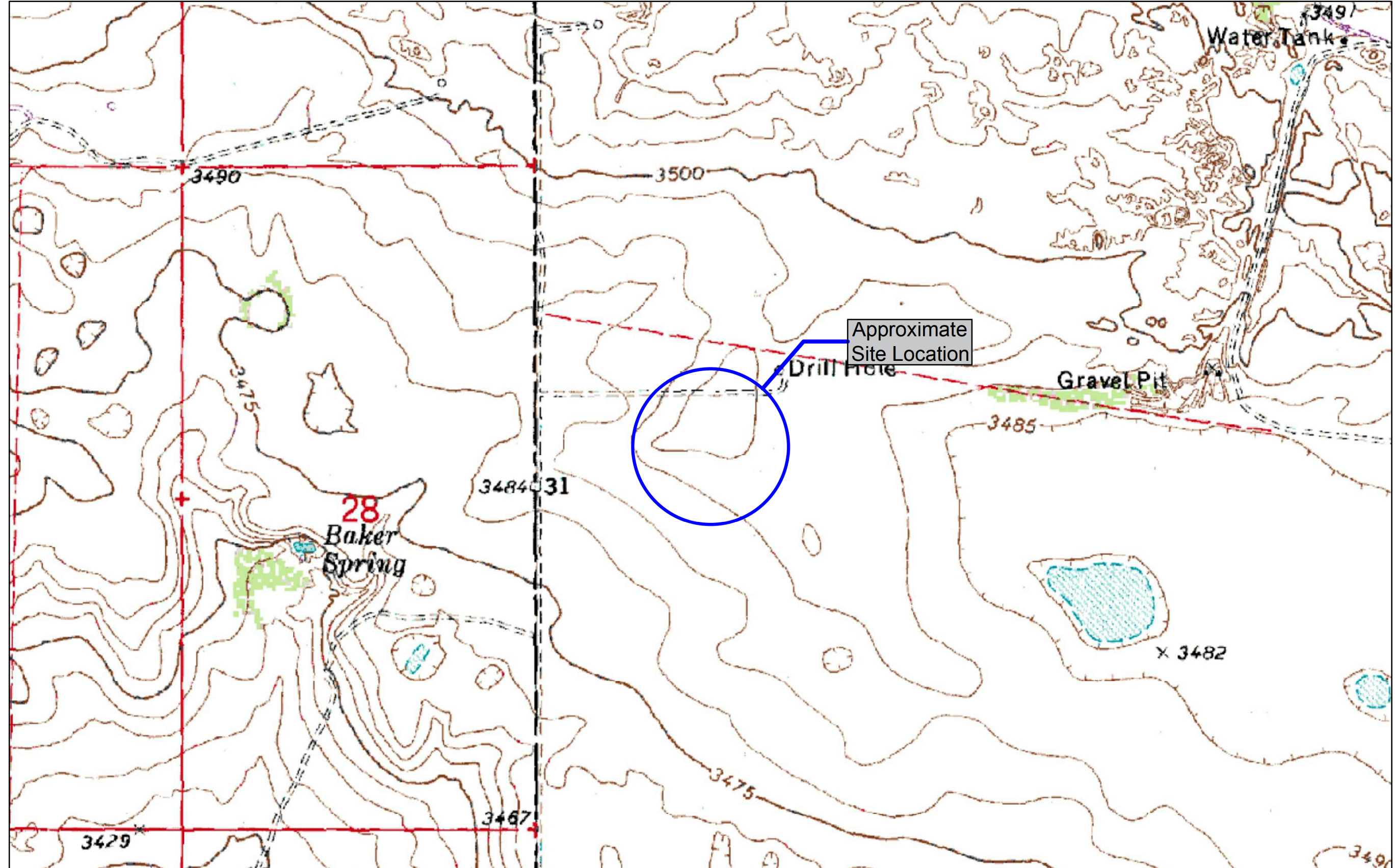
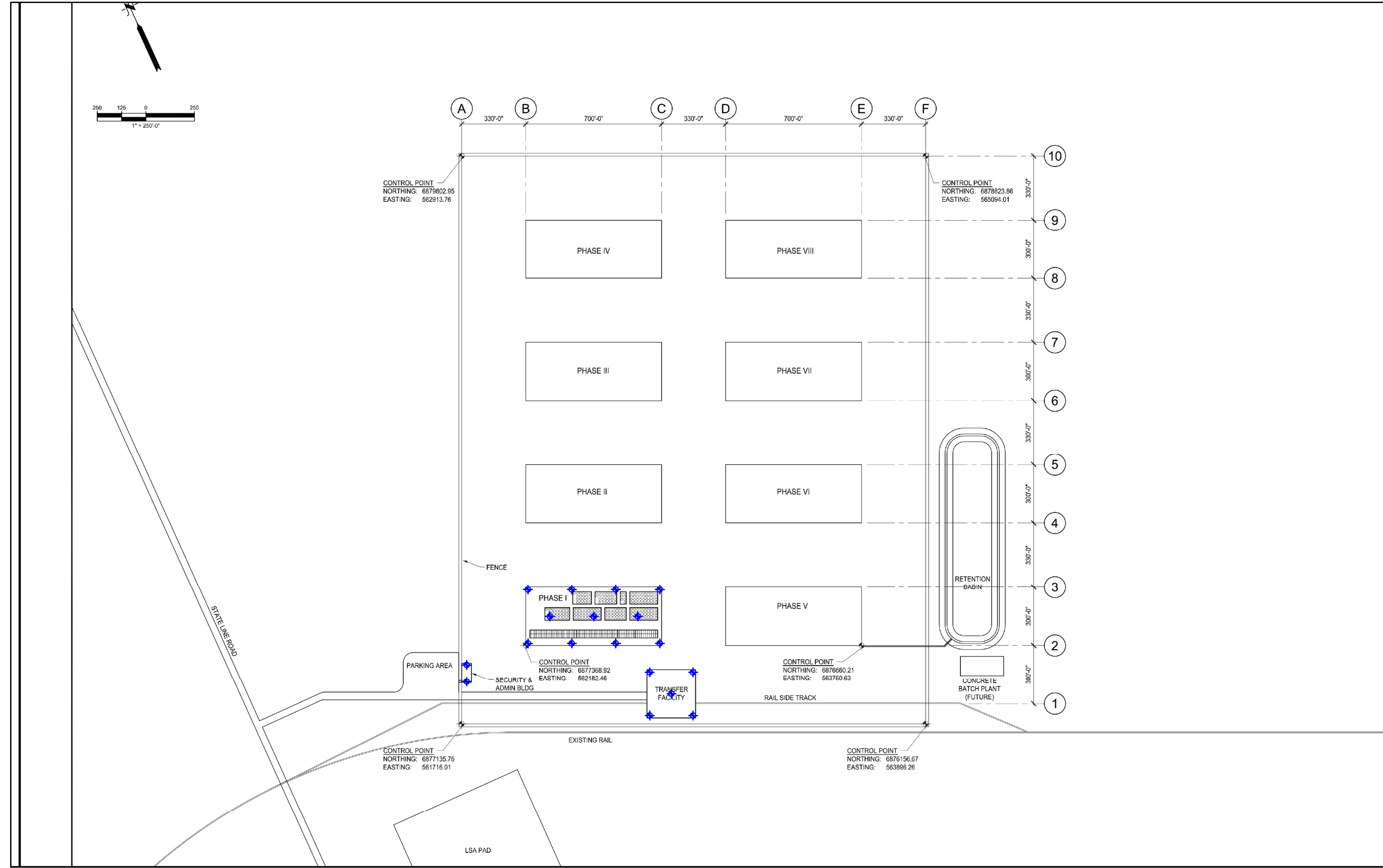




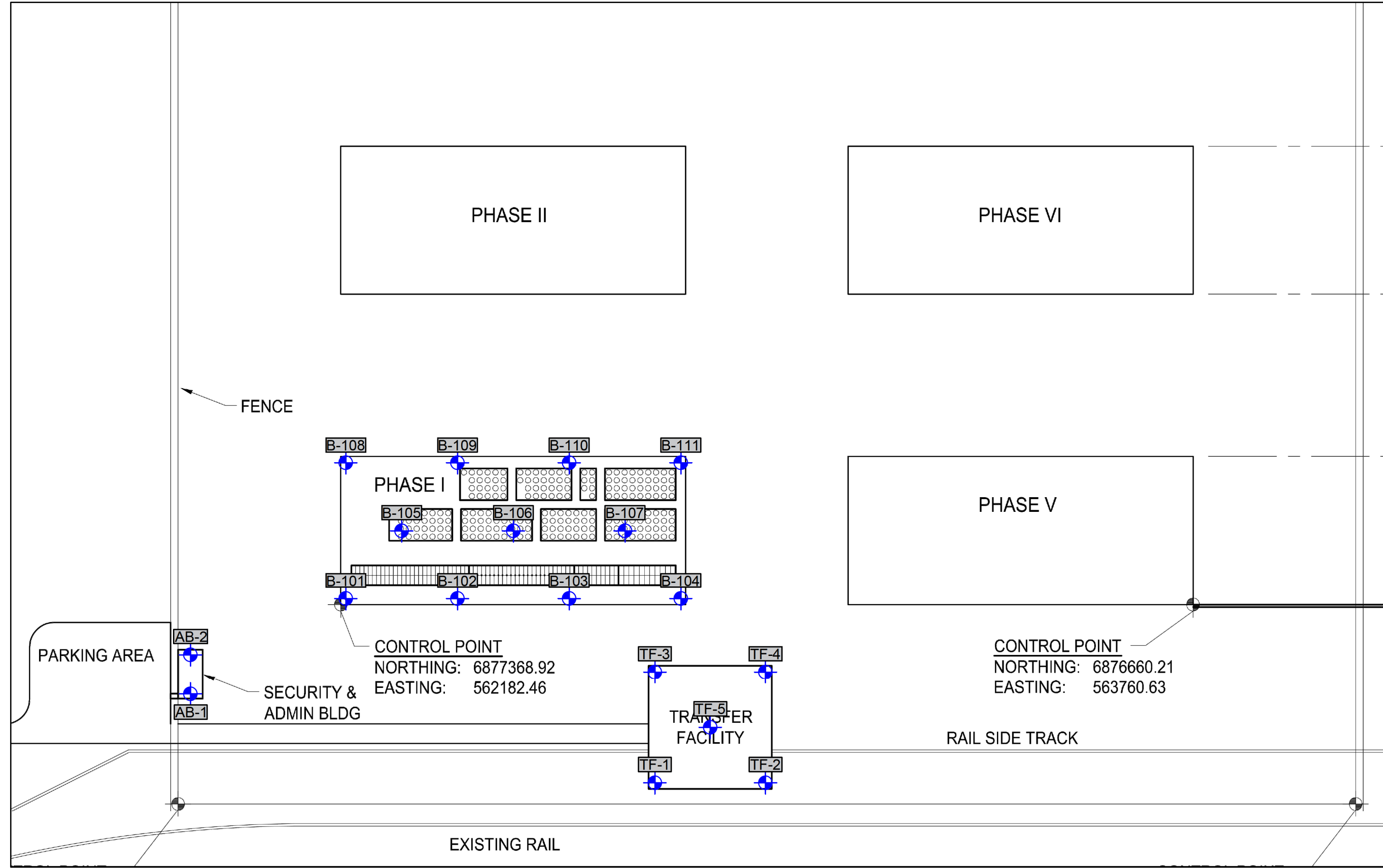
Source Provided by: MYTOPO



Notes:
 1) Site Source Provided by: WCS, (06/12/2015)
 2) Boring Locations are shown in general arrangement only

3) Do Not use Boring Locations for determinations of Distance or Quantities

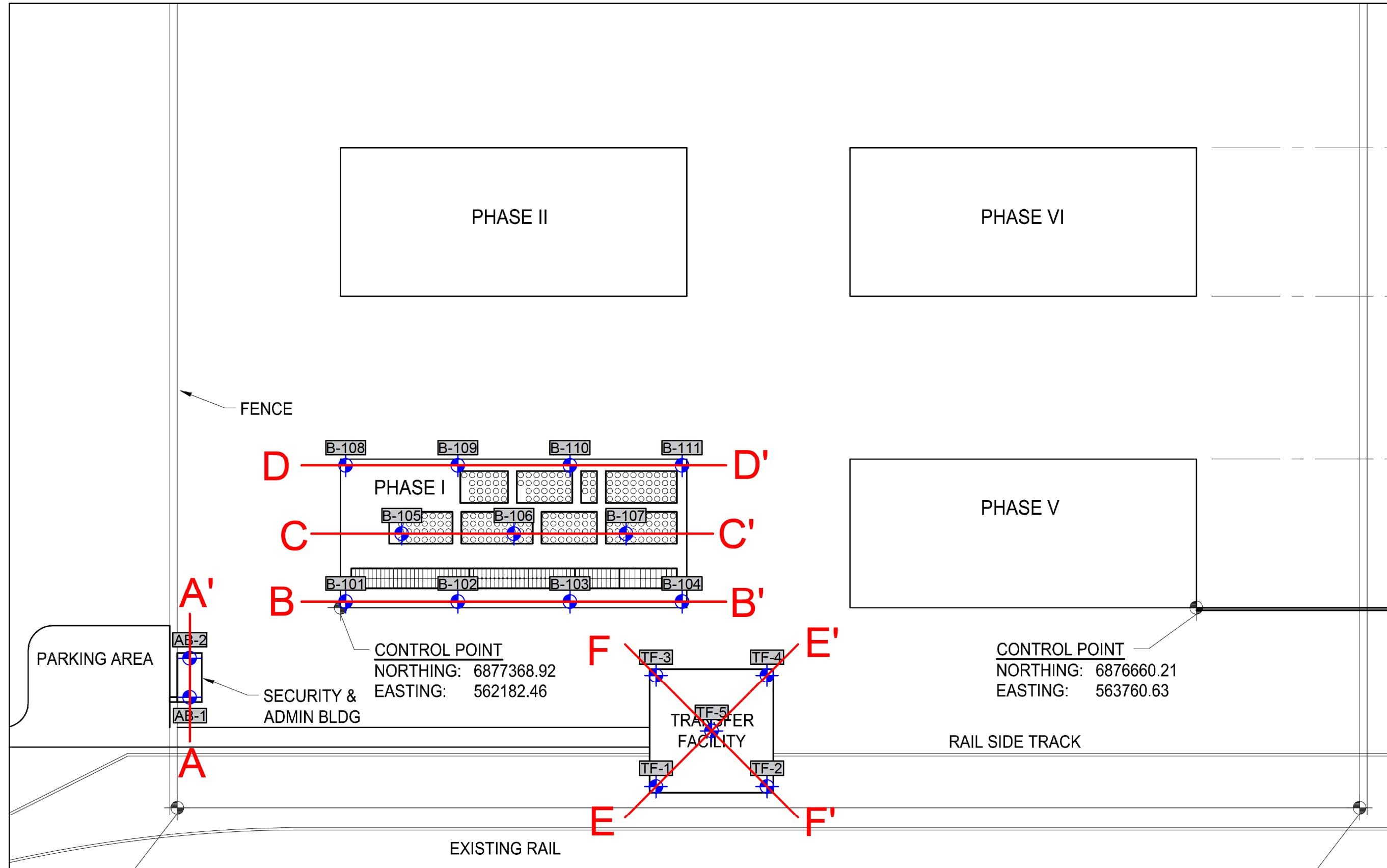
Boring Location & Identifier



Notes:

- 1) Site Source Provided by: WCS, (06/12/2015)
- 2) Boring Locations are shown in general arrangement only
- 3) Do Not use Boring Locations for determinations of Distance or Quantities

Boring Location & Identifier



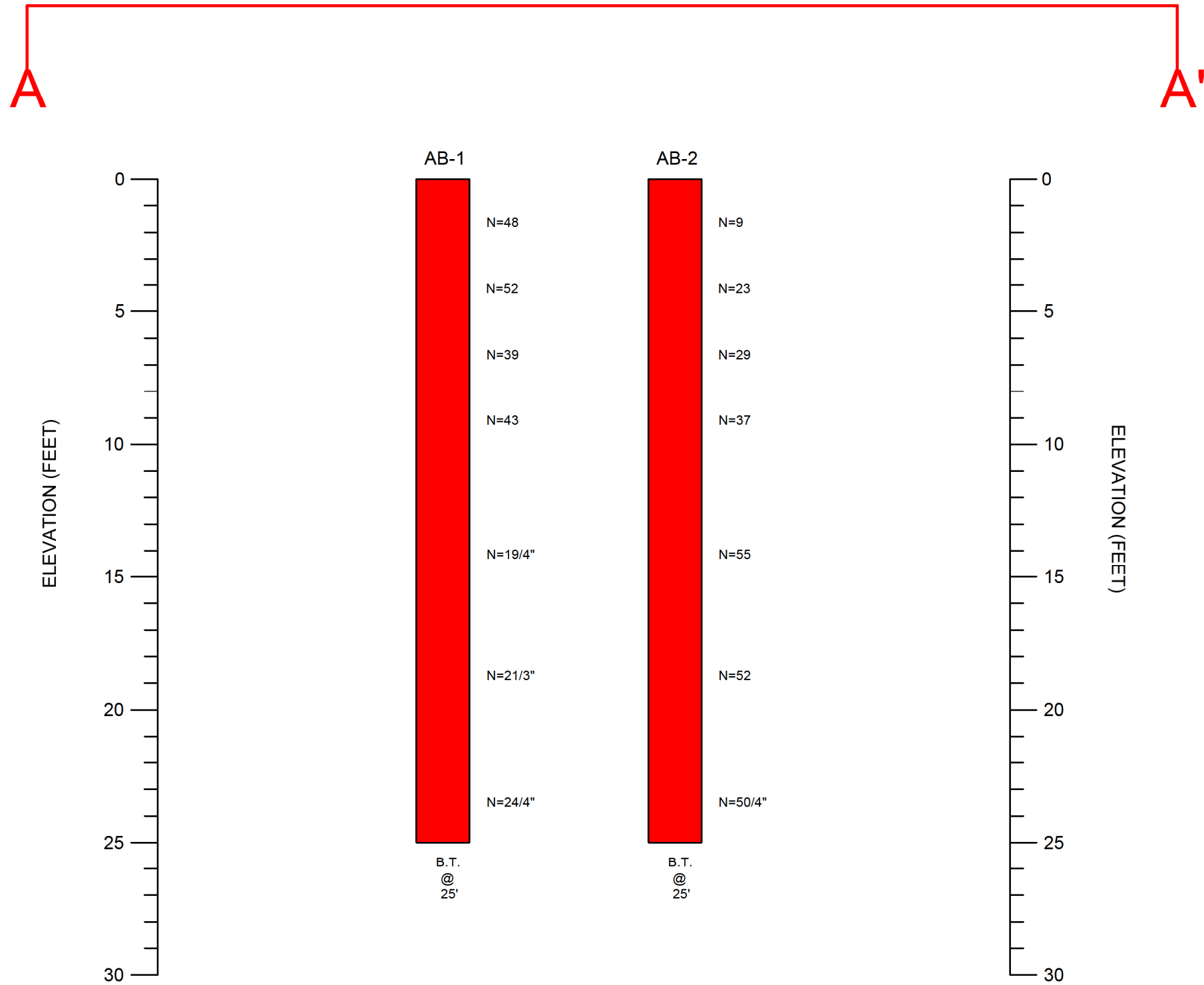
Notes:

- 1) Site Source Provided by: WCS, (06/12/2015)
- 2) Boring Locations are shown in general arrangement only

- 3) Do Not use Boring Locations for determinations of Distance or Quantities

✕ Boring Location & Identifier

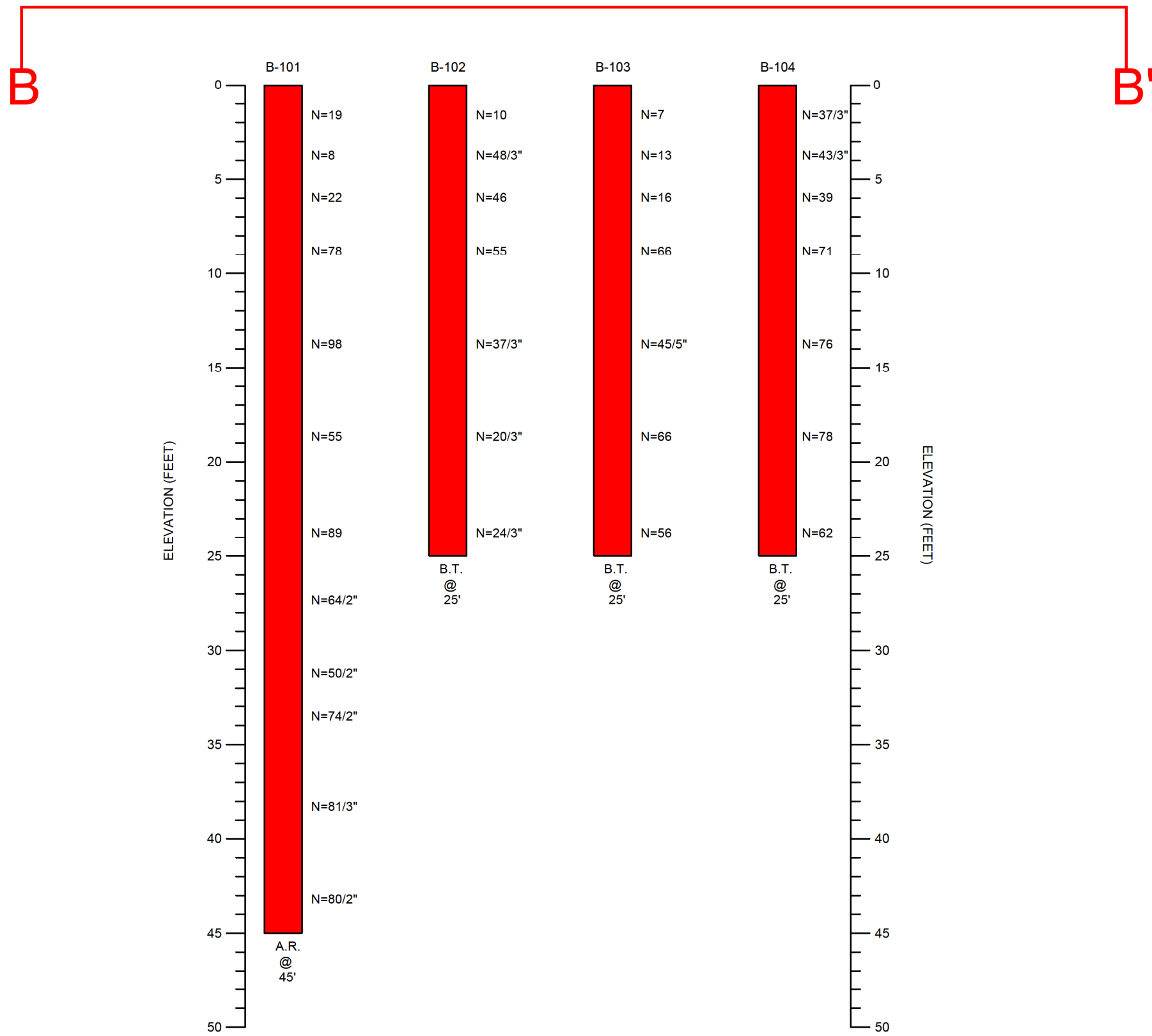
— Cross Section line (Start - End')

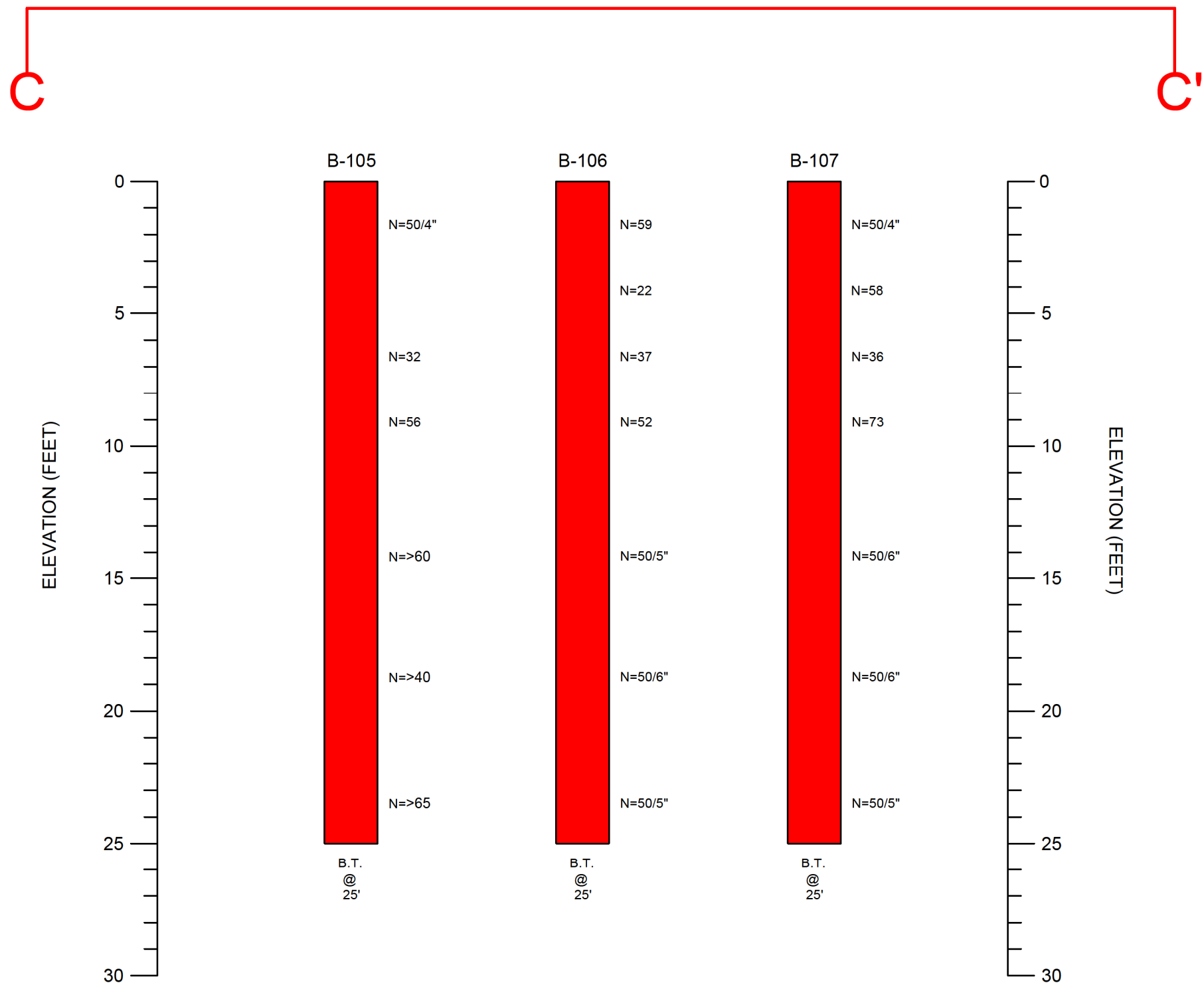


Notes:

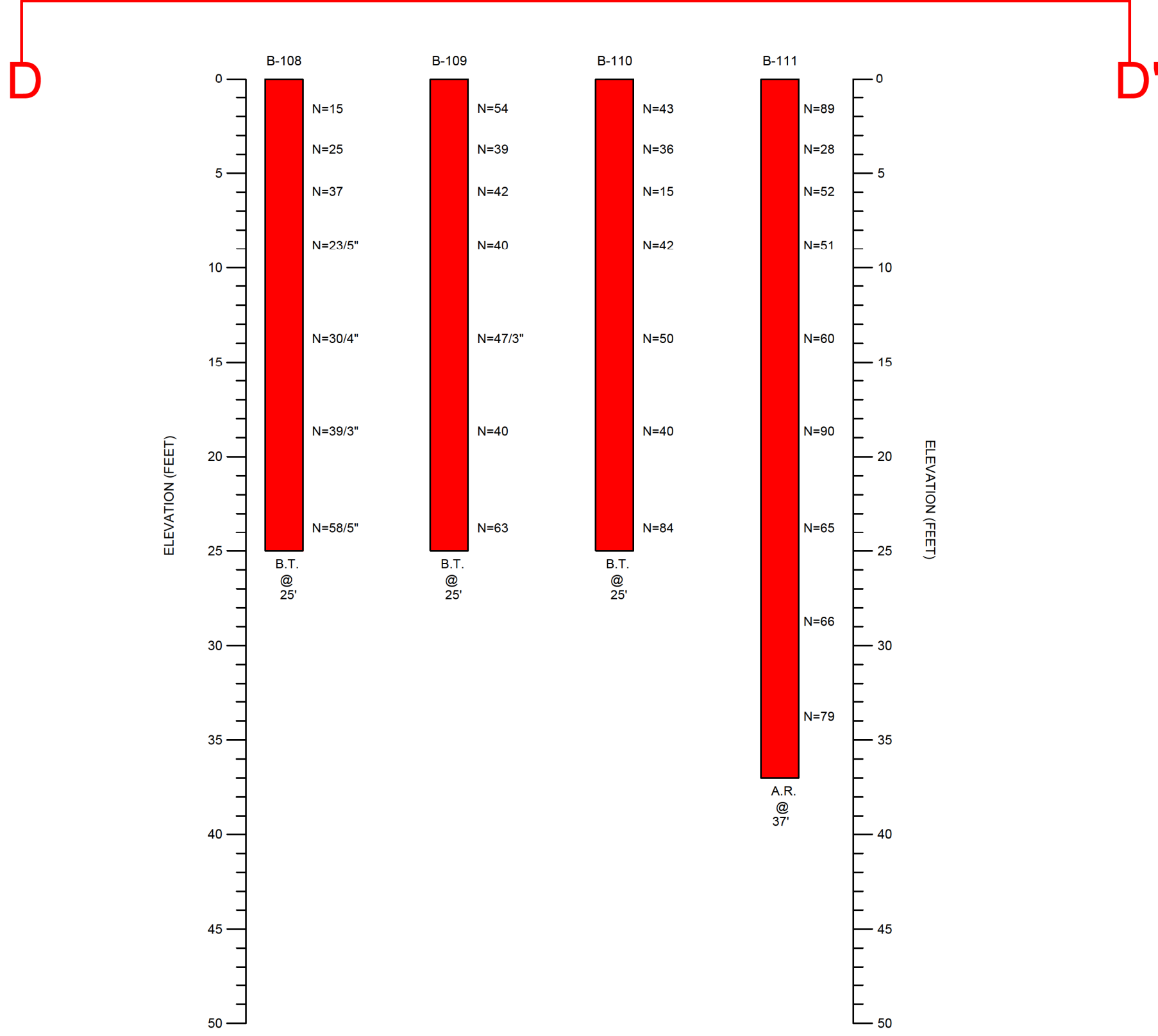
1) B.T. = Boring Termination 3) Not To Scale
2) A.R. = Auger Refusal

 RESIDUUM

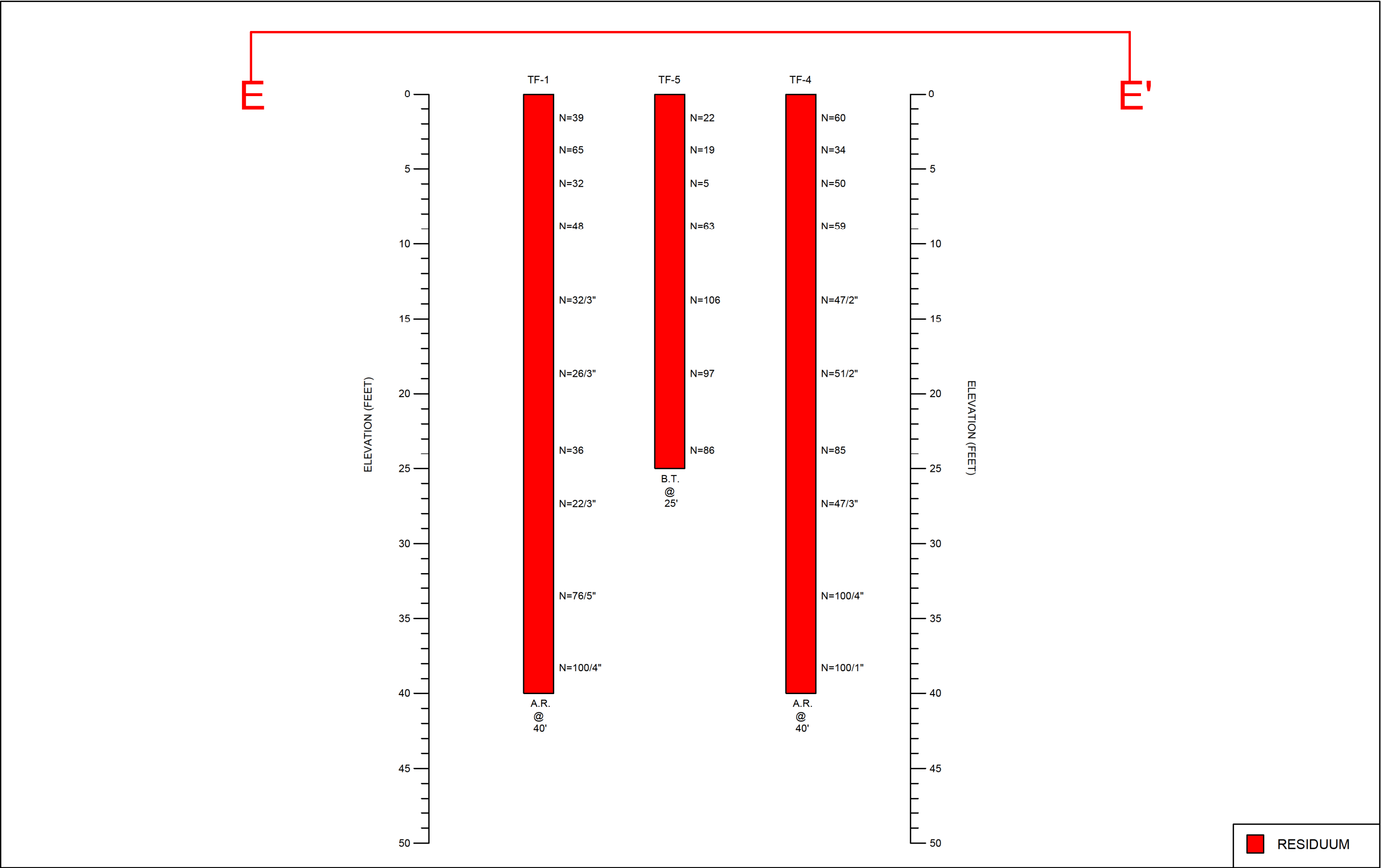




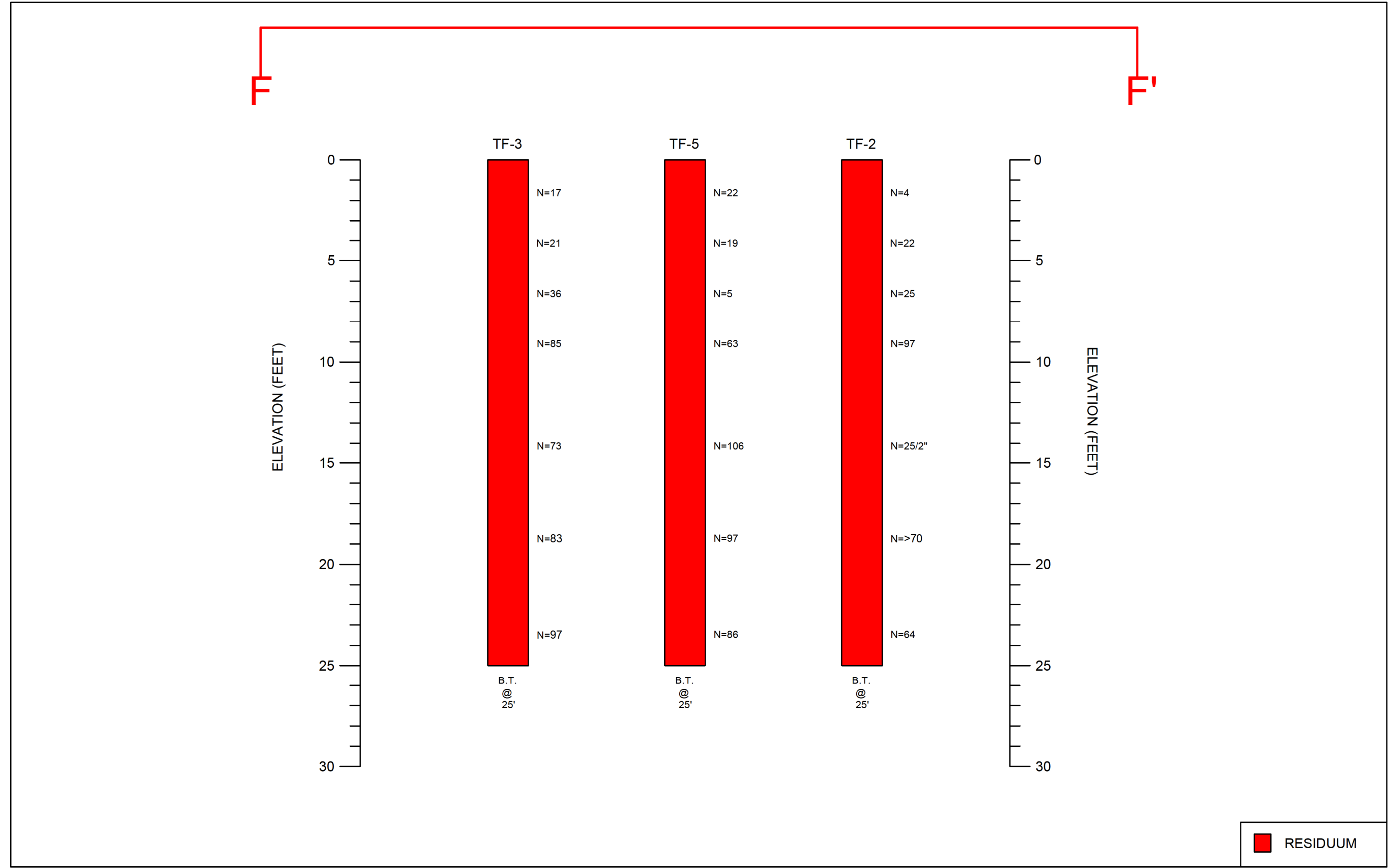
Notes:
1) B.T. = Boring Termination 3) Not To Scale
2) A.R. = Auger Refusal



Notes:
1) B.T. = Boring Termination 3) Not To Scale
2) A.R. = Auger Refusal



Notes:
1) B.T. = Boring Termination 3) Not To Scale
2) A.R. = Auger Refusal



Notes:
1) B.T. = Boring Termination 3) Not To Scale
2) A.R. = Auger Refusal

GENERAL NOTES

FINE AND COARSE GRAINED SOIL PROPERTIES

PARTICLE SIZE

BOULDERS:	GREATER THAN 300 mm
COBBLES:	75 mm to 300 mm
GRAVEL:	4.74 mm to 75 mm
COARSE SAND:	2 mm to 4.74 mm
MEDIUM SAND:	0.425 mm to 2 mm
FINE SAND:	0.075 mm to 0.425 mm
SILTS & CLAYS:	LESS THAN 0.075 mm

COARSE GRAINED SOILS (SANDS & GRAVELS)

N-VALUE	RELATIVE DENSITY
0 - 4	VERY LOOSE
5 - 10	LOOSE
11 - 30	MEDIUM DENSE
31 - 50	DENSE
OVER 50	VERY DENSE

FINE GRAINED SOILS (SILTS & CLAYS)

N-VALUE	CONSISTENCY	Qu, PSF
0 - 2	VERY SOFT	0 - 500
3 - 4	SOFT	500 - 1000
5 - 8	FIRM	1000 - 2000
9 - 15	STIFF	2000 - 4000
16 - 30	VERY STIFF	4000 - 8000
OVER 31	HARD	8000 +

STANDARD PENETRATION TEST (ASTM D1586)

THE STANDARD PENETRATION TEST AS DEFINED BY ASTM D1586 IS A METHOD TO OBTAIN A DISTURBED SOIL SAMPLE FOR EXAMINATION AND TESTING AND TO OBTAIN RELATIVE DENSITY AND CONSISTENCY INFORMATION. THE 1.4 INCH I.D./2.0 INCH O.D. SAMPLER IS DRIVEN 3-SIX INCH INCREMENTS WITH A 140 LB. HAMMER FALLING 30 INCHES. THE BLOW COUNTS REQUIRED TO DRIVE THE SAMPLER THE FINAL 2 INCREMENTS ARE ADDED TOGETHER AND DESIGNATED THE N-VALUE. AT TIMES, THE SAMPLER CAN NOT BE DRIVEN THE FULL 18 INCHES. THE FOLLOWING REPRESENTS OUR INTERPRETATION OF THE STANDARD PENETRATION TEST WITH VARIATIONS.

BLOWS/FOOT (N-VALUE)

DESCRIPTION

25.....	25 BLOWS DROVE SAMPLER 12" AFTER INITIAL 6" SEATING
75/10".....	75 BLOWS DROVE SAMPLER 10" AFTER INITIAL 6" SEATING
50/PR.....	PENETRATION REFUSAL OF SAMPLER AFTER INITIAL 6" SEATING

SAMPLING SYMBOLS

ST:	UNDISTURBED SAMPLE
SS:	SPLIT SPOON SAMPLE
CORE:	ROCK CORE SAMPLE
AU:	AUGER OR BAG SAMPLE

SOIL PROPERTY SYMBOLS

N:	STANDARD PENETRATION, BPF
M:	MOISTURE CONTENT %
LL:	LIQUID LIMIT %
PI:	PLASTICITY INDEX %
Qp:	POCKET PENETROMETER VALUE, TSF
Qu:	UNCONFINED COMPRESSIVE STRENGTH, TSF
DUW:	DRY UNIT WEIGHT, PCF

ROCK PROPERTIES

ROCK HARDNESS

ROCK QUALITY DESIGNATION (RQD)

PERCENT	QUALITY
90 TO 100	EXCELLENT
75 TO 90	GOOD
50 TO 75	FAIR
25 TO 50	POOR
0 TO 25	VERY POOR

VERY SOFT:	ROCK DISINTEGRATES OR EASILY COMPRESSES TO TOUCH: CAN BE HARD TO VERY HARD SOIL.
SOFT:	ROCK IS COHERANT BUT BREAKS EASILY TO THUMB PRESSURE AT SHARP EDGES AND CRUMBLES WITH FIRM HAND PRESSURE.
MODERATELY HARD:	SMALL PIECES CAN BE BROKEN OFF ALONG SHARP EDGES BY CONSIDERABLE HARD THUMB PRESSURE: CAN BE BROKEN BY LIGHT HAMMER BLOWS.
HARD:	ROCK CAN NOT BE BROKEN BY THUMB PRESSURE, BUT CAN BE BROKEN BY MODERATE HAMMER BLOWS.
VERY HARD:	ROCK CAN BE BROKEN BY HEAVY HAMMER BLOWS.



Consolidated Interim Storage Facility
Andrews, Texas
GEOServices Project No.: 31-151247

LOG OF BORING **B-101**
SHEET 1 OF 3

DRILLING CO Apex Geoscience Inc.
DRILLER _____
LOGGED BY Sammy Joe Allison

BORING NO. / LOCATION B-101

DATE July 21, 2015 SURFACE ELEV. _____ FT.
REFUSAL: Yes DEPTH 45.0 FT. ELEV. _____ FT.
SAMPLED 45.0 FT. 13.7 M
TOP OF ROCK DEPTH 45.0 FT. ELEV. _____ FT.
BEGAN CORING DEPTH _____ FT. ELEV. _____ FT.
FOOTAGE CORED (LF) _____ FT.
BOTTOM OF HOLE DEPTH 45.0 FT. ELEV. _____ FT.

WATER LEVEL DATA (IF APPLICABLE)
COMPLETION: DEPTH Dry FT.
ELEV. _____ FT.
AFTER 24 HRS. DEPTH N/A FT.
ELEV. _____ FT.

BORING ADVANCED BY: _____ POWER AUGERING X WASHBORING _____

STRATUM		SAMPLE DEPTH		SAMPLE OR RUN NO.	SAMPLE TYPE	FIELD RESULTS		LABORATORY RESULTS			STRATUM DESCRIPTION
DEPTH		FROM	TO			N-Value	Qp	LL	PI	%M	
FT.	ELEV.	FT.	FT.								
2.5	-2.5	1.0	2.5	1	SS	3-12-7 N=19				3.6	Silty SAND (SM) with caliche - brown; fine grained; medium dense; dry; (RESIDUUM)
		3.0	4.5	2	SS	5-5-3 N=8				3.9	
5.0	-5.0	5.0	6.5	3	SS	4-10-12 N=22				6.5	
7.5	-7.5	8.0	9.5	4	SS	17-30-48 N=78				7.8	Silty SAND (SM) with caliche - orangish brown; fine grained; very dense; dry; (RESIDUUM)
10.0	-10.0										
12.5	-12.5	13.0	14.5	5	SS	30-59-39 N=98				6.7	
15.0	-15.0										
17.5	-17.5										
		18.0	19.5	6	SS	20-24-31 N=55				5.7	
20.0	-20.0										

REMARKS: _____



Consolidated Interim Storage Facility
Andrews, Texas
GEOServices Project No.: 31-151247

LOG OF BORING **B-101**
SHEET 3 OF 3

DRILLING CO Apex Geoscience Inc.
DRILLER _____
LOGGED BY Sammy Joe Allison

BORING NO. / LOCATION B-101

DATE July 21, 2015 SURFACE ELEV. _____ FT.
REFUSAL: Yes DEPTH 45.0 FT. ELEV. _____ FT.
SAMPLED 45.0 FT. 13.7 M
TOP OF ROCK DEPTH 45.0 FT. ELEV. _____ FT.
BEGAN CORING DEPTH _____ FT. ELEV. _____ FT.
FOOTAGE CORED (LF) _____ FT.
BOTTOM OF HOLE DEPTH 45.0 FT. ELEV. _____ FT.

WATER LEVEL DATA (IF APPLICABLE)
COMPLETION: DEPTH Dry FT.
ELEV. _____ FT.
AFTER 24 HRS. DEPTH N/A FT.
ELEV. _____ FT.

BORING ADVANCED BY: _____ POWER AUGERING X WASHBORING _____

STRATUM				SAMPLE DEPTH		SAMPLE OR RUN NO.	SAMPLE TYPE	FIELD RESULTS		LABORATORY RESULTS			STRATUM DESCRIPTION
DEPTH				FROM	TO								
FT.		ELEV.		FT.	FT.			N-Value	Qp	LL	PI	%M	
-	-												-
-	-												-
-	-												-
42.5	-	-42.5											-
-	-			43.0	43.2	12	SS	N=80/2"					-
-	-												-
-	-												-
45.0	-	-45.0											-
-	-												-
-	-												-
-	-												-
47.5	-	-47.5											-
-	-												-
-	-												-
-	-												-
50.0	-	-50.0											-
-	-												-
-	-												-
-	-												-
52.5	-	-52.5											-
-	-												-
-	-												-
-	-												-
55.0	-	-55.0											-
-	-												-
-	-												-
-	-												-
57.5	-	-57.5											-
-	-												-
-	-												-
-	-												-
60.0	-	-60.0											-

REMARKS: _____



Consolidated Interim Storage Facility
Andrews, Texas
GEOServices Project No.: 31-151247

LOG OF BORING **B-102**

SHEET 1 OF 2

DRILLING CO Apex Geoscience Inc.

DRILLER _____

LOGGED BY Sammy Joe Allison

BORING NO. / LOCATION

B-102

DATE July 16, 2015 SURFACE ELEV. _____ FT.

REFUSAL: No DEPTH _____ FT. ELEV. _____ FT.

SAMPLED 25.0 FT. 7.6 M

TOP OF ROCK DEPTH _____ FT. ELEV. _____ FT.

BEGAN CORING DEPTH _____ FT. ELEV. _____ FT.

FOOTAGE CORED (LF) _____ FT.

BOTTOM OF HOLE DEPTH 25.0 FT. ELEV. _____ FT.

WATER LEVEL DATA (IF APPLICABLE)

COMPLETION: DEPTH Dry FT.

ELEV. _____ FT.

AFTER 24 HRS. DEPTH N/A FT.

ELEV. _____ FT.

BORING ADVANCED BY: _____

POWER AUGERING X

WASHBORING _____

STRATUM		SAMPLE DEPTH		SAMPLE OR RUN NO.	SAMPLE TYPE	FIELD RESULTS		LABORATORY RESULTS			STRATUM DESCRIPTION
DEPTH		FROM	TO			N-Value	Qp	LL	PI	%M	
FT.	ELEV.	FT.	FT.								
2.5	-2.5	1.0	2.5	1	SS	7-6-4 N=10				3.4	Silty SAND (SM) with caliche - brown; fine grained; loose to very dense; dry; (RESIDUUM)
		3.0	3.8	2	SS	10-48/3" N=48/3"				2.8	
5.0	-5.0	5.0	6.5	3	SS	16-26-20 N=46				2.9	Silty SAND (SM) with caliche - light brown; fine grained; dense to very dense; dry; (RESIDUUM)
7.5	-7.5	8.0	9.5	4	SS	25-28-27 N=55				4.0	
10.0	-10.0	13.0	13.8	5	SS	34-37/3" N=37/3"				6.0	Silty SAND (SM) with caliche - orangish brown; fine grained; very dense; dry; (RESIDUUM)
12.5	-12.5										
15.0	-15.0										
17.5	-17.5	18.0	18.8	6	SS	43-20/3" N=20/3"				5.8	
20.0	-20.0										

REMARKS: _____



Consolidated Interim Storage Facility
Andrews, Texas
GEOServices Project No.: 31-151247

LOG OF BORING **B-102**
SHEET 2 OF 2

DRILLING CO Apex Geoscience Inc.
DRILLER _____
LOGGED BY Sammy Joe Allison

BORING NO. / LOCATION B-102

DATE July 16, 2015 SURFACE ELEV. _____ FT.
REFUSAL: No DEPTH _____ FT. ELEV. _____ FT.
SAMPLED 25.0 FT. 7.6 M
TOP OF ROCK DEPTH _____ FT. ELEV. _____ FT.
BEGAN CORING DEPTH _____ FT. ELEV. _____ FT.
FOOTAGE CORED (LF) _____ FT.
BOTTOM OF HOLE DEPTH 25.0 FT. ELEV. _____ FT.

WATER LEVEL DATA (IF APPLICABLE)
COMPLETION: DEPTH Dry FT.
ELEV. _____ FT.
AFTER 24 HRS. DEPTH N/A FT.
ELEV. _____ FT.

BORING ADVANCED BY: _____ POWER AUGERING X WASHBORING _____

STRATUM		SAMPLE DEPTH		SAMPLE OR RUN NO.	SAMPLE TYPE	FIELD RESULTS		LABORATORY RESULTS			STRATUM DESCRIPTION
DEPTH		FROM	TO			N-Value	Qp	LL	PI	%M	
FT.	ELEV.	FT.	FT.								
22.5	-22.5	23.0	23.8	7	SS	26-24/3" N=24/3"				2.9	CONTINUED Silty SAND (SM) with caliche - orangish brown; fine grained; very dense; dry; (RESIDUUM)
25.0	-25.0										
27.5	-27.5										BORING TERMINATED AT 25 FEET
30.0	-30.0										
32.5	-32.5										
35.0	-35.0										
37.5	-37.5										
40.0	-40.0										

REMARKS: _____



Consolidated Interim Storage Facility
Andrews, Texas
GEOServices Project No.: 31-151247

LOG OF BORING **B-103**

SHEET 1 OF 2

DRILLING CO Apex Geoscience Inc.

DRILLER _____

LOGGED BY Sammy Joe Allison

BORING NO. / LOCATION

B-103

DATE July 17, 2015 SURFACE ELEV. _____ FT.

REFUSAL: No DEPTH _____ FT. ELEV. _____ FT.

SAMPLED 25.0 FT. 7.6 M

TOP OF ROCK DEPTH _____ FT. ELEV. _____ FT.

BEGAN CORING DEPTH _____ FT. ELEV. _____ FT.

FOOTAGE CORED (LF) _____ FT.

BOTTOM OF HOLE DEPTH 25.0 FT. ELEV. _____ FT.

WATER LEVEL DATA (IF APPLICABLE)

COMPLETION: DEPTH Dry FT.

ELEV. _____ FT.

AFTER 24 HRS. DEPTH N/A FT.

ELEV. _____ FT.

BORING ADVANCED BY: _____

POWER AUGERING X

WASHBORING _____

STRATUM DEPTH				SAMPLE DEPTH		SAMPLE OR RUN NO.	SAMPLE TYPE	FIELD RESULTS		LABORATORY RESULTS			STRATUM DESCRIPTION
				FROM	TO								
FT.			ELEV.	FT.	FT.			N-Value	Qp	LL	PI	%M	
	-												-
	-												-
	-												-
2.5	-		-2.5	1.0	2.5	1	SS	2-3-4 N=7		26	NP	4.3	-
	-												-
	-												-
	-												-
5.0	-		-5.0	3.0	4.5	2	SS	8-5-8 N=13				4.8	-
	-												-
	-												-
	-												-
	-												-
	-												-
7.5	-		-7.5	5.0	6.5	3	SS	7-7-9 N=16				5.8	-
	-												-
	-												-
	-												-
	-												-
	-												-
	-												-
10.0	-		-10.0	8.0	9.5	4	SS	16-27-39 N=66				7.1	-
	-												-
	-												-
	-												-
	-												-
	-												-
	-												-
12.5	-		-12.5										-
	-												-
	-												-
	-												-
	-												-
	-												-
	-												-
15.0	-		-15.0	13.0	14.4	5	SS	23-35-45/5" N=45/5"				6.3	-
	-												-
	-												-
	-												-
	-												-
	-												-
	-												-
17.5	-		-17.5										-
	-												-
	-												-
	-												-
	-												-
	-												-
	-												-
20.0	-		-20.0	18.0	19.5	6	SS	17-26-40 N=66				6.1	-
	-												-
	-												-

REMARKS: _____



Consolidated Interim Storage Facility
Andrews, Texas
GEOServices Project No.: 31-151247

LOG OF BORING **B-103**

SHEET 2 OF 2

DRILLING CO Apex Geoscience Inc.

DRILLER _____

LOGGED BY Sammy Joe Allison

BORING NO. / LOCATION

B-103

DATE July 17, 2015 SURFACE ELEV. _____ FT.

REFUSAL: No DEPTH _____ FT. ELEV. _____ FT.

SAMPLED 25.0 FT. 7.6 M

TOP OF ROCK DEPTH _____ FT. ELEV. _____ FT.

BEGAN CORING DEPTH _____ FT. ELEV. _____ FT.

FOOTAGE CORED (LF) _____ FT.

BOTTOM OF HOLE DEPTH 25.0 FT. ELEV. _____ FT.

WATER LEVEL DATA (IF APPLICABLE)

COMPLETION: DEPTH Dry FT.

ELEV. _____ FT.

AFTER 24 HRS. DEPTH N/A FT.

ELEV. _____ FT.

BORING ADVANCED BY: _____

POWER AUGERING X

WASHBORING _____

STRATUM				SAMPLE DEPTH		SAMPLE OR RUN NO.	SAMPLE TYPE	FIELD RESULTS		LABORATORY RESULTS			STRATUM DESCRIPTION	
DEPTH				FROM	TO									
FT.	IN	IN	ELEV.	FT.	FT.			N-Value	Qp	LL	PI	%M		
			-										-	CONTINUED
			-										-	
			-										-	
22.5			-22.5										-	
			-										-	
			-										-	
			-										-	
25.0			-25.0										-	
			-										-	
			-										-	
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			-										-	
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30.0			-30.0										-	
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35.0			-35.0										-	
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REMARKS: _____



Consolidated Interim Storage Facility
Andrews, Texas
GEOServices Project No.: 31-151247

LOG OF BORING **B-104**

SHEET 1 OF 2

DRILLING CO Apex Geoscience Inc.

DRILLER _____

LOGGED BY Sammy Joe Allison

BORING NO. / LOCATION

B-104

DATE July 16, 2015 SURFACE ELEV. _____ FT.

REFUSAL: No DEPTH _____ FT. ELEV. _____ FT.

SAMPLED 25.0 FT. 7.6 M

TOP OF ROCK DEPTH _____ FT. ELEV. _____ FT.

BEGAN CORING DEPTH _____ FT. ELEV. _____ FT.

FOOTAGE CORED (LF) _____ FT.

BOTTOM OF HOLE DEPTH 25.0 FT. ELEV. _____ FT.

WATER LEVEL DATA (IF APPLICABLE)

COMPLETION: DEPTH Dry FT.

ELEV. _____ FT.

AFTER 24 HRS. DEPTH N/A FT.

ELEV. _____ FT.

BORING ADVANCED BY:

POWER AUGERING X

WASHBORING _____

STRATUM		SAMPLE DEPTH		SAMPLE OR RUN NO.	SAMPLE TYPE	FIELD RESULTS		LABORATORY RESULTS			STRATUM DESCRIPTION
DEPTH		FROM	TO			N-Value	Qp	LL	PI	%M	
FT.	ELEV.	FT.	FT.								
2.5	-2.5	1.0	2.3	1	SS	2-32-37/3" N=37/3"				3.1	Silty SAND (SM) with caliche - brown; fine grained; very dense; dry; (RESIDUUM)
		3.0	3.8	2	SS	64-43/3" N=43/3"				2.5	Silty SAND (SM) with caliche - light brown; fine grained; very dense; dry; (RESIDUUM)
5.0	-5.0	5.0	6.5	3	SS	13-18-21 N=39				4.1	
7.5	-7.5	8.0	9.5	4	SS	17-26-45 N=71				6.9	
10.0	-10.0										Silty SAND (SM) with trace caliche - orangish brown; fine grained; very dense; dry; (RESIDUUM)
12.5	-12.5	13.0	14.5	5	SS	18-33-43 N=76				6.0	
15.0	-15.0										
17.5	-17.5										
		18.0	19.5	6	SS	23-28-50 N=78				4.6	
20.0	-20.0										

REMARKS: _____



Consolidated Interim Storage Facility
Andrews, Texas
GEOServices Project No.: 31-151247

LOG OF BORING **B-104**

SHEET 2 OF 2

DRILLING CO Apex Geoscience Inc.

DRILLER _____

LOGGED BY Sammy Joe Allison

BORING NO. / LOCATION

B-104

DATE July 16, 2015 SURFACE ELEV. _____ FT.

REFUSAL: No DEPTH _____ FT. ELEV. _____ FT.

SAMPLED 25.0 FT. 7.6 M

TOP OF ROCK DEPTH _____ FT. ELEV. _____ FT.

BEGAN CORING DEPTH _____ FT. ELEV. _____ FT.

FOOTAGE CORED (LF) _____ FT.

BOTTOM OF HOLE DEPTH 25.0 FT. ELEV. _____ FT.

WATER LEVEL DATA (IF APPLICABLE)

COMPLETION: DEPTH Dry FT.

ELEV. _____ FT.

AFTER 24 HRS. DEPTH N/A FT.

ELEV. _____ FT.

BORING ADVANCED BY: _____

POWER AUGERING X

WASHBORING _____

STRATUM				SAMPLE DEPTH		SAMPLE OR RUN NO.	SAMPLE TYPE	FIELD RESULTS		LABORATORY RESULTS			STRATUM DESCRIPTION
DEPTH				FROM	TO								
FT.		ELEV.	FT.	FT.				N-Value	Qp	LL	PI	%M	
-	-												-
-	-												-
-	-												-
22.5	-	-22.5											-
-	-												-
-	-												-
-	-												-
25.0	-	-25.0											-
-	-												-
-	-												-
-	-												-
27.5	-	-27.5											-
-	-												-
-	-												-
-	-												-
30.0	-	-30.0											-
-	-												-
-	-												-
-	-												-
32.5	-	-32.5											-
-	-												-
-	-												-
-	-												-
35.0	-	-35.0											-
-	-												-
-	-												-
-	-												-
37.5	-	-37.5											-
-	-												-
-	-												-
-	-												-
40.0	-	-40.0											-

REMARKS: _____



Consolidated Interim Storage Facility
Andrews, Texas
GEOServices Project No.: 31-151247

LOG OF BORING **B-105**

SHEET 1 OF 2

DRILLING CO Apex Geoscience Inc.

DRILLER _____

LOGGED BY Sammy Joe Allison

BORING NO. / LOCATION

B-105

DATE July 15, 2015 SURFACE ELEV. _____ FT.

REFUSAL: No DEPTH _____ FT. ELEV. _____ FT.

SAMPLED 25.0 FT. 7.6 M

TOP OF ROCK DEPTH _____ FT. ELEV. _____ FT.

BEGAN CORING DEPTH _____ FT. ELEV. _____ FT.

FOOTAGE CORED (LF) _____ FT.

BOTTOM OF HOLE DEPTH 25.0 FT. ELEV. _____ FT.

WATER LEVEL DATA (IF APPLICABLE)

COMPLETION: DEPTH Dry FT.

ELEV. _____ FT.

AFTER 24 HRS. DEPTH N/A FT.

ELEV. _____ FT.

BORING ADVANCED BY: _____

POWER AUGERING X

WASHBORING _____

STRATUM				SAMPLE DEPTH		SAMPLE OR RUN NO.	SAMPLE TYPE	FIELD RESULTS		LABORATORY RESULTS			STRATUM DESCRIPTION
DEPTH				FROM	TO								
FT.			ELEV.	FT.	FT.			N-Value	Qp	LL	PI	%M	
	-												-
	-												-
	-			1.0	1.8	1	SS	6-50/4" N=50/4"				3.3	-
2.5	-		-2.5										-
	-												-
	-												-
	-												-
5.0	-		-5.0										-
	-			5.0	6.5	2	SS	10-14-18 N=32				5.3	-
	-												-
	-												-
7.5	-		-7.5										-
	-												-
	-			8.0	9.5	3	SS	14-27-29 N=56				8.1	-
	-												-
10.0	-		-10.0										-
	-												-
	-												-
	-												-
12.5	-		-12.5										-
	-			13.0	13.5	4	SS	60+ N>=60				4.8	-
	-												-
	-												-
15.0	-		-15.0										-
	-												-
	-												-
	-												-
17.5	-		-17.5										-
	-												-
	-												-
	-			18.0	19.0	5	SS	30-40+ N>=40				4.1	-
	-												-
20.0	-		-20.0										-

REMARKS: _____



Consolidated Interim Storage Facility
Andrews, Texas
GEOServices Project No.: 31-151247

LOG OF BORING **B-105**
SHEET 2 OF 2

DRILLING CO Apex Geoscience Inc.
DRILLER _____
LOGGED BY Sammy Joe Allison

BORING NO. / LOCATION B-105

DATE July 16, 2015 SURFACE ELEV. _____ FT.
REFUSAL: No DEPTH _____ FT. ELEV. _____ FT.
SAMPLED 25.0 FT. 7.6 M
TOP OF ROCK DEPTH _____ FT. ELEV. _____ FT.
BEGAN CORING DEPTH _____ FT. ELEV. _____ FT.
FOOTAGE CORED (LF) _____ FT.
BOTTOM OF HOLE DEPTH 25.0 FT. ELEV. _____ FT.

WATER LEVEL DATA (IF APPLICABLE)
COMPLETION: DEPTH Dry FT.
ELEV. _____ FT.
AFTER 24 HRS. DEPTH N/A FT.
ELEV. _____ FT.

BORING ADVANCED BY: _____ POWER AUGERING X WASHBORING _____

STRATUM		SAMPLE DEPTH		SAMPLE OR RUN NO.	SAMPLE TYPE	FIELD RESULTS		LABORATORY RESULTS			STRATUM DESCRIPTION
DEPTH		FROM	TO			N-Value	Qp	LL	PI	%M	
FT.	ELEV.	FT.	FT.								
-											CONTINUED
-											
-											Silty SAND (SM) with caliche - orangish brown; fine grained; dense to very dense; dry; (RESIDUUM)
22.5	-22.5										
-		23.0	23.5	6	SS	65+					BORING TERMINATED AT 25 FEET
-						N=>65					
-											
25.0	-25.0										
-											
-											
-											
27.5	-27.5										
-											
-											
-											
30.0	-30.0										
-											
-											
-											
32.5	-32.5										
-											
-											
-											
35.0	-35.0										
-											
-											
-											
37.5	-37.5										
-											
-											
-											
40.0	-40.0										

REMARKS: _____



Consolidated Interim Storage Facility
Andrews, Texas
GEOServices Project No.: 31-151247

LOG OF BORING **B-106**

SHEET 1 OF 2

DRILLING CO Apex Geoscience Inc.

DRILLER _____

LOGGED BY Sammy Joe Allison

BORING NO. / LOCATION

B-106

DATE July 16, 2015 SURFACE ELEV. _____ FT.

REFUSAL: No DEPTH _____ FT. ELEV. _____ FT.

SAMPLED 25.0 FT. 7.6 M

TOP OF ROCK DEPTH _____ FT. ELEV. _____ FT.

BEGAN CORING DEPTH _____ FT. ELEV. _____ FT.

FOOTAGE CORED (LF) _____ FT.

BOTTOM OF HOLE DEPTH 25.0 FT. ELEV. _____ FT.

WATER LEVEL DATA (IF APPLICABLE)

COMPLETION: DEPTH Dry FT.

ELEV. _____ FT.

AFTER 24 HRS. DEPTH N/A FT.

ELEV. _____ FT.

BORING ADVANCED BY: _____

POWER AUGERING X

WASHBORING _____

STRATUM DEPTH				SAMPLE DEPTH		SAMPLE OR RUN NO.	SAMPLE TYPE	FIELD RESULTS		LABORATORY RESULTS			STRATUM DESCRIPTION
				FROM	TO								
FT.		ELEV.	FT.	FT.			N-Value	Qp	LL	PI	%M		
-	-											-	Silty SAND (SM) with caliche - brown; fine grained; very dense; dry; (RESIDUUM)
-	-											-	
2.5	-	-2.5	1.0	2.5	1	SS	13-33-26 N=59				4.5	-	
-	-											-	
-	-											-	Silty SAND (SM) with trace caliche - light brown; fine grained; medium dense to very dense; dry; (RESIDUUM)
5.0	-	-5.0	3.0	4.5	2	SS	9-14-8 N=22				3.9	-	
-	-											-	
-	-											-	
-	-											-	
7.5	-	-7.5	5.0	6.5	3	SS	11-16-21 N=37				3.9	-	
-	-											-	
-	-											-	
-	-											-	Silty SAND (SM) with trace caliche - orangish brown; fine grained; very dense; dry; (RESIDUUM)
10.0	-	-10.0	8.0	9.5	4	SS	7-19-33 N=52				5.3	-	
-	-											-	
-	-											-	
-	-											-	
12.5	-	-12.5										-	
-	-											-	
-	-											-	
-	-											-	
15.0	-	-15.0	13.0	13.9	5	SS	33-50/5" N=50/5"				6.7	-	
-	-											-	
-	-											-	
-	-											-	
17.5	-	-17.5										-	
-	-											-	
-	-											-	
-	-											-	
20.0	-	-20.0	18.0	19.5	6	SS	25-35-50/6" N=50/6"				6.8	-	
												-	
												-	

REMARKS: _____



Consolidated Interim Storage Facility
Andrews, Texas
GEOServices Project No.: 31-151247

LOG OF BORING **B-106**
SHEET 2 OF 2

DRILLING CO Apex Geoscience Inc.
DRILLER _____
LOGGED BY Sammy Joe Allison

BORING NO. / LOCATION B-106

DATE July 16, 2015 SURFACE ELEV. _____ FT.
REFUSAL: No DEPTH _____ FT. ELEV. _____ FT.
SAMPLED 25.0 FT. 7.6 M
TOP OF ROCK DEPTH _____ FT. ELEV. _____ FT.
BEGAN CORING DEPTH _____ FT. ELEV. _____ FT.
FOOTAGE CORED (LF) _____ FT.
BOTTOM OF HOLE DEPTH 25.0 FT. ELEV. _____ FT.

WATER LEVEL DATA (IF APPLICABLE)
COMPLETION: DEPTH Dry FT.
ELEV. _____ FT.
AFTER 24 HRS. DEPTH N/A FT.
ELEV. _____ FT.

BORING ADVANCED BY: _____ POWER AUGERING X WASHBORING _____

STRATUM		SAMPLE DEPTH		SAMPLE OR RUN NO.	SAMPLE TYPE	FIELD RESULTS		LABORATORY RESULTS			STRATUM DESCRIPTION
DEPTH		FROM	TO			N-Value	Qp	LL	PI	%M	
FT.	ELEV.	FT.	FT.								
22.5	-22.5	23.0	24.4	7	SS	12-37-50/5" N=50/5"				6.2	CONTINUED Silty SAND (SM) with trace caliche - orangish brown; fine grained; very dense; dry; (RESIDUUM)
25.0	-25.0										
27.5	-27.5										
30.0	-30.0										
32.5	-32.5										
35.0	-35.0										BORING TERMINATED AT 25 FEET
37.5	-37.5										
40.0	-40.0										

REMARKS: _____



Consolidated Interim Storage Facility
Andrews, Texas
GEOServices Project No.: 31-151247

LOG OF BORING **B-107**

SHEET 1 OF 2

DRILLING CO Apex Geoscience Inc.

DRILLER _____

LOGGED BY Sammy Joe Allison

BORING NO. / LOCATION

B-107

DATE July 16, 2015 SURFACE ELEV. _____ FT.

REFUSAL: No DEPTH _____ FT. ELEV. _____ FT.

SAMPLED 25.0 FT. 7.6 M

TOP OF ROCK DEPTH _____ FT. ELEV. _____ FT.

BEGAN CORING DEPTH _____ FT. ELEV. _____ FT.

FOOTAGE CORED (LF) _____ FT.

BOTTOM OF HOLE DEPTH 25.0 FT. ELEV. _____ FT.

WATER LEVEL DATA (IF APPLICABLE)

COMPLETION: DEPTH Dry FT.

ELEV. _____ FT.

AFTER 24 HRS. DEPTH N/A FT.

ELEV. _____ FT.

BORING ADVANCED BY: _____

POWER AUGERING X

WASHBORING _____

STRATUM DEPTH				SAMPLE DEPTH		SAMPLE OR RUN NO.	SAMPLE TYPE	FIELD RESULTS		LABORATORY RESULTS			STRATUM DESCRIPTION
				FROM	TO								
FT.			ELEV.	FT.	FT.			N-Value	Qp	LL	PI	%M	
-													-
-													-
-				1.0	1.8	1	SS	7-50/4" N=50/4"				5.3	-
2.5			-2.5										-
-													-
-				3.0	4.5	2	SS	7-25-33 N=58				4.5	-
-													-
5.0			-5.0										-
-													-
-				5.0	6.5	3	SS	9-16-20 N=36				4.1	-
-													-
7.5			-7.5										-
-													-
-				8.0	9.5	4	SS	22-32-41 N=73				5.7	-
-													-
10.0			-10.0										-
-													-
-													-
12.5			-12.5										-
-													-
-				13.0	14.0	5	SS	31-50/6" N=50/6"				7.2	-
-													-
15.0			-15.0										-
-													-
-													-
17.5			-17.5										-
-													-
-													-
-				18.0	19.5	6	SS	16-32-50/6" N=50/6"				6.3	-
20.0			-20.0										-

REMARKS: _____



Consolidated Interim Storage Facility
Andrews, Texas
GEO Services Project No.: 31-151247

LOG OF BORING **B-107**

SHEET 2 OF 2

DRILLING CO Apex Geoscience Inc.

DRILLER _____

LOGGED BY Sammy Joe Allison

BORING NO. / LOCATION

B-107

DATE July 16, 2015 SURFACE ELEV. _____ FT.

REFUSAL: No DEPTH _____ FT. ELEV. _____ FT.

SAMPLED 25.0 FT. 7.6 M

TOP OF ROCK DEPTH _____ FT. ELEV. _____ FT.

BEGAN CORING DEPTH _____ FT. ELEV. _____ FT.

FOOTAGE CORED (LF) _____ FT.

BOTTOM OF HOLE DEPTH 25.0 FT. ELEV. _____ FT.

WATER LEVEL DATA (IF APPLICABLE)

COMPLETION: DEPTH Dry FT.

ELEV. _____ FT.

AFTER 24 HRS. DEPTH N/A FT.

ELEV. _____ FT.

BORING ADVANCED BY: _____

POWER AUGERING X

WASHBORING _____

STRATUM				SAMPLE DEPTH		SAMPLE OR RUN NO.	SAMPLE TYPE	FIELD RESULTS		LABORATORY RESULTS			STRATUM DESCRIPTION
DEPTH				FROM	TO								
FT.		ELEV.		FT.	FT.			N-Value	Qp	LL	PI	%M	
	-												-
	-												-
	-												-
22.5	-	-22.5											-
	-												-
	-												-
	-												-
25.0	-	-25.0											-
	-												-
	-												-
	-												-
27.5	-	-27.5											-
	-												-
	-												-
	-												-
30.0	-	-30.0											-
	-												-
	-												-
	-												-
32.5	-	-32.5											-
	-												-
	-												-
	-												-
35.0	-	-35.0											-
	-												-
	-												-
	-												-
37.5	-	-37.5											-
	-												-
	-												-
	-												-
40.0	-	-40.0											-

REMARKS: _____



**Consolidated Interim Storage Facility
Andrews, Texas**
GEOServices Project No.: 31-151247

LOG OF BORING **B-108**

SHEET 1 OF 2

DRILLING CO Apex Geoscience Inc.

DRILLER _____

LOGGED BY Sammy Joe Allison

BORING NO. / LOCATION

B-108

DATE July 15, 2015 SURFACE ELEV. _____ FT.

REFUSAL: No DEPTH _____ FT. ELEV. _____ FT.

SAMPLED 25.0 FT. 7.6 M

TOP OF ROCK DEPTH _____ FT. ELEV. _____ FT.

BEGAN CORING DEPTH _____ FT. ELEV. _____ FT.

FOOTAGE CORED (LF) _____ FT.

BOTTOM OF HOLE DEPTH 25.0 FT. ELEV. _____ FT.

WATER LEVEL DATA (IF APPLICABLE)

COMPLETION: DEPTH Dry FT.

ELEV. _____ FT.

AFTER 24 HRS. DEPTH N/A FT.

ELEV. _____ FT.

BORING ADVANCED BY: _____

POWER AUGERING X

WASHBORING _____

STRATUM				SAMPLE DEPTH		SAMPLE OR RUN NO.	SAMPLE TYPE	FIELD RESULTS		LABORATORY RESULTS			STRATUM DESCRIPTION
DEPTH				FROM	TO								
FT.			ELEV.	FT.	FT.			N-Value	Qp	LL	PI	%M	
	—			1.0	2.5	1	SS	1-5-10 N=15				4.9	Silty SAND (SM) with caliche - brown to light brown; fine grained; medium dense; dry; (RESIDUUM)
2.5	—	-2.5											
	—												
	—			3.0	4.5	2	SS	2-9-16 N=25				4.9	
	—												
5.0	—	-5.0											
	—			5.0	6.5	3	SS	10-17-20 N=37				6.0	
	—												
7.5	—	-7.5											
	—			8.0	9.4	4	SS	14-32-23/5" N=23/5"				6.3	
	—												
10.0	—	-10.0											
	—			13.0	13.8	5	SS	22-30/4" N=30/4"				8.4	Silty SAND (SM) with caliche - orangish brown; fine grained; dense to very dense; dry; (RESIDUUM)
12.5	—	-12.5											
	—												
15.0	—	-15.0		18.0	18.8	6	SS	38-39/3" N=39/3"				6.6	
	—												
17.5	—	-17.5											
	—												
20.0	—	-20.0											

REMARKS: _____



Consolidated Interim Storage Facility
Andrews, Texas
GEOservices Project No.: 31-151247

LOG OF BORING **B-108**
SHEET 2 OF 2

DRILLING CO Apex Geoscience Inc.
DRILLER _____
LOGGED BY Sammy Joe Allison

BORING NO. / LOCATION B-108

DATE July 15, 2015 SURFACE ELEV. _____ FT.
REFUSAL: No DEPTH _____ FT. ELEV. _____ FT.
SAMPLED 25.0 FT. 7.6 M
TOP OF ROCK DEPTH _____ FT. ELEV. _____ FT.
BEGAN CORING DEPTH _____ FT. ELEV. _____ FT.
FOOTAGE CORED (LF) _____ FT.
BOTTOM OF HOLE DEPTH 25.0 FT. ELEV. _____ FT.

WATER LEVEL DATA (IF APPLICABLE)
COMPLETION: DEPTH Dry FT.
ELEV. _____ FT.
AFTER 24 HRS. DEPTH N/A FT.
ELEV. _____ FT.

BORING ADVANCED BY: _____ POWER AUGERING X WASHBORING _____

STRATUM				SAMPLE DEPTH		SAMPLE OR RUN NO.	SAMPLE TYPE	FIELD RESULTS		LABORATORY RESULTS			STRATUM DESCRIPTION
DEPTH				FROM	TO								
FT.		ELEV.		FT.	FT.			N-Value	Qp	LL	PI	%M	
	-												-
	-												-
	-												-
	-												-
22.5	-	-22.5											-
	-			23.0	23.4	7	SS	N=58/5"				6	-
	-												-
	-												-
25.0	-	-25.0											-
	-												-
	-												-
	-												-
	-												-
27.5	-	-27.5											-
	-												-
	-												-
	-												-
	-												-
30.0	-	-30.0											-
	-												-
	-												-
	-												-
	-												-
32.5	-	-32.5											-
	-												-
	-												-
	-												-
	-												-
35.0	-	-35.0											-
	-												-
	-												-
	-												-
	-												-
37.5	-	-37.5											-
	-												-
	-												-
	-												-
40.0	-	-40.0											-

REMARKS: _____



Consolidated Interim Storage Facility
Andrews, Texas
GEOServices Project No.: 31-151247

LOG OF BORING **B-109**

SHEET 1 OF 2

DRILLING CO Apex Geoscience Inc.

DRILLER _____

LOGGED BY Sammy Joe Allison

BORING NO. / LOCATION

B-109

DATE July 15, 2015 SURFACE ELEV. _____ FT.

REFUSAL: No DEPTH _____ FT. ELEV. _____ FT.

SAMPLED 25.0 FT. 7.6 M

TOP OF ROCK DEPTH _____ FT. ELEV. _____ FT.

BEGAN CORING DEPTH _____ FT. ELEV. _____ FT.

FOOTAGE CORED (LF) _____ FT.

BOTTOM OF HOLE DEPTH 25.0 FT. ELEV. _____ FT.

WATER LEVEL DATA (IF APPLICABLE)

COMPLETION: DEPTH Dry FT.

ELEV. _____ FT.

AFTER 24 HRS. DEPTH N/A FT.

ELEV. _____ FT.

BORING ADVANCED BY: _____

POWER AUGERING X

WASHBORING _____

STRATUM		SAMPLE DEPTH		SAMPLE OR RUN NO.	SAMPLE TYPE	FIELD RESULTS		LABORATORY RESULTS			STRATUM DESCRIPTION
DEPTH		FROM	TO			N-Value	Qp	LL	PI	%M	
FT.	ELEV.	FT.	FT.								
-											
-											
-											
-		1.0	2.5	1	SS	3-31-23 N=54				3.4	Silty SAND (SM) with caliche - brown; fine grained; very dense; dry; (RESIDUUM)
2.5	-2.5										
-											
-		3.0	4.5	2	SS	6-15-24 N=39				4.2	
-											
5.0	-5.0										
-											
-		5.0	6.5	3	SS	10-18-24 N=42				3.8	
-											
7.5	-7.5										
-											
-		8.0	9.0	4	SS	29-40+ N=>40				3.2	Silty SAND (SM) with caliche - light brown; fine grained; dense to very dense; dry; (RESIDUUM)
-											
10.0	-10.0										
-											
-											
12.5	-12.5										
-											
-		13.0	13.3	5	SS	47/3" N=47/3"				8.5	
-											
15.0	-15.0										
-											
-											
17.5	-17.5										
-											
-		18.0	18.7	6	SS	42-40+ N=>40				6.3	Silty SAND (SM) with caliche - orangish brown; fine grained; very dense; dry; (RESIDUUM)
-											
20.0	-20.0										

REMARKS: _____



**Consolidated Interim Storage Facility
Andrews, Texas**
GEOservices Project No.: 31-151247

LOG OF BORING **B-109**
SHEET 2 OF 2

DRILLING CO Apex Geoscience Inc.
DRILLER _____
LOGGED BY Sammy Joe Allison

BORING NO. / LOCATION B-109

DATE July 15, 2015 SURFACE ELEV. _____ FT.
REFUSAL: No DEPTH _____ FT. ELEV. _____ FT.
SAMPLED 25.0 FT. 7.6 M
TOP OF ROCK DEPTH _____ FT. ELEV. _____ FT.
BEGAN CORING DEPTH _____ FT. ELEV. _____ FT.
FOOTAGE CORED (LF) _____ FT.
BOTTOM OF HOLE DEPTH 25.0 FT. ELEV. _____ FT.

WATER LEVEL DATA (IF APPLICABLE)
COMPLETION: DEPTH Dry FT.
ELEV. _____ FT.
AFTER 24 HRS. DEPTH N/A FT.
ELEV. _____ FT.

BORING ADVANCED BY: _____ POWER AUGERING X WASHBORING _____

STRATUM		SAMPLE DEPTH		SAMPLE OR RUN NO.	SAMPLE TYPE	FIELD RESULTS		LABORATORY RESULTS			STRATUM DESCRIPTION
DEPTH		FROM	TO			N-Value	Qp	LL	PI	%M	
FT.	ELEV.	FT.	FT.								
22.5	-22.5	23.0	24.5	7	SS	32-33-30 N=63				4.7	CONTINUED Silty SAND (SM) with caliche - orangish brown; fine grained; very dense; dry; (RESIDUUM)
25.0	-25.0										
27.5	-27.5										BORING TERMINATED AT 25 FEET
30.0	-30.0										
32.5	-32.5										
35.0	-35.0										
37.5	-37.5										
40.0	-40.0										

REMARKS: _____



Consolidated Interim Storage Facility
Andrews, Texas
GEOServices Project No.: 31-151247

LOG OF BORING **B-110**
SHEET 1 OF 2

DRILLING CO Apex Geoscience Inc.
DRILLER _____
LOGGED BY Sammy Joe Allison

BORING NO. / LOCATION B-110

DATE July 16, 2015 SURFACE ELEV. _____ FT.
REFUSAL: No DEPTH _____ FT. ELEV. _____ FT.
SAMPLED 25.0 FT. 7.6 M
TOP OF ROCK DEPTH _____ FT. ELEV. _____ FT.
BEGAN CORING DEPTH _____ FT. ELEV. _____ FT.
FOOTAGE CORED (LF) _____ FT.
BOTTOM OF HOLE DEPTH 25.0 FT. ELEV. _____ FT.

WATER LEVEL DATA (IF APPLICABLE)
COMPLETION: DEPTH Dry FT.
ELEV. _____ FT.
AFTER 24 HRS. DEPTH N/A FT.
ELEV. _____ FT.

BORING ADVANCED BY: _____ POWER AUGERING X WASHBORING _____

STRATUM		SAMPLE DEPTH		SAMPLE OR RUN NO.	SAMPLE TYPE	FIELD RESULTS		LABORATORY RESULTS			STRATUM DESCRIPTION
DEPTH		FROM	TO			N-Value	Qp	LL	PI	%M	
FT.	ELEV.	FT.	FT.								
-											
-											
-											
-		1.0	2.5	1	SS	4-27-16 N=43		29	NP	5.0	Silty SAND (SM) with caliche - brown; fine grained; dense; dry; (RESIDUUM)
2.5	-2.5										
-											
-		3.0	4.5	2	SS	14-18-18 N=36				4.7	
-											
5.0	-5.0										
-											
-		5.0	6.5	3	SS	8-7-6 N=15				6.0	
-											
7.5	-7.5										
-											
-		8.0	9.5	4	SS	9-14-28 N=42				8.9	Silty SAND (SM) with caliche - light brown; fine grained; medium dense to very dense; dry; (RESIDUUM)
10.0	-10.0										
-											
-											
12.5	-12.5										
-											
-		13.0	14.0	5	SS	23-50+ N=>50				7.1	
15.0	-15.0										
-											
-											
17.5	-17.5										
-											
-		18.0	19.0	6	SS	36-40+ N=>40				5.1	Silty SAND (SM) with caliche - orangish brown; fine grained; very dense; dry; (RESIDUUM)
20.0	-20.0										

REMARKS: _____



Consolidated Interim Storage Facility
Andrews, Texas
GEOServices Project No.: 31-151247

LOG OF BORING **B-110**
SHEET 2 OF 2

DRILLING CO Apex Geoscience Inc.
DRILLER _____
LOGGED BY Sammy Joe Allison

BORING NO. / LOCATION B-110

DATE July 16, 2015 SURFACE ELEV. _____ FT.
REFUSAL: No DEPTH _____ FT. ELEV. _____ FT.
SAMPLED 25.0 FT. 7.6 M
TOP OF ROCK DEPTH _____ FT. ELEV. _____ FT.
BEGAN CORING DEPTH _____ FT. ELEV. _____ FT.
FOOTAGE CORED (LF) _____ FT.
BOTTOM OF HOLE DEPTH 25.0 FT. ELEV. _____ FT.

WATER LEVEL DATA (IF APPLICABLE)
COMPLETION: DEPTH Dry FT.
ELEV. _____ FT.
AFTER 24 HRS. DEPTH N/A FT.
ELEV. _____ FT.

BORING ADVANCED BY: _____ POWER AUGERING X WASHBORING _____

STRATUM		SAMPLE DEPTH		SAMPLE OR RUN NO.	SAMPLE TYPE	FIELD RESULTS		LABORATORY RESULTS			STRATUM DESCRIPTION
DEPTH		FROM	TO			N-Value	Qp	LL	PI	%M	
FT.	ELEV.	FT.	FT.								
22.5	-22.5	23.0	24.5	7	SS	20-32-52 N=84				4.4	CONTINUED Silty SAND (SM) with caliche - orangish brown; fine grained; very dense; dry; (RESIDUUM)
25.0	-25.0										
27.5	-27.5										
30.0	-30.0										
32.5	-32.5										BORING TERMINATED AT 25 FEET
35.0	-35.0										
37.5	-37.5										
40.0	-40.0										

REMARKS: _____



Consolidated Interim Storage Facility
Andrews, Texas
GEOServices Project No.: 31-151247

LOG OF BORING **B-111**
SHEET 1 OF 2

DRILLING CO Apex Geoscience Inc.
DRILLER _____
LOGGED BY Sammy Joe Allison

BORING NO. / LOCATION B-111

DATE July 20, 2015 SURFACE ELEV. _____ FT.
REFUSAL: Yes DEPTH 37.0 FT. ELEV. _____ FT.
SAMPLED 37.0 FT. 11.3 M
TOP OF ROCK DEPTH 37.0 FT. ELEV. _____ FT.
BEGAN CORING DEPTH _____ FT. ELEV. _____ FT.
FOOTAGE CORED (LF) _____ FT.
BOTTOM OF HOLE DEPTH 37.0 FT. ELEV. _____ FT.

WATER LEVEL DATA (IF APPLICABLE)

COMPLETION: DEPTH Dry FT.
ELEV. _____ FT.
AFTER 24 HRS. DEPTH N/A FT.
ELEV. _____ FT.

BORING ADVANCED BY: _____ POWER AUGERING X WASHBORING _____

STRATUM		SAMPLE DEPTH		SAMPLE OR RUN NO.	SAMPLE TYPE	FIELD RESULTS		LABORATORY RESULTS			STRATUM DESCRIPTION
DEPTH		FROM	TO			N-Value	Qp	LL	PI	%M	
FT.	ELEV.	FT.	FT.								
-											
-											
-											
-		1.0	2.5	1	SS	5-24-65 N=89				6.7	Silty SAND (SM) with caliche - brown; fine grained; very dense; dry; (RESIDUUM)
2.5	-2.5										
-											
-		3.0	4.5	2	SS	15-16-12 N=28				4.5	
-											
5.0	-5.0										
-											
-		5.0	6.5	3	SS	12-19-33 N=52				5.2	Silty SAND (SM) with trace caliche - light brown; fine grained; medium dense to very dense; dry; (RESIDUUM)
-											
7.5	-7.5										
-											
-		8.0	9.5	4	SS	14-19-32 N=51				4.3	
-											
10.0	-10.0										
-											
-											
12.5	-12.5										
-											
-		13.0	14.0	5	SS	35-60+ N=>60				6.6	
-											
15.0	-15.0										Silty SAND (SM) with trace caliche - orangish brown; fine grained; very dense; dry; (RESIDUUM)
-											
-											
17.5	-17.5										
-											
-											
-		18.0	19.0	6	SS	32-90+ N=>90				5.8	
-											
20.0	-20.0										

REMARKS: _____



Consolidated Interim Storage Facility
Andrews, Texas
GEOServices Project No.: 31-151247

LOG OF BORING **B-111**
SHEET 2 OF 2

DRILLING CO Apex Geoscience Inc.
DRILLER _____
LOGGED BY Sammy Joe Allison

BORING NO. / LOCATION B-111

DATE July 20, 2015 SURFACE ELEV. _____ FT.
REFUSAL: Yes DEPTH 37.0 FT. ELEV. _____ FT.
SAMPLED 37.0 FT. 11.3 M
TOP OF ROCK DEPTH 37.0 FT. ELEV. _____ FT.
BEGAN CORING DEPTH _____ FT. ELEV. _____ FT.
FOOTAGE CORED (LF) _____ FT.
BOTTOM OF HOLE DEPTH 37.0 FT. ELEV. _____ FT.

WATER LEVEL DATA (IF APPLICABLE)
COMPLETION: DEPTH Dry FT.
ELEV. _____ FT.
AFTER 24 HRS. DEPTH N/A FT.
ELEV. _____ FT.

BORING ADVANCED BY: _____ POWER AUGERING X WASHBORING _____

STRATUM		SAMPLE DEPTH		SAMPLE OR RUN NO.	SAMPLE TYPE	FIELD RESULTS		LABORATORY RESULTS			STRATUM DESCRIPTION
DEPTH		FROM	TO			N-Value	Qp	LL	PI	%M	
FT.	ELEV.	FT.	FT.								
22.5	-22.5	23.0	24.0	7	SS	37-65+ N=>65				6	CONTINUED Silty SAND (SM) with trace caliche - orangish brown; fine grained; very dense; dry; (RESIDUUM)
25.0	-25.0										
27.5	-27.5	28.0	29.5	8	SS	34-33-33 N=66				4.3	
30.0	-30.0										
32.5	-32.5	33.0	34.5	9	SS	24-31-48 N=79				2.5	
35.0	-35.0										
37.5	-37.5										
40.0	-40.0										
											AUGER REFUSAL AT 37 FEET

REMARKS: _____



Consolidated Interim Storage Facility
Andrews, Texas

GEO Services Project No.: 31-151247

LOG OF BORING **AB-1**
SHEET 1 OF 2

DRILLING CO Apex Geoscience Inc.
DRILLER _____
LOGGED BY Sammy Joe Allison

BORING NO. / LOCATION AB-1

DATE July 15, 2015 SURFACE ELEV. _____ FT.
REFUSAL: No DEPTH _____ FT. ELEV. _____ FT.
SAMPLED 25.0 FT. 7.6 M
TOP OF ROCK DEPTH _____ FT. ELEV. _____ FT.
BEGAN CORING DEPTH _____ FT. ELEV. _____ FT.
FOOTAGE CORED (LF) _____ FT.
BOTTOM OF HOLE DEPTH 25.0 FT. ELEV. _____ FT.

WATER LEVEL DATA (IF APPLICABLE)
COMPLETION: DEPTH Dry FT.
ELEV. _____ FT.
AFTER 24 HRS. DEPTH N/A FT.
ELEV. _____ FT.

BORING ADVANCED BY: _____ POWER AUGERING X WASHBORING _____

STRATUM		SAMPLE DEPTH		SAMPLE OR RUN NO.	SAMPLE TYPE	FIELD RESULTS		LABORATORY RESULTS			STRATUM DESCRIPTION
DEPTH		FROM	TO			N-Value	Qp	LL	PI	%M	
FT.	ELEV.	FT.	FT.								
2.5	-2.5	1.0	2.5	1	SS	20-32-16 N=48				3.3	Silty SAND (SM) with caliche - brown; fine grained; dense; dry; (RESIDUUM)
5.0	-5.0	3.0	4.5	2	SS	22-30-22 N=52				3.9	Silty SAND (SM) with caliche - light brown; fine grained; very dense; dry; (RESIDUUM)
7.5	-7.5	5.0	6.5	3	SS	13-20-19 N=39				6.7	Silty SAND (SM) with caliche - orangish brown; fine grained; dense to very dense; dry; (RESIDUUM)
10.0	-10.0	8.0	9.5	4	SS	13-19-24 N=43				6.2	
12.5	-12.5	13.0	14.3	5	SS	16-19-19/4" N=19/4"				4.3	
15.0	-15.0										Silty SAND (SM) with trace caliche - orangish brown; fine grained; very dense; dry; (RESIDUUM)
17.5	-17.5	18.0	18.8	6	SS	29-21/3" N=21/3"				4.9	
20.0	-20.0										

REMARKS: _____



Consolidated Interim Storage Facility
Andrews, Texas
GEOServices Project No.: 31-151247

LOG OF BORING **AB-1**
SHEET 2 OF 2

DRILLING CO Apex Geoscience Inc.
DRILLER _____
LOGGED BY Sammy Joe Allison

BORING NO. / LOCATION AB-1

DATE July 15, 2015 SURFACE ELEV. _____ FT.
REFUSAL: No DEPTH _____ FT. ELEV. _____ FT.
SAMPLED 25.0 FT. 7.6 M
TOP OF ROCK DEPTH _____ FT. ELEV. _____ FT.
BEGAN CORING DEPTH _____ FT. ELEV. _____ FT.
FOOTAGE CORED (LF) _____ FT.
BOTTOM OF HOLE DEPTH 25.0 FT. ELEV. _____ FT.

WATER LEVEL DATA (IF APPLICABLE)
COMPLETION: DEPTH Dry FT.
ELEV. _____ FT.
AFTER 24 HRS. DEPTH N/A FT.
ELEV. _____ FT.

BORING ADVANCED BY: _____ POWER AUGERING X WASHBORING _____

STRATUM		SAMPLE DEPTH		SAMPLE OR RUN NO.	SAMPLE TYPE	FIELD RESULTS		LABORATORY RESULTS			STRATUM DESCRIPTION
DEPTH		FROM	TO			N-Value	Qp	LL	PI	%M	
FT.	ELEV.	FT.	FT.								
22.5	-22.5	23.0	23.8	7	SS	26-24/4" N=24/4"				3.2	CONTINUED Silty SAND (SM) with trace caliche - orangish brown; fine grained; very dense; dry; (RESIDUUM)
25.0	-25.0										
27.5	-27.5										BORING TERMINATED AT 25 FEET
30.0	-30.0										
32.5	-32.5										
35.0	-35.0										
37.5	-37.5										
40.0	-40.0										

REMARKS: _____



Consolidated Interim Storage Facility
Andrews, Texas
GEOServices Project No.: 31-151247

LOG OF BORING **AB-2**
SHEET 1 OF 2

DRILLING CO Apex Geoscience Inc.
DRILLER _____
LOGGED BY Sammy Joe Allison

BORING NO. / LOCATION AB-2

DATE July 13, 2015 SURFACE ELEV. _____ FT.
REFUSAL: No DEPTH _____ FT. ELEV. _____ FT.
SAMPLED 25.0 FT. 7.6 M
TOP OF ROCK DEPTH _____ FT. ELEV. _____ FT.
BEGAN CORING DEPTH _____ FT. ELEV. _____ FT.
FOOTAGE CORED (LF) _____ FT.
BOTTOM OF HOLE DEPTH 25.0 FT. ELEV. _____ FT.

WATER LEVEL DATA (IF APPLICABLE)
COMPLETION: DEPTH Dry FT.
ELEV. _____ FT.
AFTER 24 HRS. DEPTH N/A FT.
ELEV. _____ FT.

BORING ADVANCED BY: _____ POWER AUGERING X WASHBORING _____

STRATUM		SAMPLE DEPTH		SAMPLE OR RUN NO.	SAMPLE TYPE	FIELD RESULTS		LABORATORY RESULTS			STRATUM DESCRIPTION
DEPTH		FROM	TO			N-Value	Qp	LL	PI	%M	
FT.	ELEV.	FT.	FT.								
2.5	-2.5	1.0	2.5	1	SS	4-4-5 N=9				4.8	Silty SAND (SM) with caliche - brown; fine grained; loose; dry; (RESIDUUM)
5.0	-5.0	3.0	4.5	2	SS	10-10-13 N=23				5.7	Silty SAND (SM) with caliche - light brown; fine grained; medium dense; dry; (RESIDUUM)
7.5	-7.5	5.0	6.5	3	SS	11-12-17 N=29				5.5	
10.0	-10.0	8.0	9.5	4	SS	10-17-20 N=37				3.7	Silty SAND (SM) with trace caliche - orangish brown; dense; dry; (RESIDUUM)
12.5	-12.5										
15.0	-15.0	13.0	14.5	5	SS	7-25-30 N=55				3.4	Silty SAND (SM) with caliche - orangish brown; fine grained; very dense; dry; (RESIDUUM)
17.5	-17.5										
20.0	-20.0	18.0	19.5	6	SS	16-22-30 N=52				3.1	

REMARKS: _____



Consolidated Interim Storage Facility
Andrews, Texas
GEOServices Project No.: 31-151247

LOG OF BORING **AB-2**
SHEET 2 OF 2

DRILLING CO Apex Geoscience Inc.
DRILLER _____
LOGGED BY Sammy Joe Allison

BORING NO. / LOCATION AB-2

DATE July 13, 2015 SURFACE ELEV. _____ FT.
REFUSAL: No DEPTH _____ FT. ELEV. _____ FT.
SAMPLED 25.0 FT. 7.6 M
TOP OF ROCK DEPTH _____ FT. ELEV. _____ FT.
BEGAN CORING DEPTH _____ FT. ELEV. _____ FT.
FOOTAGE CORED (LF) _____ FT.
BOTTOM OF HOLE DEPTH 25.0 FT. ELEV. _____ FT.

WATER LEVEL DATA (IF APPLICABLE)
COMPLETION: DEPTH Dry FT.
ELEV. _____ FT.
AFTER 24 HRS. DEPTH N/A FT.
ELEV. _____ FT.

BORING ADVANCED BY: _____ POWER AUGERING X WASHBORING _____

STRATUM DEPTH				SAMPLE DEPTH		SAMPLE OR RUN NO.	SAMPLE TYPE	FIELD RESULTS		LABORATORY RESULTS			STRATUM DESCRIPTION
				FROM	TO								
FT.	IN	IN	ELEV.	FT.	FT.			N-Value	Qp	LL	PI	%M	
22.5			-22.5										
25.0			-25.0										
27.5			-27.5										
30.0			-30.0										

REMARKS: _____



**Consolidated Interim Storage Facility
Andrews, Texas**
GEOServices Project No.: 31-151247

LOG OF BORING **TF-1**
SHEET 1 OF 2

DRILLING CO Apex Geoscience Inc.
DRILLER _____
LOGGED BY Sammy Joe Allison

BORING NO. / LOCATION TF-1

DATE July 16, 2015 SURFACE ELEV. _____ FT.
REFUSAL: Yes DEPTH 40.0 FT. ELEV. _____ FT.
SAMPLED 40.0 FT. 12.2 M
TOP OF ROCK DEPTH 40.0 FT. ELEV. _____ FT.
BEGAN CORING DEPTH _____ FT. ELEV. _____ FT.
FOOTAGE CORED (LF) _____ FT.
BOTTOM OF HOLE DEPTH 40.0 FT. ELEV. _____ FT.

WATER LEVEL DATA (IF APPLICABLE)
COMPLETION: DEPTH Dry FT.
ELEV. _____ FT.
AFTER 24 HRS. DEPTH N/A FT.
ELEV. _____ FT.

BORING ADVANCED BY: _____ POWER AUGERING X WASHBORING _____

STRATUM		SAMPLE DEPTH		SAMPLE OR RUN NO.	SAMPLE TYPE	FIELD RESULTS		LABORATORY RESULTS			STRATUM DESCRIPTION
DEPTH		FROM	TO			N-Value	Qp	LL	PI	%M	
FT.	ELEV.	FT.	FT.								
2.5	-2.5	1.0	2.5	1	SS	4-24-15 N=39				3.0	Silty SAND (SM) with caliche - grayish brown and brown; fine grained; dense; dry; (RESIDUUM)
5.0	-5.0	3.0	4.5	2	SS	24-38-27 N=65				2.8	Silty SAND (SM) with caliche -light brown to brown; fine grained; very dense to dense; dry; (RESIDUUM)
7.5	-7.5	5.0	6.5	3	SS	11-12-20 N=32				4.8	
10.0	-10.0	8.0	9.5	4	SS	20-20-28 N=48				2.8	Silty SAND (SM) with trace caliche - orangish brown; fine grained; very dense; dry; (RESIDUUM)
12.5	-12.5	13.0	14.3	5	SS	20-48-32/3" N=32/3"				5.8	
15.0	-15.0	18.0	19.3	6	SS	26-48-26/3" N=26/3"				5.4	
17.5	-17.5										
20.0	-20.0										

REMARKS: _____



Consolidated Interim Storage Facility
Andrews, Texas
GEOServices Project No.: 31-151247

LOG OF BORING **TF-1**
SHEET 2 OF 2

DRILLING CO Apex Geoscience Inc.
DRILLER _____
LOGGED BY Sammy Joe Allison

BORING NO. / LOCATION TF-1

DATE July 21, 2015 SURFACE ELEV. _____ FT.
REFUSAL: Yes DEPTH 40.0 FT. ELEV. _____ FT.
SAMPLED 40.0 FT. 12.2 M
TOP OF ROCK DEPTH 40.0 FT. ELEV. _____ FT.
BEGAN CORING DEPTH _____ FT. ELEV. _____ FT.
FOOTAGE CORED (LF) _____ FT.
BOTTOM OF HOLE DEPTH 40.0 FT. ELEV. _____ FT.

WATER LEVEL DATA (IF APPLICABLE)
COMPLETION: DEPTH Dry FT.
ELEV. _____ FT.
AFTER 24 HRS. DEPTH N/A FT.
ELEV. _____ FT.

BORING ADVANCED BY: _____ POWER AUGERING X WASHBORING _____

STRATUM		SAMPLE DEPTH		SAMPLE OR RUN NO.	SAMPLE TYPE	FIELD RESULTS		LABORATORY RESULTS			STRATUM DESCRIPTION
DEPTH		FROM	TO			N-Value	Qp	LL	PI	%M	
FT.	ELEV.	FT.	FT.								
22.5	-22.5										CONTINUED
23.0		23.0	24.5	7	SS	15-16-20 N=36				2.7	Silty SAND (SM) with trace caliche - orangish brown; fine grained; very dense; dry; (RESIDUUM)
25.0	-25.0										
27.5	-27.5										
28.0		28.0	29.3	8	SS	28-50-22/3" N=22/3"				3.0	
30.0	-30.0										
32.5	-32.5										
33.0		33.0	33.4	10	SS	N=76/5"				3.7	
35.0	-35.0										
37.5	-37.5										
38.0		38.0	38.3	11	SS	N=100/4"				4.6	
40.0	-40.0										

AUGER REFUSAL AT 40 FEET

REMARKS: _____



Consolidated Interim Storage Facility
Andrews, Texas
GEOServices Project No.: 31-151247

LOG OF BORING **TF-2**
SHEET 1 OF 2

DRILLING CO Apex Geoscience Inc.
DRILLER _____
LOGGED BY Sammy Joe Allison

BORING NO. / LOCATION TF-2

DATE July 16, 2015 SURFACE ELEV. _____ FT.
REFUSAL: No DEPTH _____ FT. ELEV. _____ FT.
SAMPLED 25.0 FT. 7.6 M
TOP OF ROCK DEPTH _____ FT. ELEV. _____ FT.
BEGAN CORING DEPTH _____ FT. ELEV. _____ FT.
FOOTAGE CORED (LF) _____ FT.
BOTTOM OF HOLE DEPTH 25.0 FT. ELEV. _____ FT.

WATER LEVEL DATA (IF APPLICABLE)
COMPLETION: DEPTH Dry FT.
ELEV. _____ FT.
AFTER 24 HRS. DEPTH N/A FT.
ELEV. _____ FT.

BORING ADVANCED BY: _____ POWER AUGERING X WASHBORING _____

STRATUM		SAMPLE DEPTH		SAMPLE OR RUN NO.	SAMPLE TYPE	FIELD RESULTS		LABORATORY RESULTS			STRATUM DESCRIPTION
DEPTH		FROM	TO			N-Value	Qp	LL	PI	%M	
FT.	ELEV.	FT.	FT.								
-											
-											
-											
-											
2.5	-2.5	1.0	2.5	1	SS	1-2-2 N=4		28	NP	4.3	Silty SAND (SM) with trace caliche - brown; fine grained; very loose; dry; (RESIDUUM)
-											
-											
-											
5.0	-5.0	3.0	4.5	2	SS	9-11-11 N=22				4.8	
-											
-											
-											
-											
7.5	-7.5	5.0	6.5	3	SS	8-10-15 N=25				3.9	Silty SAND (SM) with trace caliche - light brown; fine grained; medium dense to very dense; dry; (RESIDUUM)
-											
-											
-											
10.0	-10.0	8.0	9.5	4	SS	15-40-57 N=97				6.7	
-											
-											
-											
12.5	-12.5										
-											
-											
-											
15.0	-15.0	13.0	14.2	5	SS	25-55-25/2" N=25/2"				5.9	
-											
-											
-											
-											
17.5	-17.5										
-											
-											
-											
20.0	-20.0	18.0	18.8	6	SS	23-70+ N>=70				5.9	Silty SAND (SM) with trace caliche - orangish brown; fine grained; very dense; dry; (RESIDUUM)

REMARKS: _____



Consolidated Interim Storage Facility
Andrews, Texas
GEOServices Project No.: 31-151247

LOG OF BORING **TF-2**
SHEET 2 OF 2

DRILLING CO Apex Geoscience Inc.
DRILLER _____
LOGGED BY Sammy Joe Allison

BORING NO. / LOCATION TF-2

DATE July 16, 2015 SURFACE ELEV. _____ FT.
REFUSAL: No DEPTH _____ FT. ELEV. _____ FT.
SAMPLED 25.0 FT. 7.6 M
TOP OF ROCK DEPTH _____ FT. ELEV. _____ FT.
BEGAN CORING DEPTH _____ FT. ELEV. _____ FT.
FOOTAGE CORED (LF) _____ FT.
BOTTOM OF HOLE DEPTH 25.0 FT. ELEV. _____ FT.

WATER LEVEL DATA (IF APPLICABLE)
COMPLETION: DEPTH Dry FT.
ELEV. _____ FT.
AFTER 24 HRS. DEPTH N/A FT.
ELEV. _____ FT.

BORING ADVANCED BY: _____ POWER AUGERING X WASHBORING _____

STRATUM		SAMPLE DEPTH		SAMPLE OR RUN NO.	SAMPLE TYPE	FIELD RESULTS		LABORATORY RESULTS			STRATUM DESCRIPTION
DEPTH		FROM	TO			N-Value	Qp	LL	PI	%M	
FT.	ELEV.	FT.	FT.								
22.5	-22.5	23.0	24.5	7	SS	8-29-35 N=64				4.2	CONTINUED Silty SAND (SM) with trace caliche - orangish brown; fine grained; very dense; dry; (RESIDUUM)
25.0	-25.0										
27.5	-27.5										
30.0	-30.0										
32.5	-32.5										BORING TERMINATED AT 25 FEET
35.0	-35.0										
37.5	-37.5										
40.0	-40.0										

REMARKS: _____



Consolidated Interim Storage Facility
Andrews, Texas

GEOservices Project No.: 31-151247

LOG OF BORING **TF-3**
SHEET 1 OF 2

DRILLING CO Apex Geoscience Inc.
DRILLER _____
LOGGED BY Sammy Joe Allison

BORING NO. / LOCATION TF-3

DATE July 16, 2015 SURFACE ELEV. _____ FT.
REFUSAL: No DEPTH _____ FT. ELEV. _____ FT.
SAMPLED 25.0 FT. 7.6 M
TOP OF ROCK DEPTH _____ FT. ELEV. _____ FT.
BEGAN CORING DEPTH _____ FT. ELEV. _____ FT.
FOOTAGE CORED (LF) _____ FT.
BOTTOM OF HOLE DEPTH 25.0 FT. ELEV. _____ FT.

WATER LEVEL DATA (IF APPLICABLE)
COMPLETION: DEPTH Dry FT.
ELEV. _____ FT.
AFTER 24 HRS. DEPTH N/A FT.
ELEV. _____ FT.

BORING ADVANCED BY: _____ POWER AUGERING X WASHBORING _____

STRATUM		SAMPLE DEPTH		SAMPLE OR RUN NO.	SAMPLE TYPE	FIELD RESULTS		LABORATORY RESULTS			STRATUM DESCRIPTION
DEPTH		FROM	TO			N-Value	Qp	LL	PI	%M	
FT.	ELEV.	FT.	FT.								
-											
-											
-											
-		1.0	2.5	1	SS	11-9-8 N=17				4.3	Silty SAND (SM) with caliche - grayish brown; fine grained; medium dense; dry; (RESIDUUM)
2.5	-2.5										
-											
-		3.0	4.5	2	SS	17-11-10 N=21				4.6	
-											
5.0	-5.0										
-											
-		5.0	6.5	3	SS	14-16-20 N=36				3.9	Silty SAND (SM) with caliche - brown; fine grained; very dense to dense; dry; (RESIDUUM)
-											
7.5	-7.5										
-											
-		8.0	9.5	4	SS	17-37-48 N=85				5.5	
-											
10.0	-10.0										
-											
-											
12.5	-12.5										
-											
-		13.0	14.5	5	SS	18-28-45 N=73				9.0	Silty SAND (SM) with trace caliche - orangish brown; fine grained; very dense; dry; (RESIDUUM)
-											
15.0	-15.0										
-											
-											
17.5	-17.5										
-											
-		18.0	19.5	6	SS	17-33-50 N=83				4.5	
-											
20.0	-20.0										

REMARKS: _____



Consolidated Interim Storage Facility
Andrews, Texas
GEOServices Project No.: 31-151247

LOG OF BORING **TF-3**
SHEET 2 OF 2

DRILLING CO Apex Geoscience Inc.
DRILLER _____
LOGGED BY Sammy Joe Allison

BORING NO. / LOCATION TF-3

DATE July 16, 2015 SURFACE ELEV. _____ FT.
REFUSAL: No DEPTH _____ FT. ELEV. _____ FT.
SAMPLED 25.0 FT. 7.6 M
TOP OF ROCK DEPTH _____ FT. ELEV. _____ FT.
BEGAN CORING DEPTH _____ FT. ELEV. _____ FT.
FOOTAGE CORED (LF) _____ FT.
BOTTOM OF HOLE DEPTH 25.0 FT. ELEV. _____ FT.

WATER LEVEL DATA (IF APPLICABLE)
COMPLETION: DEPTH Dry FT.
ELEV. _____ FT.
AFTER 24 HRS. DEPTH N/A FT.
ELEV. _____ FT.

BORING ADVANCED BY: _____ POWER AUGERING X WASHBORING _____

STRATUM		SAMPLE DEPTH		SAMPLE OR RUN NO.	SAMPLE TYPE	FIELD RESULTS		LABORATORY RESULTS			STRATUM DESCRIPTION
DEPTH		FROM	TO			N-Value	Qp	LL	PI	%M	
FT.	ELEV.	FT.	FT.								
22.5	-22.5	23.0	24.5	7	SS	34-37-60 N=97				3.8	CONTINUED Silty SAND (SM) with trace caliche - orangish brown; fine grained; very dense; dry; (RESIDUUM)
25.0	-25.0										
27.5	-27.5										
30.0	-30.0										
32.5	-32.5										BORING TERMINATED AT 25 FEET
35.0	-35.0										
37.5	-37.5										
40.0	-40.0										

REMARKS: _____



Consolidated Interim Storage Facility
Andrews, Texas
GEOServices Project No.: 31-151247

LOG OF BORING **TF-4**
SHEET 1 OF 2

DRILLING CO Apex Geoscience Inc.
DRILLER _____
LOGGED BY Sammy Joe Allison

BORING NO. / LOCATION TF-4

DATE July 16, 2015 SURFACE ELEV. _____ FT.
REFUSAL: Yes DEPTH 40.0 FT. ELEV. _____ FT.
SAMPLED 40.0 FT. 12.2 M
TOP OF ROCK DEPTH _____ FT. ELEV. _____ FT.
BEGAN CORING DEPTH _____ FT. ELEV. _____ FT.
FOOTAGE CORED (LF) _____ FT.
BOTTOM OF HOLE DEPTH 40.0 FT. ELEV. _____ FT.

WATER LEVEL DATA (IF APPLICABLE)
COMPLETION: DEPTH Dry FT.
ELEV. _____ FT.
AFTER 24 HRS. DEPTH N/A FT.
ELEV. _____ FT.

BORING ADVANCED BY: _____ POWER AUGERING X WASHBORING _____

STRATUM		SAMPLE DEPTH		SAMPLE OR RUN NO.	SAMPLE TYPE	FIELD RESULTS		LABORATORY RESULTS			STRATUM DESCRIPTION
DEPTH		FROM	TO			N-Value	Qp	LL	PI	%M	
FT.	ELEV.	FT.	FT.								
-											
-											
-											
-		1.0	2.5	1	SS	4-40-20 N=60				3.7	Silty SAND (SM) with caliche - grayish brown; fine grained; very dense; dry; (RESIDUUM)
2.5	-2.5										
-											
-		3.0	4.5	2	SS	18-18-16 N=34				3.9	
-											
5.0	-5.0										
-											
-		5.0	6.5	3	SS	20-20-30 N=50				6.6	Silty SAND (SM) with trace caliche - light brown; fine grained; dense to very dense; dry; (RESIDUUM)
-											
7.5	-7.5										
-											
-		8.0	9.5	4	SS	14-24-35 N=59				7.4	
-											
10.0	-10.0										
-											
-											
12.5	-12.5										
-											
-		13.0	14.2	5	SS	20-35-47/2" N=47/2"				5.2	Silty SAND (SM) with trace caliche - brown; fine grained; very dense; dry; (RESIDUUM)
-											
15.0	-15.0										
-											
-											
17.5	-17.5										
-											
-		18.0	19.2	6	SS	19-34-51/2" N=51/2"				4.3	
-											
20.0	-20.0										

REMARKS: _____



Consolidated Interim Storage Facility
Andrews, Texas
GEOServices Project No.: 31-151247

LOG OF BORING **TF-4**
SHEET 2 OF 2

DRILLING CO Apex Geoscience Inc.
DRILLER _____
LOGGED BY Sammy Joe Allison

BORING NO. / LOCATION TF-4

DATE July 21, 2015 SURFACE ELEV. _____ FT.
REFUSAL: Yes DEPTH 40.0 FT. ELEV. _____ FT.
SAMPLED 40.0 FT. 12.2 M
TOP OF ROCK DEPTH 40.0 FT. ELEV. _____ FT.
BEGAN CORING DEPTH _____ FT. ELEV. _____ FT.
FOOTAGE CORED (LF) _____ FT.
BOTTOM OF HOLE DEPTH 40.0 FT. ELEV. _____ FT.

WATER LEVEL DATA (IF APPLICABLE)
COMPLETION: DEPTH Dry FT.
ELEV. _____ FT.
AFTER 24 HRS. DEPTH N/A FT.
ELEV. _____ FT.

BORING ADVANCED BY: _____ POWER AUGERING X WASHBORING _____

STRATUM		SAMPLE DEPTH		SAMPLE OR RUN NO.	SAMPLE TYPE	FIELD RESULTS		LABORATORY RESULTS			STRATUM DESCRIPTION
DEPTH		FROM	TO			N-Value	Qp	LL	PI	%M	
FT.	ELEV.	FT.	FT.								
22.5	-22.5										CONTINUED
											Silty SAND (SM) - orangish brown; fine grained; very dense; dry; (RESIDUUM)
											Silty SAND (SM) - orangish brown; fine grained; very dense; dry; (RESIDUUM)
											AUGER REFUSAL AT 40 FEET

REMARKS: _____



Consolidated Interim Storage Facility
Andrews, Texas

GEO Services Project No.: 31-151247

LOG OF BORING **TF-5**
SHEET 1 OF 2

DRILLING CO Apex Geoscience Inc.
DRILLER _____
LOGGED BY Sammy Joe Allison

BORING NO. / LOCATION TF-5

DATE July 16, 2015 SURFACE ELEV. _____ FT.
REFUSAL: No DEPTH _____ FT. ELEV. _____ FT.
SAMPLED 25.0 FT. 7.6 M
TOP OF ROCK DEPTH _____ FT. ELEV. _____ FT.
BEGAN CORING DEPTH _____ FT. ELEV. _____ FT.
FOOTAGE CORED (LF) _____ FT.
BOTTOM OF HOLE DEPTH 25.0 FT. ELEV. _____ FT.

WATER LEVEL DATA (IF APPLICABLE)
COMPLETION: DEPTH Dry FT.
ELEV. _____ FT.
AFTER 24 HRS. DEPTH N/A FT.
ELEV. _____ FT.

BORING ADVANCED BY: _____ POWER AUGERING X WASHBORING _____

STRATUM		SAMPLE DEPTH		SAMPLE OR RUN NO.	SAMPLE TYPE	FIELD RESULTS		LABORATORY RESULTS			STRATUM DESCRIPTION
DEPTH		FROM	TO			N-Value	Qp	LL	PI	%M	
FT.	ELEV.	FT.	FT.								
2.5	-2.5	1.0	2.5	1	SS	18-10-12 N=22				4.6	Silty SAND (SM) with caliche - grayish brown; fine grained; medium dense; dry; (RESIDUUM)
5.0	-5.0	3.0	4.5	2	SS	6-11-8 N=19				5.2	Silty SAND (SM) with caliche - light brown; fine grained; medium dense to loose to very dense; dry; (RESIDUUM)
7.5	-7.5	5.0	6.5	3	SS	2-2-3 N=5				5.5	
10.0	-10.0	8.0	9.5	4	SS	15-24-39 N=63				8.1	Silty SAND (SM) with trace caliche - orangish brown; fine grained; very dense; dry; (RESIDUUM)
12.5	-12.5	13.0	14.5	5	SS	26-46-60 N=106				6.4	
15.0	-15.0										
17.5	-17.5	18.0	19.3	6	SS	22-39-58 N=97				5.0	
20.0	-20.0										

REMARKS: _____



Consolidated Interim Storage Facility
Andrews, Texas
GEOServices Project No.: 31-151247

LOG OF BORING **TF-5**
SHEET 2 OF 2

DRILLING CO Apex Geoscience Inc.
DRILLER _____
LOGGED BY Sammy Joe Allison

BORING NO. / LOCATION TF-5

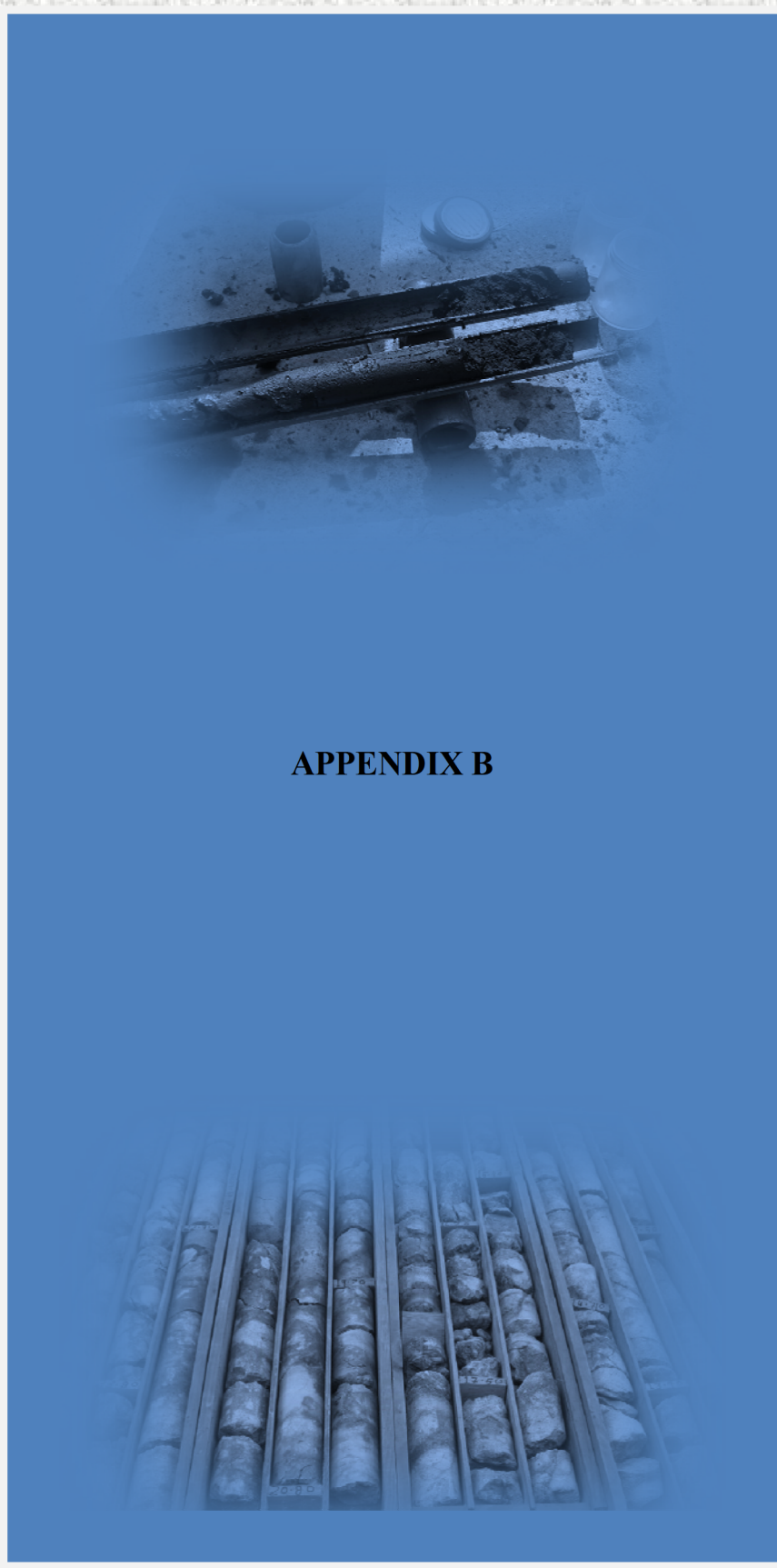
DATE July 16, 2015 SURFACE ELEV. _____ FT.
REFUSAL: No DEPTH _____ FT. ELEV. _____ FT.
SAMPLED 25.0 FT. 7.6 M
TOP OF ROCK DEPTH _____ FT. ELEV. _____ FT.
BEGAN CORING DEPTH _____ FT. ELEV. _____ FT.
FOOTAGE CORED (LF) _____ FT.
BOTTOM OF HOLE DEPTH 25.0 FT. ELEV. _____ FT.

WATER LEVEL DATA (IF APPLICABLE)
COMPLETION: DEPTH Dry FT.
ELEV. _____ FT.
AFTER 24 HRS. DEPTH N/A FT.
ELEV. _____ FT.

BORING ADVANCED BY: _____ POWER AUGERING X WASHBORING _____

STRATUM		SAMPLE DEPTH		SAMPLE OR RUN NO.	SAMPLE TYPE	FIELD RESULTS		LABORATORY RESULTS			STRATUM DESCRIPTION
DEPTH		FROM	TO			N-Value	Qp	LL	PI	%M	
FT.	ELEV.	FT.	FT.								
22.5	-22.5	23.0	24.5	7	SS	24-41-45 N=86				4.2	CONTINUED Silty SAND (SM) with trace caliche - orangish brown; fine grained; very dense; dry; (RESIDUUM)
25.0	-25.0										
27.5	-27.5										
30.0	-30.0										
32.5	-32.5										BORING TERMINATED AT 25 FEET
35.0	-35.0										
37.5	-37.5										
40.0	-40.0										

REMARKS: _____



APPENDIX B

SOIL DATA SUMMARY
Consolidated Interim Storage Facility - Andrews, Texas
GEOServices Project No. 31-151247
August 5, 2015

Boring Number	Sample Number	Depth (feet)	Natural Moisture Content	Atterberg Limits			Finer than 200 Sieve (%)	Soil Type
				LL	PL	PI		
B-101	1	1.0 - 2.5	3.6%				48	
	2	3.0 - 4.5	3.9%					
	3	5.0 - 6.5	6.5%					
	4	8.0 - 9.5	7.8%				37	
	5	13.0 - 14.5	6.7%					
	6	18.0 - 19.5	5.7%					
	7	23.0 - 24.5	5.7%					
	9	31.0 - 31.2	5.7%					
	10	33.0 - 33.2	7.7%					
B-102	1	1.0 - 2.5	3.4%					
	2	3.0 - 3.8	2.8%					
	3	5.0 - 6.5	2.9%					
	4	8.0 - 9.5	4.0%					
	5	13.0 - 13.8	6.0%					
	6	18.0 - 18.8	5.8%					
	7	23.0 - 23.8	2.9%					
B-103	1	1.0 - 2.5	4.3%	26	N.P.			
	2	3.0 - 4.5	4.8%					
	3	5.0 - 6.5	5.8%					
	4	8.0 - 9.5	7.1%					
	5	13.0 - 14.4	6.3%					
	6	18.0 - 19.5	6.1%					
	7	23.0 - 24.5	4.5%					
B-104	1	1.0 - 2.3	3.1%					
	2	3.0 - 3.8	2.5%					
	3	5.0 - 6.5	4.1%					
	4	8.0 - 9.5	6.9%					
	5	13.0 - 14.5	6.0%					
	6	18.0 - 19.5	4.6%					
	7	23.0 - 24.5	3.1%					
B-105	1	1.0 - 1.8	3.3%					
	2	5.0 - 6.5	5.3%					
	3	8.0 - 9.5	8.1%					
	4	13.0 - 13.5	4.8%					
	6	18.0 - 19.0	4.1%					

SOIL DATA SUMMARY
Consolidated Interim Storage Facility - Andrews, Texas
GEOServices Project No. 31-151247
August 5, 2015

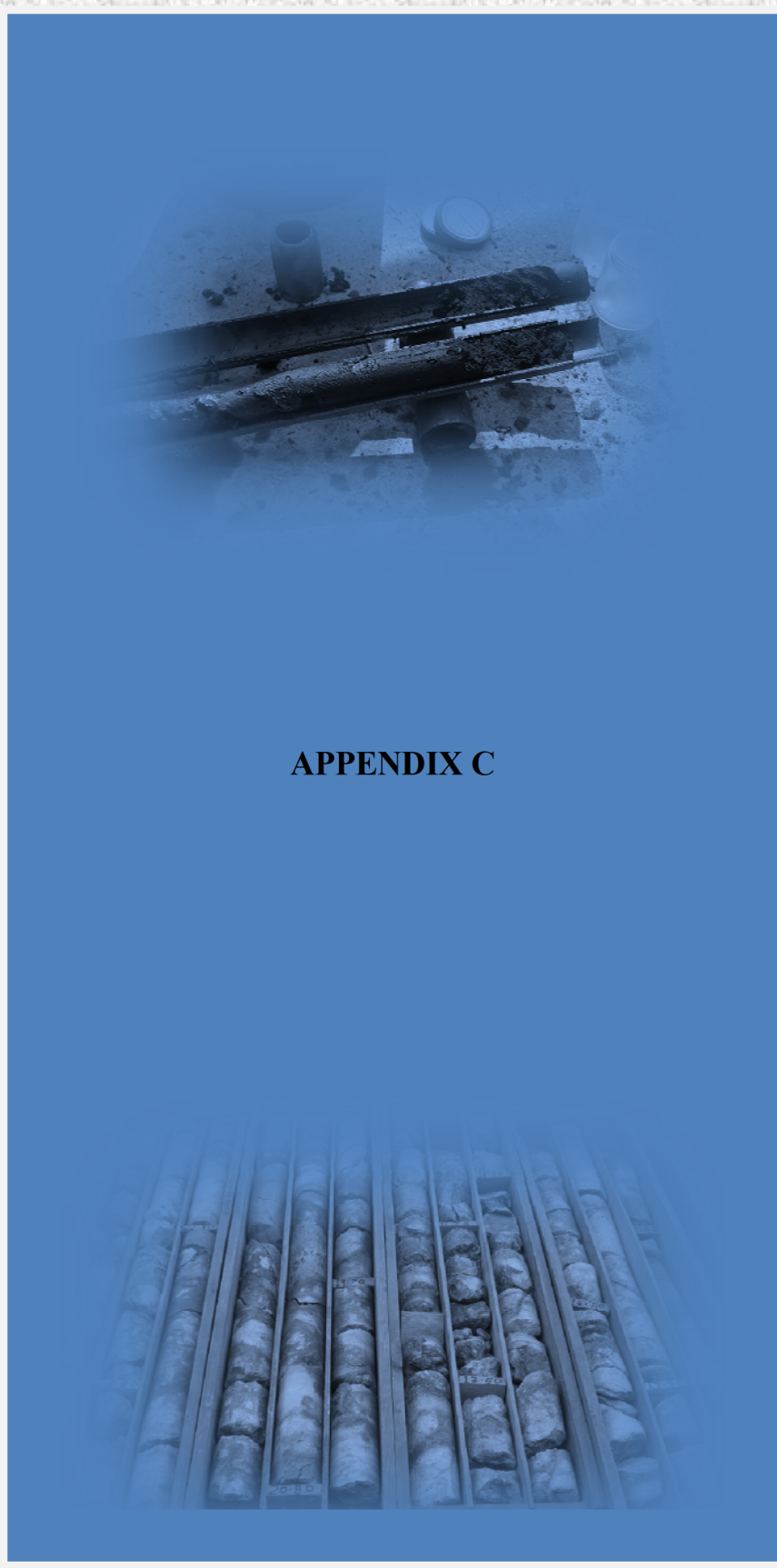
Boring Number	Sample Number	Depth (feet)	Natural Moisture Content	Atterberg Limits			Finer than 200 Sieve (%)	Soil Type
				LL	PL	PI		
B-106	1	1.0 - 2.5	4.5%					
	2	3.0 - 4.5	3.9%					
	3	5.0 - 6.5	3.9%					
	4	8.0 - 9.5	5.3%				41	
	5	13.0 - 13.9	6.7%					
	6	18.0 - 19.5	6.8%					
	7	23.0 - 24.4	6.2%					
B-107	1	1.0 - 1.8	5.3%					
	2	3.0 - 4.5	4.5%					
	3	5.0 - 6.5	4.1%					
	4	8.0 - 9.5	5.7%					
	5	13.0 - 14.0	7.2%					
	6	18.0 - 19.5	6.3%					
	7	23.0 - 24.4	4.2%					
B-108	1	1.0 - 2.5	4.9%					
	2	3.0 - 4.5	4.9%					
	3	5.0 - 6.5	6.0%					
	4	8.0 - 9.4	6.3%					
	5	13.0 - 13.8	8.4%					
	6	18.0 - 18.8	6.6%					
	7	23.0 - 23.4	6.0%					
B-109	1	1.0 - 2.5	3.4%					
	2	3.0 - 4.5	4.2%					
	3	5.0 - 6.5	3.8%					
	4	8.0 - 9.0	3.2%					
	5	13.0 - 13.3	8.5%					
	6	18.0 - 18.7	6.3%					
	7	23.0 - 24.5	4.7%					
B-110	1	1.0 - 2.5	5.0%	29	N.P.			
	2	3.0 - 4.5	4.7%					
	3	5.0 - 6.5	6.0%					
	4	8.0 - 9.5	8.9%					
	5	13.0 - 14.0	7.1%					
	6	18.0 - 19.0	5.1%					
	7	23.0 - 24.5	4.4%					

SOIL DATA SUMMARY
Consolidated Interim Storage Facility - Andrews, Texas
GEOServices Project No. 31-151247
August 5, 2015

Boring Number	Sample Number	Depth (feet)	Natural Moisture Content	Atterberg Limits			Finer than 200 Sieve (%)	Soil Type
				LL	PL	PI		
B-111	1	1.0 - 2.5	6.7%					
	2	3.0 - 4.5	4.5%				44	
	3	5.0 - 6.5	5.2%					
	4	8.0 - 9.5	4.3%					
	5	13.0 - 14.0	6.6%				30	
	6	18.0 - 19.0	5.8%					
	7	23.0 - 24.0	6.0%					
	8	28.0 - 29.5	4.3%					
	9	33.0 - 34.5	2.5%					
AB-1	1	1.0 - 2.5	3.3%					
	2	3.0 - 4.5	3.9%					
	3	5.0 - 6.5	6.7%					
	4	8.0 - 9.5	6.2%				24	
	5	13.0 - 14.3	4.3%					
	6	18.0 - 18.8	4.9%					
	7	23.0 - 23.8	3.2%					
AB-2	1	1.0 - 2.5	4.8%				35	
	2	3.0 - 4.5	5.7%					
	3	5.0 - 6.5	5.5%					
	4	8.0 - 9.5	3.7%					
	5	13.0 - 14.5	3.4%					
	6	18.0 - 19.5	3.1%					
TF-1	1	1.0 - 2.5	3.0%					
	2	3.0 - 4.5	2.8%				45	
	3	5.0 - 6.5	4.8%					
	4	8.0 - 9.5	2.8%					
	5	13.0 - 14.3	5.8%					
	6	18.0 - 19.3	5.4%					
	7	23.0 - 24.5	2.7%					
	8	28.0 - 29.3	3.0%					
	9	33.0 - 33.4	3.7%					
	10	38.0 - 38.3	4.6%					
TF-2	1	1.0 - 2.5	4.3%	28	N.P.			
	2	3.0 - 4.5	4.8%					
	3	5.0 - 6.5	3.9%					
	4	8.0 - 9.5	6.7%					
	5	13.0 - 14.2	5.9%					
	6	18.0 - 18.8	5.9%					
	7	23.0 - 24.5	4.2%					

SOIL DATA SUMMARY
Consolidated Interim Storage Facility - Andrews, Texas
GEOServices Project No. 31-151247
August 5, 2015

Boring Number	Sample Number	Depth (feet)	Natural Moisture Content	Atterberg Limits			Finer than 200 Sieve (%)	Soil Type
				LL	PL	PI		
TF-3	1	1.0 - 2.5	4.3%					
	2	3.0 - 4.5	4.6%					
	3	5.0 - 6.5	3.9%					
	4	8.0 - 9.5	5.5%					
	5	13.0 - 14.5	9.0%					
	6	18.0 - 19.5	4.5%					
	7	23.0 - 24.5	3.8%					
TF-4	1	1.0 - 2.5	3.7%					
	2	3.0 - 4.5	3.9%					
	3	5.0 - 6.5	6.6%					
	4	8.0 - 9.5	7.4%					
	5	13.0 - 14.2	5.2%				34	
	6	18.0 - 19.2	4.3%					
	7	23.0 - 24.5	3.9%					
	8	28.0 - 28.8	6.5%					
	9	33.0 - 33.3	3.3%					
	10	38.0 - 38.1	3.5%					
TF-5	1	1.0 - 2.5	4.6%					
	2	3.0 - 4.5	5.2%					
	3	5.0 - 6.5	5.5%					
	4	8.0 - 9.5	8.1%					
	5	13.0 - 14.5	6.4%					
	6	18.0 - 19.5	5.0%					
	7	23.0 - 24.5	4.2%					

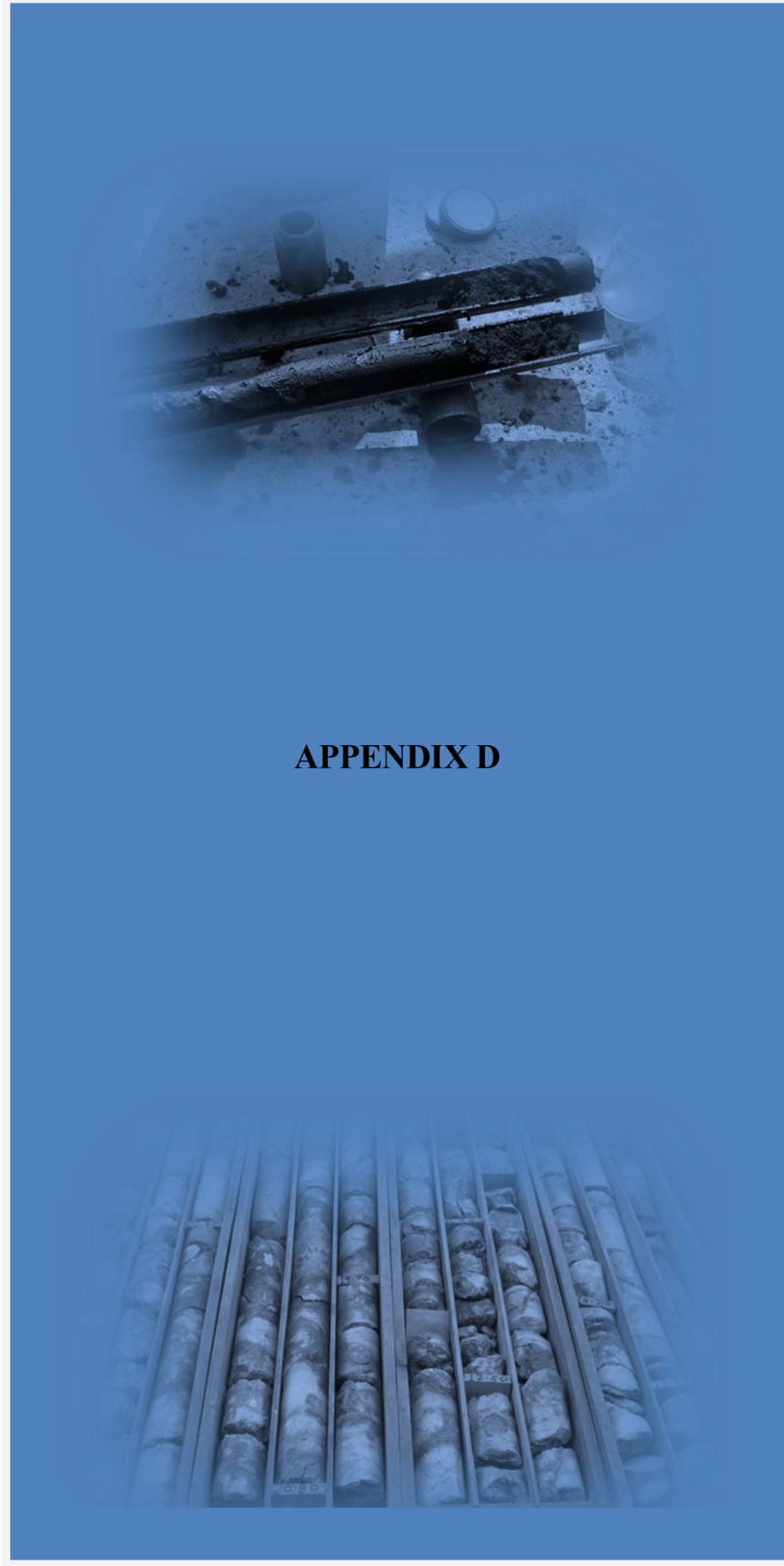


APPENDIX C

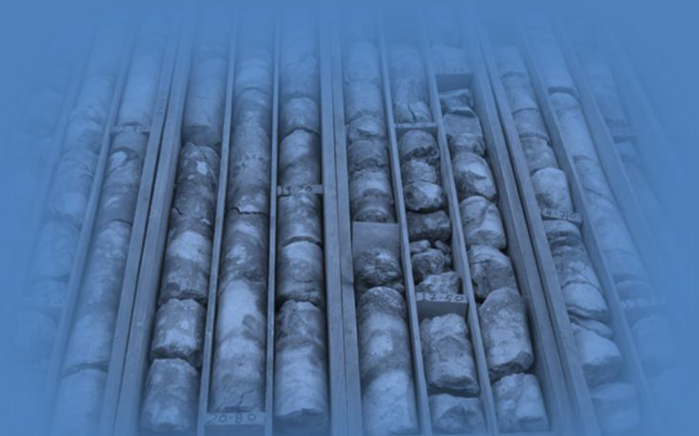
STATIC ELASTIC MODULUS CALCULATION

Total Depth Below Ground Surface d ft	Depth Below Slab z ft	Depth Range Below Slab ft	Shear Wave Velocity V_s ft/sec	Poisson's Ratio μ	Total Unit Wt. γ_t pcf	Mass Density ρ slug/ft ³	Shear Modulus G_0 psf	Shear Modulus G_0 psi	Elastic Modulus E_0 psf	Elastic Modulus E_0 psi	Modulus Degradation E/E_0	Static Elastic Modulus E_s psi
5	3	0-3	820.3	0.35	125	3.88	2612159	18140	7052829	48978	0.2	9796
10	7	3-10	820.3	0.35	125	3.88	2612159	18140	7052829	48978	0.2	9796
15	12	10-15	1394	0.35	125	3.88	7543618	52386	20367769	141443	0.2	28289
21	18	15-21	1498	0.35	125	3.88	8711196	60494	23520228	163335	0.2	32667
25	22	21-25	1498	0.35	125	3.88	8711196	60494	23520228	163335	0.2	32667
30	27	25-30	1498	0.35	125	3.88	8711196	60494	23520228	163335	0.2	32667
35	32	30-35	1498	0.35	125	3.88	8711196	60494	23520228	163335	0.2	32667
40	37	35-40	2558	0.35	125	3.88	25401258	176398	68583396	476274	0.2	95255
45	42	40-45	2558	0.35	125	3.88	25401258	176398	68583396	476274	0.2	95255
50	47	45-50	2558	0.35	125	3.88	25401258	176398	68583396	476274	0.2	95255
55	52	50-55	2558	0.35	125	3.88	25401258	176398	68583396	476274	0.2	95255
60	57	55-60	2558	0.35	125	3.88	25401258	176398	68583396	476274	0.2	95255
65	62	60-65	2228	0.35	125	3.88	19270124	133820	52029335	361315	0.2	72263
70	67	65-70	2228	0.35	125	3.88	19270124	133820	52029335	361315	0.2	72263
75	72	70-75	2228	0.35	125	3.88	19270124	133820	52029335	361315	0.2	72263
80	77	75-80	2228	0.35	125	3.88	19270124	133820	52029335	361315	0.2	72263
85	82	80-85	2228	0.35	125	3.88	19270124	133820	52029335	361315	0.2	72263
90	87	85-90	2228	0.35	125	3.88	19270124	133820	52029335	361315	0.2	72263
95	92	90-95	2228	0.35	125	3.88	19270124	133820	52029335	361315	0.2	72263
100	97	95-100	2228	0.35	125	3.88	19270124	133820	52029335	361315	0.2	72263

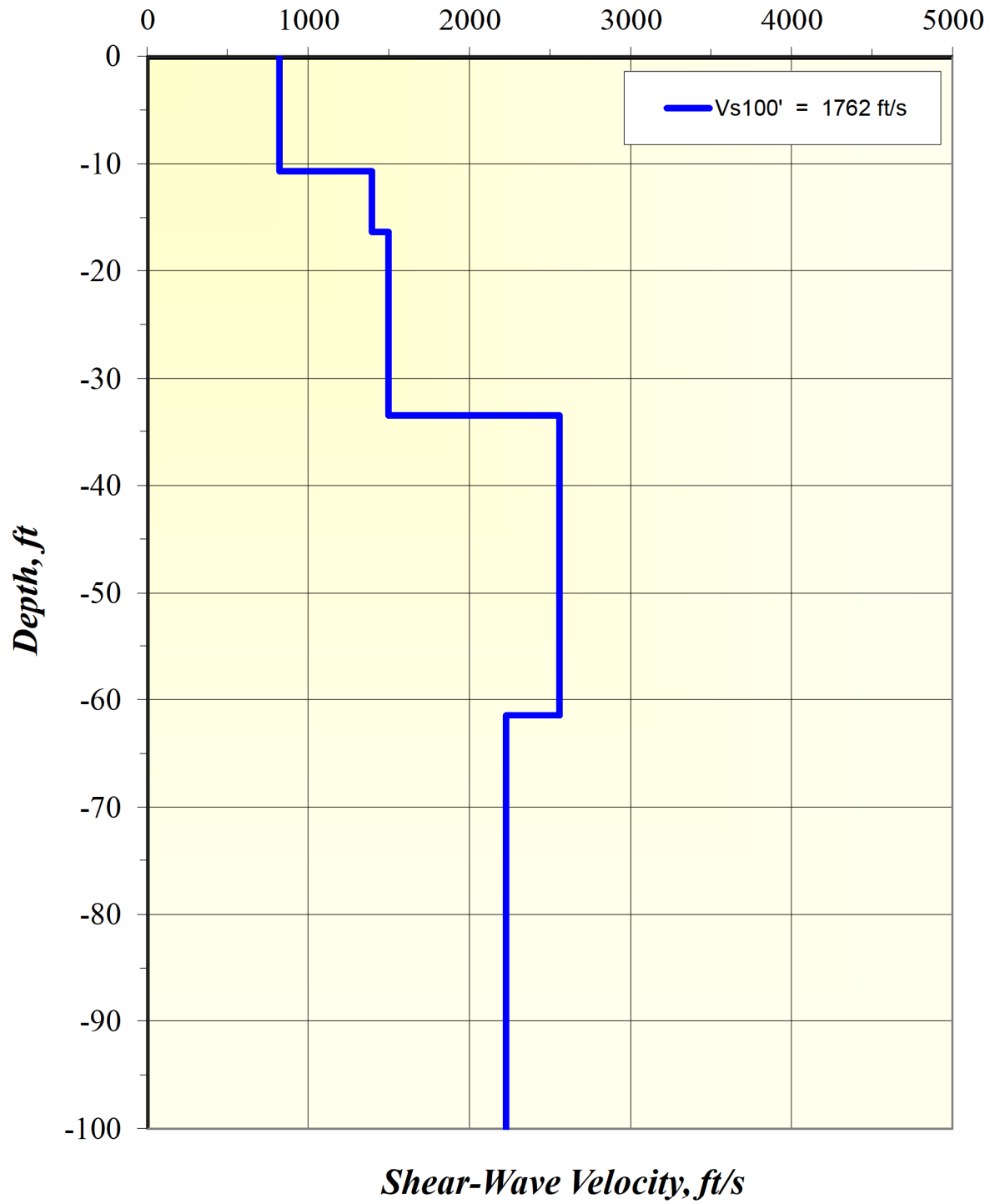
Notes: Shear wave velocities were those calculated during site specific seismic study. The plot is attached to this document



APPENDIX D

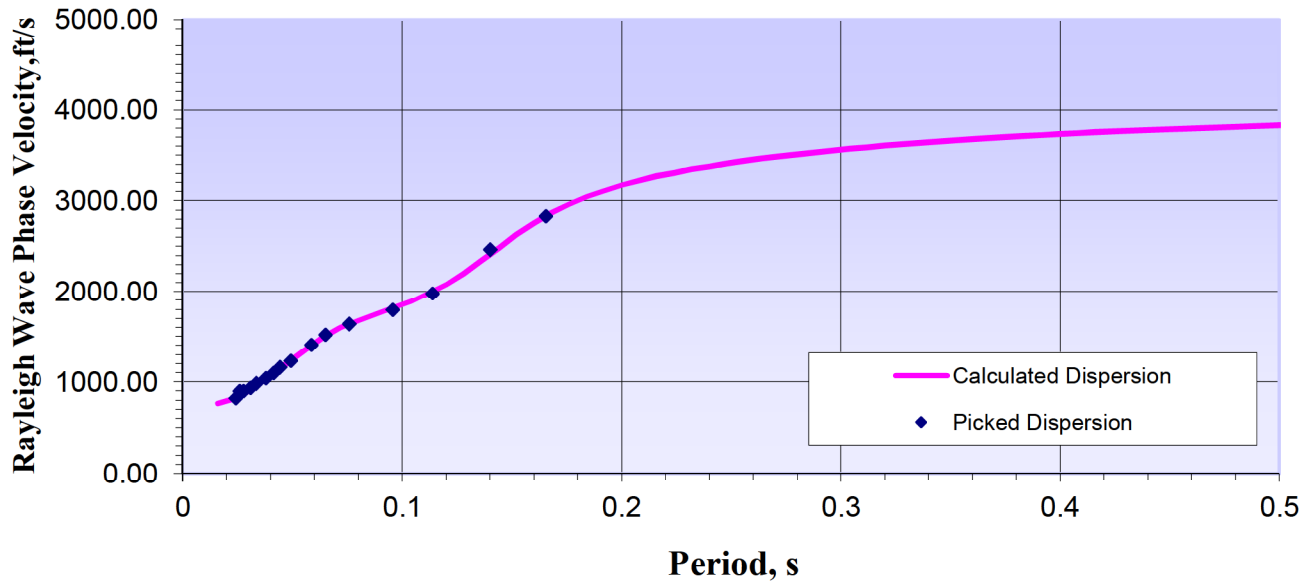


CISF-Andrews, Texas: Vs Model



CISF - Andrews, Texas: Supportive Illustration

Dispersion Curve Showing Picks and Fit



p-f Image with Dispersion Modeling Picks

