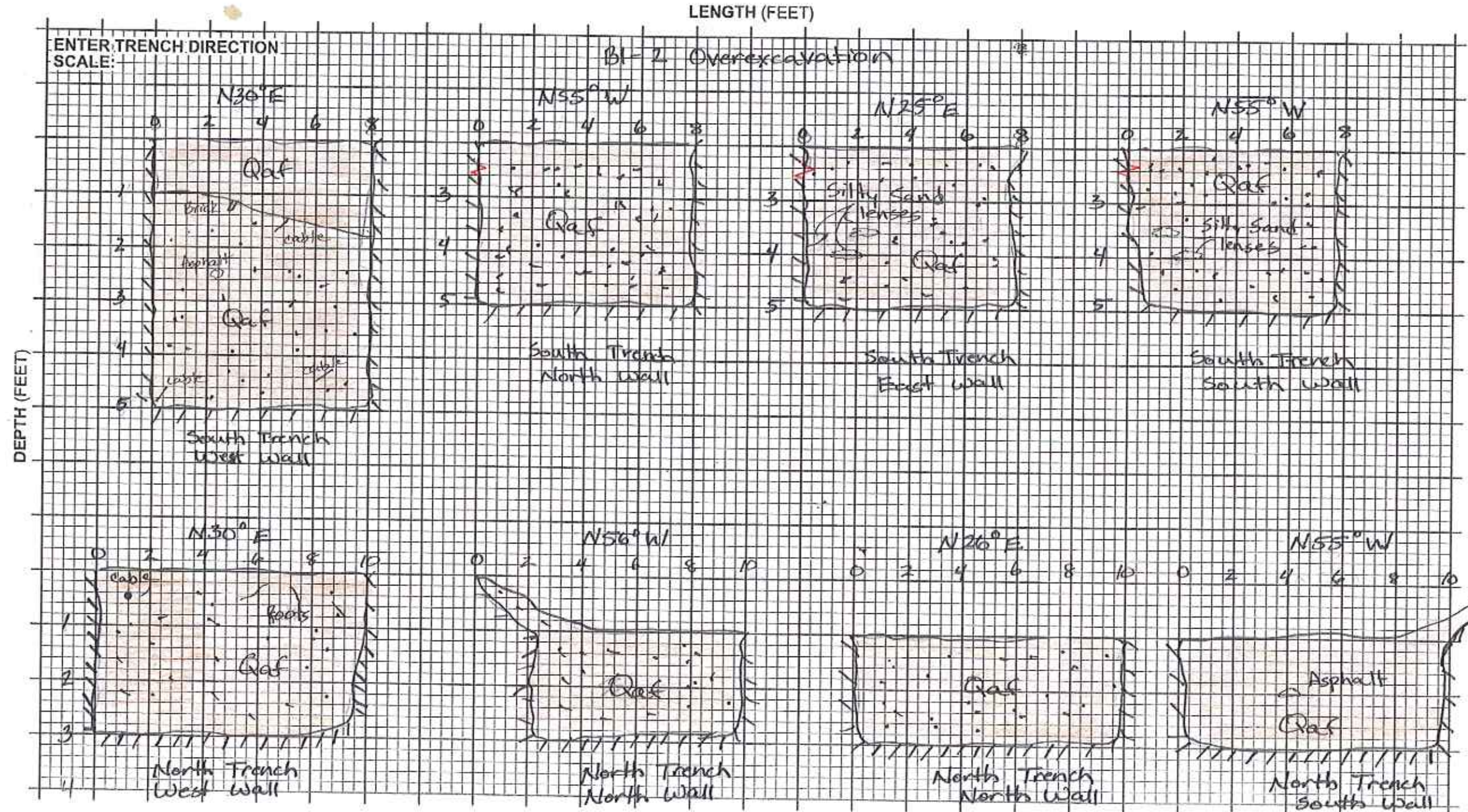


Project Name 2010 ISRA Implementation - NASA Boeing				FIELD TRENCH LOG			
Trench Number BITS0599		Project Number 10008208 B 12		Elevation and Datum SURVEYED BY SAGE		Location AP/STP- B1-2	
Equipment Supplier mpe		Operator DAVID WILMER		Date and Time Started 11/18/10		Date and Time Completed 12/14/10	
Equipment Type EXCAVATOR, VACUUM TRUCK		Trench Orientation NE-SW		Total Depth Varies		Total Number of Samples 81	
Bucket Width 4 ft.	Trench Length ~80 ft.	Trench Width ~60 ft.	No. of Samples	Bulk ∅	Grab 81	Drive ∅	Hand Auger ∅
Geologist or Hydrogeologist/Date N. Beaty 11/18/10 to 12/14/10				Checked by/Date ANDREW RAYNE 3/21/11 R.G. 2/1/05			
						Refusal? (Circle One) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
						If Yes Depth = Varies	
						Photo? (Circle One) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
						% Man-Made Debris	
						Wall of Trench Shown (Circle One) N S E W NE NW SE SW	



Plan View-Site Location  
(Provide Sketch)

SEE SHEET 1



- EXPLANATION**
- SOIL TYPE CONTACT (SHARP)
  - - - OTHER CONTACT (AS INDICATED ON LOG)
  - FILL/NATIVE BOUNDARY
  - X ANALYTICAL SAMPLE LOCATION (WRITE SAMPLE NUMBER OUT TO SIDE)
  - G GEOTECHNICAL SAMPLE LOCATION (WRITE SAMPLE NUMBER OUT TO SIDE)
  - /// SHADING TO DENOTE STAINING
  - //// BASE OF EXCAVATION
  - SHOW LOCATIONS AND TYPES OF ALL MAJOR DEBRIS

## Trench Log Legend for B1-2

### Soil and Rock Description

Chatsworth Fm.

Qaf

**SAND (SP) [Artificial FILL]** Brown (10YR 4/4) moist, loose, 70% fine and 10% medium grained sand, 20% slightly plastic silt, and some fragments of bricks, piping, metal debris, concrete and asphalt.

Qaf

**SILTY SAND (SM) [Artificial FILL]** Dark Brown (10YR 3/3) moist, very dense, 65% fine and 15% medium grained sand, 20% slightly plastic silt and construction debris.

Qal

**SILTY SAND (SM)** Yellow (10YR 4/3) dry, dense, 65% fine, 15% medium and 5% coarse grained sand, 15% non plastic silt.

Kcs

**SANDSTONE BEDROCK (SS)** Brownish Yellow (10YR 6/6) highly weathered to competent bedrock, massive, strong, moderately hard,

Kcsh

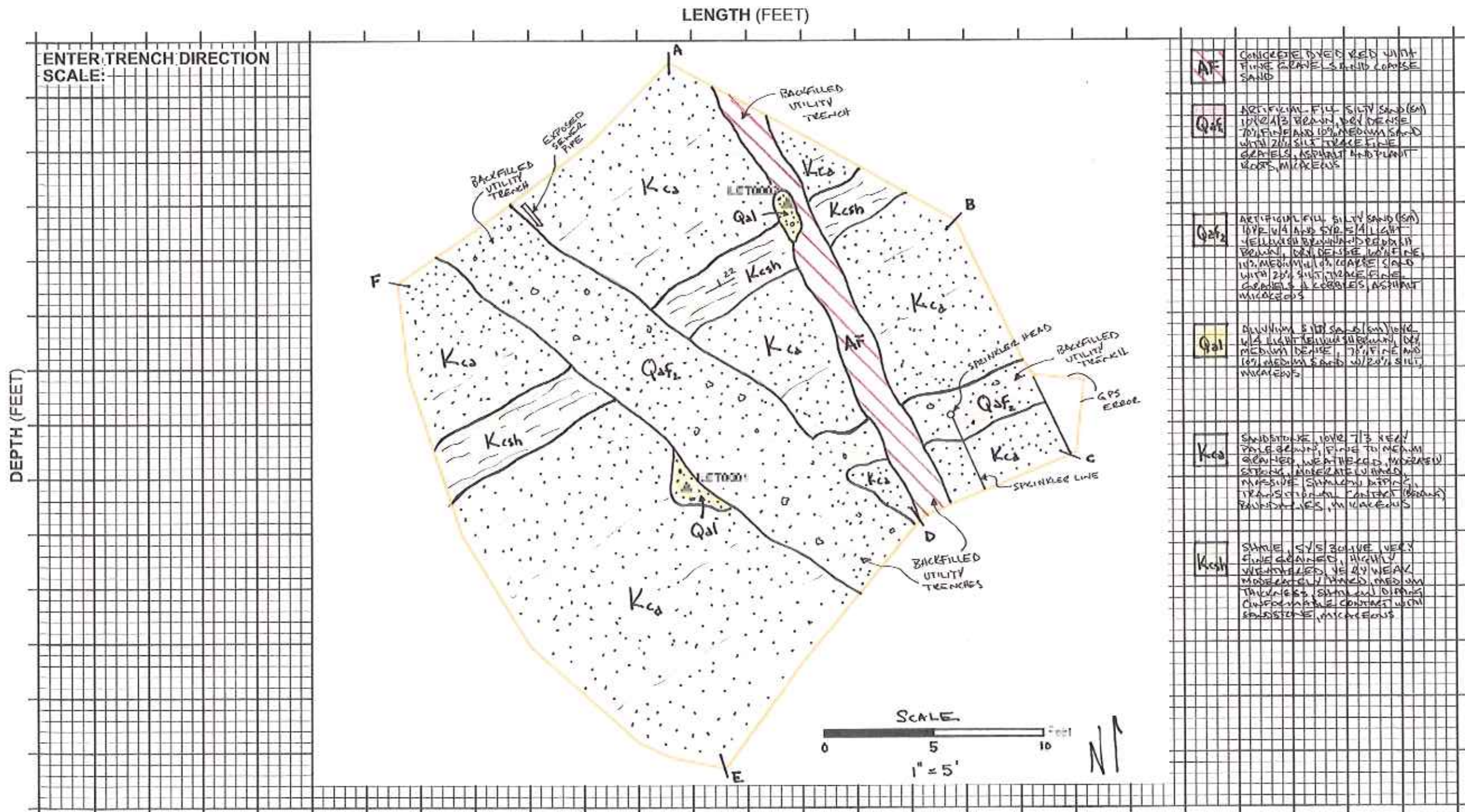
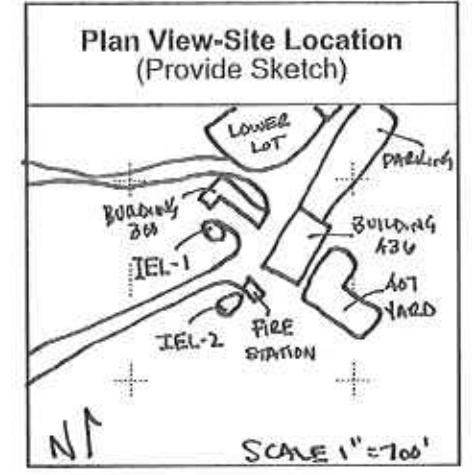
**SHALE BEDROCK (SH)** Olive (5Y 4/3) to Black (7.5YR 2.5/1) wet due to recent rains, moderate strength, weathered, thin to moderate bedding, moderately hard, 20% interbedded fine grained sand, some rootlets and iron oxide staining.

#### Scale

Vertical Scale is 1 inch = 2 feet (1"=2')

Horizontal Scale is 1 inch = 4 feet (1"=4')

Project Name: 2010 ISRA Implementation			FIELD TRENCH LOG		
Trench Number: ILTS0099	Project Number: 1008208.1163110	Elevation and Datum: SURVEYED BY SAGE	Location: IEL-1	Sheet: 1 of 3	
Equipment Supplier: MPE	Operator: MICKEY GRAVES	Date and Time Started: 10 AUGUST 2010	Date and Time Completed: 13 AUGUST 2010	Refusal? (Circle One) Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	If Yes Depth = <0.5 ft. bgs
Equipment Type: VACUUM TRUCK	Trench Orientation: NW - SE	Total Depth: 1.8 ft.	Total Number of Samples: 2	Photo? (Circle One) Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	No.
Bucket Width: N/A	Trench Length: 110 ft.	Trench Width: 106 ft.	No. of Samples: 2	Drive: $\emptyset$	Hand Auger: $\emptyset$
Geologist or Hydrogeologist/Date: STACIE L. AKHNER LOGGED ON 28-29 OCTOBER 2010			Checked by/Date: <i>AB Per 8/15 4/11</i>		Wall of Trench Shown (Circle One) N S E W NE NW SE SW

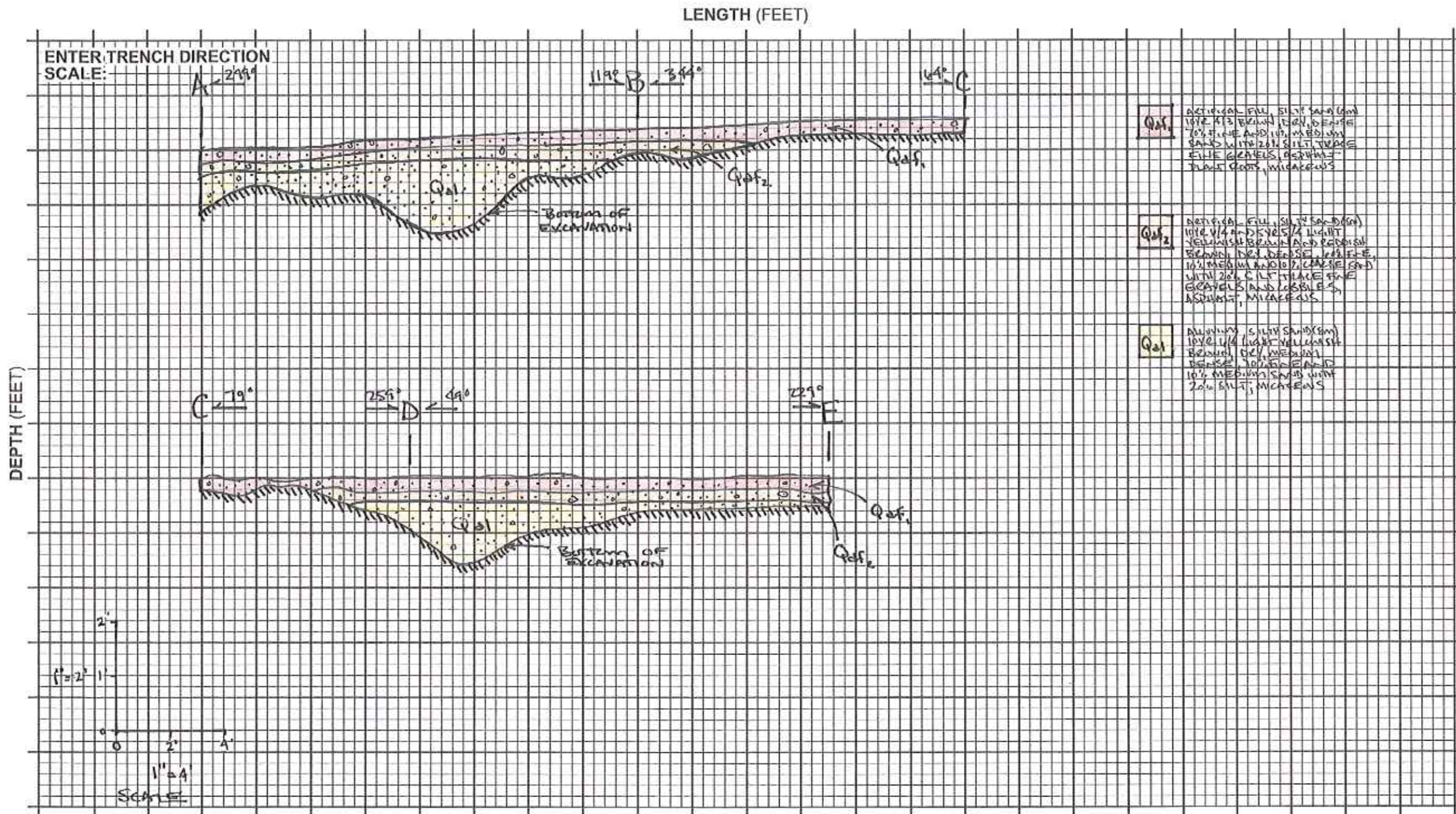
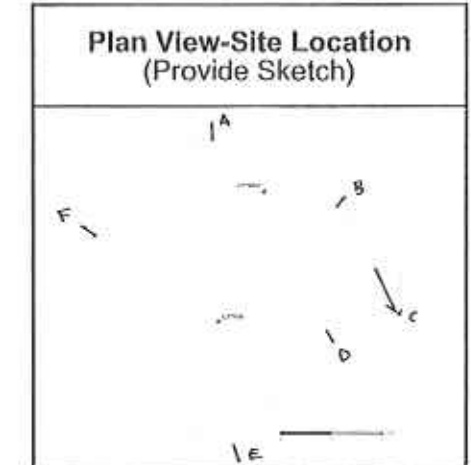


- AF** CONCRETE OVER FILL WITH FINE GRAVEL SANDY COARSE SAND
- Qaf** ARTIFICIAL FILL SILTY SAND (SM) 10% (1/3) BROWN TO DENSE TO FINE SAND 10% MEDIUM SAND WITH 20% SILT TRACE FINE GRAVELS, ASPHALT AND PLANT ROOTS, MICACEOUS
- Qaf2** ARTIFICIAL FILL SILTY SAND (SM) 10% (1/3) BROWN TO DENSE TO FINE SAND 10% MEDIUM SAND WITH 20% SILT TRACE FINE GRAVELS, ASPHALT AND PLANT ROOTS, MICACEOUS
- Qal** ALLUVIAL SILTY SAND (SM) 10% (1/3) BROWN TO DENSE TO FINE SAND 10% MEDIUM SAND WITH 20% SILT TRACE FINE GRAVELS, ASPHALT AND PLANT ROOTS, MICACEOUS
- Kcs** SANDSTONE 10% TO 15% FINE TO MEDIUM GRAINED WEATHERED MODERATELY STRENGTH MODERATELY WEAK MASSIVE SHALLOW DIPPING TRANSITIONAL CONTACT (BROWN) SANDSTONE, MICACEOUS
- Kesh** SHALE, SILTY SILTY VERY FINE GRAINED, HIGHLY WEATHERED, VERY WEAK MODERATELY THIN, MEDIUM THICKNESS, SHALLOW DIPPING UNCONFORMABLE CONTACT WITH SANDSTONE, MICACEOUS

- EXPLANATION**
- SOIL TYPE CONTACT (SHARP)
  - - - - OTHER CONTACT (AS INDICATED ON LOG)
  - - - - FILL/NATIVE BOUNDARY
  - X ANALYTICAL SAMPLE LOCATION (WRITE SAMPLE NUMBER OUT TO SIDE)
  - G GEOTECHNICAL SAMPLE LOCATION (WRITE SAMPLE NUMBER OUT TO SIDE)
  - //// SHADING TO DENOTE STAINING
  - //// BASE OF EXCAVATION
  - SHOW LOCATIONS AND TYPES OF ALL MAJOR DEBRIS

\* THE ISRA AREA BOUNDARY SHOWN IN ORANGE IS THE TENTATIVE GPS DEFINED AREA AND WAS LATER SURVEYED BY SAGE CONSULTANTS.

Project Name 2010 ISRA Implementation				FIELD TRENCH LOG			
Trench Number ILTS 0099	Project Number 1008208.1163110	Elevation and Datum SURVEYED BY SAGE	Location IEL-1	Sheet 2 of 3		Refusal? (Circle One) Yes	If Yes Depth = < 0.5 ft. by S
Equipment Supplier MPE	Operator MICKEY GRAVES	Date and Time Started 10 AUGUST 2010	Date and Time Completed 13 AUGUST 2010	Total Number of Samples 2	Photo? (Circle One) Yes	No	No.
Equipment Type VACUUM TRUCK	Trench Orientation NW - SE	Total Depth 1.8 ft.	Drive Ø	Hand Auger Ø	% Man-Made Debris		
Bucket Width N/A	Trench Length 110 ft.	Trench Width 106 ft.	No. of Samples	Bulk Ø	Grab 2	Wall of Trench Shown (Circle One) N S E W NE NW SE SW	
Geologist or Hydrogeologist/Date STACIE L. ANCHNER LOGGED ON 28-29 OCTOBER 2010		Checked by/Date MIG GREGS 4/1/11					



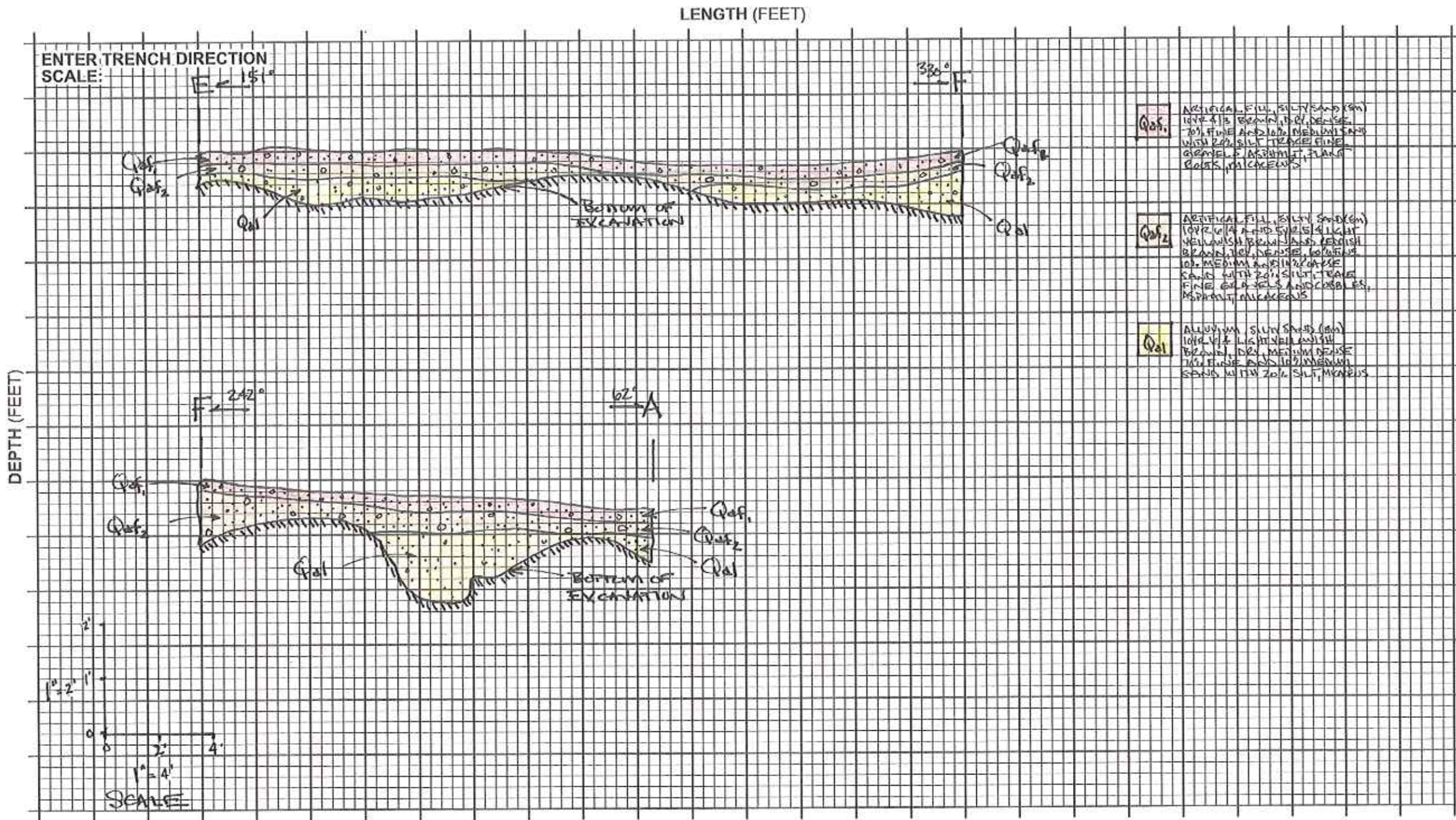
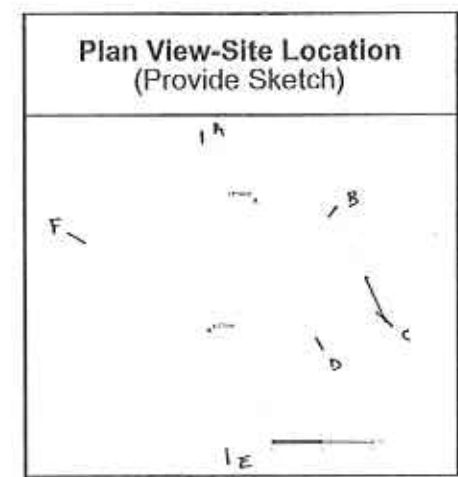
Qsf  
ACTUAL FILL SILT SAND (SM)  
10% FINE AND 1% MED. SAND  
70% FINE AND 1% MED. SAND  
SAND WITH 20% SILT, TRACE  
FINE GRAVELS, SOMEWHAT  
PLASTIC, MICACEOUS

Qsf2  
ACTUAL FILL SILT SAND (SM)  
NOTE 1/4 AND 1/2 LIGHT  
YELLOWISH BROWN AND REDDISH  
BROWN, DRY, DISSEMINATED FINE  
TO MEDIUM SAND TO GRAVEL (SM)  
WITH 20% CLT, TRACE FINE  
GRAVELS AND LOBBLES,  
ASBEST, MICACEOUS

Qsf  
ALLUVIAL SILTY SAND (SM)  
10% FINE AND 1% MED. SAND  
BELOW THE MEDIUM  
GRAVEL, 20% FINE SAND  
10% MEDIUM SAND WITH  
20% SILT, MICACEOUS

- EXPLANATION**
- SOIL TYPE CONTACT (SHARP)
  - - - - OTHER CONTACT (AS INDICATED ON LOG)
  - - - - FILL/NATIVE BOUNDARY
  - X ANALYTICAL SAMPLE LOCATION (WRITE SAMPLE NUMBER OUT TO SIDE)
  - G GEOTECHNICAL SAMPLE LOCATION (WRITE SAMPLE NUMBER OUT TO SIDE)
  - //// SHADING TO DENOTE STAINING
  - //// BASE OF EXCAVATION
  - SHOW LOCATIONS AND TYPES OF ALL MAJOR DEBRIS

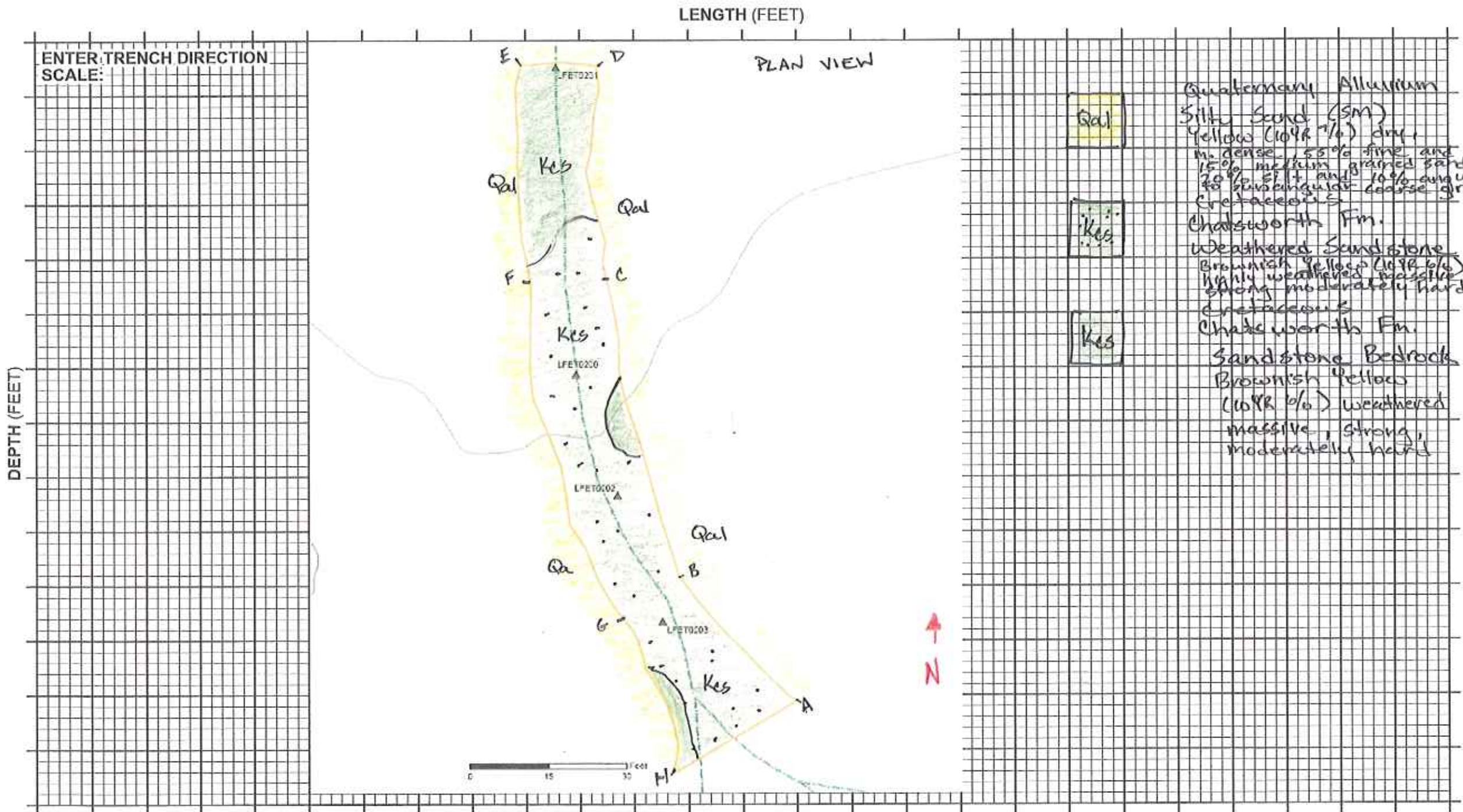
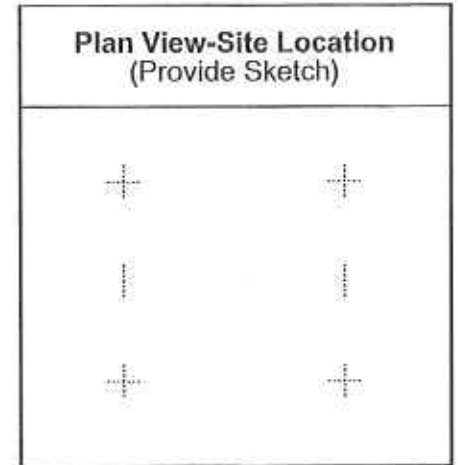
Project Name 2010 ISRA Implementation				FIELD TRENCH LOG			
Trench Number ILTS0099		Project Number 1008208.1163110		Elevation and Datum SURVEYED BY SAGE		Location IEI.-1	
Equipment Supplier MP2		Operator MICKEY GRAVES		Date and Time Started 10 AUGUST 2010		Date and Time Completed 13 AUGUST 2010	
Equipment Type VACUUM TRUCK		Trench Orientation NW-SE		Total Depth 1.8 ft.		Total Number of Samples 2	
Bucket Width NIA	Trench Length 110 ft.	Trench Width 100 ft.	No. of Samples	Bulk Ø	Grab 2	Drive Ø	Hand Auger Ø
Geologist or Hydrogeologist/Date STACIE L. AICHNER, LOGGED ON 28-29 OCTOBER 2010				Checked by/Date SAGE 8/24/10			
						Refusal? (Circle One) <input checked="" type="radio"/> No <input type="radio"/> Yes If Yes Depth = <0.5 ft. Dgs	
						Photo? (Circle One) <input checked="" type="radio"/> Yes <input type="radio"/> No	
						% Man Made Debris	
						Wall of Trench Shown (Circle One) N S E W NE NW SE SW	



- Q01** ARTIFICIAL FILL, SILTY SAND (SM) 10% FINE SAND, 10% DENSE TO 20% FINE AND 10% MEDIUM SAND WITH 20% SILT, TRACE FINE GRAIN, 5% BRICK, 1% SAND, 1% COBBLES, 1% MUCKEUS
- Q02** ARTIFICIAL FILL, SILTY SAND (SM) 10% FINE SAND, 10% DENSE TO 20% FINE AND 10% MEDIUM SAND WITH 20% SILT, TRACE FINE GRAIN, 5% BRICK, 1% SAND, 1% COBBLES, 1% MUCKEUS
- Q01** ALLUVIUM, SILTY SAND (SM) 10% FINE SAND, 10% DENSE TO 20% FINE AND 10% MEDIUM SAND WITH 20% SILT, TRACE FINE GRAIN, 5% BRICK, 1% SAND, 1% COBBLES, 1% MUCKEUS

- EXPLANATION**
- SOIL TYPE CONTACT (SHARP)
  - - - - OTHER CONTACT (AS INDICATED ON LOG)
  - FILL/NATIVE BOUNDARY
  - X ANALYTICAL SAMPLE LOCATION (WRITE SAMPLE NUMBER OUT TO SIDE)
  - G GEOTECHNICAL SAMPLE LOCATION (WRITE SAMPLE NUMBER OUT TO SIDE)
  - //// SHADING TO DENOTE STAINING
  - ////// BASE OF EXCAVATION
  - SHOW LOCATIONS AND TYPES OF ALL MAJOR DEBRIS

Project Name: 2010 ISRA Implementation			FIELD TRENCH LOG		
Trench Number: LFTS0199	Project Number: 1008208.1163110	Elevation and Datum: SURVEYED BY SAGE	Location: CTLI-1B	Sheet 1 of 4	
Equipment Supplier: MPE	Operator: DAVID WILMER	Date and Time Started: 10/22/10	Date and Time Completed: 10/26/10	Refusal? (Circle One): <input checked="" type="checkbox"/> Yes	If Yes (Depth = VARIES)
Equipment Type: EXCAVATOR, VACUUM TRUCK	Trench Orientation: N-S	Total Depth: VARIES	Total Number of Samples: 12-19-4	Photo? (Circle One): <input checked="" type="checkbox"/> Yes	No.
Bucket Width: ~4 ft.	Trench Length: 131 ft.	Trench Width: ~17 ft.	No. of Samples: Bulk: $\emptyset$ Grab: 12-19-4	Drive: $\emptyset$	Hand Auger: $\emptyset$
Geologist or Hydrogeologist/Date: N. Brady 10/22/10 to 10/26/10			Checked by/Date: [Signature] 4/1/11		Wall of Trench Shown (Circle One): N S E W NE NW SE SW



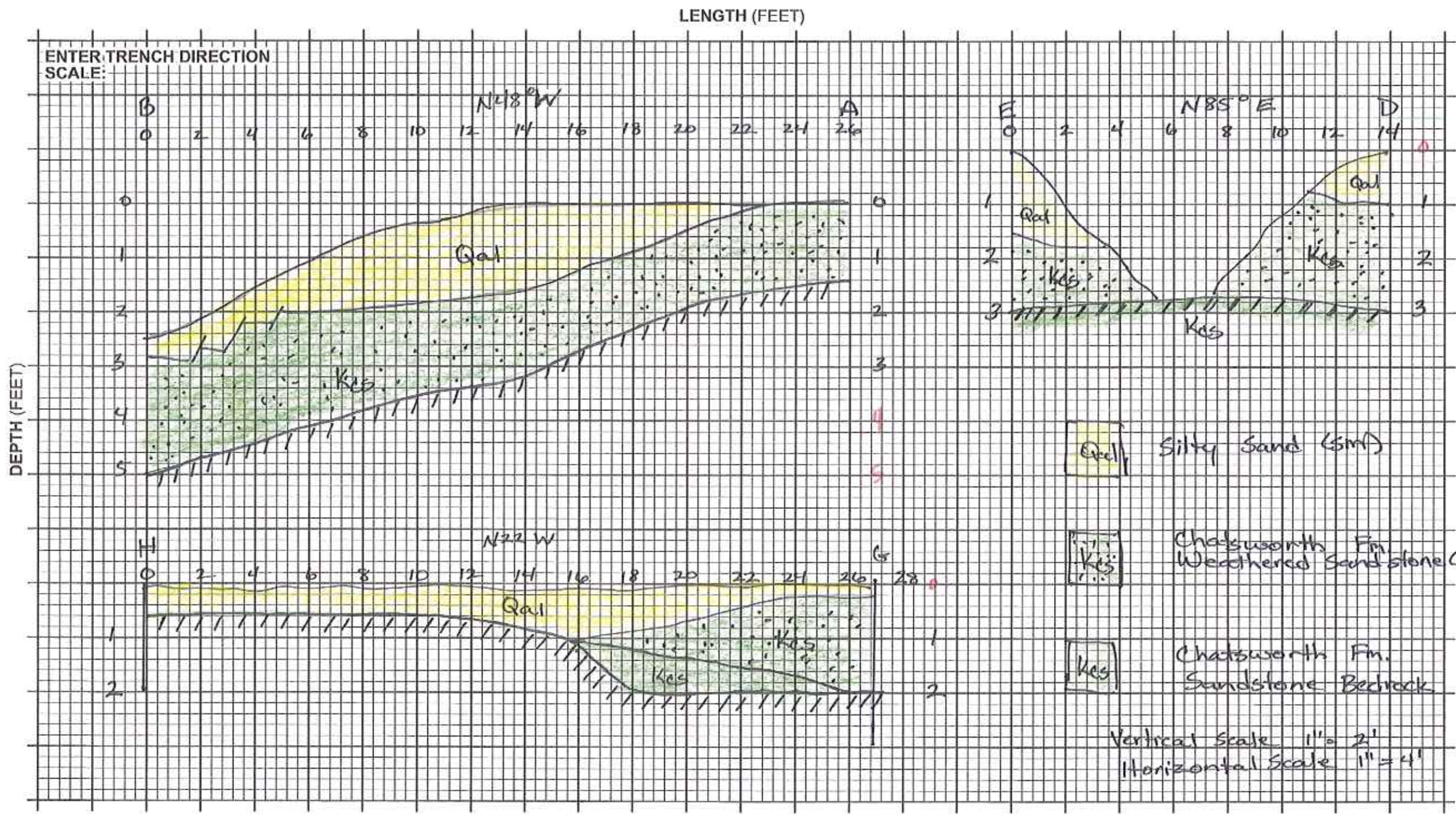
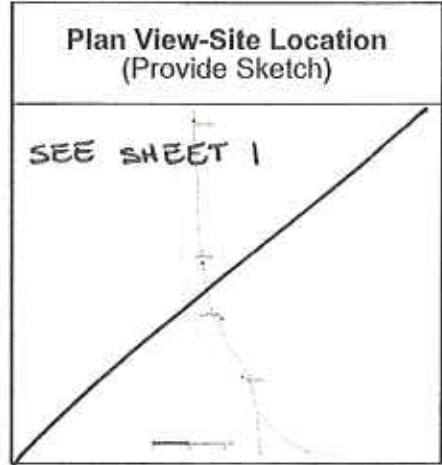
Quaternary Alluvium  
Silty Sand (SM)  
Yellow (10% 1/4) dry,  
m. dense, 55% fine and  
15% medium grained sand  
to subangular coarse gravel  
Cretaceous  
Chatsworth Fm.  
Weathered Sandstone  
Brownish yellow (10% 0/4)  
highly weathered massive  
strong moderately hard  
Cretaceous  
Chatsworth Fm.  
Sandstone Bedrock  
Brownish yellow  
(10% 0/4) weathered  
massive, strong,  
moderately hard

- EXPLANATION**
- SOIL TYPE CONTACT (SHARP)
  - - - OTHER CONTACT (AS INDICATED ON LOG)
  - - - - - FILL/NATIVE BOUNDARY
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  - //// BASE OF EXCAVATION
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\* THE ISRA AREA BOUNDARY SHOWN IN ORANGE IS THE TENTATIVE GPS DEFINED AREA AND WAS LATER SURVEYED BY SAGE CONSULTANTS.



Project Name				FIELD TRENCH LOG			
2010 ISRA Implementation		Project Number 1008208.1163110		Elevation and Datum SURVEYED BY SAGE		Location CTLJ-1B	
Trench Number LFTS0199		Operator DAVID WILMER		Date and Time Started 10/22/10		Date and Time Completed 10/26/10	
Equipment Supplier MPE		Trench Orientation N-S		Total Depth Varies		Refusal? (Circle One) Yes No	
Equipment Type EXCAVATOR, VACUUM TRUCK		Trench Width ~17 ft.		No. of Samples		Photo? (Circle One) Yes No	
Bucket Width 4 ft.		Trench Length 131 ft.		Bulk $\emptyset$		Hand Auger $\emptyset$	
Geologist or Hydrogeologist/Date N. Beatty 10/22/10 to 10/26/10		Checked by/Date [Signature] P. [Signature] 4/1/11		Total Number of Samples ~19 4		% Man-Made Debris	
				Wall of Trench Shown (Circle One) N S E W NE NW SE SW			

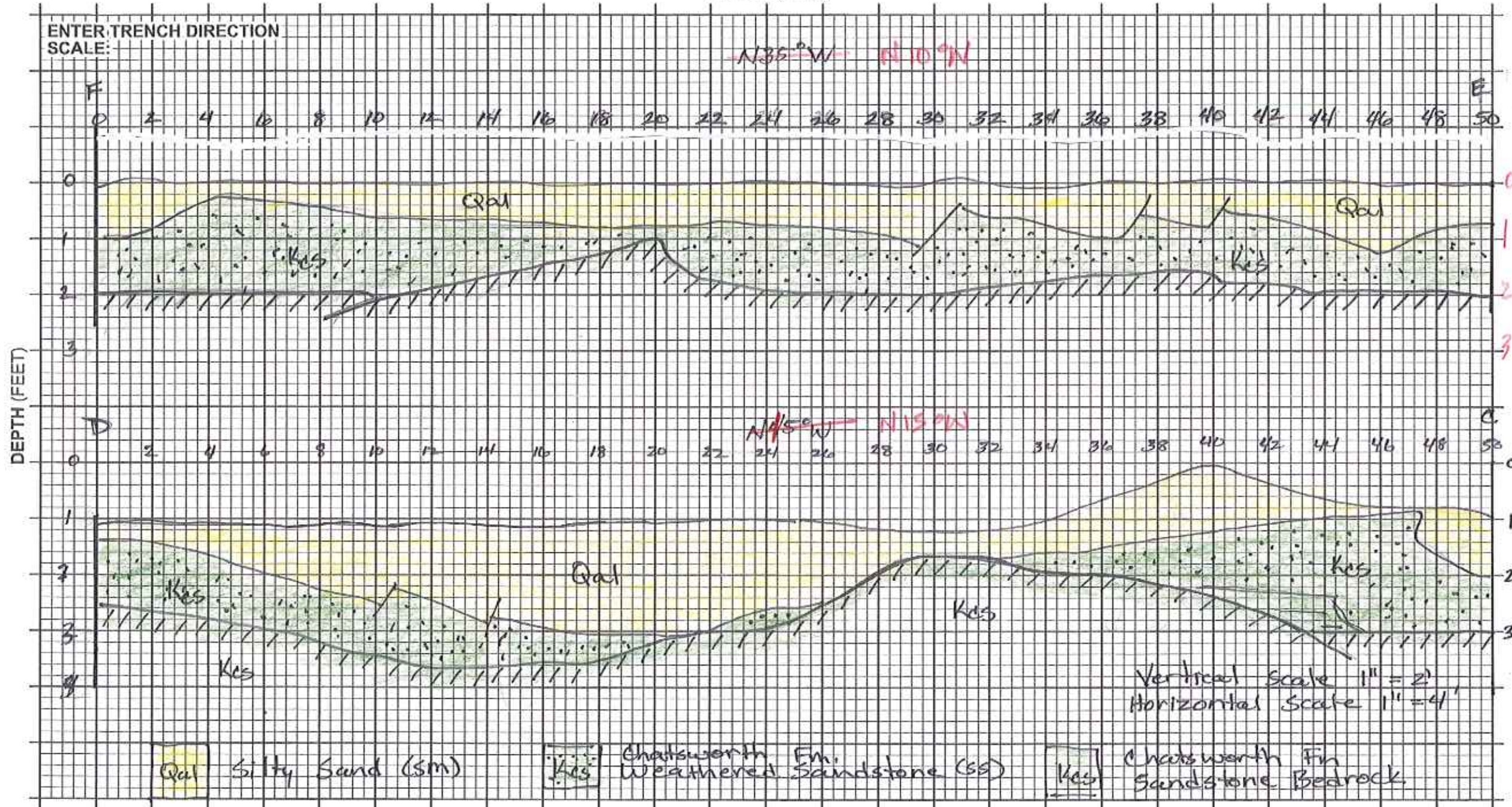


- EXPLANATION**
- SOIL TYPE CONTACT (SHARP)
  - - - OTHER CONTACT (AS INDICATED ON LOG)
  - - - FILL/NATIVE BOUNDARY
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  - /// SHADING TO DENOTE STAINING
  - //// BASE OF EXCAVATION
  - SHOW LOCATIONS AND TYPES OF ALL MAJOR DEBRIS

Project Name 2010 ISRA Implementation			FIELD TRENCH LOG					
Trench Number LFTS0199	Project Number 1008208.1163110	Elevation and Datum SURVEYED BY SAGE	Location CTLI-1B		Sheet 3 of 4			
Equipment Supplier MPE	Operator DAVID WILMER	Date and Time Started 10/22/10	Date and Time Completed 10/26/10		Refusal? (Circle One) <input checked="" type="radio"/> No	If Yes Depth = VARIES		
Equipment Type EXCAVATOR, VACUUM TRUCK	Trench Orientation N-S	Total Depth VARIES	Total Number of Samples NET 4		Photo? (Circle One) <input checked="" type="radio"/> No	No		
Bucket Width 4 ft.	Trench Length 131 ft.	Trench Width 17 ft.	No. of Samples	Bulk Ø	Grab NET 4	Drive Ø	Hand Auger Ø	
Geologist or Hydrogeologist/Date N. Beatty 10/22/10 to 10/26/10		Checked by/Date [Signature] 10/26/10		Wall of Trench Shown (Circle One) N S E W NE NW SE SW				



LENGTH (FEET)

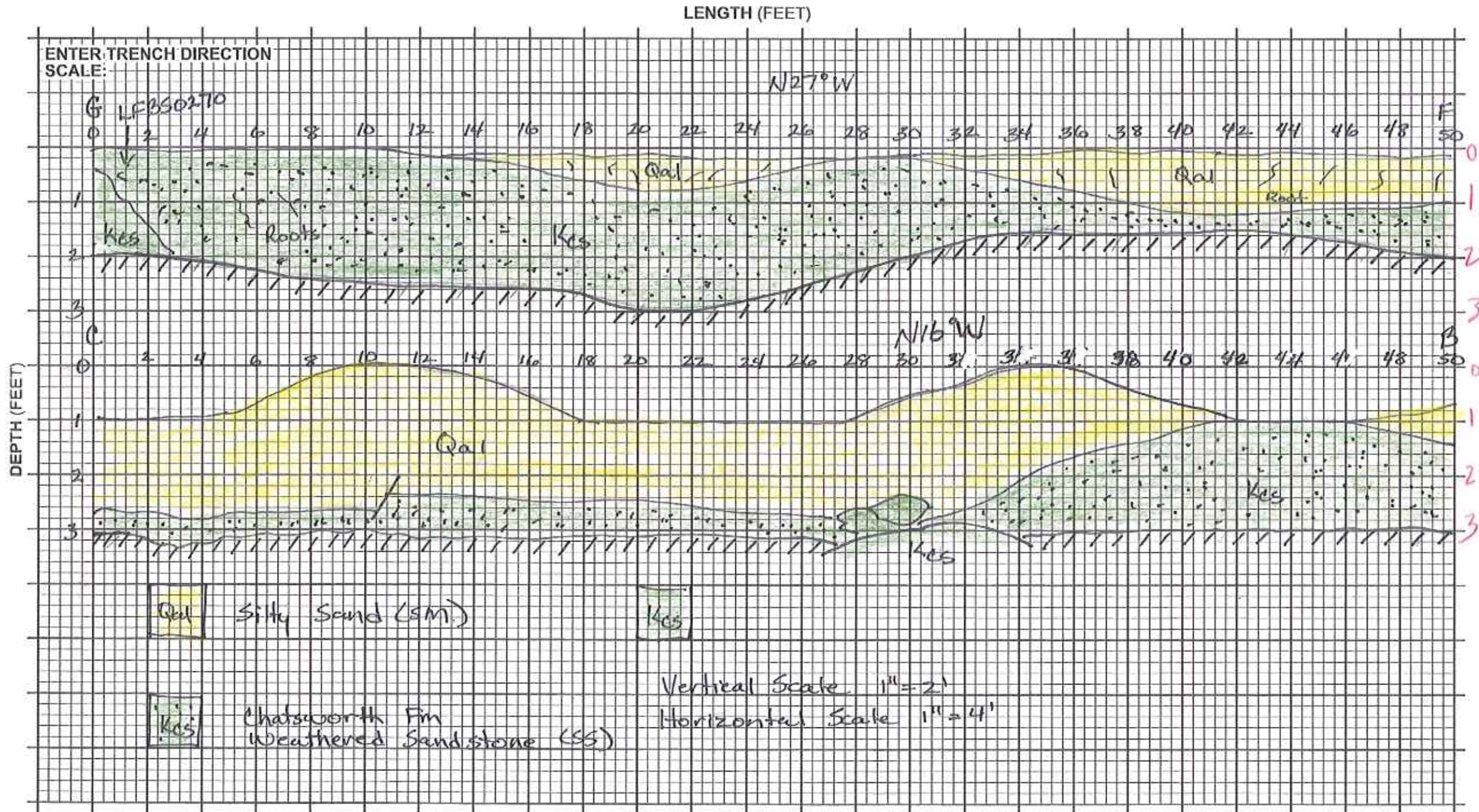


EXPLANATION

- SOIL TYPE CONTACT (SHARP)
- - - OTHER CONTACT (AS INDICATED ON LOG)
- - - FILL/NATIVE BOUNDARY
- X ANALYTICAL SAMPLE LOCATION (WRITE SAMPLE NUMBER OUT TO SIDE)
- G GEOTECHNICAL SAMPLE LOCATION (WRITE SAMPLE NUMBER OUT TO SIDE)
- //// SHADING TO DENOTE STAINING
- //// BASE OF EXCAVATION
- SHOW LOCATIONS AND TYPES OF ALL MAJOR DEBRIS



Project Name				FIELD TRENCH LOG			
Trench Number LFTS0199		Project Number 1008208.1163110		Elevation and Datum SURVEYED BY SAGE		Location CTLI-1A/B	
Equipment Supplier MPE		Operator DAVID WILMER		Date and Time Started 10/22/10		Date and Time Completed 10/26/10	
Equipment Type EXCAVATOR, VACUUM TRUCK		Trench Orientation N-S		Total Depth VARIES		Total Number of Samples 4	
Bucket Width 4 ft.	Trench Length 131 ft.	Trench Width 17 ft.	No. of Samples	Bulk 0	Grab 4	Drive 0	Hand Auger 0
Geologist or Hydrogeologist/Date N. Beaty 10/22/10 to 10/26/10				Checked by/Date [Signature] 4/1/11			
Refusal? (Circle One) <input checked="" type="radio"/> No						If Yes Depth - VARIES	
Photo? (Circle One) <input checked="" type="radio"/> No						No	
% Man-Made Debris						Wall of Trench Shown (Circle One) N S E W NE NW SE SW	

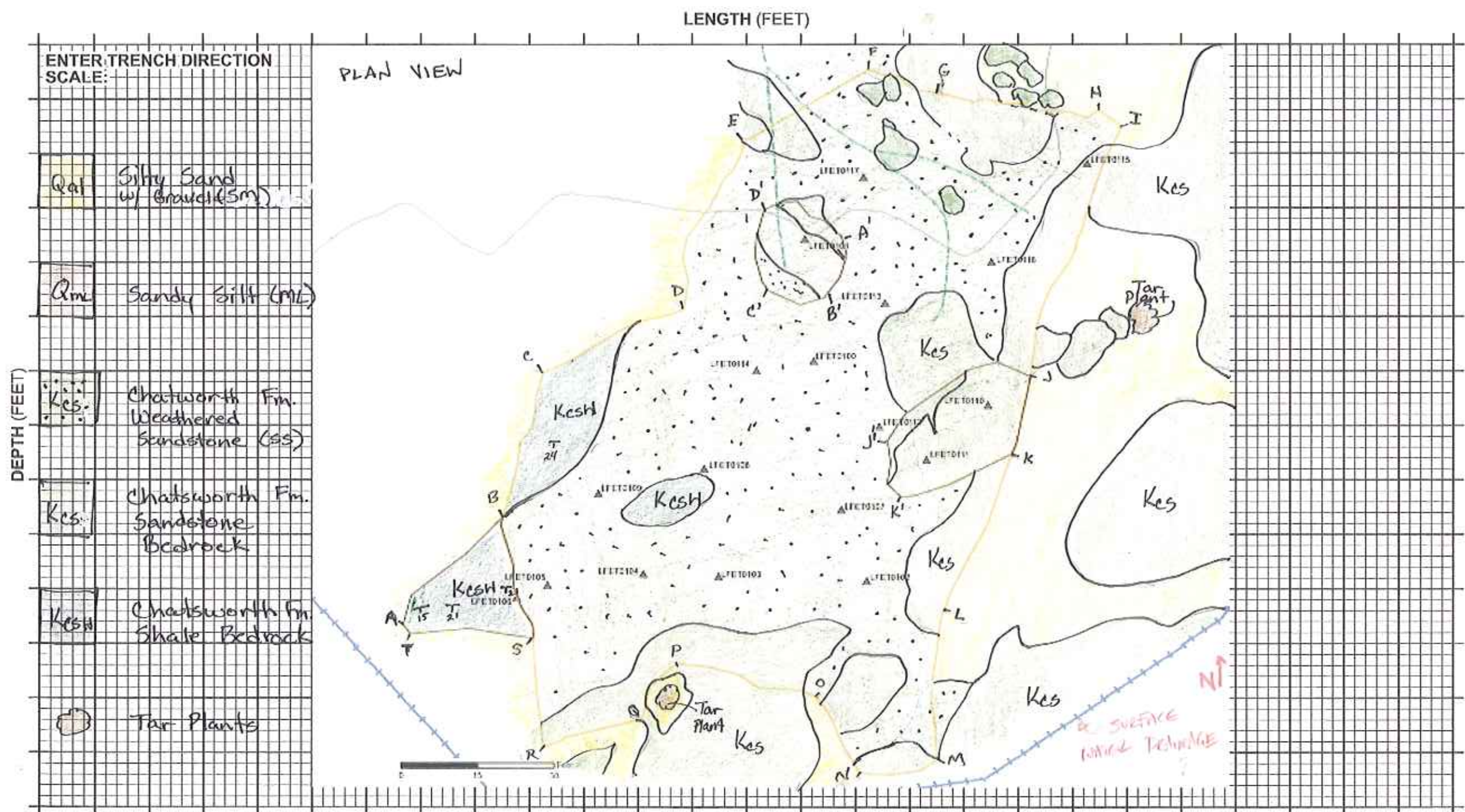


- EXPLANATION**
- SOIL TYPE CONTACT (SHARP)
  - - - OTHER CONTACT (AS INDICATED ON LOG)
  - - - FILL/NATIVE BOUNDARY
  - X ANALYTICAL SAMPLE LOCATION (WRITE SAMPLE NUMBER OUT TO SIDE)
  - G GEOTECHNICAL SAMPLE LOCATION (WRITE SAMPLE NUMBER OUT TO SIDE)
  - //// SHADING TO DENOTE STAINING
  - //// BASE OF EXCAVATION
  - SHOW LOCATIONS AND TYPES OF ALL MAJOR DEBRIS

Project Name 2010 ISRA Implementation				FIELD TRENCH LOG			
Trench Number LFTS0199		Project Number 1008208.1163110		Elevation and Datum SURVEYED BY SAGE		Location CTLI-1A	
Equipment Supplier MPE		Operator DAVID WILMER		Date and Time Started 10/22/10		Date and Time Completed 10/26/10	
Equipment Type EXCAVATOR, VACUUM TRUCK		Trench Orientation NE-SW		Total Depth VARIES		Total Number of Samples 19	
Bucket Width 4 ft.	Trench Length 157 ft.	Trench Width VARIABLE FROM 47-102 ft.		No. of Samples	Hulk Ø	Grab 19	Drive Ø
Geologist or Hydrogeologist/Date N. Beatty 10/22/10 to 10/26/10				Checked by/Date [Signature] 3/31/11		Wall of Trench Shown (Circle One) N S E W NE NW SE SW	
						Refusal? (Circle One) Yes No	
						Photo? (Circle One) Yes No	
						% Man-Made Debris	



Plan View-Site Location  
(Provide Sketch)



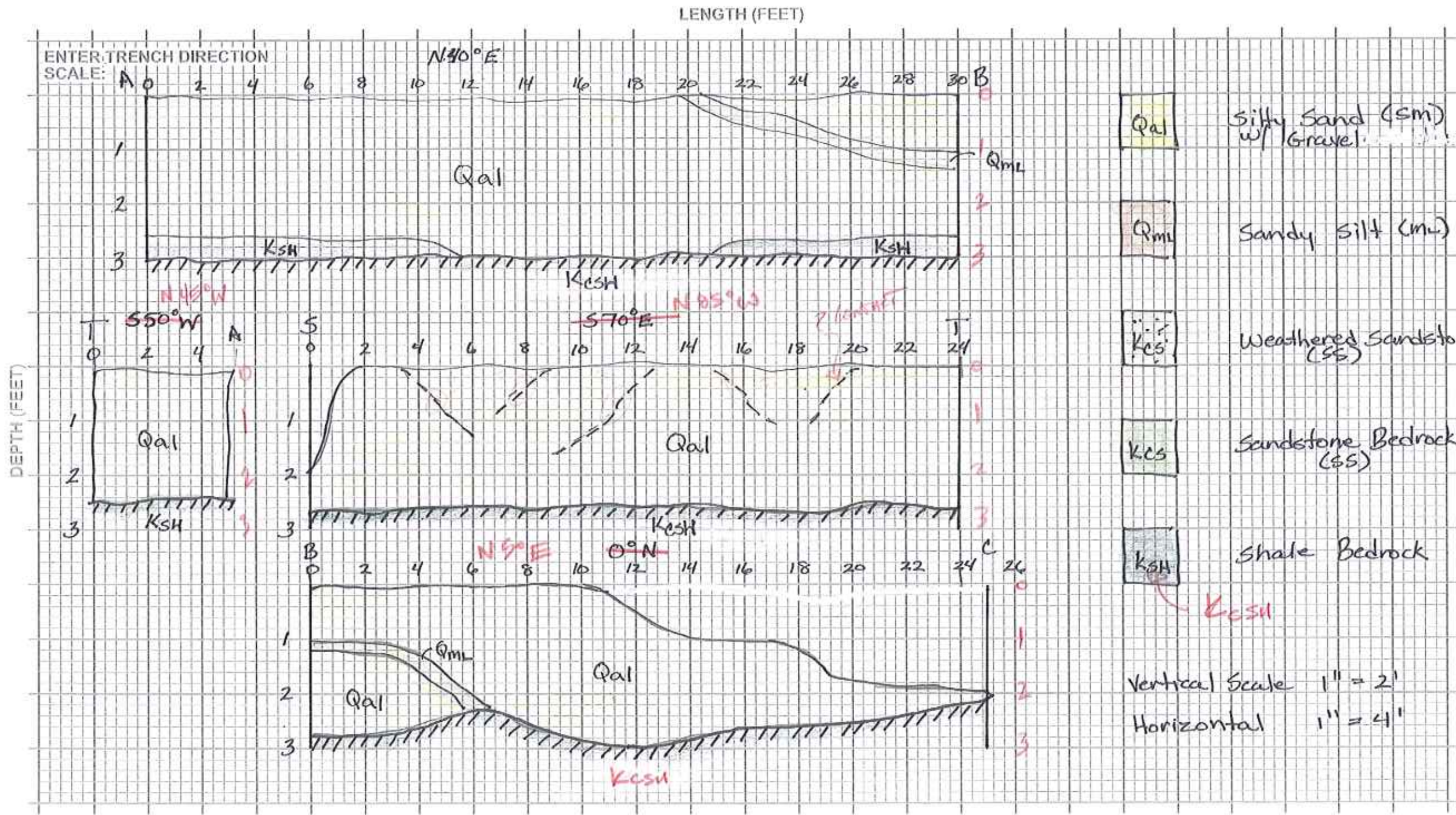
- EXPLANATION**
- SOIL TYPE CONTACT (SHARP)
  - - - OTHER CONTACT (AS INDICATED ON LOG)
  - - - - - FILL/NATIVE BOUNDARY
  - X ANALYTICAL SAMPLE LOCATION (WRITE SAMPLE NUMBER OUT TO SIDE)
  - G GEOTECHNICAL SAMPLE LOCATION (WRITE SAMPLE NUMBER OUT TO SIDE)
  - //// SHADING TO DENOTE STAINING
  - //// BASE OF EXCAVATION
  - SHOW LOCATIONS AND TYPES OF ALL MAJOR DEBRIS

Project Name 2010 ISRA Implementation			FIELD TRENCH LOG			
Trench Number LFTS0199	Project Number 1008208.1163110	Elevation and Datum SURVEYED BY SAGE	Location CTL1-1A	Sheet 2 of 11		
Equipment Supplier MPE	Operator DAVID WILMER	Date and Time Started 10/22/10	Date and Time Completed 10/26/10	Refused? (Circle One) Yes No	If Yes Depth - VARIES	
Equipment Type EXCAVATOR, VACUUM TRUCK	Trench Orientation NE-SW	Total Depth VARIES	Total Number of Samples 19	Photo? (Circle One) Yes No	No.	
Bucket Width 4 ft.	Trench Length 157 ft.	Trench Width VARIABLE FROM 47-102 ft.	No. of Samples 19	Drive Ø	Hand Auger Ø	
Geologist or Hydrogeologist/Date N. Beauty 10/22/10 to 10/26/10		Checked by/Date [Signature] 3/31/11		Walk of Trench Shown (Circle One) N S E W NE NW SE SW		



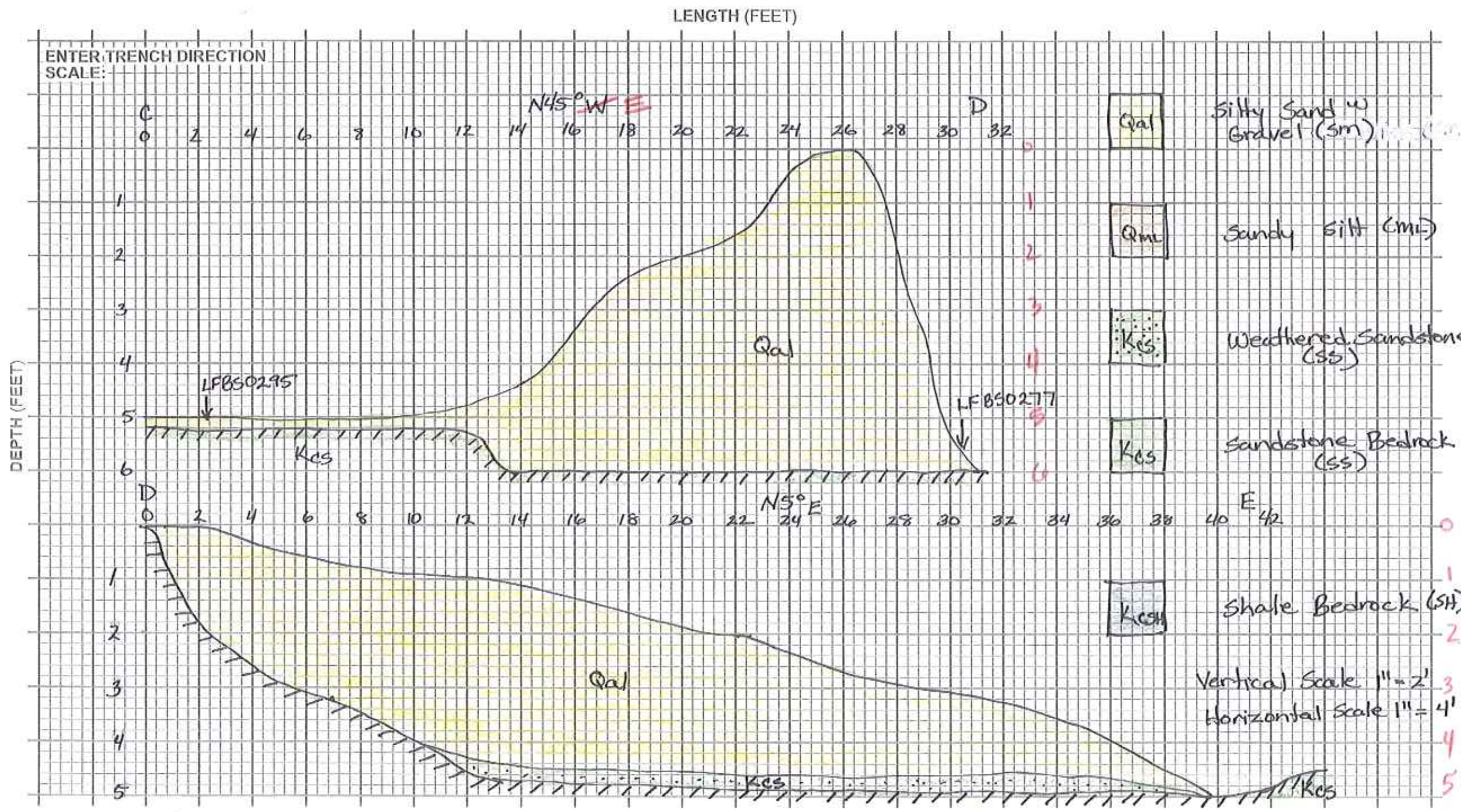
Plan View-Site Location  
(Provide Sketch)

SEE SHEET 1



- EXPLANATION
- SOIL TYPE CONTACT (SHARP)
  - - - OTHER CONTACT (AS INDICATED ON LOG)
  - - - FILL/NATIVE BOUNDARY
  - X ANALYTICAL SAMPLE LOCATION (WRITE SAMPLE NUMBER OUT TO SIDE)
  - G GEOTECHNICAL SAMPLE LOCATION (WRITE SAMPLE NUMBER OUT TO SIDE)
  - //// SHADING TO DENOTE STAINING
  - //// BASE OF EXCAVATION
  - SHOW LOCATIONS AND TYPES OF ALL MAJOR DEBRIS

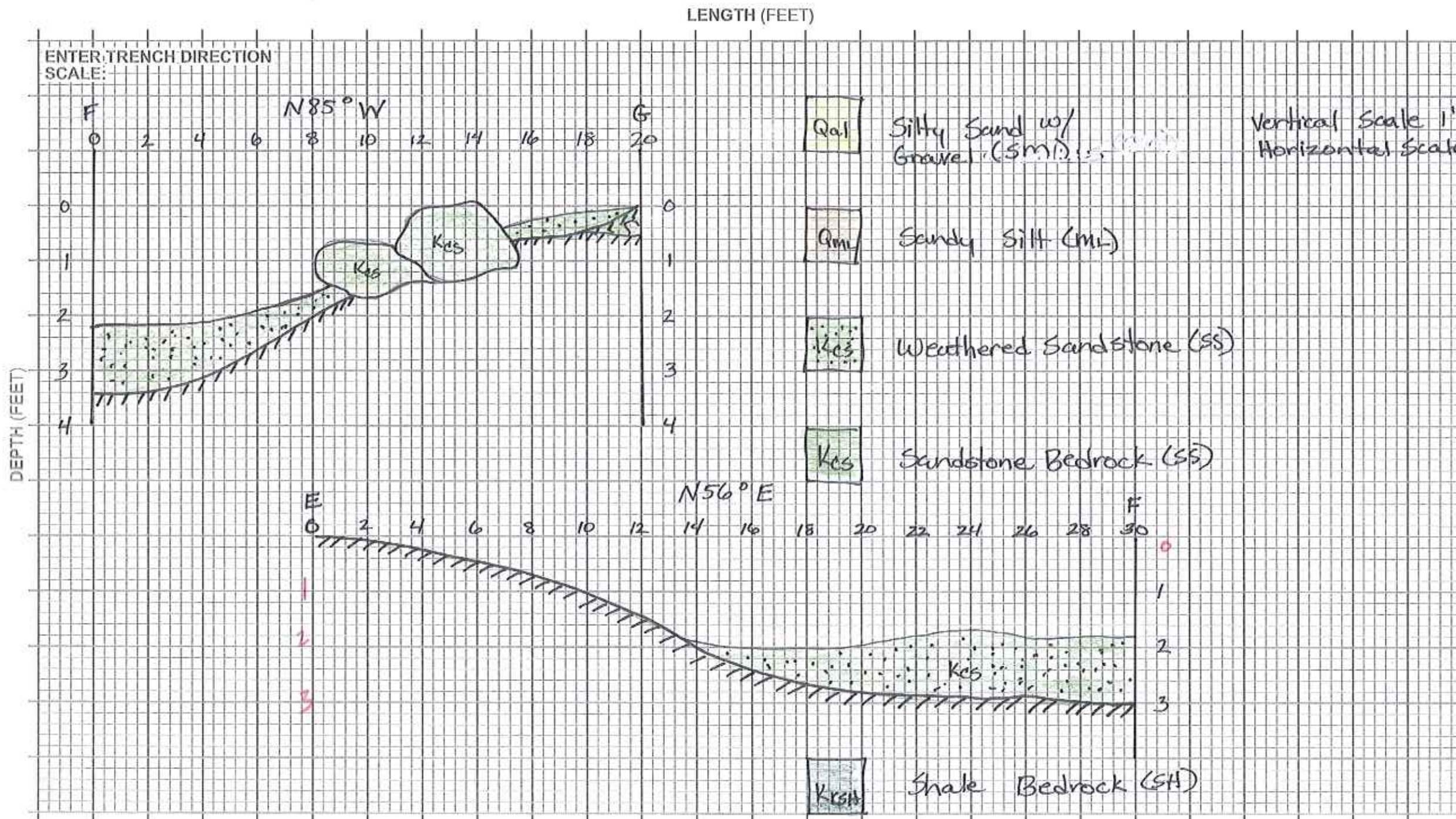
Project Name: 2010 ISRA Implementation			FIELD TRENCH LOG			
Trench Number: LFTS0199	Project Number: 1008208.1163110	Elevation and Datum: SURVEYED BY SAGE	Location: CTLI-1A	Sheet: 3 of 11		
Equipment Supplier: MPE	Operator: DAVID WILMER	Date and Time Started: 10/22/10	Date and Time Completed: 10/25/10	Refusal? (Circle One): Yes	If Yes Depth: VARIES	No
Equipment Type: EXCAVATOR, VACUUM TRUCK	Trench Orientation: NE-SW	Total Depth: VARIES	Total Number of Samples: 19	Photo? (Circle One): Yes	No	No.
Bucket Width: 4 ft.	Trench Length: 157 ft.	Trench Width: VARIABLE FROM 47-102 ft.	No. of Samples: Bulk: 0, Grab: 19	Drive: 0	Hand Auger: 0	% Man-Made Debris:
Geologist or Hydrogeologist Date: N. Beatty 10/22/10 to 10/26/10		Checked by/Date: [Signature] 3/31/11			Wall of Trench Shows (Circle One): N, S, E, W, NE, NW, SE, SW	



- EXPLANATION**
- SOIL TYPE CONTACT (SHARP)
  - - - OTHER CONTACT (AS INDICATED ON LOG)
  - - - FILL/NATIVE BOUNDARY
  - X ANALYTICAL SAMPLE LOCATION (WRITE SAMPLE NUMBER OUT TO SIDE)
  - G GEOTECHNICAL SAMPLE LOCATION (WRITE SAMPLE NUMBER OUT TO SIDE)
  - //// SHADING TO DENOTE STAINING
  - //// BASE OF EXCAVATION
  - SHOW LOCATIONS AND TYPES OF ALL MAJOR DEBRIS

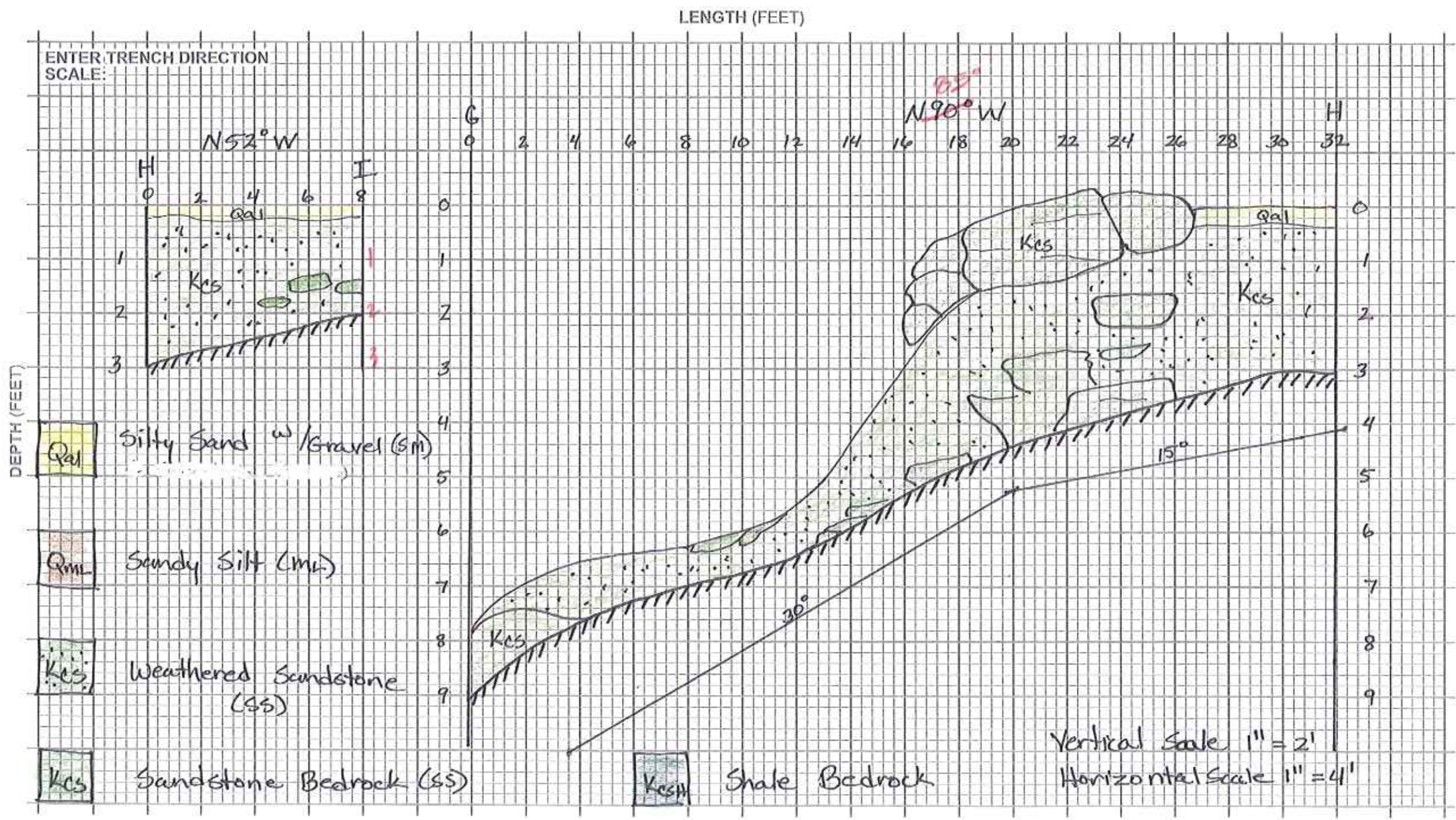
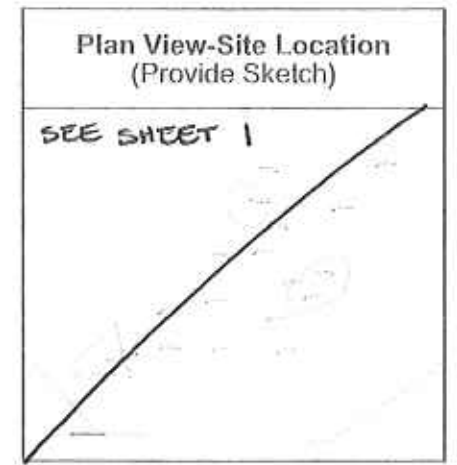
Vertical Scale 1" = 2'  
Horizontal Scale 1" = 4'

Project Name 2010 ISRA Implementation			FIELD TRENCH LOG			
Trench Number LFTS0199	Project Number 1008208.1163110	Elevation and Datum SURVEYED BY SAGE	Location CTLI-1A		Sheet 4 of 11	
Equipment Supplier MPC	Operator DAVID WILMER	Date and Time Started 10/22/10	Date and Time Completed 10/26/10		Refusal? (Circle One) <input checked="" type="radio"/> No <input type="radio"/> Yes If Yes Depth = VARIES	
Equipment Type EXCAVATOR, VACUUM TRUCK	Trench Orientation NE-SW	Total Depth VARIES	Total Number of Samples 19		Photo? (Circle One) <input checked="" type="radio"/> Yes <input type="radio"/> No	
Bucket Width 4 ft.	Trench Length 157 ft.	Trench Width VARIABLE FROM 47-102 ft.	No. of Samples	Bulk <input type="checkbox"/>	Grab <input type="checkbox"/>	
Geologist or Hydrogeologist/State N. Brady 10/22/10 to 10/26/10			Checked by/Date A. B. PARNES 3/31/11		Drive <input type="checkbox"/>	
			Hand Auger <input type="checkbox"/>		% Man-Made Debris	
			Wall of Trench Shown (Circle One) N S E W NE NW SE SW			



- EXPLANATION**
- SOIL TYPE CONTACT (SHARP)
  - - - - OTHER CONTACT (AS INDICATED ON LOG)
  - FILL/NATIVE BOUNDARY
  - X ANALYTICAL SAMPLE LOCATION (WRITE SAMPLE NUMBER OUT TO SIDE)
  - G GEOTECHNICAL SAMPLE LOCATION (WRITE SAMPLE NUMBER OUT TO SIDE)
  - ////// SHADING TO DENOTE STAINING
  - ////// BASE OF EXCAVATION
  - SHOW LOCATIONS AND TYPES OF ALL MAJOR DEBRIS

Project Name 2010 ISRA Implementation			FIELD TRENCH LOG			
Trench Number LFTS0199	Project Number 1008208.1163110	Elevation and Datum SURVEYED BY SAGE	Location CTLI-1A	Sheet 5 of 11	Refusal? (Circle One) <input checked="" type="radio"/> Yes <input type="radio"/> No	If Yes Depth = VARIES
Equipment Supplier MPE	Operator DAVID WILMER	Date and Time Started 10/22/10	Date and Time Completed 10/26/10	Photo? (Circle One) <input checked="" type="radio"/> Yes <input type="radio"/> No	No.	
Equipment type EXCAVATOR, VACUUM TRUCK	Trench Orientation NE-SW	Total Depth VARIES	Total Number of Samples 19	No.		
Bucket Width 4 ft.	Trench Length 157 ft.	Trench Width VARIABLE FROM 47-102 ft.	No. of Samples 19	Bulk ∅	Grab 19	Drive ∅
Geologist or Hydrogeologist Date N. Beatty 10/22/10 to 10/26/10		Checked by Date AS per 10/25/10		Wall of Trench Shown (Circle One) N S E W NE NW SE SW		



EXPLANATION

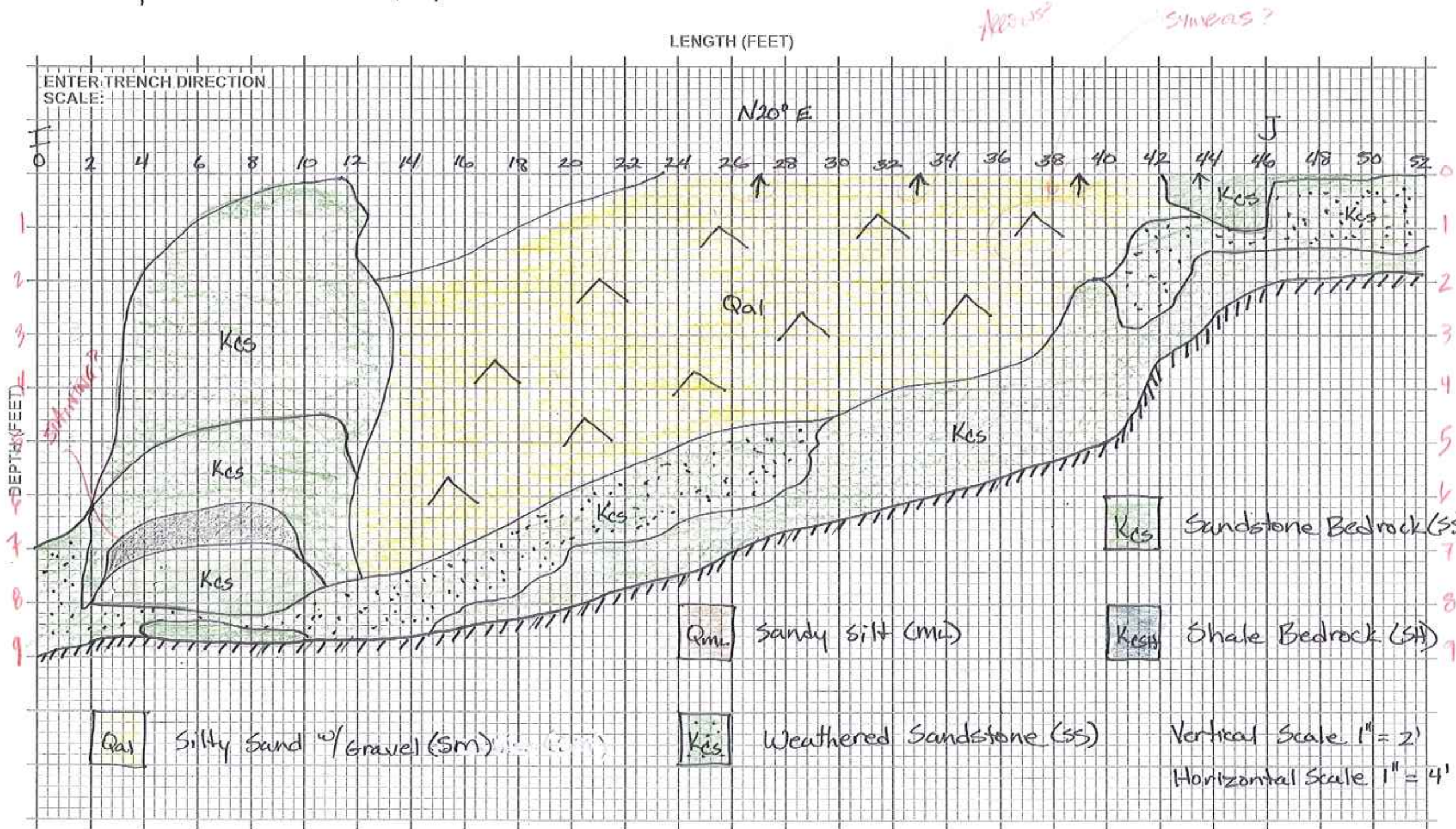
- SOIL TYPE CONTACT (SHARP)
- - - OTHER CONTACT (AS INDICATED ON LOG)
- - - - - FILL/NATIVE BOUNDARY
- X ANALYTICAL SAMPLE LOCATION (WRITE SAMPLE NUMBER OUT TO SIDE)
- G GEOTECHNICAL SAMPLE LOCATION (WRITE SAMPLE NUMBER OUT TO SIDE)
- ////// SHADING TO DENOTE STAINING
- ////// BASE OF EXCAVATION
- SHOW LOCATIONS AND TYPES OF ALL MAJOR DEBRIS

Project Name 2010 ISRA Implementation			FIELD TRENCH LOG			
Trench Number LFTS0199	Project Number 1008208.1163110	Elevation and Datum SURVEYED BY SAGE	Location CTLI-1A		Sheet 6 of 11	
Equipment Supplier MPE	Operator DAVID WILMER	Date and Time Started 10/22/10	Date and Time Completed 10/26/10		Refusal? (Circle One) Yes No	If Yes Depth = VARIES
Equipment Type EXCAVATOR, VACUUM TRUCK	Trench Orientation NE-SW	Total Depth VARIES	Total Number of Samples 19		Photo? (Circle One) Yes No	No.
Bucket Width 4 ft.	Trench Length 157 ft.	Trench Width VARIABLE FROM 47-102 ft.	No. of Samples	Bulk $\emptyset$	Grab 19	Drive $\emptyset$
Geologist or Hydrogeologist/Date N. Beatty 10/22/10 to 10/26/10		Checked by/Date		Hand Auger $\emptyset$	% Man-Made Debris	
				Wall of Trench Shown (Circle One) N S E W NE NW SE SW		



Plan View-Site Location  
(Provide Sketch)

SEE SHEET 1



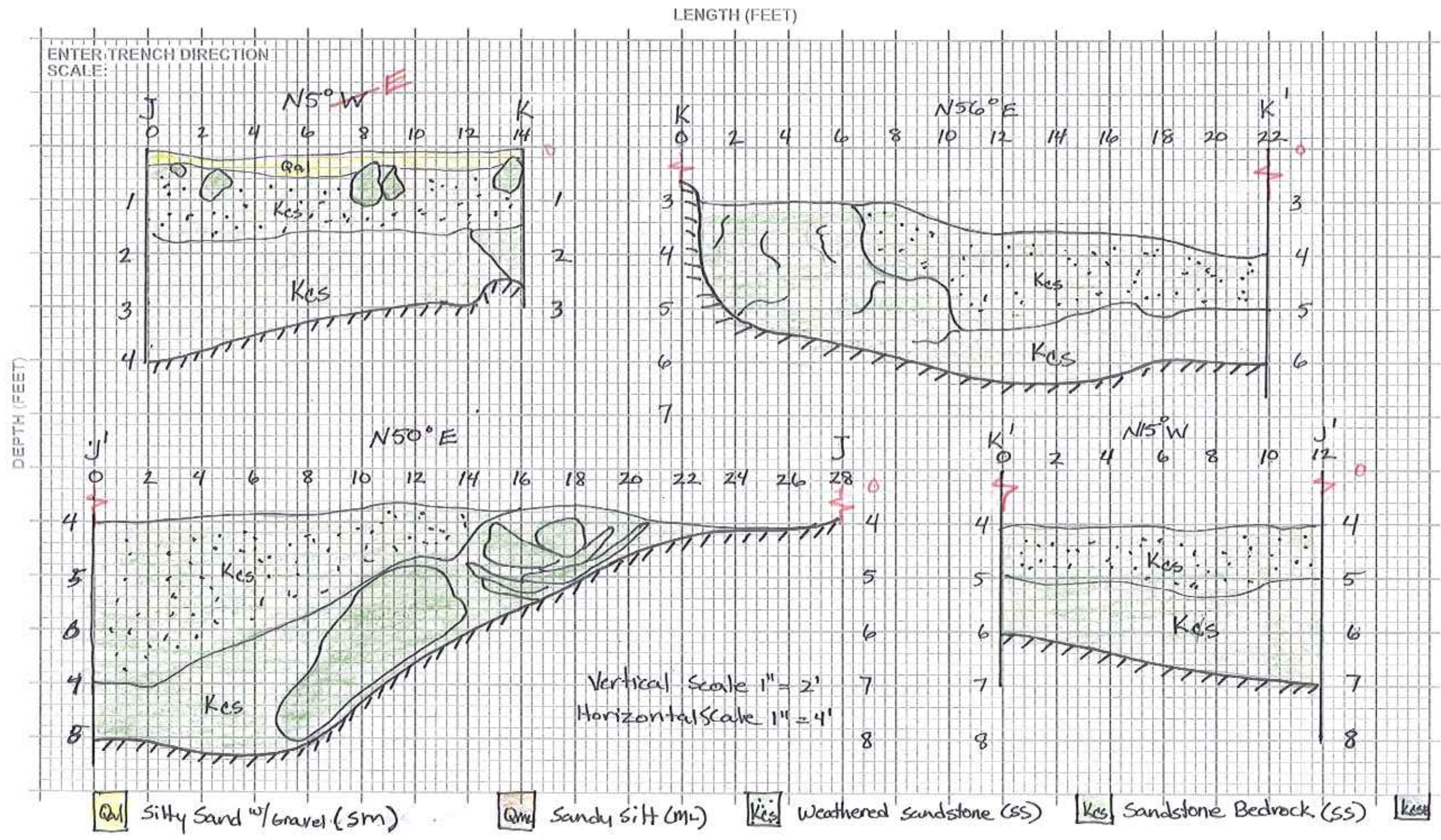
- EXPLANATION**
- SOIL TYPE CONTACT (SHARP)
  - - - OTHER CONTACT (AS INDICATED ON LOG)
  - - - - - FILL/NATIVE BOUNDARY
  - X ANALYTICAL SAMPLE LOCATION (WRITE SAMPLE NUMBER OUT TO SIDE)
  - G GEOTECHNICAL SAMPLE LOCATION (WRITE SAMPLE NUMBER OUT TO SIDE)
  - /// SHADING TO DENOTE STAINING
  - //// BASE OF EXCAVATION
  - SHOW LOCATIONS AND TYPES OF ALL MAJOR DEBRIS

Project Name: 2010 ISRA Implementation				FIELD TRENCH LOG			
Trench Number: LFTS0199	Project Number: 1008208.1163110	Elevation and Datum: SURVEYED BY SAGE	Location: CTLI-1A	Sheet 7 of 11		Refusal? (Circle One)	
Equipment Supplier: MPE	Operator: DAVID WILMER	Date and Time Started: 10/22/10	Date and Time Completed: 10/26/10	Yes	No	If Yes Depth - VARIES	
Equipment Type: EXCAVATOR, VACUUM TRUCK	Trench Orientation: NE - SW	Total Depth: VARIES	Total Number of Samples: 19	Yes	No	Photo? (Circle One)	
Bucket Width: 4 ft.	Trench Length: 157 ft.	Trench Width: VARIABLE FROM 47-102 ft.	No. of Samples: 19	Drive: $\emptyset$	Hand Auger: $\emptyset$	To Man-Made Debris	
Geologist or Hydrogeologist/Date: N. Beatty 10/22/10 to 10/26/10		Checked/Date: [Signature] 3/3/11		Wall of Trench Shown (Circle One)		N S E W NE NW SE SW	



Plan View-Site Location (Provide Sketch)

SEE SHEET 1



- EXPLANATION**
- SOIL TYPE CONTACT (SHARP)
  - - - OTHER CONTACT (AS INDICATED ON LOG)
  - - - FILL/NATIVE BOUNDARY
  - X ANALYTICAL SAMPLE LOCATION (WRITE SAMPLE NUMBER OUT TO SIDE)
  - G GEOTECHNICAL SAMPLE LOCATION (WRITE SAMPLE NUMBER OUT TO SIDE)
  - /// SHADING TO DENOTE STAINING
  - //// BASE OF EXCAVATION
  - SHOW LOCATIONS AND TYPES OF ALL MAJOR DEBRIS

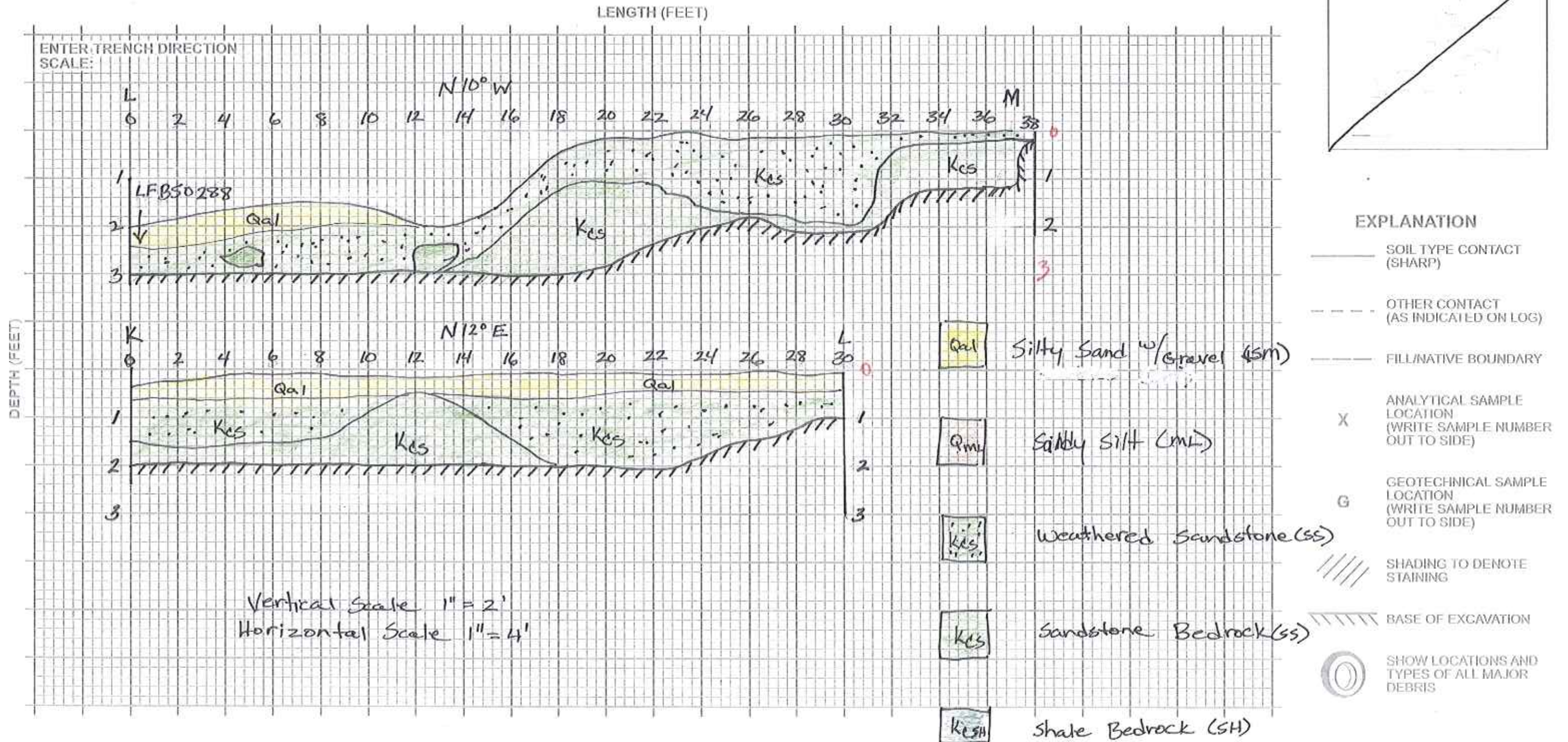


Project Name 2010 ISRA Implementation			FIELD TRENCH LOG			
Trench Number LFTS0199	Project Number 1008208.1163110	Elevation and Datum SURVEYED BY SAGE	Location CTL1-1A		Sheet 8 of 11	
Equipment Supplier MPC	Operator DAVID WILMER	Date and Time Started 10/22/10	Date and Time Completed 10/26/10		Refuse? (Circle One) <input checked="" type="radio"/> Yes <input type="radio"/> No	If Yes Depth - VARIES
Equipment Type EXCAVATOR, VACUUM TRUCK	Trench Orientation NE-SW	Total Depth VARIES	Total Number of Samples 19		Photo? (Circle One) <input checked="" type="radio"/> Yes <input type="radio"/> No	No.
Bucket Width 4 ft.	Trench Length 157 ft.	Trench Width VARIABLE FROM 47-102 ft.	No. of Samples	Bulk <input checked="" type="radio"/>	Grab 19	Drain <input checked="" type="radio"/>
Geologist or Hydrogeologist/Date N. Beatty 10/22/10 to 10/26/10		Checked by/Date [Signature] 10/26/10		Hand Auger <input checked="" type="radio"/>	% Man-Made Debris	
Well of Trench Shows (Circle One) <input type="radio"/> N <input type="radio"/> S <input type="radio"/> E <input type="radio"/> W <input type="radio"/> NE <input type="radio"/> NW <input type="radio"/> SE <input type="radio"/> SW						



Plan View-Site Location  
(Provide Sketch)

SEE SHEET 1

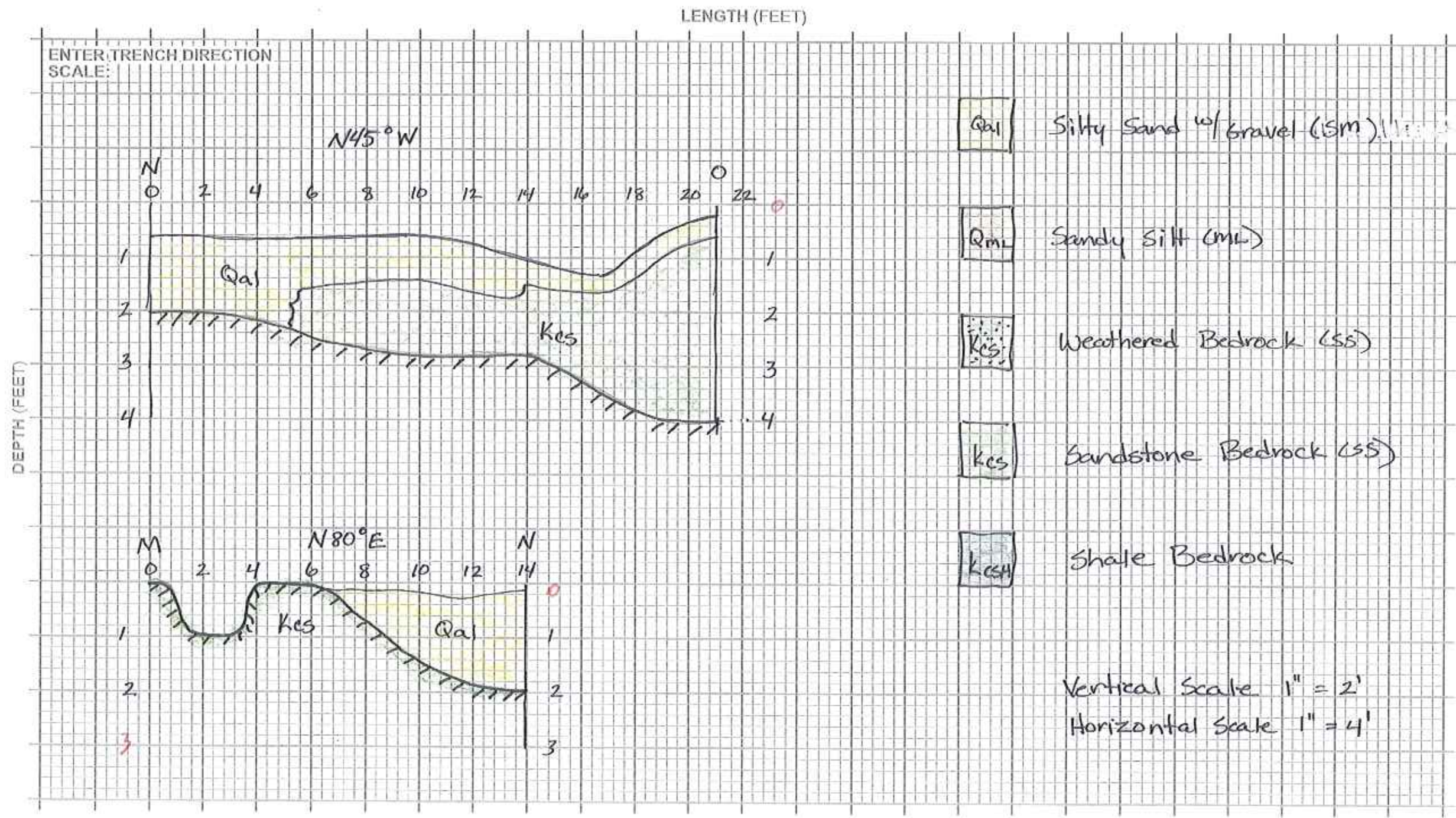


Project Name 2010 ISRA Implementation			FIELD TRENCH LOG			
Trench Number LFTS0199	Project Number 1008208.1163110	Elevation and Datum SURVEYED BY SAGE	Location CTLI-1A	Sheet 9 of 11		
Equipment Supplier MPC	Operator DAVID WILMER	Date and Time Started 10/22/10	Date and Time Completed 10/26/10	Refusal? (Circle One) <input checked="" type="radio"/> Yes <input type="radio"/> No	If Yes Depth = VARIES	
Equipment Type EXCAVATOR, VACUUM TRUCK	Trench Orientation NE-SW	Total Depth VARIES	Total Number of Samples 19	Photo? (Circle One) <input checked="" type="radio"/> Yes <input type="radio"/> No	Yes	
Bucket Width 4 ft.	Trench Length 157 ft.	Trench Width VARIABLE FROM 47-102 ft.	No. of Samples 19	Drive Ø	Hard Angle Ø	
Geologist or Hydrogeologist Date N. Beatty 10/22/10 to 10/26/10		Checked by [Signature] 10/26/10 3/3/11		% Man-Made Debris		
				Wall of Trench Shown (Circle One) N S E W NE NW SE SW		



Plan View-Site Location  
(Provide Sketch)

SEE SHEET 1



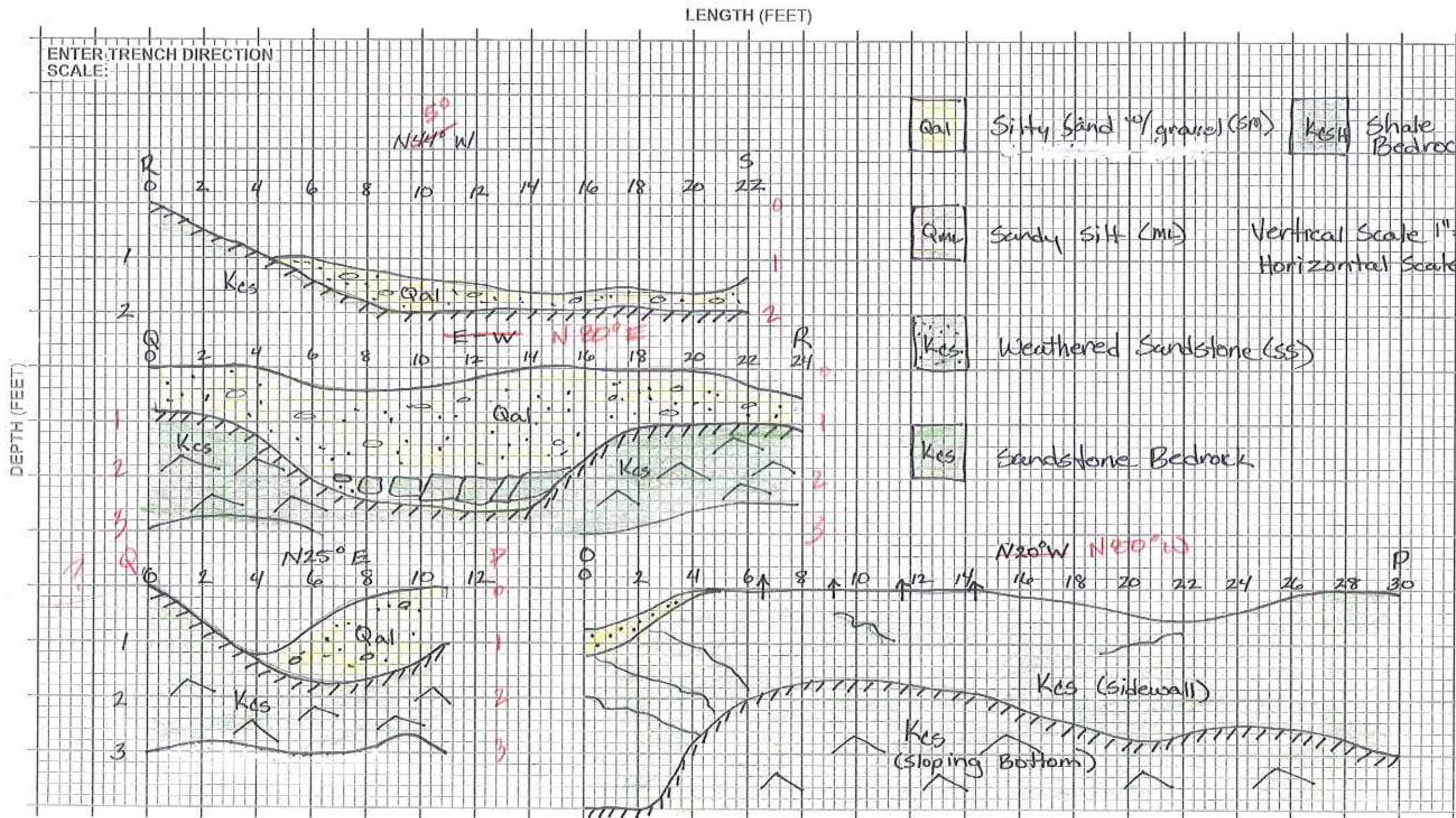
- EXPLANATION**
- SOIL TYPE CONTACT (SHARP)
  - - - - OTHER CONTACT (AS INDICATED ON LOG)
  - FILL/NATIVE BOUNDARY
  - X ANALYTICAL SAMPLE LOCATION (WRITE SAMPLE NUMBER OUT TO SIDE)
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  - //// SHADING TO DENOTE STAINING
  - ////// BASE OF EXCAVATION
  - SHOW LOCATIONS AND TYPES OF ALL MAJOR DEBRIS

Project Name 2010 ISRA Implementation			FIELD TRENCH LOG		
Trench Number LFTS 0199	Project Number 1008208.1163110	Elevation and Datum SURVEYED BY SAGE	Location CTL-1A	Sheet 10 of 11	
Equipment Supplier MPE	Operator DAVID WILMER	Date and Time Started 10/22/10	Date and Time Completed 10/26/10	Refused? (Circle One) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If Yes Depth = VARIES
Equipment Type EXCAVATOR, VACUUM TRUCK	Trench Orientation NE - SW	Total Depth VARIES	Total Number of Samples 19	Photo? (Circle One) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	No.
Bucket Width 4 ft.	Trench Length 157 ft.	Trench Width VARIABLE FROM 47-102 ft.	No. of Samples Bulk <input type="checkbox"/> Grab 19	Drive <input type="checkbox"/>	Hand Auger <input type="checkbox"/>
Geologist or Hydrogeologist/Date N. Beatty 10/22/10 to 10/26/10		Checked by/Date [Signature] Perceles 3/31/11		Wall of Trench Shown (Circle One) N S E W NE NW SE SW	



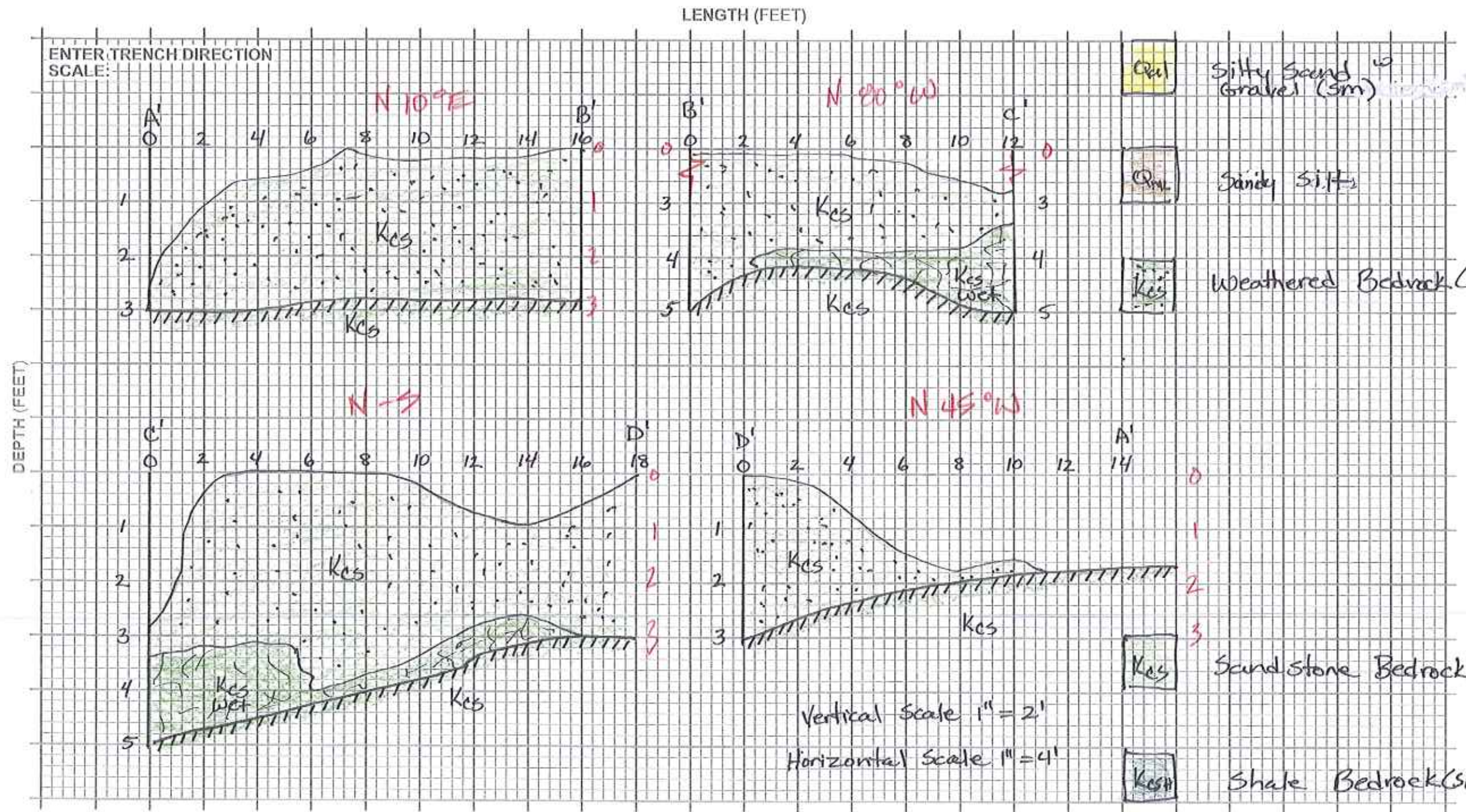
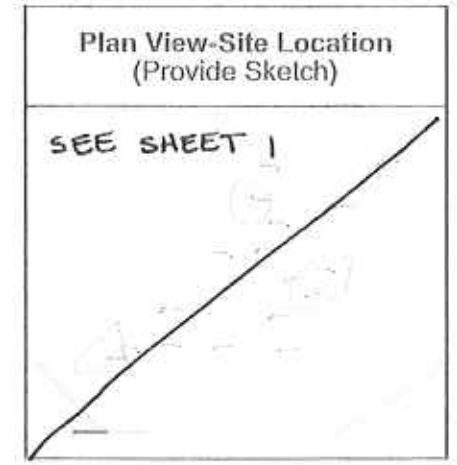
Plan View-Site Location  
(Provide Sketch)

SEE SHEET 1



- EXPLANATION**
- SOIL TYPE CONTACT (SHARP)
  - - - - OTHER CONTACT (AS INDICATED ON LOG)
  - FILL/NATIVE BOUNDARY
  - X ANALYTICAL SAMPLE LOCATION (WRITE SAMPLE NUMBER OUT TO SIDE)
  - G GEOTECHNICAL SAMPLE LOCATION (WRITE SAMPLE NUMBER OUT TO SIDE)
  - //// SHADING TO DENOTE STAINING
  - //// BASE OF EXCAVATION
  - SHOW LOCATIONS AND TYPES OF ALL MAJOR DEBRIS

Project Name: 2010 ISRA Implementation				FIELD TRENCH LOG			
Trench Number: LFTS0199		Project Number: 1008208.1163110		Elevation and Datum: SURVEYED BY SAGE		Location: CTLI-1A	
Equipment Supplier: MPE		Operator: DAVID WILMER		Date and Time Started: 10/22/10		Date and Time Completed: 10/26/10	
Equipment Type: EXCAVATOR, VACUUM TRUCK		Trench Orientation: NE-SW		Total Depth: VARIES		Total Number of Samples: 19	
Bucket Width: 4 ft.	Trench Length: 157 ft.	Trench Wall: VARIABLE FROM 47-102 ft.		No. of Samples: 19	Bulk: $\emptyset$	Grab: 19	Drive: $\emptyset$
Geologist or Hydrogeologist/Date: N. Beaty 10/22/10 to 10/26/10				Checked by/Date: [Signature] Photos 3/31/11			
Refused? (Circle One): Yes <input checked="" type="radio"/> No <input type="radio"/>						If Yes Depth: VARIES	
Photo? (Circle One): Yes <input checked="" type="radio"/> No <input type="radio"/>						% Man-Made Debris: <input type="checkbox"/>	
Wall of Trench Shown (Circle One): N <input type="checkbox"/> S <input type="checkbox"/> E <input type="checkbox"/> W <input type="checkbox"/> NE <input type="checkbox"/> NW <input type="checkbox"/> SE <input type="checkbox"/> SW <input type="checkbox"/>							



- EXPLANATION
- SOIL TYPE CONTACT (SHARP)
  - OTHER CONTACT (AS INDICATED ON LOG)
  - FILL/NATIVE BOUNDARY
  - ANALYTICAL SAMPLE LOCATION (WRITE SAMPLE NUMBER OUT TO SIDE)
  - GEOTECHNICAL SAMPLE LOCATION (WRITE SAMPLE NUMBER OUT TO SIDE)
  - SHADING TO DENOTE STAINING
  - BASE OF EXCAVATION
  - SHOW LOCATIONS AND TYPES OF ALL MAJOR DEBRIS