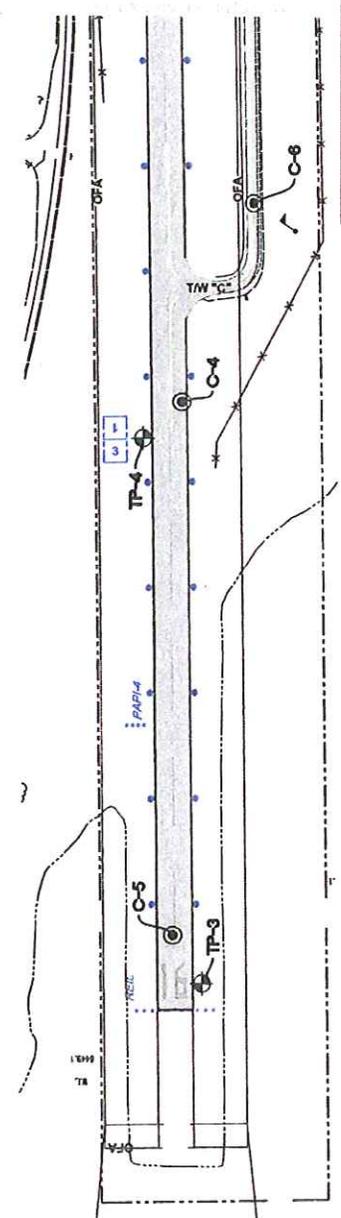
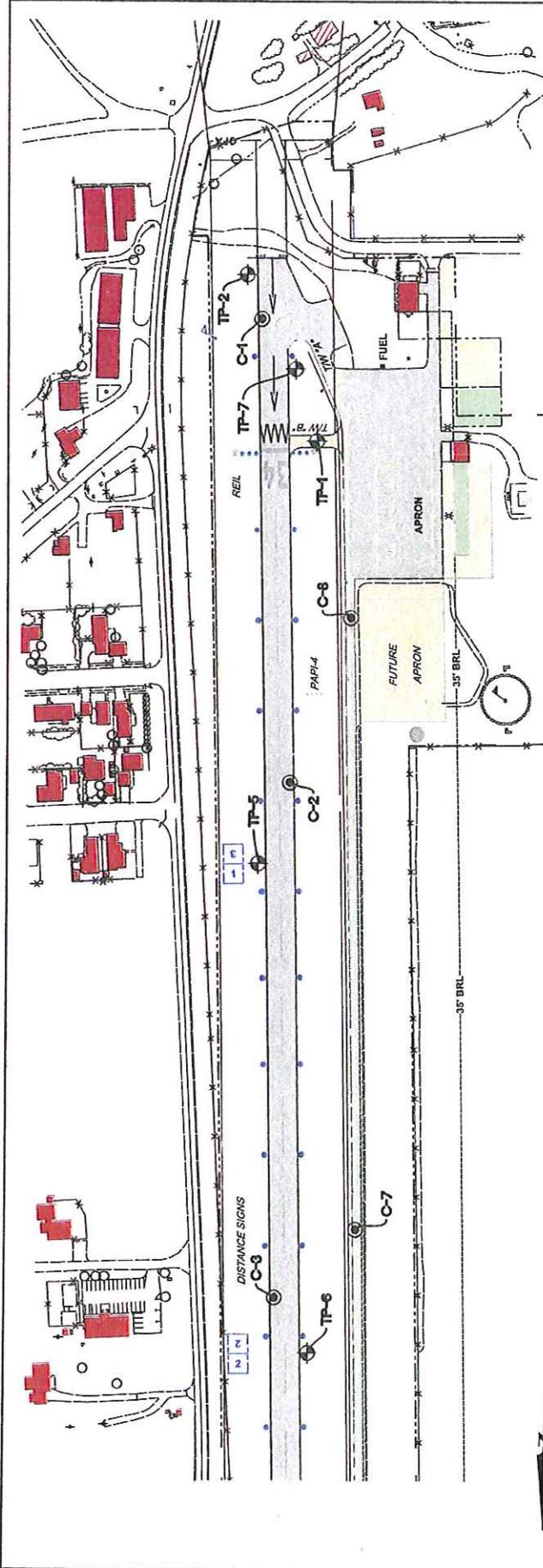


**Appendix A
Geotechnical Investigation**

A geotechnical study was conducted by Eastern Sierra Engineering in 2010 for the development of Bryant Field. These studies consisted of drilling a series of exploratory test pits, obtaining undisturbed soil samples and bulk soil samples from these test pits, and conducting a series of laboratory tests on the samples obtained. The data obtained from these test pits are valuable and have been used in the design of the Runway 16-34 and Taxiway A reconstruction and the Taxiway B connector construction. The results of these studies have been summarized in this Appendix, as follows:

Figures

Figure No. 1	Site Plan – Geotechnical Investigation
Figure No. 2	Test Pit Log – TP-1
Figure No. 2	Test Pit Log – TP-2
Figure No. 2	Test Pit Log – TP-3
Figure No. 2	Test Pit Log – TP-4
Figure No. 2	Test Pit Log – TP-5
Figure No. 2	Test Pit Log – TP-6
Figure No. 2	Test Pit Log – TP-7



- LEGEND:**
- ⊙ C-X APPROXIMATE CORE LOCATION
 - ⊗ TP-X APPROXIMATE TEST PIT LOCATION

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	NO.	DATE	DESCRIPTION					

TEST PIT LOG

TEST PIT NO: TP-1
 TYPE OF BORING: HAND
 LOGGED BY: MIKE PHELPS

DATE: 6-27-09
 DEPTH TO GROUND WATER (ft): N/A
 GROUND ELEVATION (ft): _____

LOCATION: FUTURE TAXIWAY B GRASS SURFACE
 ~30' FROM EDGE OF EX TAXIWAY.

LIQUID LIMIT (%)	PLASTICITY INDEX	R-VALUE	% PASSING #200 SIEVE	MOISTURE (%)	BLOWS/FT.	SAMPLE	DEPTH (FT)	USCS SYMBOL	LITHOLOGY
30	4	31	73.1	21.4	1	X	1	ML	 <p>LIGHT BROWN SILT W/SAND (ML); dense, dry, roots to 4", becoming moist @ 8" , gravel dia ≤ 6"</p>
					2	X	2		
					3	X	3		 <p>BROWN SANDY SILTY CLAY; soft to firm, moist, becoming wet at 40".</p>
					4	X	4		<p>Test Pit terminated at 44 inches. No free groundwater encountered at time of excavation</p>
					5	X	5		
					6	X	6		



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**BORING LOG
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**FIGURE
 2**

DRAWN BY	JOB NUMBER	APPROVED	DATE	REVISED	DATE
MPP	029.08	SWJ	7-17-09		

TEST PIT LOG

TEST PIT NO: TP-2
 TYPE OF BORING: HAND
 LOGGED BY: MIKE PHELPS

DATE: 6-27-09
 DEPTH TO GROUND WATER (ft): N/A
 GROUND ELEVATION (ft):

LIQUID LIMIT (%)	PLASTICITY INDEX	R-VALUE	% PASSING #200 SIEVE	MOISTURE (%)	BLOWS/Ft.	SAMPLE	DEPTH (FT)	USCS SYMBOL	LITHOLOGY	
							1			BROWN SANDY SILT W/GRAVEL; soft, dry, gravel dia \leq 3"
						X	2	SM		BROWN SILTY SAND (SM); loose to medium dense, moist.
							3			
							4			Test Pit terminated at 40 inches. No free groundwater encountered at time of excavation
							5			
							6			



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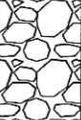
DRAWN BY	JOB NUMBER	APPROVED	DATE	REVISED	DATE
MPP	029.08	SWJ	7-17-09		

**FIGURE
3**

TEST PIT LOG

TEST PIT NO: TP-3
 TYPE OF BORING: HAND
 LOGGED BY: MIKE PHELPS

DATE: 6-27-09
 DEPTH TO GROUND WATER (ft): N/A
 GROUND ELEVATION (ft): _____

LIQUID LIMIT (%)	PLASTICITY INDEX	R-VALUE	% PASSING #200 SIEVE	MOISTURE (%)	BLOWS/FT.	SAMPLE	DEPTH (FT)	USCS SYMBOL	LITHOLOGY
-	NP	37	20.7			X	1	SM	
							2		<p>MED BROWN SILTY SAND/W GRAVEL (SM); medium dense to dense, moist to wet, some debris (AC Fill) gravel dia ≤ 6" dense, moist to wet.</p>
							3		<p>Test Pit terminated at 26 inches. No free groundwater encountered at time of excavation</p>
							4		
							5		
							6		



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MPP	029.08	SWJ	7-17-09		

FIGURE

4

TEST PIT LOG

TEST PIT NO: TP-4
 TYPE OF BORING: HAND
 LOGGED BY: MIKE PHELPS

DATE: 6-27-09
 DEPTH TO GROUND WATER (ft): N/A
 GROUND ELEVATION (ft): _____

LIQUID LIMIT (%)	PLASTICITY INDEX	R-VALUE	% PASSING #200 SIEVE	MOISTURE (%)	BLOWS/FT.	SAMPLE	DEPTH (FT)	USCS SYMBOL	LITHOLOGY	
25	7	14	24.2			X	1			BROWN DG GRAVEL W/SAND & SILT; loose, dry fill.
						X	2	SC-SM		BROWN SILTY, CLAYEY SAND W/GRAVEL (SC-SM); medium dense to dense, moist, gravel dia ≤6" (Fill)
							3			Test Pit terminated at 26 inches. No free groundwater encountered at time of excavation
							4			
							5			
							6			



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FIGURE
5

DRAWN BY	JOB NUMBER	APPROVED	DATE	REVISED	DATE
MPP	029.08	SWJ	7-17-09		

TEST PIT LOG

TEST PIT NO: TP-5
 TYPE OF BORING: HAND AUGER
 LOGGED BY: MIKE PHELPS

DATE: 6-27-09
 DEPTH TO GROUND WATER (ft): N/A
 GROUND ELEVATION (ft): _____

LIQUID LIMIT (%)	PLASTICITY INDEX	R-VALUE	% PASSING #200 SIEVE	MOISTURE (%)	BLOWS/FT.	SAMPLE	DEPTH (FT)	USCS SYMBOL	LITHOLOGY
24	4	41	42.1			1	1	SM	 BROWN DG GRAVEL W/SAND & SILT; loose, dry, gravel dia < 3" (Fill)
						2	2		 BROWN SILTY SAND (SM); medium dense to dense, moist.
						3	3		
						4	4		Test Pit terminated at 40 inches. No free groundwater encountered at time of excavation
						5	5		
						6	6		



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MPP	029.08	SWJ	7-17-09		

FIGURE
6

TEST PIT LOG

TEST PIT NO: TP-6
 TYPE OF BORING: HAND
 LOGGED BY: MIKE PHELPS

DATE: 6-27-09
 DEPTH TO GROUND WATER (ft): N/A
 GROUND ELEVATION (ft): _____

LIQUID LIMIT (%)	PLASTICITY INDEX	R-VALUE	% PASSING #200 SIEVE	MOISTURE (%)	BLOWS/FT.	SAMPLE	DEPTH (FT)	USCS SYMBOL	LITHOLOGY
-	NP	21	18.4	9.7		X	1		
						X	2	SM	
							3		Test Pit terminated at 26 inches. No free groundwater encountered at time of excavation
							4		
							5		
							6		

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MPP	029.08	SWJ	7-17-09		

FIGURE
7

TEST PIT LOG

TEST PIT NO: TP-7
 TYPE OF BORING: HAND
 LOGGED BY: MIKE PHELPS

DATE: 6-27-09
 DEPTH TO GROUND WATER (ft): N/A
 GROUND ELEVATION (ft): _____

LIQUID LIMIT (%)	PLASTICITY INDEX	R-VALUE	% PASSING #200 SIEVE	MOISTURE (%)	BLOWS/FT.	SAMPLE	DEPTH (FT)	USCS SYMBOL	LITHOLOGY	
-	NP	-	25.9	-		X	1			GRAY/BROWN DG SAND W/SILT & GRAVEL; loose, dry, gravel dia \leq 1.5". (Fill)
							2	SM		DARK BROWN / BLACK SILTY SAND W/GRAVEL (SM); mediumdense to dense, moist, gravel dia \leq 1" Fill
							3			DARK BROWN / BLACK DG SAND W/GRAVEL; mediumdense to dense, moist Fill
							4			Test Pit terminated at 30 inches. No free groundwater encountered at time of excavation
							5			
							6			



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FIGURE
8

DRAWN BY	JOB NUMBER	APPROVED	DATE	REVISED	DATE
MPP	029.08	SWJ	7-17-09		