sampler	Sample Type	Recovered	Driven	Sample	Blow Count	Soil Description	Graphic
6 0									<u>Silty Sandy Gravel; gravel to 3" cobble to 6" subrounded clasts, non-plastic, moist reddish brown.</u>	
1										
2										
3										
4										
5										
6										
7										
8										
9										
7 0										
1										
2										
3										
4										
5										
6										
7										
8										
9										
8 0									<u>Terminated boring @ 79.0 in GM materials</u>	

Ground Water

Depth

Hour

Date

Remarks/Location:

amec

SHEET of

#85

Project Number ~~7420131300~~ 3819002139.6Project Name ~~Tri-States NGL~~ U of U Medical Center

Date 10/4/10

Subcontractor ~~PST~~ Becho

Boring #5 Pg#1

Logged By SPC

Rig Type SANY 225

Boring Type

Surface Elevation

Operator Tony

Hammer Wt & Drop

Depth	Sample No.	Sample Interval	Sampler	Sample Type	Recovered	Driven	Blow Count	Soil Description	Graphic
0								dry well #5 located ~75' east of #4, just south of Duckhorn Drive and the UTA parking lot	
1								Sandy SILT w/ Gravel (ML)	
2								tan, dry to moist, gravels to 3", subrounded, low plasticity to non-plastic	
3									
4									
5									
6									
7									
8									
9									
10									
11								Silty GRAVEL w/ Sand (GM);	
12								red-brown, moist, gravels and cobbles to 6", rounded to sub-rounded	
13									
14									
15									
16									
17									
18									
19									
20									

Ground Water

Depth	Hour	Date

Remarks/Location:

amec

SHEET 1 of 1

Project Number ~~7420131300~~ 3819002137.6Project Name ~~Id States NGL~~ U of U Medical Cntr.

Date 10/4/10

Subcontractor ~~PSI~~ Bechtel

Boring #5 Pg #2

Logged By SPC

Rig Type SANY 225

Boring Type

Surface Elevation

Operator Tony

Hammer Wt & Drop

Depth	Sample No.	Sample Interval	Sampler	Sample Type	Recovered / Driven	Blow Count	Soil Description	Graphic
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								
36								
37								
38								
39								
40								
41								
42								
43								
44								
45								
46								
47								
48								
49								
50								
51								
52								
53								
54								
55								
56								
57								
58								
59								
60								

Silty GRAVEL w/ Sand (GM)

red-brown, moist, non-plastic to low plasticity matrix, gravels and cobbles to 6", rounded to subrounded

GM

GM

GM

rounded to silty sand

Silty SAND w/ Gravel (SM)

red-brown, moist, non-plastic, gravels and cobbles to 3"

Silty GRAVEL w/ Sand (GM)

Ground Water

Depth	Hour	Date

Remarks/Location:

amec

SHEET 2 of 2

SHEET of