AMARILLO BEACH

Notes Ck'd by	Survey of LANDSLIDE	F. B. 3286 Pg. 5
	JN0021.81 Tape 201 Std 84 °F	
	Surveyed by C. K. LIND	
	Notes R. DOVER Date 7-15-66	
	Indexed C. J. GALLI AUG 1 6 66	

JN. 0021.81

AMARILLO BEACH LANDSLIDE AREA

HORIZONTAL CONTROL

"A" & "B" LINES

CONT. FROM F. B. 2894 - 31 TO 86 INCL.

7-15-66

LIND
DOVER
DUERBECK
ALMANZAN
PETERSON

Not microfilmed.

"A" LINE

DATE JULY 19, 1966

F.B. 3286 PG. 6

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT	OFFSET L/R	NOTES
A-12	A-1		0+00.00	0.00		SEE F.B. 2341-15 THRU 25 (STAKING) FOR CONTROL & F.B. 2894-31 THRU 70 FOR HORIZONTAL MOVEMENT STUDY
		A-11	0+62.26	0.10	L	T= 78° 62.26 LEV. = 62.26
		A-10B (AUX 1)	1+47.10 84.84	4.00	L	T= 78° 84.84 LEV. = 84.84
		A-10A (AUX 2)	2+68.33 121.23	2.96	L	T= 78° 121.23 LEV. = 121.23
		A-10	4+09.26 140.93	0.89	L	T= 80° 140.93 LEV = 140.93
		A-9	5+61.97	0.65	L	T= 72° 152.72 LEV = 152.71
		A-8	8+65.57	0.99	L	T= 72° 303.62 LEV = 303.60
		A-7	11+47.75	1.04	L	T= 68° 282.21 LEV = 282.18
		A-6A	12+71.03	0.58	L	T=68° 123.29 LEV = 123.28
		A-6	14+32.86	0.38	L	T=70° 161.84 LEV = 161.83
		A-5	16+71.20	0.70	L	T=74° 238.36 LEV. = 238.34
		A-4A	17+42.27	0.74	L	T=74° 71.07 LEV. = 71.07
		A-4	18+25.07	0.07	R	T=74° 82.81 LEV = 82.80
		A-3	22+06.69	0.05	R	T=72° 381.65 LEV = 381.62
		A-2A	24+11.00	2.21	L	T=72° 204.33 LEV = 204.31
		A-2	25+53.75	0.00		T=72° 142.76 LEV = 142.75
		A-1	26+31.42	0.00		T=72° 77.68 LEV = 77.67

Do not extend this side of this line.

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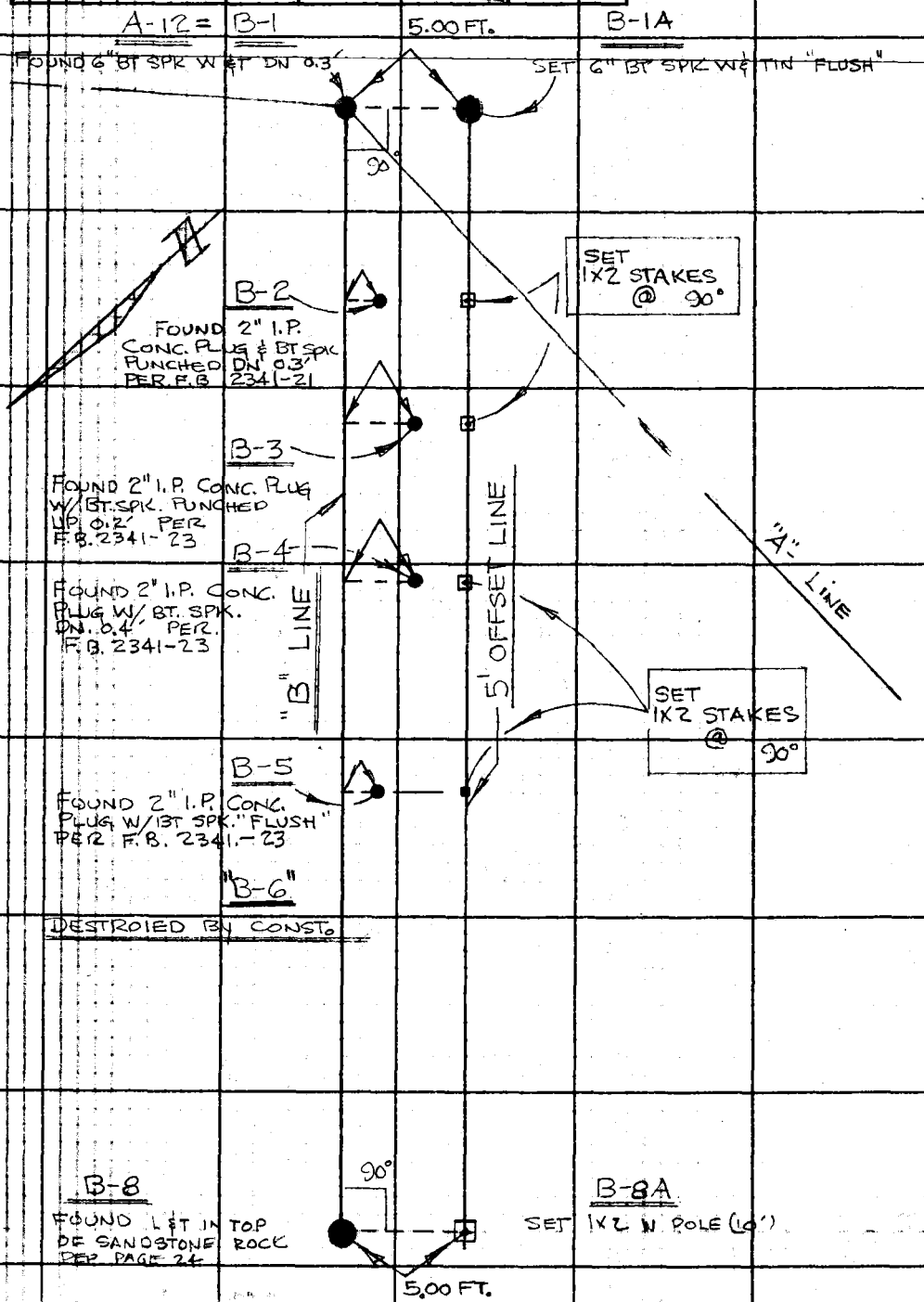
AMARILLO BEACH

Notes Ck'd by	Survey of LANDSLIDE AREA	F. B. 3286 PG. 7
Map No.	JN 00218 Tape 201 Std 84 °F	
Office Work	Surveyed by LIND	
Checked	Notes DOVER Date 7-20-66	
Date	Indexed C. J. GALLI	



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76F309S CE # 310 3-61

F. B. 3286 Pg. 8

"B"-LINE — DATE JULY 20, 1966

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT	OFFSET L/R		NOTES	
B-1 = A-12	B-8		0+00.00	0.00		SEE F.B 2341- — F.B. 2894-71 TO 86 FOR MOVEMENT STUDY	(STAKING) CONTROL HORIZONTAL	
		B-2	0+97.56	0.25	L	66° 97.57	LEVEL	= 97.56 ✓
		B-3	1+61.35	1.16	L	66° 63.80	LEVEL	= 63.79 ✓
		B-4	2+38.46	1.43	L	66° 77.12	LEVEL	= 77.11 ✓
		B-5	3+20.19	0.42	L	66° 81.74	LEVEL	= 81.73 ✓

NOTE: ALL OFFSETS CALC. FROM 50 FT. OFFSET LINE

NOTE: CHAINING ON 50 FT OFFSET LINE 90° TURNED TO POINTS TO CHECK PLUSS

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76F3098 CE # 310 3-61

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"A" LINE — DATE 1-4-67

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT.	OFFSET L/R.	NOTES	
A-12	A-1		0+00.00	0.00		F.B. 2341 15 THRU 25	
						T=68	62.28 LEV = 62.27
		A-11	0+62.27	0.11	L.		
						T=68	84.75 LEV = 84.76
		A-10 B AUX 1	1+47.01	4.06	L.		
						T=64	121.28 LEV = 121.26
		A-10 A AUX 2	2+68.27	3.06	L.		
						T 64	140.92 LEV = 140.90
		A-10	4+09.17	0.91	L.		
						T 64°	152.77 LEV = 152.75
		A-9	5+61.92	0.66	L.		
						T 64°	223.49 LEV = 223.45
		A-8	8+65.37	1.02	L.		
						T=64°	282.20 LEV = 282.16
		A-7	11+47.53	1.06	L.		
						T=64°	123.31 LEV = 123.29
		A-6A	12+70.82	0.58	L.		
						T=64°	161.84 LEV = 161.82
		A-6	14+32.64	0.40	L.		
						T=64°	238.38 LEV = 238.36
		A-5	16+70.99	0.74	L.		
						T=64	71.06 LEV = 71.05
		A-4A	17+42.04	0.77	L.		

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of ENGINEERING
JN 0021.01 Tape LAT Std. 64 °F
Surveyed by LND
Notes
Indexed G. J. GALL JAN 19 67 Date 1-4-67

ENGINEERING BEGINS

F. B. 3286 PG. 9

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"A" - LINE

1-4-67

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT	OFFSET L/R	NOTES
A-12	A-1	A-4	18+24.84	0.07	R.	T=64 82.81 LEV = 82.80 ✓
		A-3	22+06.47	0.06	R.	T=64 331.63 LEV = 331.63 ✓
		A-2A	24+10.78	2.21	L.	T=64 204.34 LEV = 204.31 ✓
		A-2	25+53.54	0.00		T=64 142.75 LEV = 142.76 ✓
		A-1	26+31.22	0.00		T=64 77.69 LEV = 77.68 ✓

F.B. 3786 PG. 10

76F309S CE # 310 3-61

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"B" LINE 1-4-67

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT	OFFSET L./R.	NOTES
B-1	B-8		0+00.00	0.00		REF. F.B. 2341
						T= 58 95.59 @ 11° 47= 93.56
		POT	0+93.56 4.08	0.00		T= 58 4.08 LEV = 4.08
		B-2	0+97.64 63.71	0.23	L	
		B-3	1+61.35 0.02	1.15	L	T= 58 0.02 LEV = -0.02
		POT	1+61.37 76.06	0.00		T= 58 67.82 LEV = 67.81
		POT	2+37.43 1.07	0.00		T= 60 76.07 LEV = 76.06
		B-4	2+38.50 81.48	1.44	L.	T= 60 1.07 LEV = 1.07
		POT	3+19.98 0.39	0.00		T= 60 83.02 @ 6°04' = 82.55
		B-5	3+20.37	0.39	L.	T= 60 0.39 LEV = 0.39

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of AMARILLO BEACH
JN 0021.01 Tape 184 Std 84 °F
Surveyed by LIND
Notes LIND Date 1-4-67
Indexed C. J. GALLI

F.B. 3286 PG. 11

Notes Ck'd by	Survey of AMARILLO BEACH	F. B. 3286 PG. 13
Map No.	JN 0021.81 Tape 76 Std 82 °F	
Office Work	Surveyed by LIND	
Checked	Notes LIND Date 3-13-67	
Date	Indexed G. J. GALLI MR 17 '67	

J.N. 0021.81

AMARILLO BEACH LAND SLIDE

MOVEMENT STUDY

TRANSIT LINE TIE

BETWEEN

AMARILLO BEACH LAND MOVEMENT STUDY

AND

PUERCO CANYON LAND MOVEMENT STUDY

3-13-67

LIND
JONES
EWAHN
BARNETT

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76F3095 CE # 310 3-61

F. B. 3286 PG. 14

INDEX

MALIBU CANYON ROAD

PACIFIC COAST HWY

W. MALIBU ROAD

AMARILLO BEACH

PUERCO BEACH

PUERCO CYN. ROAD

(13)

(14)

(17)

(18)

(19)

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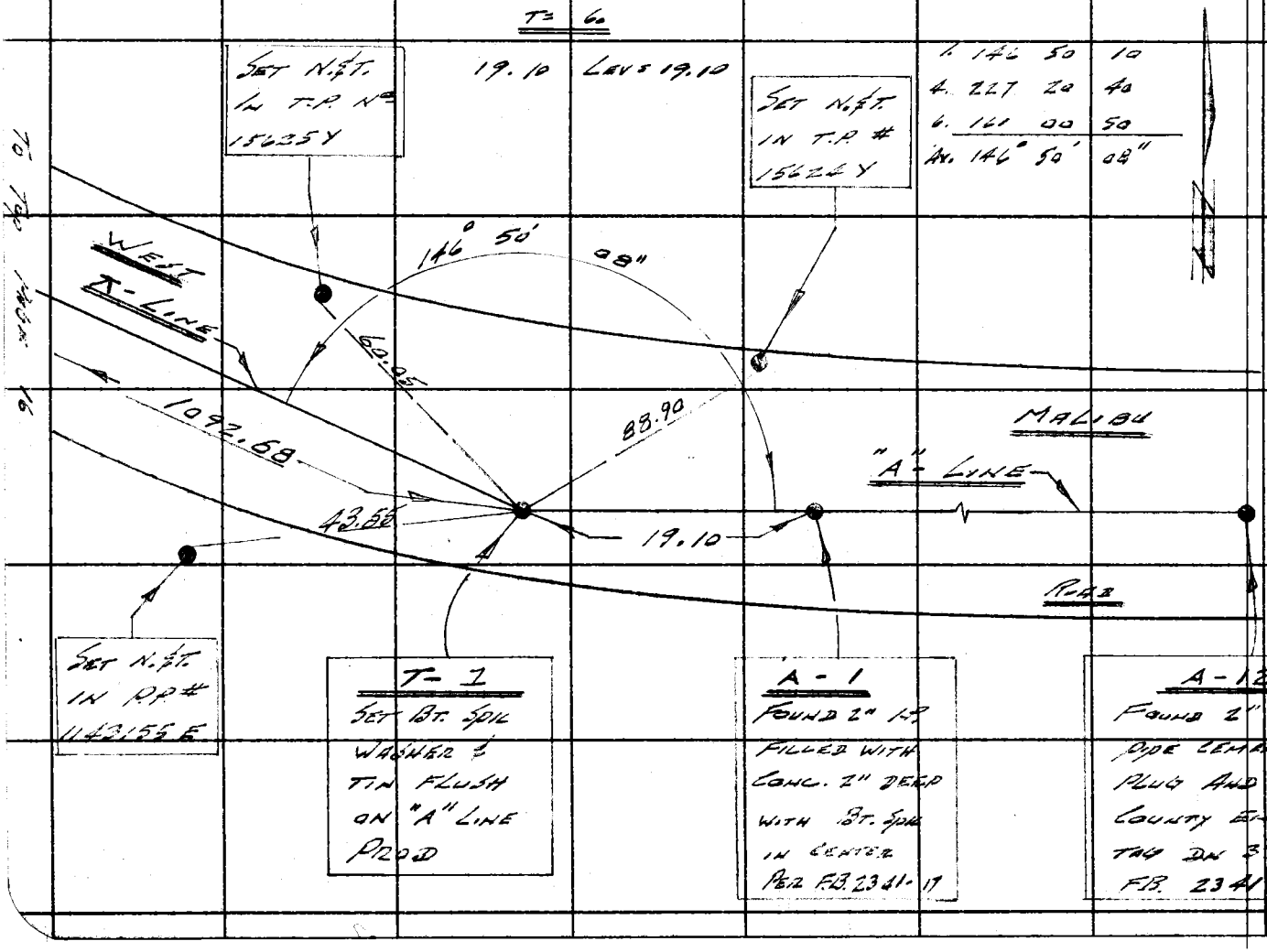

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of Ayrhardo Beach
JN 00211 Tape 76 Std 24 °F
Surveyed by Lind
Notes Lind Date 3-12-67
Indexed G. J. GALLI

F. B. 3786 PG. 15

F. B. 3286 PG. 16

To Bott Page 15

1.	178° 07' 10"
2.	352 29 00
3.	348 49 20
Av =	178° 07' 13"

To TOP Page 17

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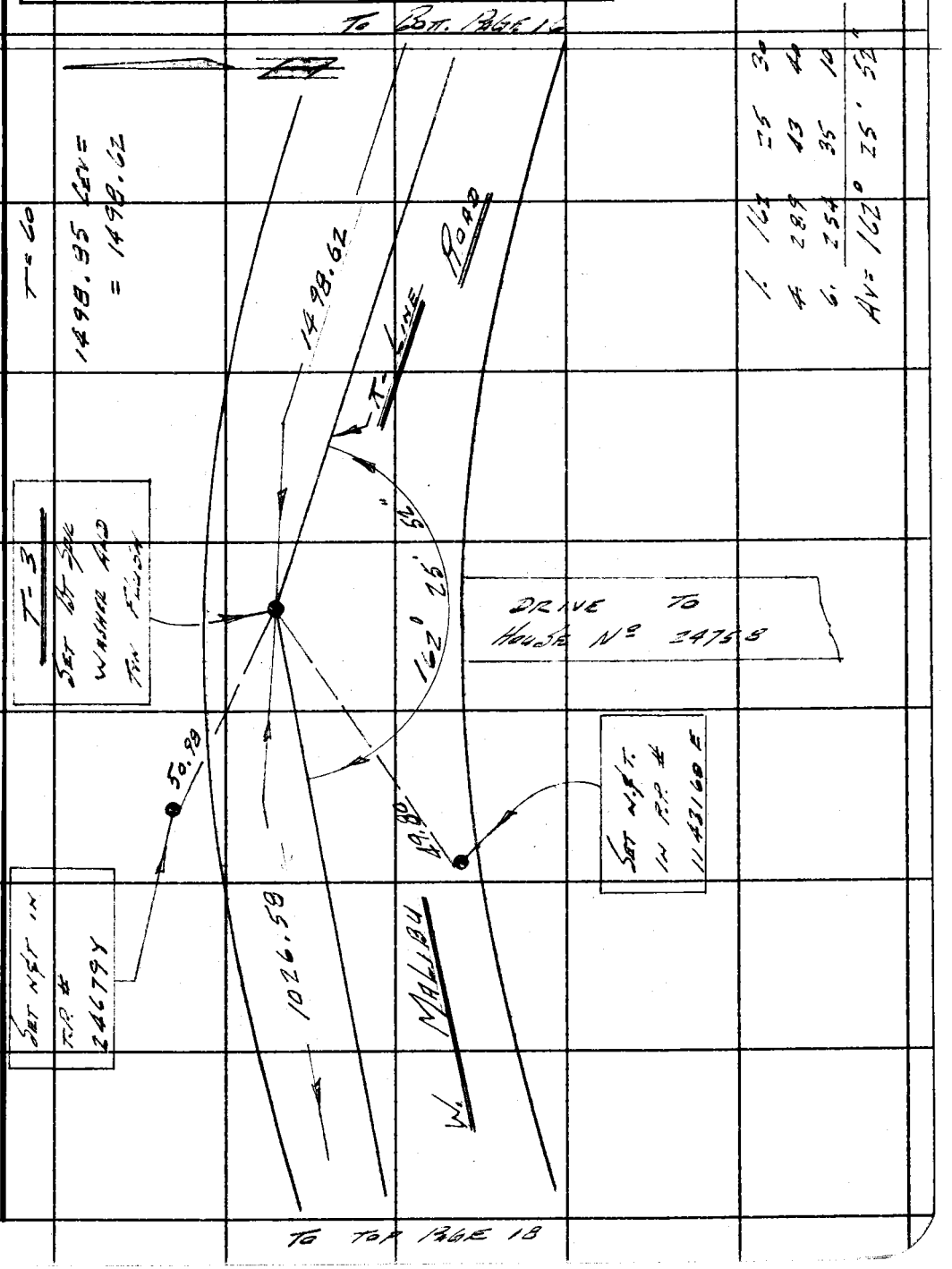
Notes Ck'd by	Survey of Amarillo Beach	F. B. 3286 PG. 17
Map No.	JN 0021.81 Tape 76 Std 34 °F	
Office Work	Surveyed by LND	
Checked	Notes LND Date 3-13-67	
Date	Indexed C. J. GALLI	



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76F3095 CE # 310 3-61

F. B. 3286 PG. 18

To Bott Page 17

To Top Page 19

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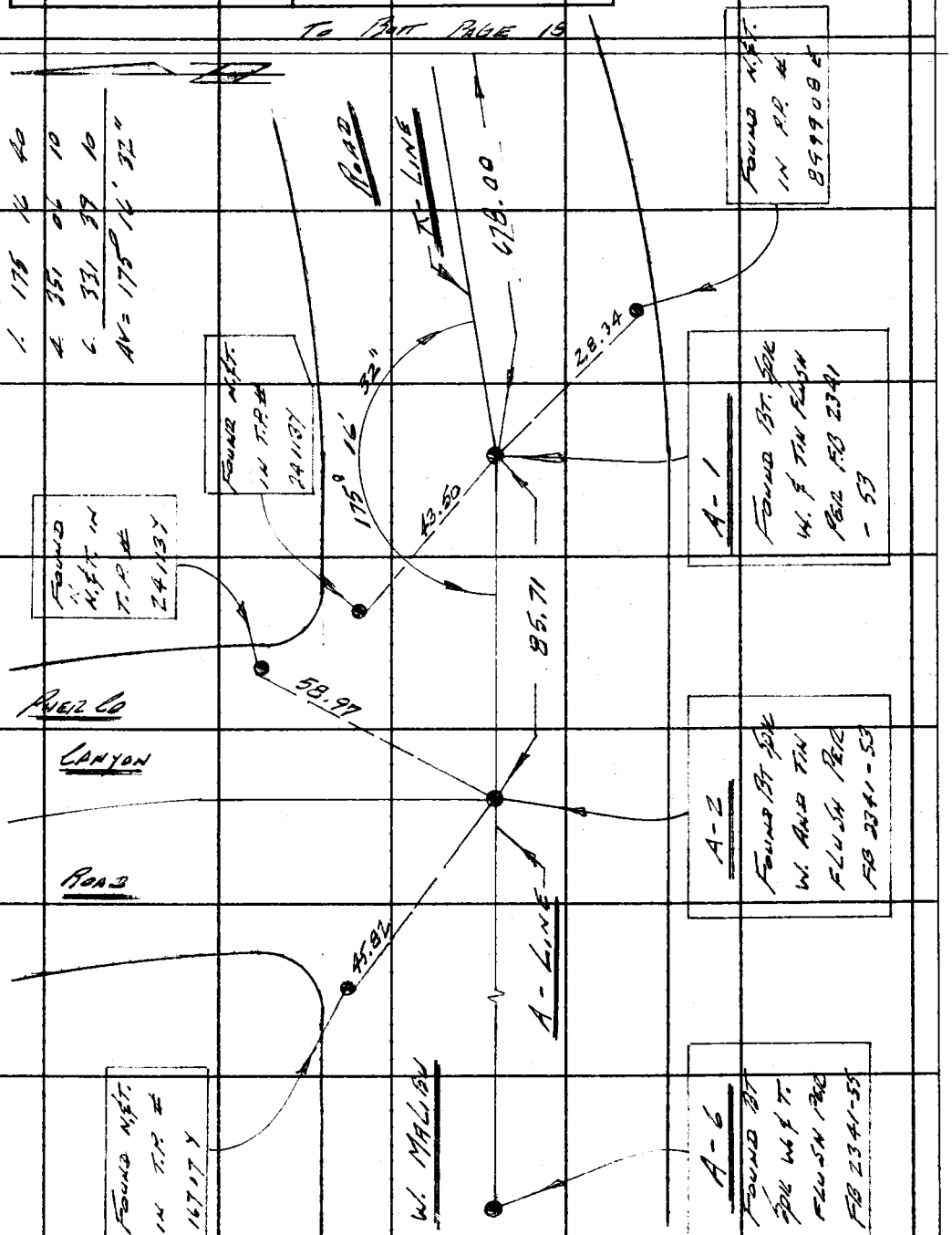
Notes Ck'd by	Survey of Amarillo Beach	F. B. 3286 PG. 19
Map No.	JN 0021.82 Tape 76 Std 84 °F	
Office Work	Surveyed by Lind	
Checked	Notes Lind Date 3-12-67	
Date	Indexed G. J. GALLI	

To Bott Page 19



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76F309S CE # 310 3-61

Notes Ck'd by	Survey of Amarillo Beach Landslide
Map No.	JN 0021.81 Tape 196 Std 34 °F
Office Work	Surveyed by Lind
Checked	Notes Lind Date 8-1-67
Date	Indexed C. J. GALLI AUG 10 '67

F. B. 3286 PG. 21

J.N. 0021.81

AMARILLO BEACH LANDSLIDE

HORIZONTAL MOVEMENT STUDY

8-1-67

LIND

McCALL
SWANN
WISDOM

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"A" LINE 8-1-67

ON LINE FROM	TO	SIGHT OR STATION	PLUSS	OFFSET AMT.	L/R	NOTES
A-12	A-1		0+00.00	0.00		REF. F.B. 2341 15-25
		A-11	0+62.25	0.22	L.	T=78 62.25 LEV = 62.25
		A10 B Ray 2	1+46.97	4.22	L.	T=78 84.72 LEV = 84.72
		A10A Ray 2	2+69.21	3.26	L.	T=78 121.24 LEV = 121.24
		A-10	4+09.09	1.00	L.	T=78 140.89 LEV = 140.88
		A-9	5+61.80	0.76	L.	T=78 152.72 LEV = 152.71
		A-8	8+65.25	1.14	L.	T=78 303.46 LEV = 303.45
		A-7	11+47.45	1.18	L.	T=78 282.21 LEV = 282.20
		A-6A	12+70.69	0.69	L.	T=78 123.24 LEV = 123.24
		A-6	14+32.50	0.48	L.	T=78 161.82 LEV = 161.81
		A-5	16+70.81	0.82	L	T=78 238.32 LEV = 238.31

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A LINE CONT. 8-1-67

ON FROM	LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT	L/R		NOTES	
A-12	A-1							
		A-4-A	17+41.86	0.86	L.	T=78	71.05 LEV	= 71.05 ✓
		A-4	18+24.66	0.05	R	T=78	82.80 LEV	= 82.80 ✓
		A-3	22+06.22	0.06	R.	T=78	381.57 LEV	= 381.56 ✓
		A-2A	24+10.52	2.27	L.	T=78	204.31 LEV	= 204.30 ✓
		A-2	25+53.29	0.00		T=78	142.78 LEV	= 142.77
		A-1	26+30.96	0.00		T=78	77.67 LEV	= 77.67

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of AMARILLO SEASON
JN 4021.01 Tape 1.46 Std 24 °F
Surveyed by LIND
Notes Date 8-1-67
Indexed C. J. GALLI

F. B. 3786 PG. 23

"B" LINE 8-2-67

On Line From	To	Sight on Station	Plus	Offset Amt	L./R.	Notes	
B-1	B-8		0+00.00	0.00			
		P.O.T.	0+93.55	0.00		T=72 =	96.00 @ 12° 57' = 93.55
		B-2	0+97.57	0.25	L.	T=72 =	4.02 LEV = 4.02 AHEAD
		B-3	63.78 1+61.35	1.17	L.	T=72 =	67.81 LEV = 67.80
		P.O.T.	76.00 2+37.35	0.00		T=72 =	76.08 @ 2° 30' = 76.00
		B-4	1.06 2+38.41	1.35	L.	T=72 =	1.06 LEV = 1.06
		B-5	81.77 3+20.18	0.40	L.	T=72 =	8.45 LEV = 8.45 BACK
		P.O.T.	3+28.63	0.00		T=72 =	91.58 @ 4° 32' = 91.28

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Notes Ck'd by	Survey of AMARILLO BEACH	F. B. 3286 PG. 25
Map No.	JN 0021.81 Tape 100 Std. 68 °F	
Office Work	Surveyed by LWS	
Checked	Notes LWS Date 8-29-67	
Date	Indexed H. E. OTT	

J.N. 0021.81

AMARILLO BEACH LANDSLIDE

RE-RUN OF TRANSIT LINE

FROM

T-1 TO T-4

8-29-67

REF: FB 3286
PAGES 13-19

LWS
STRADER
WALKER
FISHER

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16F309S CE#310 1-65

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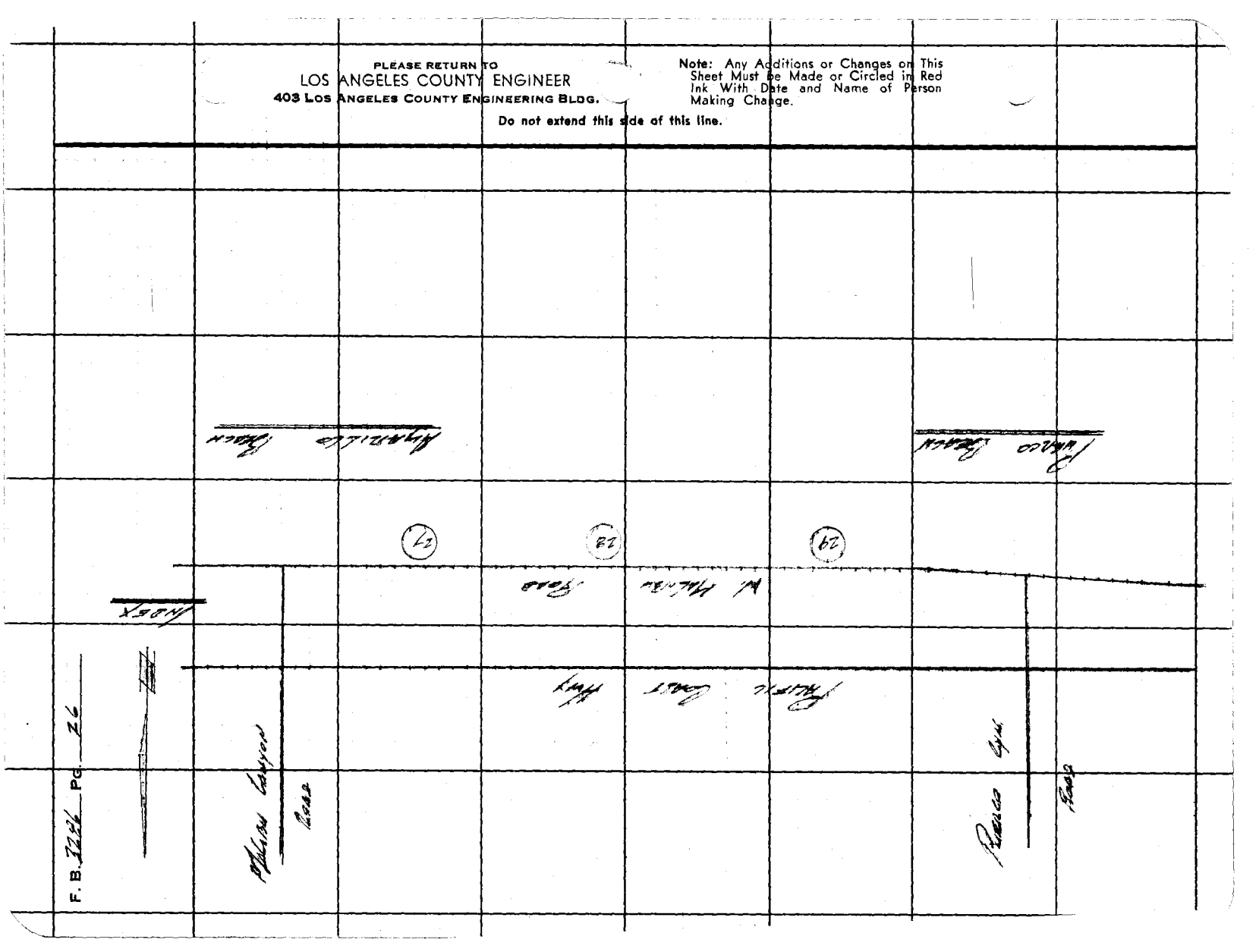
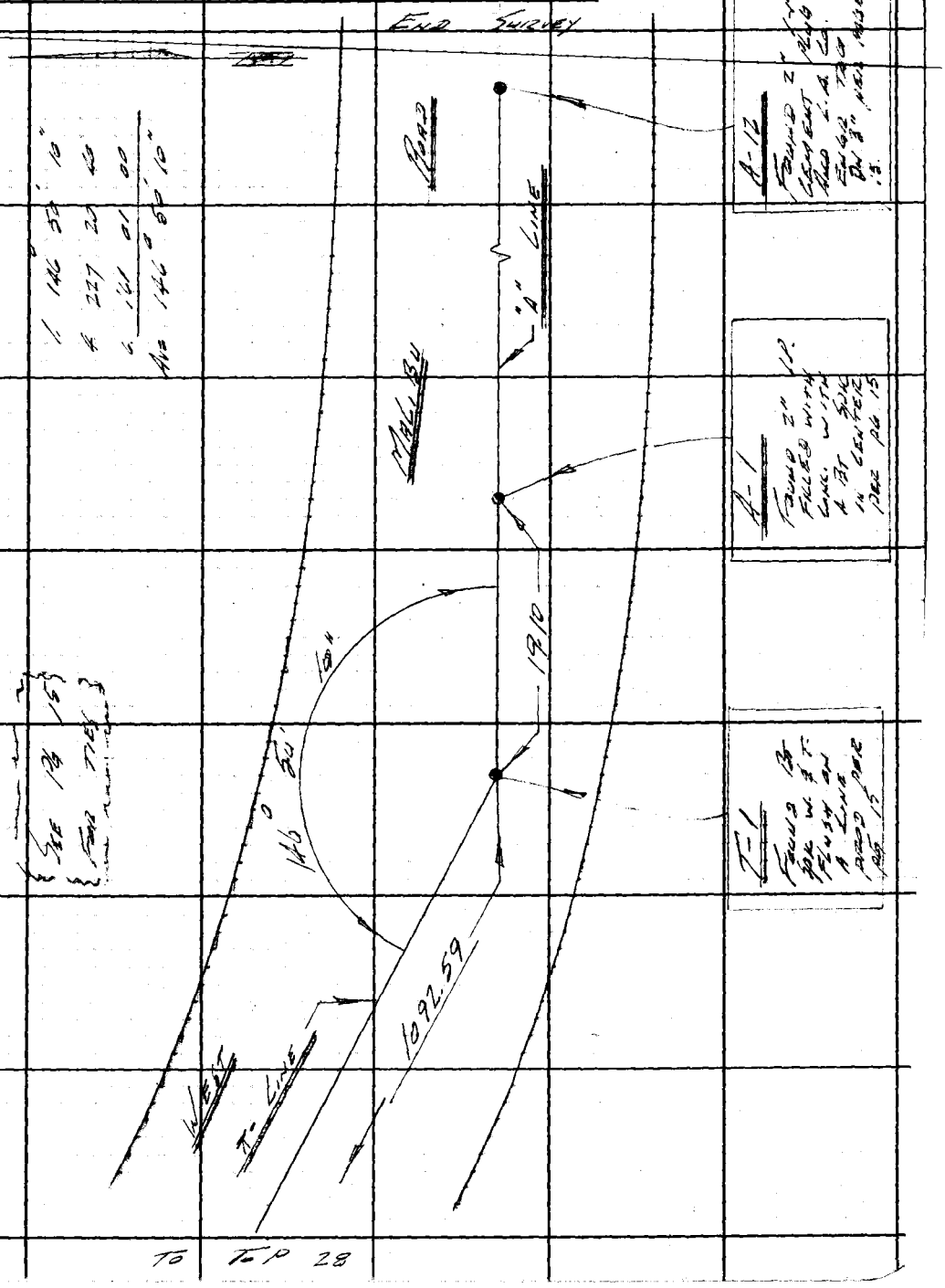


Notes Ck'd by	Survey of Amarillo Beach	F. B. 3286 PG. 27
Map No.	JN 0021.81 Tape 196 Std. 94 °F	
Office Work	Surveyed by Lind	
Checked	Notes Lind Date 8-29-69	
Date	Indexed H. E. OTT	



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26F309S CE#310 1-65

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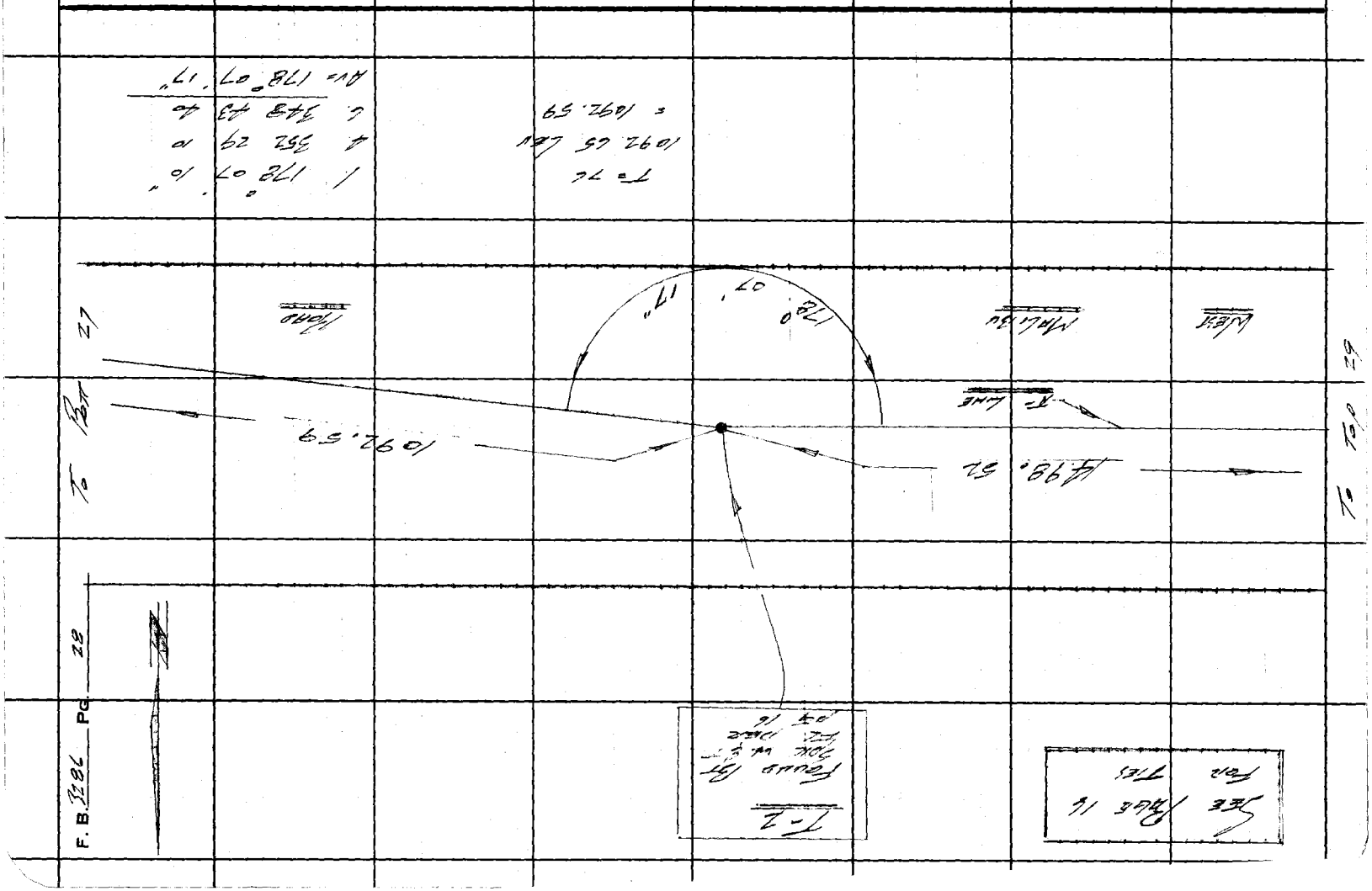
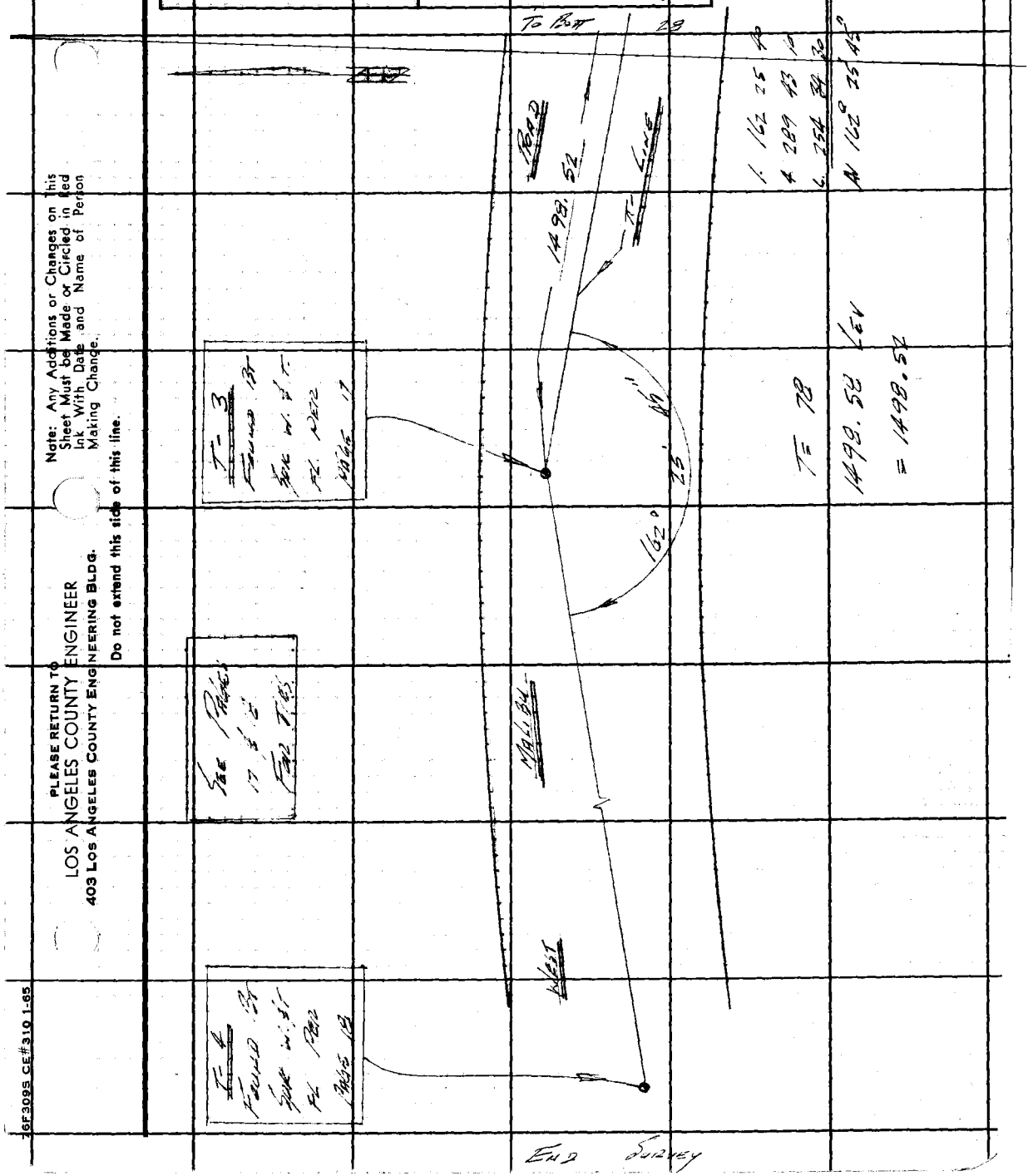


Notes Ck'd by	Survey of Amarillo Beach	F. B. 3286 PG. 29
Map No.	JN 0021.82 Tape 196 Std. 84 °F	
Office Work	Surveyed by Lind	
Checked	Notes Lind Date 8-25-67	
Date	Indexed H. E. 017 SEP 5 '67	



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76F3095 CE#310 1-65

Notes Ck'd by	Survey of Amarillo Beach Landslide	F. B. 3296 PG. 31
Map No.	JN 0021.81 Tape 196 Std 24 °F	
Office Work	Surveyed by Lind	
Checked	Notes Lind Date 1-8-68	
Date	Indexed C. J. GALLI JAN 22 68	

U.N. 0021.81

AMARILLO BEACH LANDSLIDE

HORIZONTAL MOVEMENT STUDY

1-8-68

LIND
STRADER
SWANN
MUNOZ
FISHER

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76F309S CE#310 1-65

F. B. 3286 PG. 32

A LINE

1-8-68

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT	OFFSET L./R.	NOTES	
A-12	A-1		0+00.00	0.00		REF	F.B. 2241 15-25
		A-11	0+62.26	0.22	L.	T=64	62.27 LEV= 62.26
		A10B Aux 1	1+46.98	4.24	L.	T=64	84.73 LEV= 84.72
		A10A Aux 2	2+68.24	3.34	L.	T=64	121.28 LEV= 121.26
		A-10	4+09.14	1.05	L.	T=64	140.92 LEV= 140.90
		A-9	5+61.87	0.81	L.	T=60	152.75 LEV= 152.73
		A-8	8+65.35	1.25	L.	T=60	303.53 LEV= 303.48
		A-7	11+47.62	1.32	L.	T=60	282.31 LEV= 282.27
		A-6A	12+70.86	0.76	L.	T=60	123.26 LEV= 123.24
		A-6	14+32.66	0.57	L.	T=60	161.83 LEV= 161.80
		A-5	16+71.02	1.00	L.	T=60	238.40 LEV= 238.36
		A-4A	17+42.08	1.27	L.	T=60	71.07 LEV= 71.06

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76F309S CE#310 1-65

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A- LINE CONT. 1-8-68

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT	OFFSET L/R		NOTES
A-12	A-1						
		A-4	18+24.90	0.03	R.	T=60	82.83 LEV= 82.82
		A-3	22+06.52	0.04	R.	T=60	381.68 LEV= 381.62
		A-2A	24+10.84	2.33	L.	T=60	204.35 LEV= 204.32
		A-2	25+53.63	0.00		T=60	142.81 LEV= 142.79
		A-1	26+31.30	0.00		T=60	77.68 LEV= 77.67

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of Aquarius Peak Landscape
JN 00281 Tape 96 Std 88 °F
Surveyed by Lind
Notes Lind Date 1-9-68
Indexed C. J. GALLI

F. B. 3286 PG. 33

B- LINE 1-9-68

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMT	OFFSET L/R	NOTES			
B-1	B-8		0+00.00	0.00					
		POT	0+93.55	0.00		T= 58	95.89 @ 12°37' =	93.55	
			4.03						
		B-2	0+97.58	0.24	L.	T= 58	4.03 LEV =	4.03	AHEAD
			63.77						
		B-3	1+61.35	1.16	L.	T= 58	67.82 @ 1°02' =	67.80	
			75.99						
		POT	2+37.34	0.00		T= 60	76.06 @ 2°22' =	75.99	
			1.07						
		B-4	2+38.41	1.43	L.	T= 60	1.07 LEV =	1.07	AHEAD
			81.78						
		B-5	3+20.19	0.39	L.	T= 60	7.25 LEV =	7.25	BACK
			7.25						
		POT	3+27.44	0.00		T= 60	90.46 @ 5°04' =	90.16	

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Notes Ck'd by	Survey of Amarillo Beach Landslide
Map No.	JN 0021.81 Tape 145 Std 84 °F
Office Work	Surveyed by Lind
Checked	Notes Lind Date 7-15-68
Date	Indexed C. J. GALLI JUL 23 '68

F.B. 3286 Pg. 35

JN 0021.81

AMARILLO BEACH LANDSLIDE

HORIZONTAL MOVEMENT STUDY

7-15-68

LIND

JONES

DIETZ

RIVERA

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76P3098 CE #310 5-66

A - LINE

7-15-68

On Line From	To	Sight on Station	Plus	Off Set Amt	L/R	Notes
A-12	A-1		0+00.00	0.00		Per FB 2341 - 15-25
		A-11	0+62.26	0.22	L	T=78 62.26 Lev = 62.26
		A 10B Aux 1	1+47.00	4.24	L	T=78 84.74 Lev = 84.74
		A10A Aux 2	2+68.26	3.34	L	T=78 121.26 Lev = 121.26
		A-10	4+09.13	1.06	L	T=78 140.88 Lev = 140.87
		A-9	5+61.85	0.82	L	T=78 152.73 Lev = 152.72
		A-8	8+65.33	1.27	L	T=78 303.49 Lev = 303.48
		A-7	11+47.55	1.37	L	T=78 282.23 Lev = 282.22
		A-6A	12+70.79	0.78	L	T=78 123.24 Lev = 123.24
		A-6	14+32.58	0.59	L	T=78 161.80 Lev = 161.79
		A-5	16+70.94	1.01	L	T=78 238.37 Lev = 238.36
		A-4A	17+42.00	1.08	L	T=78 71.06 Lev = 71.06

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76P3098 CE #310 5-66

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A- LINE CONT. 7-15-68

ON LINE FROM	TO	SIGHT ON STATION	PLUSS	OFF SET AMT	L/R		NOTES
A-12	A-1						
		A-4	18+24.81	0.04	R.	T=78	82.81 LEV = 82.81
		A-3	22+06.43	0.04	R.	T=78	381.63 LEV = 381.62
		A-2A	24+10.72	2.37	L.	T=78	204.30 LEV = 204.29
		A-2	25+53.49	0.00		T=78	142.78 LEV = 142.77
		A-1	26+31.17	0.00		T=78	77.68 LEV = 77.68

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of Amarillo Beach Lowdale
IN 002.11 Tape 145 Std 84 °F
Surveyed by LIND
Notes LIND Date 7-15-68
Indexed C. J. GALLI

F.B. 32 Pg. 37

B- LINE

7-15-68

On Line From	To	Sight on Station	Plus	Off Set Amt	L/R		Notes
B-1	B-8		0+00.00	0.00			
		POT	0+93.56	0.00		T=76	95.60 @ 11°51' = 93.56
		B-2	0+97.61	0.24	L.	T=76	4.05 @ LEV = 4.05
		B-3	1+61.33	1.16	L.	T=76	67.82 @ LEV = 67.82
		B-4	2+38.42	1.44	L.	T=70	77.14 @ 2°44' = 77.04
		POT	3+00.25	0.00		T=70	62.21 @ 6°16' = 61.83
		B-5	3+20.20	0.40	L.	T=70	19.95 @ LEV = 19.95

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Profile No.	Notes Red	Plotted	Job No. 0021.81	Division No. 11	F.B. 3286 3445 Pg. 39 41
	Date	Date	Survey of AMARILLO BEACH LANDSLIDE		
X-Sec. No.	Notes Chkd.	Checked	Survey by LWD	Notes LWD	Date 7-16-68
	Date	Date	Map No.	Indexed C. J. GALLI	Date

STATION	B.S.	H.I.	F.S.	ELEV.	
					J.N. 0021.81 AMARILLO BEACH LANDSLIDE
					RE-RUN OF BENCH LEVELS
				7-16-68	
			LWD		
			JONES		
			DIETZ		
			RIVERA		

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76-L298 CE 307 3-61

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STATION	B. S.	H. I.	F. S.	ELEV.		
AB # 2	3296	21 618		18 322		
T.P.	6808	24 797	3 629	17 989		
TP	6200	27 398	3599	21 198		
T.P.	6907	31 405	2900	24 498		
A-12	7653	35 117	3941	27464		
A-11			6972	28 145		
A10 B Aux1			5110	30 007		
A10 A Aux2			4518	30 599		
T.P.	11 695	42 541	4271	30 846	BEG SIDE LINE	
T.P.	11 589	53 777	0353	42 188		
B-2			7985	45 792		
B-3			2380	51 397		
TP	11 861	65 419	0219	53 558		
B-4			11055	54 364		
B-5			2739	62 680	END SIDE LINE	
A10 A Aux2	3619	34 218		30 599		
A-10			6424	27794		
A-9	4568	33 411	5375	28 843		
A-8	4003	32 408	5011	28 400		
A-7	4633	30 426	6615	25 793		
A-6A			7229	23 197		

SAME

F.B. 3286 3415 Pg. 40 42

Job No. 0021.81 Division No. 11 Notes Red ____ Plotted ____ Profile ____

Survey of AMARILLO BEACH LANDSLIDE Date ____ Date ____ No. ____

Survey by LIND Notes LIND Notes Chkd. ____ Checked ____ X-Sec. ____

Indexed C. J. GALLI Date ____ Date ____ Date ____ No. ____

76-L298 CE 307 3-61

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STATION	B.S.	H.I.	F.S.	ELEV.		
		30 426				
A-6			6255	24 171		
TP	3707	28 578	5555	24 871		
A-5			4700	23 878		
A-4A			4362	24 216		
T.P.	5142	29 858	3862	24 716		
A-4			4477	25 381		
T.P.	5294	31 463	3689	25 169		
A-3	4523	32 302	3684	27 779		
A-2A	5106	33 286	4122	28 180		
A-2			3690	29 596		
A-1			3150	30 136	A-1	

Profile No. ____ Notes Red ____ Plotted ____ Job No. 0021.81 Division No. 11 F.B. 3286 3445 Pg. 41 43
Date ____ Date ____ Survey of Amarillo Beach Lane Side
X-Sec. No. ____ Notes Chkd. ____ Checked ____ Survey by Lind Notes Lind Date 7-16-68
Date ____ Date ____ Map No. ____ Indexed C. J. GALLI Date JUL 23 '68

Notes Ck'd by	Survey of Amarillo Beach Landslide F.B. 3280 PG. 43
Map No.	JN 0021.81 Tape 99 Std 84 °F
Office Work	Surveyed by Lind
Checked	Notes Lind Date 1-17-69
Date	Indexed C. J. GALLI FEB 17 '69

J.N. 0021.81

AMARILLO BEACH LANDSLIDE

HORIZONTAL MOVEMENT STUDY

1-17-69

LIND

JONES

MUNOZ

FISHER L.O.

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16F309S CE#310 3-68

F. B. 3286 PG. 44

"A" Line

1-17-69

On Line From	On Line To	Sight on Station	Pluss	Off Set Amt.	Off Set L/R		Notes	
A-12	A-1						temp. =	64
		A-11	0+62.24	0.22	L.	62.25	Lev =	62.24 ✓
		A-10B Aux 1	84.73 1+46.97	4.24	L.	84.74	Lev =	84.73
		A-10A Aux 2	121.23 2+68.20	3.34	L.	121.25	Lev =	121.23 ✓
		A-10	140.88 4+09.08	1.08	L.	140.90	Lev =	140.88 ✓
		A-9	152.74 5+61.82	0.84	L.	152.76 303.64	Lev =	152.74 ✓ 303.50 ✓
		A-8	303.50 8+65.32	1.33	L.	282.26	Lev =	282.22 ✓
		A-7	282.22 11+47.54	1.45	L.			
		A-6A	123.22 12+70.76	0.82	L.	123.24	Lev =	123.22 ✓
		A-6	161.80 14+32.56	0.64	L.	161.82	lev =	161.80 ✓
		A-5	238.34 16+70.90	1.09	L.	238.37	lev. =	238.34
		A-4A	71.06 17+41.96	1.17	L.	71.07	lev =	71.06

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16F309S CE#310 3-68

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"A-LINE" Cont. 1-17-69

ON LINE From	ON LINE to	Sight on Station	P/Uss	Offset Amt.	Offset L/R		Notes		
A-12	A-1								
			82.81						
		A-4	18+24.77	0.00 ~~0.44~~		82.83	Lev.	=	82.81
			381.61						
		A-3	22+06.38	4.02	R.	381.46	Lev	=	381.61
			204.31						
		A-2A	24+10.49	2.42	L.	204.34	Lev.	=	204.31
			142.79						
		A-2	25+53.48	0.00		142.81	Lev.	=	142.79
			77.67						
		A-1	26+31.15	0.00		77.68	Lev	=	77.67

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of [illegible]
JN [illegible] Tape [illegible] Std [illegible] °F
Surveyed by [illegible] Date [illegible]
Notes
Indexed C. J. GALLI

F. B. [illegible] PG. [illegible]

F. B. 3286 PG. 46

"B" - LINE — 1-20-59

On Line From	On Line To	Sight on Station	Plus	Offset Amt.	Offset L./R.	Notes		
B-1	B-8		0+00	0.00		Temp.		
		P.o.t	0+93.55	0.00		95.70	@ 12°09' =	93.55
			4.03					
		B-2	0+97.58	0.24	L.	4.03	Lev.	= 4.03
			63.79					
		B-3	1+61.37	1.16	L.	67.85	@ 1°26'	= 67.82
			77.03					
		B-4	2+38.40	1.44	L.	77.09	@ 1°59'	= 77.03
			61.84					
		P.o.t	3+00.24	0.00		62.06	@ 4°46'	= 61.84
			19.95					
		B-5	3+20.19	0.40	L.	19.95	@ Lev	= 19.95

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Profile No.	Notes Red	Plotted	Job No. 0021.81	Division No. 11	F.B. 3286	Pg. 47
	Date	Date	Survey of Amarillo Beach Landslide			
X-Sec. No.	Notes Chkd.	Checked	Survey by Lind	Notes Lind	Date 1-22-69	
	Date	Date	Map No.	Indexed C. J. GALLI	Date FEB 17 '69	

J.N. 0021.81

AMARILLO BEACH LANDSLIDE

RE-RUN OF BENCH LEVELS

STATION	B.S.	H.I.	F.S.	ELEV.
				1-22-69
				~~1-17-69~~
				LIND
			JONES	
			MUNOZ	
		FISHER L.O.		

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76-L298 CE 307 3-61

76-L298 CE 307 3-61

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STATION	B.S.	H.I.	F.S.	ELEV.		
A-B #2	3214	21.530		18.322	A-B #2 El=	18.322
T.P.	5654	24 934	2250	19 280		
T.P.	6170	28 242	2861	22 073		
T.P.	7390	32 816	2817	25 426		
A-12			5341	27 475		
A-11			4677	28 139		
A10B Aux 1	6099	36 093	2822	29 994		
A10B Aux 2	10206	40 794	5505	30 588	*	
T.P.	9273	49 308	0759	40 035		
B-2	10501	56 284	3525	45 783		
B-3			4 915	51 369		
B-4	10822	65 169	1937	54 347		
B-5			2 493	62 676		
A10A Aux 2	3962	34 550		30 588	*	
A-10			6768	27 782		
A-9	4883	33 722	5711	28 839		
A-8	3681	32 080	5323	28 399		
A-7	4506	30 279	6307	25 773		

F.B. 3286 PG. 48 Job No. 0021.81 Division No. 11 Notes Red ____ Plotted ____ Profile ____
Survey of Amarillo Road Landslide Date ____ Date ____ No. ____
Survey by L.H.D. Notes Lind Notes Chkd. ____ Checked ____ X-Sec. ____
Indexed J. GALLI Date ____ Date ____ Date ____ No. ____

76-L298 CE 307 3-61

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STATION	B. S.	H. I.	F. S.	ELEV.		
		30 279				
A-6A			7170	23 109		
A-6			6122	24 157		
T.P.	4132	28 987	5422	23 857		
A-5			5125	23 864		
T.P.	5410	29 794	4605	24 384		
A-4A			5588	24 206		
A-4			4406	25 388		
T.P.	5460	31 535	3719	26 075		
A-3	4368	32 350	3753	27 782		
A-2A	5450	33 615	4185	28 165		
A-2			4015	29 600		
A-1			3478	30 137	A-1	

Profile Notes Red ____ Plotted ____ Job No. 0021.81 Division No. 11 F.B. 3786 Pg. 49
No. ____ Date ____ Date ____ Survey of Amarillo Beach Land Sliding
X-Sec. Notes Chkd. ____ Checked ____ Survey by Lind Notes Lind Date 1-22-69
No. ____ Date ____ Date ____ Map No. ____ Indexed C. J. GALLI Date ____

Amarillo Beach

Notes Ck'd by	Survey of Landslide
Map No.	JN ~~[illegible]~~ Tape 99 Std 88 °F
Office Work	Surveyed by Linda
Checked	Notes Linda Date 1-28-69
Date	Indexed C. J. GALLI FEB 17 '69

F. B. 3286 PG. 51

U.N. 0021.01

AMARILLO BEACH LANDSLIDE

HORIZONTAL MOVEMENT STUDY

1-28-69

Linda

Jones

Manley

Fisher L.A.

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76F309S CE#310 3-68

A- LINE

1-28-69

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFF SET AMT.	L./R.		NOTES
							TEMP = 58°
A-12	A-2		0+00.00	0.00			
		A-11	0+62.25	0.21	L.	62.26	LEV = 62.25
		A-10B Aux 2	1+46.99	4.23	L.	84.75	LEV = 84.74
		A-10A Aux 2	2+68.26	2.42	L.	121.29	LEV = 121.27
		A-10	4+09.14	1.09	L.	140.90	LEV = 140.88
		A-9	5+61.87	0.84	L.	152.76	LEV = 152.73
		A-8	8+65.39	1.35	L.	303.57	LEV = 303.52
		A-7	11+47.64	1.49	L.	282.30	LEV = 282.25
		A-6A	12+70.84	0.86	L.	123.22	LEV = 123.20
		A-6	14+32.66	1.13	L.	161.85	LEV = 161.82
		A-5	16+71.04	2.00	L.	238.42	LEV = 238.38
		A-4A	17+42.09	2.16	L.	71.06	LEV = 71.05

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Do not extend this side of this line.

A LINE 1-28-69

ON LINE From	to	SIGHT ON STATION	PLUSS	OFFSET Amt.	L/R		Notes	
A-12	A-1							
		A-4	18+24.87	0.02	R.	82.79	LEV =	82.78
		A-3	22+06.50	0.02	L.	381.69	LEV =	381.63
NEW POINT → Bt. Spk W. & T. FL.		A-2B	23+00.00	0.00		93.52	LEV =	93.50
		A-2A	24+10.78	2.76	L.	110.80	LEV =	110.78
NEW POINT → Bt. Spk W. & T. FL.		A-2C	25+24.04	0.00	L.	113.28	LEV =	113.26
		A-2	25+53.57	0.00		29.53	LEV =	29.53
		A-1	26+31.24	0.00		77.68	LEV =	77.67

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of BEACH LANDSCAPE
JN [illegible] Tape 94 Std 84 °F
Surveyed by LIND
Notes Date 1-28-69
Indexed C. J. GALLI

F. B. 3286 PG. 53

F. B. 3286 PG. 54

B- LINE — 1-31-69

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT.	OFFSET L/R	NOTES
B-1	B-8		0+00.00	0.00		TEMP. = 66°
		Pot	0+93.54	0.00		95.95 @ 12°50' = 93.54
		B-2	0+97.58	0.23	L.	4.04 @ Lev = 4.04
		B-3	1+61.36	1.15	L.	67.83 @ Lev = 67.82
		B-4	2+38.40	1.44	L.	77.08 @ 1°31' = 77.04'
		Pot	3+00.22	0.00		62.17 @ 5°57' = 61.82'
		B-5	3+20.17	0.40	L.	19.95 @ Lev = 19.95'

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Profile No.	Notes Red	Plotted	Job No. 2219/	Division No. 11	F.B. 3286 Pg. 88
	Date	Date	Survey of AMARILLO BEACH LANDSLIDE		
X-Sec. No.	Notes Chkd.	Checked	Survey by LIND	Notes LIND	Date 1-29-69
	Date	Date	Map No.	Indexed C. J. GALLI	Date FEB 1 7 '69

STATION	B.S.	H.I.	F.S.	ELEV.	
					J.N. 0021.81
					AMARILLO BEACH LANDSLIDE
					RE-RUN OF BENCH LEVELS
				1-29-69	
			LIND		
			HOWES		
		FISHER L.O.			

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76-L298 CE 307 3-61

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STATION	B. S.	H. I.	F. S.	ELEV.		
A-B #2	2907	21.229		18.322	A-B #2 EL = 18.322	
T.P.	5449	24.729	1949	19.280		
T.P.	5918	27 416	3231	21 498		
T.P.	6401	31 151	2666	24750		
A-12			3682	27469		
A-11			3 010	28 141		
T.P.	6421	35 558	2014	29 137		
A-10 B Aux 1			5552	30 006		
A-10 A Aux 2	9458	40 048	4968	30 570	*	
T.P.	9735	49 773	0010	40 038		
B-2			3967	45 806		
T.P.	9068	56 061	2780	46993		
B-3			4680	51 381		
B-4	11572	65 912	1721	54340		
B-5			3241	62 671		
A-10 A Aux 2	4301	34 891		30 590	*	
A-10			7112	27 779		
A-9	4792	33630	6053	28 838		
A-8	3399	32294	5235	28395		
A-7	4621	30 383	6532	25 762		
A-6-A			7330	23 053		

F.B. 3286 Pg. 56 Job No. 0221.92 Division No. 11 Notes Red Plotted Profile
Survey of Aspirante Beach Landslide Date Date No. X-Sec.
Survey by Lind Notes Lind Notes Chkd. Checked
Indexed C. J. GALLI Date Date Date No.

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STATION	B. S.	H. I.	F. S.	ELEV.		
		30 383				
A-6				23 962		
T.P.	4021	28 683	5721	24 662		
A-5			5 008	23 675		
A-4A			4 691	23 992		
T.P.	5866	30 358	4191	24492		
A-4			4975	25 383		
T.P.	5192	31 665	3885	26473		
A-3			3883	27 782		
T.P.	5792	33 196	4261	27404		
A-2B			5201	27995		
A-2A			5150	28046		
A-2C			3722	29474		
A-2			3602	29 594		
A-1			3065	30.131		

Profile No. ____ Notes Red ____ Plotted ____ Job No. 0021-81 Division No. 11 F.B. 3286 Pg. 57
X-Sec. No. ____ Date ____ Date ____ Survey of Agatella Beach Lane & Lion
Notes Chkd. ____ Checked ____ Survey by Lind Notes Lind Date 1-29-69
Date ____ Date ____ Map No. ____ Indexed C. J. GALLI Date ____

F.B. 3296 PG. 59

Profile No. | Notes Red | Plotted | Job No. 0021.81 | Division No. 11
Date | Date | Survey of Amarillo Beach Landslide
X-Sec. No. | Notes Chkd. | Checked | Survey by LWP | Notes LWP | Date 1-30-69
Date | Date | Map No. | Indexed C. J. GALLI | Date FEB 17 '69

J.N. 0021.81

AMARILLO BEACH LANDSLIDE

"X" SECTIONS ALONG

A-LINE

FROM A-12 TO A-1

STATION	B.S.	H.I.	F.S.	ELEV.
			1-30-69	
			LWP	
		JONES		
		MASLEY		
		FISHER L.O.		

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76-1298 CE 307 3-61

F.B. 3246 Pg. 6

Job No. 0001-81 Division No. 11 Notes Red _____ Plotted _____ Profile

Survey of Amarillo Beach Landslide Date _____ Date _____ No. _____

Survey by Lina Notes Lina Notes Chkd. _____ Checked _____ X-Sec.

Indexed C. J. GALLI Date _____ Date _____ Date _____ No. _____

76-L298 CE 307 3-61

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STATION	B.S.	H.I.	F.S.	ELEV.		
A-12				27 47	Sta. A-12 El= 27.47 Rel Pg 56	
0+50				28 68	A-Line	
				28 34	18' Rt. Mal Point	
1+00				28 66	6' L Mal Point	
				29 45		
				29 25		12' Rt Mal Point
1+50				29 53	11' L Mal Point	
				30 33	A-Line	
2+00				30 86	A-Line	
				30 80	4'R E. Point	
2+50				31 04	6' L Ctr. Point	
3+00				32 33	17' L Point	
				30 79	A-Line	
				30 41	A-Line	
3+50				30 74	11' L Ctr Point	
				30 78	16' L Ed. Point	
				29 97	A-Line	
				30 10	1' L Ed Point	
				30 49	13' L Ctr Point	
				30 44	25' L	

"Lenker Rod"

76-L298 CE 307 3-61

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STATION	B.S.	H.I.	F.S.	ELEV.		
4+00				29 47	"A" =	LINE
				29 63	2° L. E.D. Pvmt	
				30 00	14° L. Ctr pvmt	
				29 92	26° L. Brk pvmt	
4+50				29 41	A-	LINE
5+00				29 07	A-	LINE
				29 35	2° L. E.D. Pvmt	
				29 72	14° L. Ctr "	
				29 52	26° L. Brk "	
5+50				28 87	A-	LINE
6+00				28 81	A-	LINE
				28 96	2° L. E. Pvmt	
				29 43	14° L. Ctr "	
				29 37	25° L. E. "	
6+50				28 00	A-	LINE
7+00				28 76	A-	LINE
				28 96	2° L. E. Pvmt	
				29 30	14° L. Ctr "	
				29 28	26° L. E. "	
7+50				28 87	A-	LINE

Profile Notes Red ____ Plotted ____ Job No. 2021.81 Division No. 11 F.B. 3286 PG. 61
No. ____ Date ____ Date ____ Survey of Appalachian Beach Landslide
X-Sec. Notes Chkd. ____ Checked ____ Survey by Lind Notes Lind Date 1-30-69
No. ____ Date ____ Date ____ Map No. ____ Indexed C. J. GALLI Date ____

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STATION	B. S.	H. I.	F. S.	ELEV.		
8+00				30 90	A-	LINE
				29 21	3° L. E. Pvmt	
				29 60	15° L. Ctr "	
				29 38	26 L. Brk "	
8+50				28 93	A-	LINE
9+00				28 12	A-	LINE
				28 37	3° L. E. Pvmt	
				28 55	15° L. Ctr "	
				28 25	27° L. Brk "	
9+50				27 69	A-	LINE
10+00				27 61	A-	LINE
				27 71	3° L. E. Pvmt	
				27 92	15° L. Ctr "	
				27 67	26° L. Brk "	
10+50				27 59	A-	LINE
11+00				27 22	A-	LINE
				27 42	14° L	
				27 55	13° L.	
				27 05	25° L.	
11+50				26 70	A-	LINE

F. B. 3286 PG. 62
Job No. 002181 Division No. 11 Notes Red ____ Plotted ____ Profile
Survey of Amarillo Beach Landslide Date ____ Date ____ No. ____
Survey by Lino Notes Lino Notes Chkd. ____ Checked ____ X-Sec.
Indexed C. J. GALLI Date ____ Date ____ Date ____ No. ____

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STATION	B.S.	H.I.	F.S.	ELEV.		
12 + 00				26 35	A-	LINE
				26 26	1? L. E. Punt	
				26 70	12? L. Ctr "	
				26 27	23? L. Brk "	
12 + 50				26 35	A-	LINE
13 + 00				26 07	A-	LINE
				26 20	11? L. Ctr Punt	
				26 98	22? L. Brk "	
				25 95		2? R. E. Punt
13 + 50				26 24	A-	LINE
14+00				25 21	A-	LINE
				25 10		2? R. E. Punt
				25 41	10? L. Ctr	
				25 10	22? L. Brk Punt	
14 + 50				24 44	A-	LINE
15 +00				24 26	A-	LINE
				24 15		2? R. E. Punt
				24 61	10 L. Ctr Punt	
				24 46	20? Brk "	
15+50				24 00	A-	LINE

Profile Notes Red ____ Plotted ____ Job No. 102181 Division No. 11 F.B. 3286 Pg. 13
No. ____ Date ____ Date ____ Survey of Ayozillo Beach Sanitation
X-Sec. Notes Chkd. ____ Checked ____ Survey by [illegible] Notes [illegible] Date 1-20-69
No. ____ Date ____ Date ____ Map No. ____ Indexed C. J. GALLI Date ____

76-L298 CE 307 3-61

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STATION	B. S.	H. I.	F. S.	ELEV.		
16 + 00				23 63	A-	LINE
				23 45		2.5 Rt. E. Pvmt
				24 13	10.0 L.	
				23 83	21.5 L.	
16 + 50				24 08	A-	LINE
17 + 00				24 16	A-	LINE
				23 99		3.0 R E. Pvmt.
				24 52	9.0 L. Ctr pvmt	
				24 45	20.5 L. Brk "	
17 + 50				24 53	A-	LINE
18 + 00				25 67	A-	LINE
				25 24		5.5 R. E. P.
				25 82	6.5 L. Ctr pvmt	
				25 66	18.0 L. Brk "	
18 + 50				25 72	A-	LINE
19 + 00				25 95	A-	LINE
				25 50		6.5 R. E. P.
				26 20	6.4 L. Ctr pvmt	
				25 85	18.0 L. Brk "	
19 + 50				26 35		

F. B. 3286 PG. 44

Job No. 0021.81 Division No. 11 Notes Red ____ Plotted ____ Profile ____

Survey of Aquilino Brown Landslide Date ____ Date ____ No. ____ X-Sec. ____

Survey by Lino Notes Lino Notes Chkd. ____ Checked ____ No. ____

Indexed C. J. GALLI Date ____ Date ____ Date ____

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STATION	B. S.	H. I.	F. S.	ELEV.			
20+00				26 60		A-	LINE
				26 30			7° R. E. P.
				26 75	6° L. Ctr. Pvmt		
				26 42	17° L. Brk "		
20+50				26 89		A-	LINE
21+00				27 09		A-	LINE
				26 87			7° R. E. P.
—				27 17	5° L. Ctr. Pvmt		
				26 90	16° L. Brk "		
21+50				27 47		A-	LINE 7.57
22+00				28 02		A-	LINE
				27 74			7° R.
				28 18	5° L.		
				28 07	20° L.		
22+50				28 37		A-	LINE
23+00				27 97		A-	LINE
				27 65			8° R. E. P.
				28 15	6° L. Ctr.		
				27 94	17° L. Brk Pvmt		
23+50				28 22		A-	LINE

Profile No. ____ Notes Red ____ Plotted ____ Job No. 0021.81 Division No. 11 F.B. 3286 Pg. 65
Date ____ Date ____ Survey of Arroyo Beach Land Sec'ds
X-Sec. No. ____ Notes Chkd. ____ Checked ____ Survey by LND Notes LND Date 1-30-59
Date ____ Date ____ Map No. ____ Indexed C. J. GALLI Date ____

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STATION	B. S.	H. I.	F. S.	ELEV.		
24+00				28 52	A-	LINE
				28 25		8° R. E.D.
				28 [illegible]	5° L. Ctr. pvmt.	
				28 54	16° L. Brk "	
24+50				28 62	A-	LINE
25+00				29 16	A-	LINE
				28 60		12° R. E.D.
				29 11	6° L. Ctr. Pvmt	
				29 07	11° L.	
25+50				29 [illegible]	A-	LINE
26+00				30 25	A-	LINE
				30 15		2° Rt. E.D.
				29 70		12° Rt. Ct.
				29 12		28° Rt.
A-1				30 13	Sta. A-1 El.	30.13 Per pg. 49

F.B. 3296 Pg. 66

Job No. 02164 Division No. 11 Notes Red Plotted Profile

Survey of Amarillo Beach Land Slide Date Date No. X-Sec.

Survey by LWD Notes Chkd. Checked

Indexed C. J. GALLI Date Date No.

Notes Ck'd by	Survey of Amarillo Beach Landslide
Map No.	JN 0021.81 Tape 99 Std 64 °F
Office Work	Surveyed by LWD
Checked	Notes LWD Date 1-31-69
Date	Indexed C. J. GALLI FEB 17 '69

F. B. 3286 PG. 67

J.N. 0021.81

AMARILLO BEACH LANDSLIDE

STATIA LOCATION OF NEW
CRACKS ALONG THE "A" LINE.

SEE PAGE 52 & 53
FOR CONTROL
AND STATIONING

1-31-69

LWD

JONES

MANLEY

FISHER L.O.

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16F309S CE#310 3-68

765614 CE301 3-61

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Transit at	Sight on	Stadia Intercepts	Stadia Distance	Stadia Rod—	Horizontal Angle 0° to 360° Right	Horiz. Distance	+ Vertical — Zenith	Elevation of Point	Back Sight	+ Difference — Elevation	Height of Instrument	+ Vertical — Distance	REMARKS Station	Left	Right
								24.08							
1450	0400			5 5	STA. 14,	LOCATION,	OF	CROSS	5 5	APPROXIMATE	STATIONS		A-6A	TO	A-1A
		2.57 1.00	157	—	171.41,	157	+ 89.30,	25.5	5 5	—	—	+ 14	BEGIN	CRACK	
		6.31 5.00	126	5 5	181.51,	130	+ 89.37,	25.0	5 5	—	—	+ 09	MAIN	CRACK	
		5.51 4.00	151	5 5	193.56,	151	+ 86.43,	32.7	5 5	—	—	+ 86	"	"	
		6.65 4.00	165	5 5	209.38,	164	+ 84.50,	38.9	5 5	—	—	+ 18	"	"	
		3.46 2.00	145	5 5	217.52,	144	+ 85.35,	35.2	5 5	—	—	+ 11	"	"	
		5.23 4.00	123	5 5	226.03,	123	+ 87.53,	28.6	5 5	—	—	+ 45	"	"	
		6.12 5.00	112	5 5	239.06,	111	+ 85.36,	33.0	5 5	—	—	+ 89	"	"	
		5.51 4.00	181	5 5	266.02,	135	+ 81.04,	47.3	5 5	—	—	+ 23.2	"	"	
		4.88 3.00	188	5 5	262.50,	181	+ 79.07,	59.0	5 5	—	—	+ 34.9	"	"	
		6.18 4.00	218	5 5	266.34,	210	+ 78.38,	66.2	5 5	—	—	+ 42.1	"	"	
		6.65 4.00	265	5 5	271.12,	256	+ 79.18,	72.4	5 5	—	—	+ 48.3	"	"	
		6.65 4.00	265	5 5	276.00,	256	+ 79.31,	71.4	5 5	—	—	+ 47.4	"	"	
		6.52 4.00	252	5 5	284.02,	243	+ 78.53,	71.9	5 5	—	—	+ 47.8	"	"	
		6.11 4.00	211	5 5	291.16,	203	+ 78.52,	64.1	5 5	—	—	+ 40.0	"	"	
		4.43 3.00	143	5 5	301.50,	141	+ 82.28,	42.7	5 5	—	—	+ 18.6	"	"	
		5.60 4.00	180	5 5	306.55,	177	+ 82.59,	45.9	5 5	—	—	+ 21.8	"	"	
		3.19 1.00	219	5 5	311.56,	212	+ 79.49,	60.2	5 5	—	—	+ 38.1	"	"	
		5.28 3.00	228	5 5	318.50,	223	+ 81.15,	58.4	5 5	—	—	+ 34.3	"	"	
		6.19 4.00	219	5 5	324.51,	216	+ 83.30,	48.7	5 5	—	—	+ 24.6			

Add'n'l Inform.

Notes Red. ____ Platted ____ Job No. 2021.01 Division No. 1 F.B. 3786 Pg. 69
Date ____ Date ____ Survey of Hotline Street Cracks
Notes Chkd. ____ Checked ____ Survey by CWB Notes CWB Date 1-31-69
Date ____ Date ____ Map No. ____ Indexed C. J. GALLI Date FEB 17 '69

76S614 CE301 3-61

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Transit at	Sight on	Stadia Intercepts	Stadia Distance	Stadia Rod	Horizontal Angle 0° to 360° Right	Horiz. Distance	+ Vertical Angle −	Elevation of Point	+ Back Sight	+ Difference Elevation −	Height of Instrument	+ Vertical Distance −	REMARKS Station	Left	Right
16+50	0+00						ZENITH		1						
		6.25 / 4.00	225	5 5	340 45	224	+ 85 40	41 0	2	5 5		+ 16 9	MAIN CRACK		
		6.40 / 4.00	240	5 5	343 11	238	+ 85 21	42 2	3	5 5		+ 18 1	"		
		6.42 / 4.00	242	5 5	351 35	242	+ 87 40	33 9	4	5 5		+ 9 8	"		
		6.57 / 4.00	257	5 5	352 15	256	+ 86 54	38 0	5	5 5		+ 13 9	"		
		6.55 / 4.00	255	5 5	359 39	255	+ 89 40	25 6	6	5 5		+ 1 5	"		
		6.01 / 3.00	301	5 5	4 01	301	+ 89 43	25 6	7	5 5		+ 1 5	END CRACK		
									8						
									9						
									10						
									11						
									12						
									13						
									14						
									15						
									16						
									17						
									18						
									19						
									20						
									21						

Add'n'l Inform.

F.B. 3286 PG. 70

Topography Description Legend:
Side Hill....S.H. Bottom Draw.B.D.
Side of Draw.S.D. Bottom Wash.B.W.
Side of Ridge.S.R. Top of Ridge.T.R.
Head of Draw H.D. Toe of Slope..T.S.

Inters. of Draws.V.D's Break in Slope..Bk.S. Steep Slope.....S.S. Top of Cliff.....T.Cl. Bottom of Cliff..B.Cl. Top of Spur.....T.Sp. Bottom Canyon..B.Cn.

Side of Canyon S.Cn. Top of Bank...T.B. Bottom of Bank.B.B. Top of Cut.....T.C. Bottom of Cut..B.C. Top of Fill.....T.F. Bottom of Fill.B.F.

Saddle .....Sa. Swale .....Sw. Flat .....Fl. Stream .....Str. Trail .....Tr. Pavement ....Pvt. Edge of Road E.Rd.

Traveled Rd. Tr.Rd. Fence .....Fn. Int. Fence.V.Fns. Ditch .....Di. Telephone Pole T.P. Power Pole...P.P. Culvert .....Cul.

Oak-O. Fir-Fr. Pine-Pi. Cedar-Ce. Sycamore .....Sy. Eucalyptus ....Eu. Plus combinations of these and all common standard abbreviations.

765614 CE301 3-61

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Transit at	Sight on	Stadia Intercepts	Stadia Distance	Stadia Rod—	Horizontal Angle 0° to 360° Right	Horiz. Distance	+ Vertical Angle —	Elevation of Point	+ Back Sight —	+ Difference Elevation —	Height of Instrument	+ Vertical Distance —	REMARKS Station	Left Right
							ZENITH							
				STADIA		LOCATION		OF CRACK		APPROXIMATE		STATION	"A-2A"	
					° '		° '							
23+50	A-1			5.6			—	28.22	2 5.6	PRE	PAGE 65	—	BEG	CRACK
		5.98			° '		° '		3					
		4.0	198	5.6	356 05	198	+ 89 22	29.8	4 5.6			+ 1.60	MAIN	CRACK
		4.68												
		3.0	168	5.6	4 32	168	+ 89 41	28.9	5 5.6			+ 0.69	"	"
		5.30												
		4.00	130	5.6	2 31	130	− 90 09	27.9	6 5.6			− 0.34	"	"
		5.13												
		4.00	113	5.6	19 06	113	+ 88 16	31.6	7 5.6			+ 3.41	"	"
		3.89												
		3.00	89	5.6	28 50	89	+ 86 36	33.5	8 5.6			+ 5.27	"	"
		3.01												
		2.00	101	5.6	55 14	98	+ 80 45	44.2	9 5.6			+ 16.0	"	"
		4.21												
		4.00	81	5.6	98 55	78	+ 78 52	43.5	10 5.6			+ 15.3	"	"
		5.51												
		4.00	51	5.6	109 04	51	+ 85 12	32.5	11 5.6			+ 4.3	"	"
		4.41												
		4.00	41	5.6	121 35	41	− 90 12	28.0	12 5.6			− 0.2	"	"
		5.41												
		6.00	41	5.6	154 58	41	− 91 57	26.8	13 5.6			− 1.4	"	"
		3.66												
		3.00	66	5.6	172 41	66	− 90 18	27.9	14 5.6			− 0.3	"	"
		5.42												
		4.00	142	5.6	189 24	142	− 93 32	26.9	15 5.6			− 1.3	END	CRACK
					° '		° '		16					
					° '		° '		17					
					° '		° '		18					
					° '		° '		19					
					° '		° '		20					
					° '		° '		21					

Add'n'l Inform.

Notes Red. _____ Platted _____ Job No. 6221.61 Division No. 11 F.B. 3266 PG. 71
Date _____ Date _____ Survey of ROAD BUILD BRIDGE BRIDGE
Notes Chkd. _____ Checked _____ Survey by LINCO Notes CURVE Date 1-31-69
Date _____ Date _____ Map No. _____ Indexed C. J. GALLI Date _____

76S614 CE301 3-61

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Transit at	Sight on	Stadia Intercepts	Stadia Distance	Stadia Rod—	Horizontal Angle 0° to 360° Right	Horiz. Distance	+ — Vertical Angle	Elevation of Point	+ Back Sight	+ — Difference Elevation	Height of Instrument	+ — Vertical Distance	REMARKS Station	Left	Right
					° ′		° ′		1						
					° ′		° ′		2						
					° ′		° ′		3						
					° ′		° ′		4						
					° ′		° ′		5						
					° ′		° ′		6						
					° ′		° ′		7						
					° ′		° ′		8						
					° ′		° ′		9						
					° ′		° ′		10						
					° ′		° ′		11						
					° ′		° ′		12						
					° ′		° ′		13						
					° ′		° ′		14						
					° ′		° ′		15						
					° ′		° ′		16						
					° ′		° ′		17						
					° ′		° ′		18						
					° ′		° ′		19						
					° ′		° ′		20						
					° ′		° ′		21						

Add'n'l Inform.

F.B. 3246 PG. 72

Topography Description Legend:

Side Hill.....S.H.
Side of Draw.S.D.
Side of Ridge.S.R.
Head of Draw H.D.
Bottom Draw.B.D.
Bottom Wash B.W.
Top of Ridge.T.R.
Toe of Slope..T.S.

Inters. of Draws.V.D's
Break in Slope..Bk.S.
Steep Slope.....S.S.
Top of Cliff.....T.Cl.
Bottom of Cliff..B.Cl.
Top of Spur.....T.Sp.
Bottom Canyon..B.Cn.

Side of Canyon S.Cn.
Top of Bank...T.B.
Bottom of Bank.B.B.
Top of Cut.....T.C.
Bottom of Cut..B.C.
Top of Fill.....T.F.
Bottom of Fill.B.F.

Saddle .....Sa.
Swale .....Sw.
Flat .....Fl.
Stream .....Str.
Trail .....Tr.
Pavement .....Pvt.
Edge of Road E.Rd.

Traveled Rd. Tr.Rd.
Fence .....Fn.
Int. Fences.V.Fns.
Ditch .....Dl.
Telephone Pole T.P.
Power Pole...P.P.
Culvert .....Cul.

Oak-O. Fir-Fr.
Pine-Pl. Cedar-Ce.
Sycamore ....Sy.
Eucalyptus ....Eu.
Plus combinations of these and all common standard abbreviations.

Notes Ck'd by	Survey of AMARILLO BEACH SLIDE
Map No.	JN 0021.81 Tape 99 Std 44 °F
Office Work	Surveyed by LIND
Checked	Notes LIND Date 1-31-69
Date	Indexed C. J. GALLI FEB 17 '69

F. B. 3286 PG. 73

W.O. 0021.81

AMARILLO BEACH LANDSLIDE

HORIZONTAL LOCATION
OF HOUSES ALONG THE
A- LINE NEAR STATION
A-2A

1-31-69

LIND
JONES

MANLEY
FISHER CO

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76F309S CE#310 3-68

Notes Ck'd by	Survey of Ayarillo Beach Slide
Map No.	JN 0021.51 Tape 99 Std 84 °F
Office Work	Surveyed by Lind
Checked	Notes Lind Date 1-31-69
Date	Indexed C. J. GALLI FEB 17 '69

F. B. 3286 PG. 75

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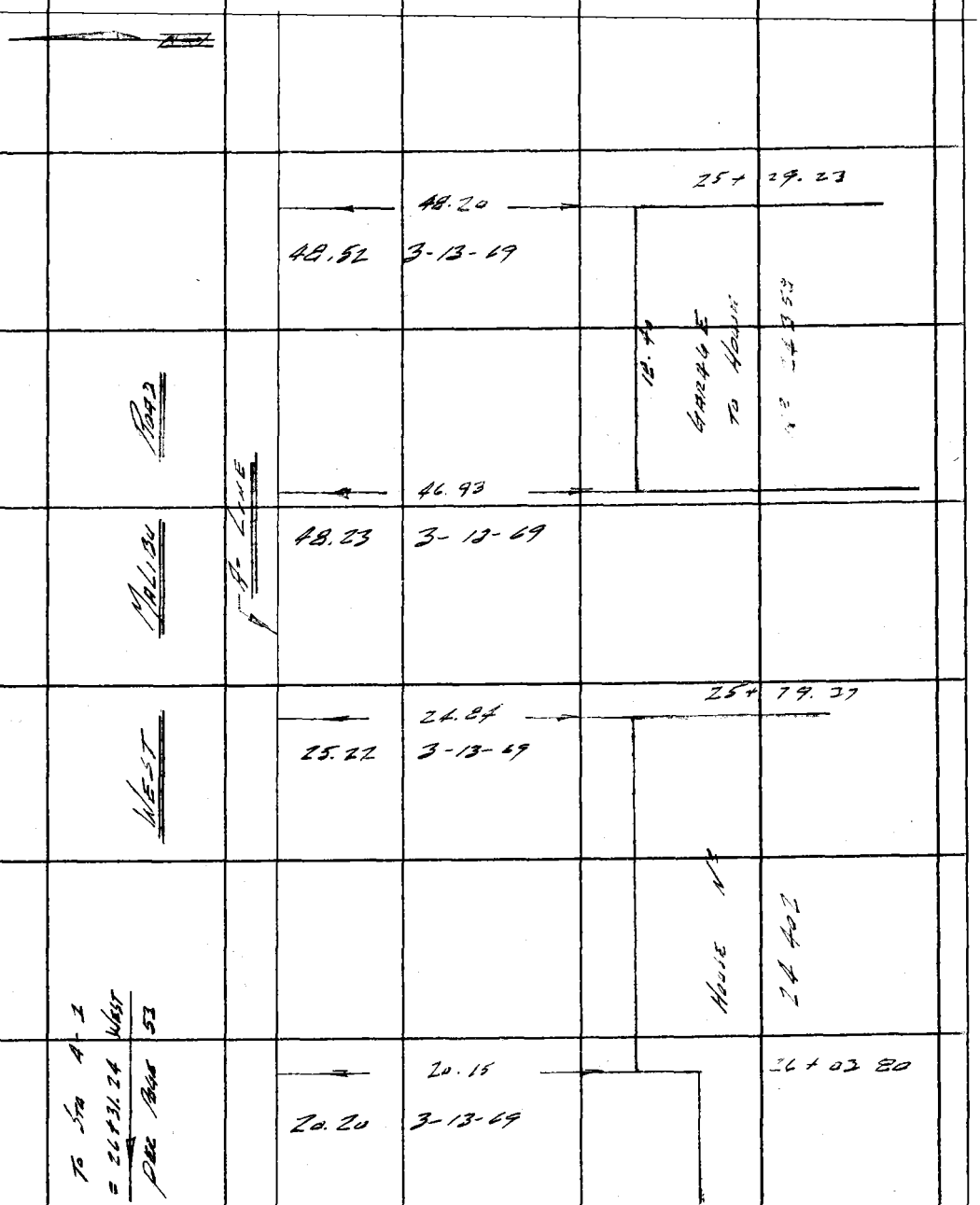
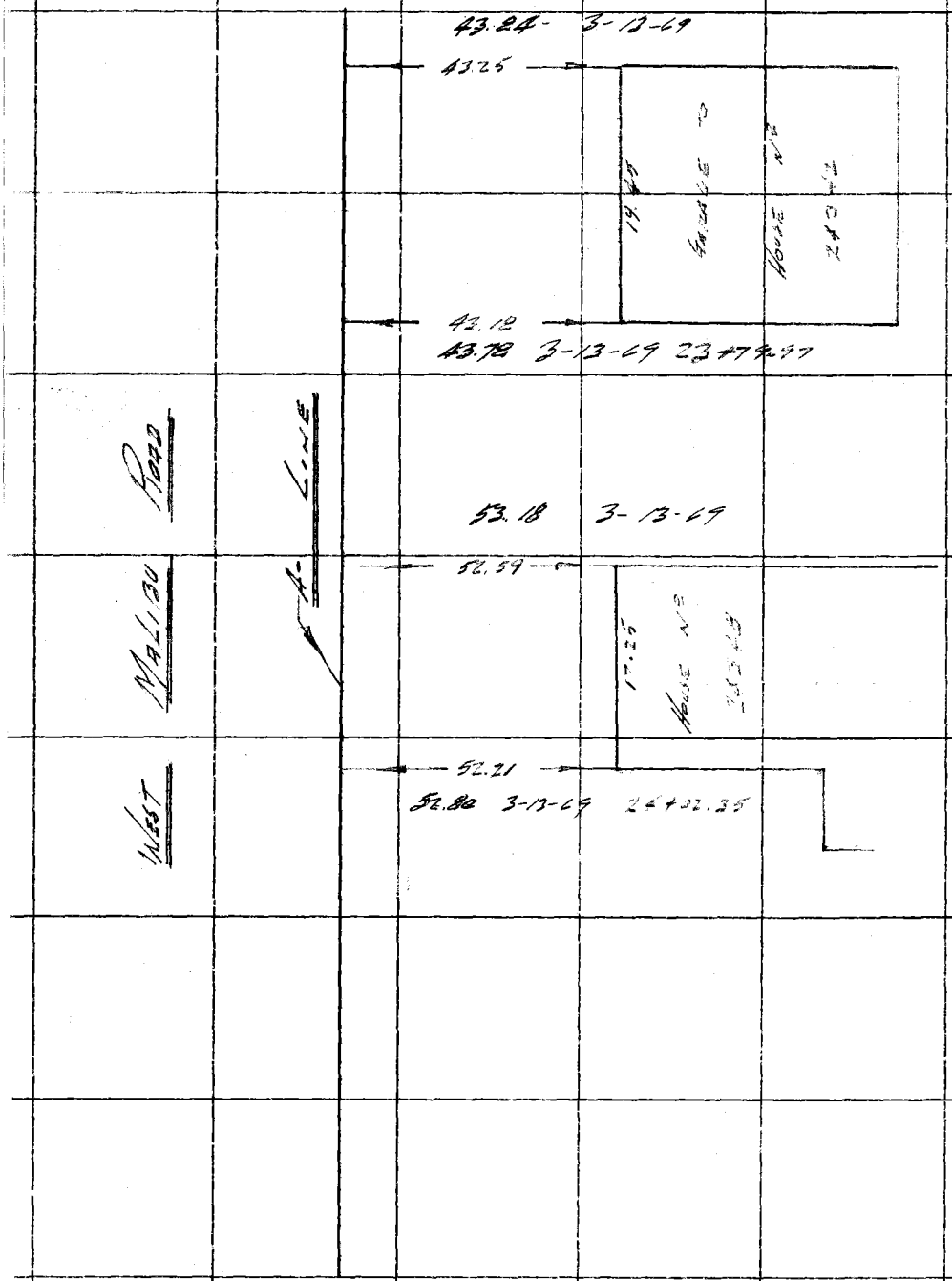
403 LOS ANGELES COUNTY ENGINEERING BLDG.



76F309S CE#310 3-68

F. B. 3286 PG. 76



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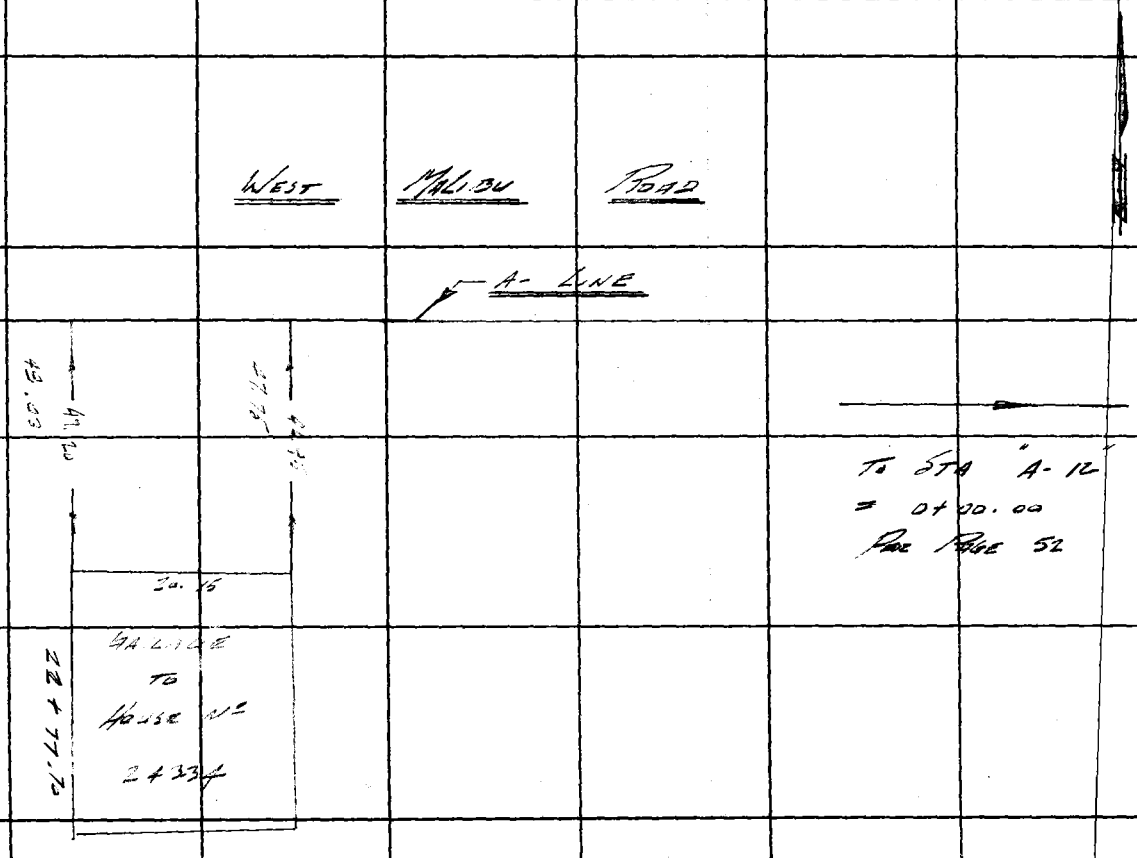

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of
JN Tape 33 Std °F
Surveyed by
Notes
Indexed G. J. GALLI

F.B. 1264 PG. 77

Profile No.	Notes Red	Plotted	Job No. 2021.81	Division No. 11	F.B. 3266 Pg. 79
	Date	Date	Survey of AMARILLO BEACH LANDSLIDE		
X-Sec. No.	Notes Chkd.	Checked	Survey by LWA	Notes LWA	Date 2-13-69
	Date	Date	Map No.	Indexed C. J. GALLI	Date FEB 17 '69

J.N. 2021.81

AMARILLO BEACH LANDSLIDE

RE-RUN OF LEVELS

STATION	B.S.	H.I.	F.S.	ELEV.
				2-13-69
			LWA	
			JONES	
		MANLEY		

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76-L298 CE 307 3-61

76-L298 CE 307 3-61

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STATION	B. S.	H. I.	F. S.	ELEV.		
A.B. #2	3183	21 505		18 322	A.B. #2 EL =	18.322
T.P.	7347	25 327	3 525	17 980		
T.P.	6503	27 632	4 198	21 127		
T.P.	7307	30 716	4 223	23 409		
A-12	7915	35 359	3 272	27 444		
A-11			7 241	28 118	6.535 + 0.706 =	7.241
A-10 B Aux 1			5377	29 982		
A-10 A Aux 2	10 023	40 593	4789	30 570	*	
TP	8745	48 928	0410	40 183		
B-2	11737	57 501	3164	45 764		
B-3			6146	51 355		
B-4	10 850	65 170	3 181	54 320		
B-5			2 515	62 655		
A10A Aux 2	4817	35 387		30 570	*	
A-10			7621	27 766	6.070 + 1.551 =	7.621
A-9	5515	34 336	6 544	28 823		
A-8	4325	32 696	5 967	28 371		
A-7			6980	25 716	5.921 + 1.059 =	6.980
T.P.	4150	30 925	5 921	26 775		
A6A			7 978	22 947	5.018 + 2.960 =	7.978
A-6			7 184	23 741	6.484 + 0.700 =	7.184

SAME

F.B. 3286 PG. 80

Job No. 2021.21 Division No. 11 Notes Red ____ Plotted ____ Profile ____

Survey of AMARILLO BEACH LANDSLIDE Date ____ Date ____ No. ____ X-Sec. ____

Survey by C. J. GALLI Notes ____ Notes Chkd. ____ Checked ____ No. ____

Indexed ____ Date ____ Date ____

76-L298 CE 307 3-61

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STATION	B. S.	H. I.	F. S.	ELEV.		
		30925				
	4764	29205	6484	24441		
A-5			5728	23477	5.208 + 0.520	= 5.728
T.P.	6476	30473	5208	23997		
A4A			6705	23768	6.205 + 5.000	= 6.705
A-4			5114	25359	4.868 + 0.246	= 5.114
T.P.	5737	32063	4147	26326		
A3			4313	27750	4.023 + 0.290	= 4.313
T.P.	5014	33054	4023	28040		
A-2B			5124	27930		
A2A			5.053	28001	4.507 + 0.546	= 5.053
T.P.	4410	33621	3843	29211		
A-2C			4216	29405		
A2			4060	29561	3.785 + 0.275	= 4.060
A-1			3514	30107		

Profile No. ____ Notes Red ____ Plotted ____ Job No. ____ Division No. 11 F.B. 3286 Pg. 81
X-Sec. No. ____ Date ____ Date ____ Survey of Alpine Beach Landslide
Notes Chkd. ____ Checked ____ Survey by Lind Notes Lind Date 2-13-69
Date ____ Date ____ Map No. ____ Indexed C. J. GALLI Date ____

Notes Ck'd by	Survey of Amarillo Beach Slide
Map No.	JN 0021.81 Tape Std °F
Office Work	Surveyed by LIND
Checked	Notes LIND Date 2-13-69
Date	Indexed C. J. GALLI FEB 17 '69

F. B. 236 PG. 83

J.N. 0021.81

AMARILLO BEACH LANDSLIDE

HORIZONTAL MOVEMENT

STUDY

2-13-69

LIND

JONES

MANLEY

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16F309S CE#310 3-68

F. B. 3266 PG. 84

A- LINE

2-13-69

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMT.	L./R.	NOTES			
A-12	A-1		0+00.00	0.00			TEMP = 64°		
		A-11	0+62.26	0.22	L.	62.27	LEV	=	62.26
		A-10 B AUX 1	1+46.98	4.23	L.	84.73	LEV	=	84.72
		A-10 A AUX 2	2+68.23	3.46	L.	121.27	LEV	=	121.25
		A-10	4+09.12	1.10	L.	140.91	LEV	=	140.89
		A-9	5+61.87	0.85	L.	152.77	LEV	=	152.75
		A-8	8+65.39	1.35	L.	303.52	LEV	=	303.52
		A-7	11+47.64	1.50	L.	282.27	LEV	=	282.25
		A-6A	12+70.82	0.86	L.	123.20	LEV	=	123.18
		A-6	14+32.64	1.54	L.	161.84	LEV	=	161.82
		A-5	16+71.09	2.82	L.	236.48	LEV	=	236.45

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76F309S CE#310 3-68

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A- LINE 2-13-69

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET Amt	OFFSET L/R	NOTES		
A-12	A-1					TEMP. = 64°		
		A-4A	17+42.15	3.09	L.	71.07	LEV =	71.06
		A-4	18+24.92	0.02	R.	82.78	LEV =	82.77
		A-3	22+06.51	0.00		381.64	LEV =	381.59
		A-2B	23+00.05	0.19	L.	93.55	LEV =	93.54
		A-2A	24+10.88	2.85	L.	110.82	LEV =	110.83
		A-2C	25+24.19	0.13	L.	113.32	LEV =	113.31
		A-2	25+53.72	0.00		29.53	LEV =	29.53
		A-1	26+31.41	0.00		77.70	LEV =	77.69

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of Sugarville Branch
JN 00216 Tape 190 Std 84 °F
Surveyed by LIND
Notes LIND Date 2-13-69
Indexed C. J. GALLI

F.B. 3286 PG. 85

F. B. 3286 PG 86

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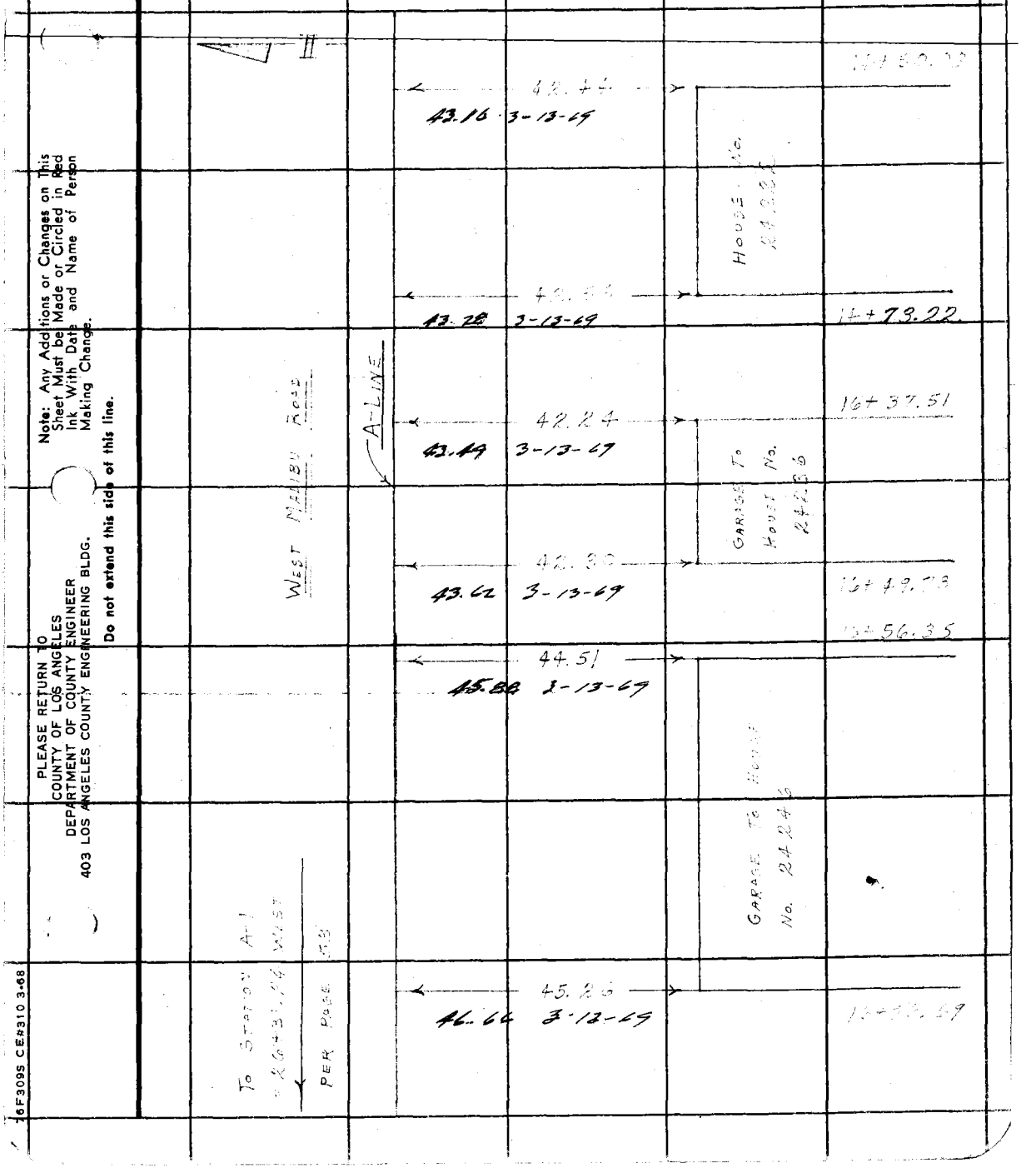
On Line From	On Line To	Sight on Station	B- Line Plus	Offset Amt.	L/R		7-13-69 Notes	
B-1	B-8		0+00.00	0.00			TEMP = 68°	
		B.O.T.	0+93.54	0.00		96.03	@ 13°03' =	93.54
		B-2	0+97.69	0.23	L	4.05	@ LEV =	4.05
		B-3	1+61.39	1.17	L	67.86	@ LEV =	67.85
		B-4	2+38.42	1.45	L	77.04	@ LEV =	77.03
		B.O.T.	3+00.27	0.00		62.20	@ 6°20' =	61.85
		B-5	3+20.22	0.41	L	19.96	@ LEV =	19.95

Notes Ck'd by	Survey of AMARILLO BEACH	F. B. 3286 Pg. 87
Map No.	JN 0021.81 Tape 190 Std 84 °F	
Office Work	Surveyed by LIND	
Checked	Notes JONES Date 2-14-69	
Date	Indexed C. J. GALLI	



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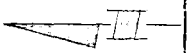
76F309S CE#310 3-68

F. B. 9995 Pg. 88



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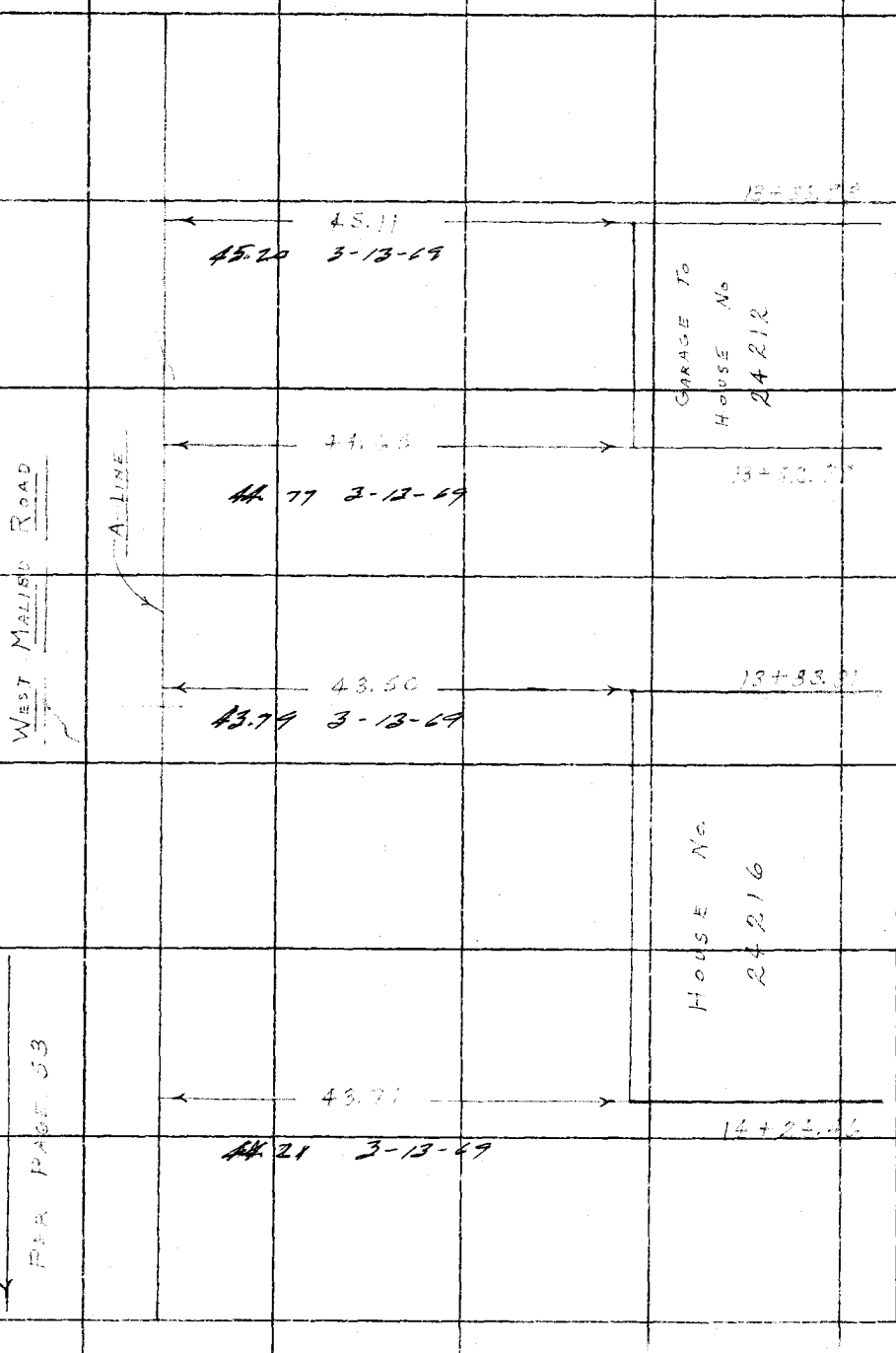

Profile	Notes Red	Plotted	Job No. 0021.81	Division No. 11	F.B. 3286	Pg. 89
No.	Date	Date	Survey of Amarillo Beach Landslide			
X-Sec.	Notes Chkd.	Checked	Survey by Lind	Notes Lind	Date 2-27-69	
No.	Date	Date	Map No.	Indexed C.L. Gadd	Date [illegible] 5 '69	

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STATION	B.S.	H.I.	F.S.	ELEV.

J.N. 0021.81

AMARILLO BEACH LANDSLIDE

RE-RUN OF LEVELS

A-LINE ONLY

2-27-69

LIND

JONES

MANLEY

FISHER [illegible]

76-L298 CE 307 3-61

76-L298 CE 307 3-61

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F.B. 3266 PG. 90 | Job No. 1021.81 | Division No. 11 | Notes Red ___ Date ___ | Plotted ___ Date ___ | Profile No. ___
Survey of ___ | Notes ___ Date ___ | Notes Chkd. ___ Date ___ | Checked ___ Date ___ | X-Sec. No. ___
Survey by ___ | Indexed ___

STATION	B.S.	H.I.	F.S.	ELEV.		
A.B. #2	2842	21 170		18.322	A.B. #2 EL = 18.322	
TP	5462	24 719	1913	19257		
TP	5962	27 457	3225	21494		
TP	8147	32 856	2748	24709		
A-12			5393	27463		
A-11			4720	28 136	4.014 + 0.706 =	4.720
A 6 B Aux 2	5219	35 193	2832	29974		
A 6 A Aux 2			4623	30 570		
A-10			7411	27 782	5.860 + 1.551 =	7.411
A-9	4752	33 598	6345	28 848		
A-8	3509	31 901	5206	28 392		
A-7			6187	25 714	5.128 + 1.059 =	6.187
A-6A			9045	22 856	6.085 2.960 =	
TP	2753	28 569	6085	25 810		
A-6			5023	23 546		
TP	6722	29 788	5503	23 066		
A-5			6498	23 290	5.978 + 0.520 =	6.498
A-4A			6136	23 652		
A-4			4413	25 375		
TP	5230	31 839	3179	26 609		
A-3			4070	27 769	3.780 + 0.290 =	4.070
A-2 B	5058	32 851	4046	27 793		

76-L298 CE 307 3-61

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STATION	B.S.	H.I.	F.S.	ELEV.		
		32 851				
A-2A			4928	27 923	4.332 + 0.546 =	4.928
A 2C			3559	29 292		
A-2			3263	29 588	2.988 + 0.275 =	3.263
A-1			2718	30 133	STA A-1	

Profile Notes Red ____ Plotted ____ Job No. 00211.91 Division No. 11 F.B. 3286 Pg. 91
No. ____ Date ____ Date ____ Survey of Amarillo Beach Land Sub 2C
X-Sec. Notes Chkd. ____ Checked ____ Survey by LIND Notes LIND Date 2-27-69
No. ____ Date ____ Date ____ Map No. ____ Indexed B.L. GALLI Date ____

Notes Ck'd by	Survey of Amarille Beach Slide
Map No.	JN 0021.81 Tape 190 Std 34 °F
Office Work	Surveyed by Lind
Checked	Notes Lind Date 2-27-69
Date	Indexed B.J. GALLI MAR 5 '69

F. B. 3286 PG. 93

JN. 0021.81

AMARILLE BEACH LANDSLIDE

HORIZONTAL MOVEMENT STUDY

2-27-69

LIND
JONES
MANLEY
FISHER LD.

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F309S CE#310 3-68

F.B. 3286 PG. 94

A- LINE

2-27-69

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFF SET AMT.	L/R	NOTES		
						T= 62		
A-12	A-1		0 + 00.00	0.00				
		A-11	0+62.27	0.22	L.	62.28	LEV =	62.27
		A-10B Aux 1	1+46.96	4.33	L.	84.70	LEV =	84.69
		A-10A Aux 2	2+68.22	3.59	L.	121.28	LEV =	121.26
		A-10	4+09.11	1.10	L.	140.91	LEV =	140.89
		A-9	5+61.86	0.93	L.	152.77	LEV =	152.75
		A-8	8+65.37	1.47	L.	303.55	LEV =	303.51
		A-7	11+47.65	1.66	L.	282.32	LEV =	282.28
		A-6A	12+70.81	0.88	L.	123.18	LEV =	123.16
		A-6	14+32.64	2.08	L.	161.85	LEV =	161.83
		A-5	16+71.08	3.87	L.	238.48	LEV =	238.44

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76F309S CE#310 3-68

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On Line From	To	Sight on Station	Plus	Offset Amt	L/R	Notes		
A-12	A-1							
		A-4A	17+42.12	4.24	L.	71.05	Lev =	71.04
		A-4	18+24.82	0.02	R.	82.71	Lev =	82.70
		A-3	22+06.43	0.03	R.	381.66	Lev =	381.61
		A-2B	22+99.90	0.56	L.	93.48	Lev =	93.47
		A-2A	24+10.71	3.14	L.	110.93	Lev =	110.91
		A-2C	25+23.98	0.33	L.	113.29	Lev =	113.27
		A-2	25+53.52	0.00		29.54	Lev =	29.54
		A-1	26+31.20	0.00		77.69	Lev =	77.68

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of Aymarillo Brown Slide
JN 002181 Tape 190 Std 84 °F
Surveyed by Lino
Notes Lino Date 2-27-69
Indexed G.T. GALLI

F. B. 3286 PG. 95

Profile No.	Notes Red	Plotted	Job No. 0021.81	Division No. 11	F.B. 3286 PG. 97
	Date	Date	Survey of Amarillo Beach Landslide		
X-Sec. No.	Notes Chkd.	Checked	Survey by Lind	Notes Lind	Date 3-13-69
	Date	Date	Map No.	Indexed C.L. GALLI	Date [illegible] 17 '69

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STATION	B.S.	H.I.	F.S.	ELEV.	
					W.N. 0021.81 AMARILLO BEACH LANDSLIDE
					RE-RUN OF LEVELS
					3-13-69
					LIND JONES
					MANLEY FISHER L.O.

76-L298 CE 307 3-61

76-L298 CE 307 3-61

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
A.B.# 2	3090	21 412		18 322		
T.P.	6238	25 520	2130	19 282		
T.P.	7115	29 194	3 441	22 079		
A-12	8810	36 274	1730	27 464		
A-11			8134	28 140		
A10 B Aux 1			6311	29 963		
A10A Aux 2			5782	30 492	*	
TP	11 548	46 967	0855	35 419		
B-2	11335	57 101	1201	45 766		
B-3			5798	51 303		
B-4	11 118	65 400	2819	54 282	Same	
B-5			2730	62 670		
A10A Aux2	4390	34 882		30 492	*	
A-10			7100	27 782		
A-9	4840	33 701	6021	28 861		
A-8	3204	31 600	5305	28 396		
A-7			5901	25 699		
A-6A			8795	22 805		
T.P.	3095	28 981	5714	25886		
A-6			5480	23 501		

F.B. 3286 PG. 98 Job No. 0021.61 Division No. 11 Notes Red Plotted Profile
Survey of Amarillo Beach Landslide Date Date No. X-Sec.
Survey by Lind Notes Lind Notes Chkd. Checked No.
Indexed C.D. GALLI Date Date Date

76-L298 CE 307 3-61

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Do not extend notes this side of this line.

STATION	B.S.	H.I.	F.S.	ELEV.		
		28 981				
A-5			5750	23 231		
A-4A	7206	30 667	5520	23 461		
A-4			5293	25 374		
T.P.	6185	32 342	4510	26 157		
A-3			4570	27 772		
A-2B			4641	27 701		
A2A			4478	27 864		
A2C	4470	33 662	3150	29 192		
A-2			4084	29 578		
A-1			3534	30 128		

Profile Notes Red ____ Plotted ____ Job No. 002161 Division No. 11 F.B. 3286 Pg. 99
No. ____ Date ____ Date ____ Survey of Apparicio Beach Lan Dscrpt
X-Sec. Notes Chkd. ____ Checked ____ Survey by Lind Notes Lind Date 3-13-68
No. ____ Date ____ Date ____ Map No. ____ Indexed C.L.GALLI Date ____

Notes Ck'd by	Survey of Amarillo Beach Slide
Map No.	JN 0021.81 Tape 192 Std 24 °F
Office Work	Surveyed by Lind
Checked	Notes Lind Date 3-12-69
Date	Indexed C.L. GALLI MAR 17 '69

F. B. 3286 PG. 101

W.N. 0021.81

AMARILLO BEACH LANDSLIDE

HORIZONTAL MOVEMENT STUDY

3-12-69

LIND

JONES

MANLEY

FISHER L.O.

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76F3095 CE#310 3-68

F. B. 3246 PG. 162

A- LINE

3-12-49

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMT.	OFFSET L/R		NOTES	
A-12	A-2		0+00.00				T= 64°	
		A-11	0+62.28	0.22	L.	62.29	LEV =	62.28
		A 10 B Aux 1	1+46.98	4.44	L.	84.71	LEV =	84.70
		A 10 A Aux 2	2+68.27	3.71	L.	121.31	LEV =	121.29
		A-10	4+09.14	1.21	L.	140.89	LEV =	140.87
		A-9	5+61.89	0.95	L.	152.77	LEV =	152.75
		A-8	8+65.42	1.52	L.	303.57	LEV =	303.53
		A-7	11+47.69	1.75	L.	282.31	LEV =	282.27
		A-6A	12+70.82	0.86	L.	123.15	LEV =	123.13
		A-6	14+32.64	2.29	L.	161.84	LEV =	161.82
		A-5	16+71.16	4.23	L.	238.55	LEV =	238.52

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76F3095 CE#310 3-68

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A- LINE 3- 12- 69

ON LINE FROM	ON LINE TO	Sight on Station	Plus	Offset Amt.	Offset L/R		Notes	
A-12	A-2						T= 64°	
		A-4A	17+42.20	4.64	L.	71.05	Lev =	71.04'
		A-4	18+24.89	0.02	R.	82.70	Lev =	82.69'
		A-3	22+06.51	0.00		381.67	Lev =	381.62'
		A-2 B	22+99.96	0.75'	L.	93.46	Lev =	93.45'
		A-2 A	24+10.79	3.34	L.	110.84	Lev =	110.83'
		A 2 C	25+24.06	0.45	L.	113.28	Lev =	113.27
		A-2	25+53.60	0.00		29.54	Lev =	29.54'
		A-1	26+31.29	0.00		77.70	Lev =	77.69

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of Alameda Street Line
JN 407181 Tape 192 Std 34 °F
Surveyed by Lino
Notes Lino Date 3-12-69
Indexed O.L. GALLI

F. B 3786 PG. 103

F. B. 3246 PG. 104

B- LINE 3- 12- 69

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT	OFFSET L/R	NOTES
B-1	B-1		0+00.00			TEMP = 58°
		POT	0+93.52	0.00		96.22 @ 13°36' = 93.52
		B-2	0+97.59	0.25	L.	4.07 @ LEV = 4.07
		B-3	1+61.32	1.25	L.	67.81 @ LEV = 67.80
		B-4	2+38.33	1.52	L.	77.02 @ LEV = 77.01
		POT	3+00.23	0.00		62.25 @ 5°59' = 61.90
		B-5	3+20.19	0.45	L.	19.96 @ LEV = 19.96

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Profile No.	Notes Red	Plotted	Job No. 0021.81	Division No. 11		F.B. 3266	Pg. 105
	Date	Date	Survey of AMARILLO BEACH LANDSLIDE				
X-Sec. No.	Notes Chkd.	Checked	Survey by LIND	Notes LIND	Date 3-26-69		
	Date	Date	Map No.	Indexed C. J. GALLI	Date APR 2 '69		

W. N. 0021.81

AMARILLO BEACH LANDSLIDE

RE-RUN OF LEVELS

STATION	B. S.	H. I.	F. S.	ELEV.
		LND	3-26-69	
		WANEJ		
		MANLEY		
	FISHER			

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76-L298 CE 307 3-61

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F.B. 3246 PG. 66 Job No. 0000.91 Division No. 11 Notes Red ____ Plotted ____ Profile ____
Survey of Alameda Street Lancaster Date ____ Date ____ No. ____ X-Sec. ____
Survey by Lind Notes ____ Notes Chkd. ____ Checked ____
Indexed C. J. G. Date ____ Date ____ Date ____ No. ____

STATION	B. S.	H. I.	F. S.	ELEV.		
A.B. # 2	3345	21 667		18 322		
T.P.	5631	24 858	2640	19 027		
T.P.	6373	27 918	3313	21 545		
T.P.	7247	34 454	1311	26 607		
A-12			6992	27 462		
A-11			6325	28 129	5.619 + 0.706 =	6.325
A-10B Aux 1			4507	29 947		
A-10A Aux 2	3273	34 342	3925	30 469		
A-10			6564	27 778	5.013 + 1.551 =	6.564
A-9	4222	32 745	5425	28 857		
A-8	3456	31 840	5361	28 384		
A-7			6159	25 681	5.100 + 1.059 =	6.159
TP	2944	29 684	5100	24 740		
A-6A			6896	22 788	3.936 + 2.960 =	6.896
A-6			6198	23 486	5.498 + 0.700 =	6.198
T.P.	4318	28 504	5498	24 186		
A-5			5281	23 223	4.761 + 0.520 =	5.281
T.P.	6339	30 082	4761	23 743		
A-4A			6623	23 459	6.123 + 0.500 =	6.623
A-4			4703	25 379	4.457 + 0.246 =	4.703

76-L298 CE 307 3-61

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STATION	B. S.	H. I.	F. S.	ELEV.		
		30 082				
TP	5423	32 546	3459	26 623		
A-3			4776	27 770	4.486 + 0.290 =	4.776
A-2B	5161	32 849	4858	27 688		
A-2A			4989	27 860	4.443 + 0.546 =	4.989
A 2C			3662	29 187		
A-2			3266	29 583	2.991 + 0.275 =	3.266
A-1			2718	30 131	A-1	

Profile Notes Red ____ Plotted ____ Job No. 0021.61 Division No. 11 F.B. 3286 Pg. 167
No. ____ Date ____ Date ____ Survey of Amarillo Beach Land Sheet
X-Sec. Notes Chkd. ____ Checked ____ Survey by Lind Notes Lind Date 3-28-59
No. ____ Date ____ Date ____ Map No. ____ Indexed C. L. [illegible] Date ____

Notes Ck'd by	Survey of Amarillo Beach Slide
Map No.	JN 0021.81 Tape 190 Std 24 °F
Office Work	Surveyed by Lind
Checked	Notes Lind Date 3-27-69
Date	Indexed C. J. GALLI APR 2 '69

F. B. 3286 PG. 109

JN 0021.81

Amarillo Beach Landslide

Horizontal Movement Study

3-27-69

Lind

Jones

Manley

Fisher L.O.

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76F309S CE#310 3-68

F. B. 3266 PG. 110

A- LINE 3-27-69

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMT	L./R.		NOTES		
A-12	A-3		0+00.00				TEMP.	=	62
		A-11	0+62.27	0.23	L.	62.27	LEV.	=	62.27
		A-10B Ang 1	1+46.96	4.50	L.	84.70	LEV	=	84.69
		A 10A Ang 2	2+68.22	3.73	L.	121.28	LEV	=	121.26
		A-10	4+09.11	1.22	L.	140.91	LEV	=	140.89
		A-9	5+61.86	0.97	L.	152.77	LEV	=	152.75
		A-8	8+65.37	1.52	L.	303.55	LEV	=	303.51
		A-7	11+47.65	1.75	L.	282.32	LEV	=	282.28
		A-6A	12+70.81	0.26	L.	123.18	LEV	=	123.16
		A-6	14+32.64	2.29	L.	161.85	LEV	=	161.83
		A-5	16+71.08	4.23	L.	238.48	LEV	=	238.44

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A- LINE "CONT." 3-27-69

ON LINE FROM	TO	SIGHT ON STATION	PLUS	OFFSET AMT	L./R.		NOTES
A-12	A-1	A-4A	17+42.12	4.64	L.	71.05	T= 62 LEV = 71.04 ✓
		A-4	18+24.82	0.02	R.	82.71	LEV = 82.70 ✓
		A-3	22+06.43	0.00		381.66	LEV = 381.61 ✓
		A-2B	22+99.90	0.75	L.	93.47	LEV = 93.47 ✓
		A-2A	24+10.71	3.34	L.	110.83	LEV = 110.81 ✓
		A-2C	25+23.98	0.46	L.	113.29	LEV = 113.27 ✓
		A-2	25+53.52	0.00		29.54	LEV = 29.54 ✓
		A-1	26+31.20	0.00		77.69	LEV = 77.68 ✓

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of Amarillo Beach Blvd F.B. 3286 PG. 111
JN 0021.51 Tape 140 Std 84 °F
Surveyed by LIND
Notes LIND Date 3-27-69
Indexed C. J. GALLI

F.B. 3296 Pg. 113

Profile No.	Notes Red	Plotted	Job No. 002181	Division No. 11	
	Date	Date	Survey of AMARILLO BEACH LANDSLIDE		
X-Sec. No.	Notes Chkd.	Checked	Survey by LH2	Notes LH2	Date 4-11-69
	Date	Date	Map No.	Indexed C. J. GALL	Date APR 18 '69

STATION	B.S.	H.I.	F.S.	ELEV.	
					L.H. 002181
					AMARILLO BEACH LANDSLIDE
					RE-RUN OF LEVELS
				4-11-69	
			LH2		
		JONES			
		MANLEY			
	FISHER				

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76-L296 CE 307 3-61

76-L298 CE 307 3-61

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Do not extend notes this side of this line.

STATION	B.S.	H.I.	F.S.	ELEV.		
A.B. #2	2 908	21 230		18 322	A.B. #2 EL =	18.322
TP	6 141	25 668	1703	19 527		
TP	7 218	24 838	3048	22 620		
A-12	8 481	35 952	2367	27 471		
A-11			7846	28 106	7.104 + 0.706 = 7.846	
A-10 B Aux 2			5997	29 955		
A-10A Aux 2	10 100	40 584	5468	30 484	*	
TP	9 260	49 277	0567	40 017		
B-2	11 305	57 069	3513	45 764		
B-3			5772	51 297	SAME	
B-4	11 950	66 213	2806	54 263		
B-5			3540	62 673		
A10 A Aux 2	4 407	34 891		30 484	*	
A-10			7 101	27 790	5.550 + 1.551 = 7.101	
A-9	5 292	34 163	6020	28 871		
A-8	4 042	32 435	5770	28 393		
A-7			6749	25 686	5.690 + 1.059 = 6749	
TP	4 200	30 945	5690	26 745		
A-6A			8 156	22 789	5.196 + 2.960 = 8.156	
A-6			7 445	23 500	6.745 + 7.000 = 7.445	
TP	3342	27 542	6745	24 200		

F.B. 3286 Pg. 114 Job No. 0021.81 Division No. 11 Notes Red Plotted Profile
Survey of AMARILLO BEACH LAND SLIDE Date Date No. X-Sec.
Survey by LIND Notes LIND Notes Chkd. Checked
Indexed C. J. GALLI Date Date Date No.

76-L298 CE 307 3-61

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
		27 542				
A-5			4305	23 237	3.785 + 0.520 = 4.305	
A-4A			4073	23 469	3.573 + 0.500 = 4.073	
T.P.	5978	29 947	3573	23 969		
A-4			4.558	25 389	4.312 + 0.246 = 4.558	
T.P.	5208	31 834	3321	26 626		
A-3			4054	27 780	3.764 + 0.290 = 4.054	
A - 2B	4980	32 671	4143	27 691		
A 2A			4807	27 864	4.261 + 0.546 = 4.807	
A - 2C			3479	29 192		
A-2			3082	29 589	2.807 + 0.275 = 3082	
A-1			2531	30 140	A-1	

Profile No. ____ Notes Red ____ Plotted ____ Job No. 102181 Division No. 11 F.B. 3286 Pg. 115
Date ____ Date ____ Survey of Amarillo Beach Land Slide
X-Sec. No. ____ Notes Chkd. ____ Checked ____ Survey by Lind Notes Lind Date 4-11-69
Date ____ Date ____ Map No. ____ Indexed C. J. GALLI Date ____

Notes Ck'd by	Survey of Amarillo Beach Slide
Map No.	JN 0021.91 Tape 190 Std 84 °F
Office Work	Surveyed by LHD
Checked	Notes LHD Date 4-14-69
Date	Indexed C. J. GALLI APR 18

F. B. 3236 PG. 117

J.N. 0021.91

AMARILLO BEACH LANDSLIDE

HORIZONTAL MOVEMENT STUDY

4-10-69

LHD

JONES

MANLEY

FISHER CO.

Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

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16F309S CE#310 3-68

A- LINE

4-10-69

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT	OFFSET L/R		NOTES	
A-12	A-1		0+00.00				T=68	
		A-11	0+62.28	0.23	L.	62.29	LEV =	62.28
		A-10 3 AUX 1	1+46.96	4.53	L.	84.69	LEV =	84.68
		A10 7 AUX 2	2+68.27	3.79	L.	121.32	LEV =	121.31
		A-10	4+09.15	1.23	L.	140.89	LEV =	140.88
		A-9	5+61.91	0.97	L.	152.78	LEV =	152.76
		A-8	8+65.44	1.56	L.	303.56	LEV =	303.53
		A-7	11+47.77	1.75	L.	282.36	LEV =	282.33
		A-6A	12+70.90	0.86	L.	123.14	LEV =	123.13
		A-6	14+32.73	2.29	L.	161.85	LEV =	161.83
		A-5	16+71.26	4.23	L.	238.55	LEV =	238.53

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76F3095 CE#310 3-68

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Do not extend this side of this line.

A- LINE 4-10-69

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET Amt	OFFSET L/R		NOTES	
A-12	A-1						TEMP = 68°	
		A-4A	17+42.30	4.64	L.	71.05	LEV =	71.04
		A-4	18+24.98	0.08	R	82.69	LEV =	82.68
		A-3	22+06.63	0.07	R	381.69	LEV =	381.65
		A-2B	23+00.09	0.78	L.	93.47	LEV =	93.46
		A-2A	24+10.93	3.36	L.	110.85	LEV =	110.84
		A-2C	25+24.21	0.46	L.	113.29	LEV =	113.28
		A-2	25+53.74	0.00		29.53	LEV =	29.53
		A-1	26+31.42	0.00		77.69	LEV =	77.68

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of Amarillo Beach Slide
JN 002181 Tape 190 Std 84 °F
Surveyed by LHD
Notes LHD Date 4-10-69
Indexed C. J. GALLI

F. B. 3286 PG. 119

F.B. 3286 PG. 120

B- LINE — 4-11-69

On Line From	On Line To	Sight on Station	Pluss	Offset Amt	Offset L./R.	Notes
B-1	B-8		0+00.00			TEMP=66
		Pot	0+93.51	0.00		96.26 @ 13°42' = 93.51'
		B-2	0+97.57	0.27	L.	4.06 @ LEV = 4.06'
			63.73			
		B-3	1+61.30	1.29	L.	67.80 @ LEV = 67.79
		B-4	2+38.29	1.57	L.	77.02 @ 1°12' = 76.99'
		Pot	3+00.19	0.00	L.	62.16 @ 5°29' = 61.90'
		B-5	3+20.14	0.49	L.	19.95 @ LEV = 19.95'

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Notes Ck'd by	Survey of AMARILLO BEACH LANDSLIDE
Map No.	JN 0021.81 Tape Std °F
Office Work	Surveyed by PETERSON
Checked	Notes T.C.P. Date 7-3-69
Date	Indexed C. J. GALLI JUL - 9 '69

F. B. 3286 PG. 121

J.N. 0021.81

AMARILLO BEACH LANDSLIDE

HORIZONTAL MOVEMENT STUDY

7-2-69

PETERSON T.C.

MANLEY

MUNOZ

BLANCHARD

Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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76F309S CE#310 3-68

F. B. 3276 PG. 122

A-LINE

7-2-69

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMT	L/R	NOTES T=82		
A-12	A-1		0+00.00					
		A-11	0+62.28	0.00		62.28	@ LEV =	62.28 ✓
		A 10 B AUX 2	1+47.06	4.60	L	84.78	@ LEV =	84.78 ✓
		A 10A AUX 2	2+55.32	3.90	L	121.32	@ LEV	121.32 ✓
		A-10	4+09.25	1.26	L	140.87	@ LEV	140.87 ✓
		A-9	5+52.01	1.08	L	152.72	@ LEV =	152.72 ✓
		A-8	8+65.54	1.70	L	303.53	@ LEV =	303.53 ✓
		A-7	11+47.92	1.87	L	222.38	@ LEV =	222.38 ✓
		A-6A	12+71.04	0.95	L	123.12	@ LEV =	123.12 ✓
		A-6	14+32.85	2.32	L	161.81	@ LEV =	161.81 ✓
		A-5	16+71.31	4.28	L	238.46	@ LEV =	238.46 ✓

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76F3095 CE#310 3-68

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A LINE 7- -69

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMOUNT	L/R	NOTES	
A-12	A-1						
		A-4 A	17+42.35	4.68	L	71.04 @ LEV =	71.04
		A-4	18+25.05	0.02	R	82.68 @ LEV =	82.68
		A-3	22+06.64	0.06	R	381.61 @ LEV =	381.61
		A-2 B	23+00.12	0.79	L	93.48 @ LEV =	93.48
		A-2 A	24+10.96	3.39	L	110.84 @ LEV =	110.84
		A-2 C	25+24.24	0.47	L	113.28 @ LEV	113.28
		A-2	25+53.77	0.00		29.53 @ LEV =	29.53
		A-1	26+31.45	0.00		77.68 @ LEV =	77.68

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of ARNOLD BEACH LANDSLIDE
JN 0021 81 Tape Std °F
Surveyed by PETERSON
Notes T.C.P. Date 7-69
Indexed C. L. GALLI JUL - 9 '69

F. B. 3276 PG. 123

F. B 3226 PG 124

B LINE

7-3-69

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMOUNT	OFFSET L/R				
B-1	B-9		0+00.00						
		P.O.T.	0+93.51	0.06	L	95.95	@	T=72 12.54	= 9351
		B-2	0+97.57	0.27	L	4.06	@	LEV	= 4.06
			63.35					T=76	
		B-3	1+61.32	1.32	L	67.81	@	LEV	= 67.81
		B-4	2+38.26	1.60	L	76.96	@	1°17'	= 76.94
		P.O.T.	3+00.21	0.00		62.04	@	3°10'	= 61.95
		B-5	3+20.16	0.49	L	19.95	@	LEV	= 19.95

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Profile No.	Notes Red	Plotted	Job No. 0021.81	Division No. 11	F.B. 3286 Pg. 125
	Date	Date	Survey of AMARILLO BEACH LANDSLIDE		
X-Sec. No.	Notes Chkd.	Checked	Survey by PETERSON	Notes T.C.P.	Date 7-3-69
	Date	Date	Map No.	Indexed [redacted] GALLI	Date 11-9-69

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STATION	B.S.	H.I.	F.S.	ELEV.	
					JN. 0021.81 AMARILLO BEACH LANDSLIDE
					RE RUN OF LEVELS
					7-3-69 PETERSON T.C. MANLEY MUNOZ BLANCHARD

76-1298 CE 307 3-61

76-L298 CE 307 3-61

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Do not extend notes this side of this line.

STATION	B.S.	H.I.	F.S.	ELEV.		
A.B. # 1	4630	22952		18322		
T.P.	6690	26413	3229	19723		
T.P.	7538	30644	3307	23106		
A-12	7874	35337	3181	27463		
A-11			7206	28131	6.500 + 0.706 = 7,206	
A10 B AUX 1			5400	29937		
A10A AUX 2	5901	36376	4862	30475	*	
T.P.	11368	46781	0963	35413		
B-2	10170	55909	1042	45739		
B-3			4668	51241		
T.P.	10467	65186	1190	54719		
B-4			10968	54218		
B-5			2535	62651		
A10A AUX 2	3765	34240		30475	*	
A-10			6449	27792	4.897 + 1,551 = 6,448	
A-9	4795	33665	5370	28870		
A-8	3882	32265	5282	28383		
A-7	4365	30032	6598	25667	5.549 + 1.059 = 6608	
A-6A			7312	22720	4.352 + 2.960 7.312	
A-6			6522	23510	5.822 + 0.700 6522	

SAME

F.B. 3286 Pg. 124

Job No. 0021.81 Division No. 11 Notes Red Plotted Profile

Survey of AMARILLO BEACH LANDSLIDE Date Date No. X-Sec.

Survey by PETERSON Notes T.C.P. Notes Chkd. Checked No.

Indexed R.J. GALLI Date Date Date

76-1298 CE 307 3-61

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
A-6	4977	28487		23510		
A-5			5248	23239	4.728 + 0.520 = 5,248	
A-4A	7105	30571	5021	23466	4.521 + 0.500 = 5,021	
A-4			5185	25386	4.939 + 0.246 = 5,185	
T.P.	5340	31960	3951	26620		
A-3	4247	32030	4177	27783	3.887 + 0.290 = 4.177	
A-2B			4341	27689		
A-2A	5416	33279	4167	27863	3.621 + 0.546 = 4.167	
A-2C			4089	29190		
A-2			3677	29602	3.402 + 0.275 = 3.677	
A-1			3131	30148		

Profile Notes Red ____ Plotted ____ Job No. 0021-81 Division No. ____ F.B. 3286 Pg. 127
No. ____ Date ____ Date ____ Survey of AMAROLLO BEACH LANDSLIDE
X-Sec. ____ Notes Chkd. ____ Checked ____ Survey by PETERSON Notes T.C.P. Date 7-3-69
No. ____ Date ____ Date ____ Map No. ____ Indexed C. T. GALL Date JUL 9 '69

Notes Ck'd by	Survey of A.B. LANDSLIDE
Map No.	JN 0021.81 Tape 190 Std 84 °F
Office Work	Surveyed by LIND
Checked	Notes T.C.P. Date 9-30-69
Date	Indexed CL.J. GAELI OCT 7 '69

F.B. 3286 PG. 129

J.N. 0021.81

AMARILLO BEACH LANDSLIDE

HORIZONTAL MOVEMENT STUDY

9-30-69

LIND

PETERSON

SWANN

BLANCHARD

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7553098 CE #310 9-67

A LINE 9-30-69

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMOUNT	L/R	NOTES		
A12	A1		0+00.00			T= 70		
		A-11	0+62.28	0.22	L	62.29 @ LEV	=	62.28
		A-10 AUX 1	1+46.96	4.53	L	84.69 @ LEV	=	84.68
		A-10 AUX 2	2+68.23	3.95	L	121.28 @ LEV	=	121.27
		A-10	4+09.~~22~~ 15	1.24	L	140.93 @ LEV	=	140.92
		A-9	5+61.9~~7~~ 0	0.97	L	152.76 @ LEV	=	152.75
		A-8	8+65.4~~7~~ 0	1.62	L	303.53 @ LEV	=	303.50
		A-7	11+47.78	1.84	L	282.34 @ LEV	=	282.31
		A-6A	12+70.8~~7~~ 0	0.94	L	123.10 @ LEV	=	123.09
		A-6	14+32.~~64~~ 58	2.19	L	161.79 @ LEV	=	161.78
		A-5	16+71.~~42~~ 06	4.22	L	238.50 @ LEV	=	238.48

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76F3098 CE#310 9-67

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Do not extend this side of this line.

A LINE 9-30-69

ON LINE FROM	TO	SIGHT ON STATION	PLUS	OFFSET AMOUNT	L/R	NOTES			
A12	A1					T= 70°			
		A-4A	17+42.1	4.55	L	71.06 @	Lev	=	71.05
		A-4	18+24.78	0.08	R	82.68 @	Lev	=	82.67
		A-3	22+06.47	0.05	R	381.72 @	Lev	=	381.69
		A-2B	22+99.90	0.82	L	93.44 @	Lev	=	93.43
		A-2A	24+10.73	3.40	L	110.84 @	Lev	=	110.83
		A-2C	25+24.00	0.48	L	113.28 @	Lev	=	113.27
		A-2	25+53.50	0.00		29.50 @	Lev	=	29.50
		A-1	26+31.28	0.00		77.73 @	Lev	=	77.72

Noted Ck'd by
Map No.
Office Work
Checked
Date

Survey of [illegible]
Job [illegible] Tape [illegible] Std [illegible]
Surveyed by [illegible]
Notes
Indexed [illegible] Date [illegible]

F.B. [illegible] Pg. [illegible]

F.B. 3286 Pg. 131

B LINE 9-30-69

ON LINE FROM	ON LINE TO	SIGHT ON STATION		OFFSET AMOUNT	L/R				
B-1	B-8		0+00.00			T = 70°			
		P.O.T.	0+93.53	0.00		95.90 @	12°45'	=	93.53
		B-2	0+97.58	0.26	L	4.05 @	Lev	=	4.05
			63.74						
		B-3	1+61.32	1.30	L	67.80 @	Lev	=	67.79
			76.99						
		B-4	2+38.31	1.60	L	77.00 @	Lev	=	76.99
			61.91						
		P.O.T.	3+00.22	0.00		139.44 @	5°02'	=	138.90
			19.95						
		B-5	3+20.17	0.49	L	19.95 @	Lev	=	18.95

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JIN 0201.03

Amarillo Beach

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the surface po

EMPLOYEE TIME REPORT

DIVISION

TOTAL REG. WORK HOURS IN PERIOD

SHEET

COST NUMBER	JOB NUMBER	YEAR	MONTH	DAY	THRU	DAY	TOTAL HOURS	1/16	2/17	3/18	4/19	5/20	6/21	7/22	8/23	9/24	10/25	11/26	12/27	13/28	14/29	15/30	31

O'TIME/BONUS					
JOB NAME DESCRIPTION					
JOB NUMBER					

TOTAL HOURS IN TIME PERIO

ABSENCE

EMPLOYEE SIGNATURE

	JOB NUMBER	FUNCTION NUMBER		TOTAL HOURS	1/16	2/17	3/18	4/19	5/20	6/21	7/22	8/23	9/24	10/25	11/26	12/27	13/28	14/29	15/30	/31

)D-REGULAR WORKING HOURS PLUS ABSENCES

FUNCTION NUMBER	OTHER COST CENTER	WORK UNITS	PAY CODE	TOTAL HOURS	1/16	2/17	3/18	4/19	5/20	6/21	7/22	8/23	9/24	10/25	11/26	12/27	13/28	14/29	15/30	/31

EMP NO.

CODES

0 - Nite Bonus
2 - Standby
3 - Backhoe
' - Welding
6 - Accum. Holidays
7 - O'Time Accum.
8 - Call back
9 - Paid O'Time

APPROVED

Profile No.	Notes Red	Plotted	Job No. 0021.81	Division No. 11	F.B. 3286 Pg. 133
	Date	Date	Survey of AMARILLO BEACH LANDSLIDE		
X-Sec. No.	Notes Chkd.	Checked	Survey by LIND	Notes LIND	Date 9-30-69
	Date	Date	Map No.	Indexed C.J. GALLI	Date OCT 7 '69

U.N. 0021.81

AMARILLO BEACH LANDSLIDE

RE-RUN OF LEVELS

NOTE:
CONSTANTS ADDED TO FORE SIGHT ROD ALONG A-LINE ON PAGES 133-134 ARE ADDED TO SHOW THE ELEVATION OF ORIGINAL POINTS BELOW THE SURFACE

C.K. LIND
10-14-77

9-30-69

LIND

PETERSON

SWANN

BLANCHARD

ELEV.

F.S.

H.I.

B.S.

STATION

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76-L298 CE 307 3-61

76-L298 CE 307 3-61

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Do not extend notes this side of this line.

F.B. 7251 PG. 134 | Job No. 2116 | Division No. 11 | Notes Red ____ | Plotted ____ | Profile ____
Survey of Avalanche Basin Lines | Date ____ | No. ____ | X-Sec. ____
Survey by Lwp | Notes Lwp | Notes Chkd. ____ | Checked ____
Indexed C.J. (All) | Date ____ | Date ____ | Date ____ | No. ____

STATION	B.S.	H.I.	F.S.	ELEV.		
AB # 1	3930	22 252		18322	A.B. # 1 EL =	18.322
TP	6161	25 445	2968	19284		
TP	6086	27 868	3667	21783		
T.P.	6552	31 080	3340	24528		
A-12	7892	35360	3612	27468		
A-11			7280	28080	6.520 + 0.760	= 7.280
A10B Aux 1			5403	29957	4.918 + 0.485	= 5.403
T.P.	10390	41579	4171	31183		
T.P.	8863	48863	1579	46000		
B-2			3102	45751		
T.P.	10800	57749	1900	46949		
B-3			6500	51249		
B-4	10542	64759	3532	54217		
B-5			2102	62657		
T.P.	5042	36225		31183		
A-10A Aux 2			5739	30486	5.359 + 0.380	= 5.739
A-10			8433	27792	6.513 + 1.920	= 8.433
T.P.	4609	34321	6613	29712		
A-9			5437	28884	5.242 + 0.195	= 5.437
T.P.	5193	34164	5290	29031		

SAME

76-L298 CE 307 3-61

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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STATION	B. S.	H. I.	F. S.	ELEV.		
		34.164				
A-8			5.789	28.375	5.205 + 0.584	= 5.789
T.P.	5.448	32.069	7.543	26.621		
A-7			6.448	25.621	5.240 + 1.208	= 6.448
T.P.	3.489	30.318	5.240	26.829		
A-6A			7.603	22.715	4.147 + 3.456	= 7.603
A-6			6.836	23.482	5.515 + 1.321	= 6.836
T.P.	3.830	28.633	5.515	24.803		
A-5			5.429	23.204	3.565 + 1.864	= 5.429
T.P.	4.710	29.778	3.565	25.068		
A-4A			6.236	23.542	4.395 + 1.841	= 6.236
A-4			4.462	25.316	4.068 + 0.394	= 4.462
T.P.	5.261	30.971	4.068	25.710		
T.P.	6.249	32.890	4.330	26.641		
A-3			5.140	27.750	4.809 + 0.331	= 5.140
A-2B			5.244	27.646	4.410 + 0.834	= 5.244
T.P.	5.080	33.560	4.410	28.480		
A-2A			5.732	27.828	4.656 + 1.076	= 5.732
A-2C			4.413	29.147	3.800 + 0.613	= 4.413
A-2			4.012	29.548	3.613 + 0.399	= 4.012
A-1			3.440	30.120		

Profile Notes Red ____ Plotted ____ Job No. 0021.81 Division No. 11 F.B. 3286 Pg. 135
No. ____ Date ____ Date ____ Survey of AMARILLO BEACH LANDSLIDE
X-Sec. Notes Chkd. ____ Checked ____ Survey by LINP Notes DOVER Date 9-30-69
No. ____ Date ____ Date ____ Map No. ____ Indexed G. L. GALLI Date OCT 7 '69

Notes Ck'd by	Survey of AMARILLO BEACH LANDSLIDE
Map No.	JN 0021.81 Tape #4 Std 84 °F
Office Work	Surveyed by C.K. LIND
Checked	Notes ADAMS Date 1-15-70
Date	Indexed C. J. GALLI FEB 5 '70

F.B. 3286 PG. 137

J.N. 0021.81

AMARILLO BEACH LANDSLIDE

HORIZONTAL MOVEMENT STUDY

1-15-70

LIND
ADAMS
DARVIS
LUND

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76F3098 CE#310 9-67

F.B. 3286 Pg. 132

A - LINE

1 - 15 - 70

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET DIST	OFFSET L/R	NOTES	
A-12	A-1		0+00			T = 60°	
		A-11	0+62.27	0.23	L	62.28 @ L	= 62.27
		A-10B Auxy	1+46.93	4.56	L	84.67 "	= 84.66
		A-10A Auxy	2+68.21	4.00	L	121.30 "	= 121.28
		A-10	4+09.11	1.26	L	140.92 "	= 140.90
		A-9	5+61.89	0.99	L	152.80 "	= 152.78
		A-8	8+65.41	1.70	L	303.57 "	= 303.52
		A-7	11+47.73	1.93	L	282.36 "	= 282.32
		A-6A	12+70.83	1.02	L	123.12 "	= 123.10
		A-6	14+32.61	2.25	L	161.81 "	= 161.78
		A-5	16+71.08	4.28	L	238.51 "	= 238.47
		A-4A	17+42.13	4.61	L	71.06 "	= 71.05
		A-4	18+24.83	0.05	R	82.71 "	= 82.70
		A-3	22+06.48	0.04	R	381.77 "	= 381.65
		A-2B	22+99.92	0.85	L	93.45 "	= 93.44
		A-2A	24+10.77	3.41	L	110.87 "	= 110.85
		A-2C	25+24.04	0.49	L	113.29 "	= 113.27
		A-2	25+53.54	0.01	L	29.50 "	= 29.50
		A-1	26+31.26	0.00		77.73 "	= 77.72

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B-LINE 1-15-70

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET DIST	OFFSET L/R	CHAINING	
B-1	B-8		0+00				
		P.O.T.	0+95.57	~~0~~		98.08 @ 12°56' T=60'	= 95.57
		B-2	0+97.65	0.33	L	2.08 @ L	= 2.08
		B-3	1+61.31	1.39	L	63.67 @ L	= 63.66
		B-4	2+38.29	1.65	L	76.99 @ L	= 76.98
		B-5	3+20.15	0.58	L	81.87 @ L	= 81.86

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of AMARILLO LANDSLIDE BEACH
JN 00218 Tape #4 Std 84 °F
Surveyed by C.K. LIND
Notes A.D. AMS Date 1-15-70
Indexed C. J. GALLI

F.B. 3286 Pg. 134

Profile No.	Notes Red	Plotted	Job No. 0021.81	Division No. 11	F.B. 3286	Pg. 141
	Date	Date	Survey of AMARILLO BEACH LANDSLIDE			
X-Sec. No.	Notes Chkd.	Checked	Survey by C. LIND	Notes ADAMS	Date 1-15-70	
	Date	Date	Map No.	Indexed C. J. GALLI	Date FEB 5 '70	

J.N. 0021.81

AMARILLO BEACH LANDSLIDE

RERUN OF LEVELS

1-15-70

LIND

ADAMS

DARVIS

LUND

STATION	B.S.	H.I.	F.S.	ELEV.

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76-1298 CE 307 3-61

76-L298 CE 307 3-61

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F.B. 3281 Pg. 142 Job No 002181 Division No. 11 Notes Red Plotted Profile
Survey of AMARILLO BEACH LANDSLIDE Date Date No. X-Sec.
Survey by LIND Notes ADAMS Notes Chkd. Checked
Indexed C. J. GALLI Date 1-14-70 Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.		
BM AB #1	3141	21463		18322	AB #1 EL = 18.322	
T.P.	6020	25539	1944	19519		
"	6315	28774	3080	22459		
A-12	7242	34706	1310	27464 ✓		
A-11			6637	28069 ✓	5.877 + 0.760 = 6.637 ✓	
A-10B Aux 1			4760	29946	4.275 + 0.485 = 4.760 ✓	
T.P.	5550	35981	4275	30431		
T.P.	10882	45825	1038	34943		
	10598	55756	0667	45158		
B-2			10016	45740 ✓		
B-3			4517	51239 ✓		
T.P.	9436	64182	1010	54746		
B-4			9994	54188 ✓		
B-5.			1549	62633 ✓		
	4263	56373	11872	52310 ✓		
T.P.	0351	45510	11214	45159		
T.P.	1585	36532	10563	34947		
A-10A-Aux 2			6.060	30472 ✓	5.680 + 0.380 = 6.060 ✓	
T.P.	5910	36763	5.680	30852 ✓		
A-10			8980	27782 ✓	7.060 + 1.920 = 8.980 ✓	
T.P	4825	34527	7060	29702 ✓		

76-L298 CE 307 3-61

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STATION	B.S.	H.I.	F.S.	ELEV.			
A-9		34527	5660	28867	✓	5.465 + 0.195	= 5.660
T.P.	5270	34232	5465	29062	✓		
A-8			5970	28362	✓	5.386 + 0.584	= 5.970
T.P.	2842	32788	5386	28946	✓		
A-7			7180	25608	✓	5.972 + 1.208	= 7.180
T.P.	4078	30894	5972	26816	✓		
A-6A			8235	22659	✓	4.779 + 3.456	= 8.235
A-6			7421	23473	✓	6.100 + 1.321	= 7.421
T.P.	4460	29254	6100	24794	✓		
A-5			6074	23180	✓	4.210 + 1.864	= 6.074
T.P.	4750	29794	4210	25044	✓		
A-4A			6290	23504	✓	4.449 + 1.841	= 6.290
A-4			4377	25417	✓	3.983 + 0.394	= 4.377
T.P.	5835	31646	3983	25811	✓		
A-3			3910	27736	✓	3.570 + 0.331	= 3.901
TP	4860	32936	3570	28076	✓		
A-2B			5311	27625	✓	4.477 + 0.834	= 5.311
A-2A			5124	27812	✓	4.048 + 1.076	= 5.124
T-P	5382	34270	4048	28888	✓		
A-2C			5146	29124	✓	4.533 + 0.613	= 5.146
A-2			4739	29531	✓	4.340 + 0.399	= 4.739

Profile No. ____ Notes Red ____ Plotted ____ Job No. 00218 Division No. ____
X-Sec. No. ____ Date ____ Notes Chkd. ____ Date ____ Checked ____ Date ____ Survey of AMBRILLO BEACH LANDSLIDE
Survey by CK. LIND Notes 40 pms Date 1-15-70 Map No. ____ Indexed ~~G. J. GALLI~~ Date ____
F.B. 3226 Pg. 1-3

Notes Ck'd by	Survey of AMARILLO BEACH LANDSLIDE
Map No.	JN 002681 Tape 197 Std. 84 °F
Office Work	Surveyed by C. K. LIND
Checked	Notes R. DOVER Date 7-13-70
Date	Indexed C.J. GALLI AUG 7 70

F. B. 3286 PG. 145

J.N. 002681

AMARILLO BEACH LANDSLIDE

HORIZONTAL MOVEMENT STUDY

13 & 14 JULY 1970

PARTY

C. K. LIND

DOVER

BLANCHARD

DARVIS

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16F309S CE#310 3-68

F. B. 3286 pg 146

"A" LINE

7-13-70

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT.	OFFSET L/R	NOTES		
A-12	A-1		0+00.00				TEMP = 70°	
						62.28 @	LEV. =	62.27
		A-11	0+62.27	0-23	L			
						84.67 @	LEV. =	84.66
		A-10 B (AUX 1)	1+46.93	4.51	L			
						121.28 @	LEV. =	121.27
		A-10 A (AUX 2)	2+68.20	3.93	L			
						140.92 @	LEV =	140.91
		A-10	4+09.11	1.23	L			
						152.77 @	LEV =	152.76
		A-9	5+61.87	0.96	L			
						303.58 @	LEV. =	303.55
		A-8	8+65.42	1.68	L			
						282.40 @	LEV. =	282.37
		A-7	11+47.79	1.91	L			
						123.11 @	LEV =	123.10
		A-6 A	12+70.89	0.98	L			
						161.81 @	LEV. =	161.80
		A-6	14+32.69	2.21	L			
						238.56 @	LEV. =	238.54
		A-5	16+71.23	4.30	L			

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76F3095 CE#310 3-68

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"A" LINE (CONT.) 7-13-70

ON LINE FROM	TO	SIGHT ON STATION	PLUSS	OFFSET AMT	L/R		NOTES	
A-12	A-1						TEMP= 70°	
						71.05@	LEV =	71.04
		A-4A	17+42.27	4.61	L			
						82.57 @	LEV =	82.56
		A-4	18+24.83	0.09*	R			
						381.73 @	LEV =	381.70
		A-3	22+06.53	0.05*	R			
						93.42 @	LEV =	93.41
		A-2B	22+99.94	0.82	L			
						110.85@	LEV. =	110.84
		A-2A	24+10.78	3.38	L			
						113.28@	LEV =	113.27
		A-2C	25+24.05	0.55	L			
						29.51 @	LEV =	29.51
		A-2	25+53.56	0.00				
						77.73 @	LEV =	77.72
		A-1	26+31.28	0.00				

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of AMARILLO BEACH LANDSLIDE
JN 002181 Tape 197 Std 84 °F
Surveyed by G. K. LIND
Notes R. DOVER Date 14 JULY 70
Indexed C. J. GALLI AUG 7 '70

F. B. 3286 PG. 147

F. B. 3286 PG. 148

7-14-70

NOTES
TEMP = 70°

ON LINE FROM	ON LINE TO	"B" LINE SIGHT ON STATION	PLUSS	OFFSET AMT.	OFFSET L/R		NOTES
B-1	B-8					97.80 @	12°-13' @ 70° = 95.57
		P.O.T.	0+00.00			2.03 @	LEV. = 2.03
			0+95.57	0.00		63.72 @	LEV. = 63.71
		B-2	0+97.60	0.31	L	76.96 @	LEV. = 76.95
		B-3	1+61.31	1.39	L	81.85 @	LEV = 81.84
		B-4	2+38.24	1.67	L		
		B-5	3+20.10	0.57	L		

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Profile No.	Notes Red	Plotted	Job No. 0021.81	Division No. 11	F.B. 3286	Pg. 149
	Date	Date	Survey of AMARILLO BEACH LANDSLIDE			
X-Sec. No.	Notes Chkd.	Checked	Survey by CK LIND	Notes DOVER	Date 7-14-70	
	Date	Date	Map No.	Indexed C. J. GALLI	Date AUG 7 '70	

J. No. 0021.81

AMARILLO BEACH LANDSLIDE

RE-RUN OF LEVELS

14 JULY 1970

PARTY

LIND
DOVER
DARVIS
BLANHARD

STATION	B.S.	H.I.	F.S.	ELEV.

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75-298 CE 307 3-61

76-L298 CE 307 3-61

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F.B. 3286 Pg. 150 Job No. 0021.81 Division No. 11 Notes Red ____ Plotted ____ Profile ____
Survey of AMERILLO BEACH LANDSLIDE Date ____ Date ____ No. ____ X-Sec. ____
Survey by LIND Notes R. DOVER Notes Chkd. ____ Checked ____ No. ____
Indexed D.L.GATT Date ____ Date ____

STATION	B.S.	H.I.	F.S.	ELEV.		
BM AB #1	4.113	22.435		18.322		
T.P.	6.487	24.924	3.998	18.437		
T.P.	5.883	27.324	3.483	21.441		
T.P.	6.429	30.071	3.682	23.642		
A-12	7.873	35.331	2.613	27.458		
A-11			7.270	28.061	6.510 + 0.760 = 7	.270
A-10 B AUX 1			5.403	29.928	4.918 + 0.485 = 5	.403
A-10 A AUX 1			4.871	30.460	4.491 + 0.380 4	.871
T.P.	7.031	37.871	4.491	30.840	*	
T.P.	11.438	46.816	2.493	35.378		
B-2	6.422	52.158	1.080	45.736		
B-3			0.927	51.231		
T.P.	10.737	62.279	0.616	51.542		
B-4			8.108	54.171		
T.P.	5.282	66.363	1.198	61.081		
B-5			3.683	62.680		
T.P.	4.177	35.017		30.840	*	
A-10			7.201	27.816	5.281 + 1.920 = 7	.201
A-9			6.109 ~~7.864~~	28.908 27.153	5.914 + 1.950 = 7	.864
T.P.	5.271	34.374	5.914	29.103	0.195 = 6	.109 See previous page

SAME POINT

76-1298 CE 307 3-61

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STATION	B. S.	H. I.	F. S.	ELEV.		
		34.374				
A-8			5.974	28.400 ✓	5.390 + 0.584 =	5.974
T.P.	3380	32.364	5390	28.984 ✓		
A-7			6.712	25.652 ✓	5.504 + 1.208 =	6.712
T.P.	3.539	30.399	5504	26.860 ✓		
A-6A			7.718	22.681 ✓	4.262 + 3.456 =	7.718
A-6			6.869	23.530 ✓	5.548 + 1.321 =	6.869
T.P.	3.825	28.676	5.548	24.851 ✓		
A-5			5.428	23.248 ✓	3.564 + 1.864 =	5.428
T.P.	5.380	30.492	3564	25.112 ✓		
A-4A			6.911	23.581 ✓	5.070 + 1.841 =	6.911
A-4			5.001	25.491 ✓	4.607 + 0.394 =	5.001
T.P.	5.262	31.612	4.142	26.350 ✓		
A-3			3.795	27.817	3.464 + 0.331 =	3.795
T.P.	4.451	32.599	3.464	28.148 ✓		
A-2B			4.903	27.696 ✓	4.069 + 0.834 =	4.903
A-2A			4.716	27.883 ✓	3.640 + 1076	4.716
T.P.	4.660	33.619	3640	28.959 ✓		
A-2C			4.419	29.200 ✓	3.806 + 0.613	4.419
A-2			4.002	29.617 ✓	3603 + 0.399	4.002
A-1			3.426	30.193 ✓	*	

✓ REH 13AUG70

Profile Notes Red ____ Plotted ____ Job No. 0021.81 Division No. 11 F.B. 3286 Pg. 151
No. ____ Date ____ Date ____ Survey of AMARILLO BEACH LANDSLIDE
X-Sec. Notes Chkd. ____ Checked ____ Survey by C.K. LIND Notes DOVER Date 7-14-70
No. ____ Date ____ Date ____ Map No. ____ Indexed C.J. GACKI Date AUG 7 70

Notes Ck'd by	Survey of AMARILLO BEACH
Map No.	JN 0021.82 Tape 100 Std 84 °F
Office Work	Surveyed by C.K. LIND
Checked	Notes R. DOVER Date 22 DEC 70
Date	Indexed G.J. GALLI JAN 13 71

F.B. 3286 PG 153

J.N. 0021.81

AMARILLO BEACH LANDSLIDE

HORIZONTAL MOVEMENT STUDY

22 DECEMBER 1970

PARTY

C.K. LIND

DOVER
MANLEY
DARVIS

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76F3098 CE #310 9-67

"A" LINE

22 DECEMBER, 1970

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT.	OFFSET L/R	NOTES
A-11	A-1		0+00.00			TEMP=58°
						62.29 @ LEV. = 62.28
		A-11	0+62.28	0.23	L	
						84.67 @ LEV. = 84.66
		A-10B (AUX 1)	1+46.94	4.56	L	
						121.31 @ LEV. = 121.29
		A-10A (AUX 2)	2+68.23	3.99	L	
						140.95 @ LEV. = 140.98
		A-10	4+09.16	1.27	L	
						152.76 @ LEV. = 152.73
		A-9	5+61.89	1.02	L	
						303.59 @ LEV. = 303.54
		A-8	8+65.43	1.71	L	
						282.41 @ LEV. = 282.36
		A-7	11+47.79	1.97	L	
						123.09 @ LEV. = 123.07
		A-6A	12+70.86	1.03	L	
						161.83 @ LEV. = 161.80
		A-6	14+32.66	2.26	L	
						238.53 @ LEV. = 238.49
		A-5	16+71.15	4.28	L	

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Do not extend this side of this line.

"A" LINE (CONT.)

22 DECEMBER 1970

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT	OFFSET L/R	NOTES
A-12	A-1					TEMP = 58°
						71.05 @ LEV = 71.04
		A-4-A	17+42.19	4.65	L	
						82.72 @ LEV. = 82.71
		A-4	18+24.90	0.07	*R	
						381.77 @ LEV. = 381.71
		A-3	22+06.61	0.04	*R	
						93.43 @ LEV. = 93.41
		A-2-B	23+00.02	0.89	L	
						110.88 @ LEV = 110.86
		A-2-A	24+10.88	3.43	L	
						113.29 @ LEV = 113.27
		A-2-C	25+24.15	0.51	L	
						29.51 @ LEV = 29.50
		A-2	25+53.65	0.00		
						77.73 @ LEV = 77.72
		A-1	26+31.37	0.00		

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of AMARILLO BEACH
JN 0021.81 Tape 100 Std 84°F
Surveyed by C.K. LIND
Notes R. DOVER Date 22 DEC 70
Indexed G.J. BAILY JAN 13 '71

F.B. 3286 Pg. 155

F.B. 3286 Pg. 156

"B" - LINE

23 DECEMBER 1970

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT	OFFSET L/R	NOTES
B-1	B-8		0+00.00			TEMP = 60°
		P.O.T	0+95.57	0.00		97.55 @ 101° 30' = 95.57
		B-2	0+97.61	0.33	L	2.04 @ LEV = 2.04
		B-3	1+61.41	1.39	L	63.81 @ LEV = 63.80
		B-4	2+38.31	1.67	L	76.91 @ LEV = 76.90
		B-5	3+20.15	0.57	L	81.85 @ LEV = 81.84

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Profile No.	Notes Red	Plotted	Job No. 0021.81	Division No. 11	F.B. 3286	Pg. 157
	Date	Date	Survey of AMARILLO BEACH LANDSLIDE			
X-Sec. No.	Notes Chkd.	Checked	Survey by C.K. LIND	Notes LIND	Date 23 DEC. 1970	
	Date	Date	Map No.	Indexed C.J. GALLI	Date JAN 13 '71	

J.N. 0021.81

AMARILLO BEACH LANDSLIDE

RE-RUN OF LEVELS

23 DECEMBER 1970

PARTY

C.K. LIND
DOVER
MANLEY
DARVIS

STATION	B.S.	H.I.	F.S.	ELEV.

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76-L298 CE 307 3-61

76-L298 CE 307 3-61

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STATION	B.S.	H.I.	F.S.	ELEV.		
BM. A.B. # 1	3735	22 057		18 322		
T.P.	6485	24 905	3637	18 420		
T.P.	5797	27 294	3408	21 497		
T.P.	7100	31 046	3348	23 946		
A-12	7660	35 124	3582	27 464		
A-11			7.055	28.069	6.295 + 0.760	= 7.055
A-10 B Aux 1			5.182	29.942	4.697 + 0.485	= 5.182
A-10 A Aux 2			4.653	30.471	4.273 + 0.380	= 4.653
T.P.	6523	37.374	4.273	30.851	*	
T.P.	10890	46 293	1 971	35.403		
T.P.	9145	54 305	1133	45 160		
B-2			8563	45 742		
B-3			3265	51 040		
T.P.	9260	60 645	2920	51 385	SAME	
B-4			6477	54 168		
T.P.	6432	66 180	0897	59748		
B-5			3546	62 634		
T.P.	3852	34 703		30 851	*	
A-10			6.925	27.778	5.005 + 1.920	= 6.925
A-9			5.838	28 865	5.643 + 0.195	= 5.838
T.P.	4864	33 924	5643	29 060		

F.B. 3286 Pg. 158

Job No. 4421.81 Division No. 11 Notes Red Plotted Profile

Survey of AMARILLA BEACH LANDSLIDE Date Date No. X-Sec.

Survey by LIND Notes LIND Notes Chkd. Checked No.

Indexed C. J. GALLI Date Date Date

76-L298 CE 307 3-61

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STATION	B.S.	H.I.	F.S.	ELEV.		
		33 924				
A-8			5.581	28.343	4.997 + 0.584 =	5.581
T.P.	3647	32.574	4.497	28.927		
A-7			7.064	25.510	5.784 + 1.280 =	7.064
T.P.	4010	30.800	5724	26.790		
A-6-A			8.251	22.549	4.795 + 3.456 =	8.251
A-6			7.334	23.466	6.013 + 1.321 =	7.334
T.P.	4463	29 250	6013	24.787		
A-5			6.064	23.186	4.200 + 1.864 =	6.064
A-4A			5.734	23.516	3.893 + 1.841 =	5.734
T.P.	5312	30 664	3893	25357		
A-4			5.232	25.437	4.838 + 0.394 =	5.232
T.P.	5765	32.544	3890	26.779		
A-3			4.776	27.768	4.445 + 0.331 =	4.776
A-2B			4.916	27.628	4.082 + 0.834 =	4.916
A-2A			4.720	27 824	3.644 + 1.076 =	4.720
T.P.	5705	34 605	3644	28 900		
A-2C			5.473	29.132	4.860 + 0.613 =	5.473
A-2			5.046	29.559	4.647 + 0.399 =	5.046
A-1			4464	30 141		

Profile Notes Red ____ Plotted ____ Job No. 8021B Division No. 11 F.B. 3786 Pg. 159
No. ____ Date ____ Date ____ Survey of AMARILLO BEACH LANDSLIDE
X-Sec. ____ Notes Chkd ____ Checked ____ Survey by C.K. LIND Notes LIND Date 23 DEC. 1970
No. ____ Date ____ Date ____ Map No. ____ Indexed C.L. GALLI Date JAN 13 '71

Profile No.	Notes Red	Plotted	Job No. 0021.81	Division No. 11	F. B. 3286	PG. 161
	Date	Date	Survey of AMARILLO BEACH LANDSLIDE			
X-Sec. No.	Notes Chk'd.	Checked	Survey by LIND	Notes LIND	Date 9-2-71	
	Date	Date	Map No.	Indexed J. M. PALMER	Date SEP 22 '71	

U.N. 0021.81

AMARILLO BEACH LANDSLIDE

PRE-RUN OF LEVELS

STATION	B. S.	H. I.	F. S.	ELEV.
				9-2-71
				LIND
				DOVER
				MAYHER
				TOLLISON

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76-L-298 CE 307 5-66

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F. B. 3286 PG. 162 | Job No. 0021.41 | Division No. 11 | Notes Red ____ | Plotted ____ | Profile ____

Survey of A MAIN LLO BEACH CAUSEWAY | Date ____ | No. ____ | X-Sec. ____

Survey by LLO | Notes LLO | Checked ROBERT D. MICHIK | Date ____

Indexed T. M. PALMERI | Date ____

STATION	B. S.	H. I.	F. S.	ELEV.	✓ MICHIK	
A.B. # 1	2930	21 252		18 322 ✓		
T.P.	6097	25 118	2231	19 021 ✓		
T.P.	6523	28 041	3600	21 518 ✓		
T.P.	7385	32 781	2645	25 396 ✓		
A-12			5318	27 463 ✓		
A-11			4713	28 ~~445~~ 068	3.953 + 0.760 =	4.713
A 10 B Aux 1			2842	29 ~~372~~ 935	2.361 + 0.485 =	2.846
T.P.	6626	37 046	2361	30 420 ✓ *	BEG. SIDE LINE	
T.P.	11811	48 251	0606	36 440 ✓		
B-2	6538	52 273	2510	45 735 ✓		
B-3			1257	51 016 ✓		
T.P.	8348	59 960	0661	51 612 ✓		
B-4			5819	54 141 ✓		
T.P.	9208	67 098	2075	57 825 ✓		
B-5			4470	62 623 ✓		
T.P.	5302	35 722		30 420 *		
A 10 A Aux 2			5250	30 472 ✓	4.870 + 0.380 =	5.250
A-10			7941	27 781 ✓	6.021 + 1.920 =	7.941
T.P.	5064	34 765	6021	29.701 ✓		
A-9			5894	28 871	5.699 + 0.195 =	5.894
T.P.	4765	33 831	5699	29 066 ✓		

SAME

76-L-298 CE 307 5-66

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Profile No. ____ Date ____ X-Sec. No. ____ Date ____ Notes Red ____ Date ____ Plotted ____ Date ____ Checked ____ Date ____ Job No. 0021.81 Survey of ATWARTLE Survey by LINE Notes LINE Date 9-2-71 Map No. ____ Indexed H. M. PALMER Date SEP 22 '71 Division No. 11 GERALD LANDSTROM ROBERT D. MICHIK F. B. 3280 Pg. 163

✓ MICHIK

STATION	B. S.	H. I.	F. S.	ELEV.			
		33 831					
A-8			5 494	28 337	4.910 +	0.584	= 5.494
TP	3859	32 780	4 910	28 921			
A-7			7 289	25 491	6.009 +	1.280	= 7.289
T.P.	4162	30 933	6 009	26 771			
A-6A			8 450	22 483	4.994 +	3.456	= 8.450
T.P.	4372	30 311	4 994	25 939			
A-6			6 862	23 449	5.541 +	1.321	= 6.862
TP	4180	28 950	5541	24 770			
A-5			5 784	23 166	3.920 +	1.864	= 5.784
T.P.	4783	29 813	3 920	25 030			
A-4A			6 319	23 494	4.478 +	1.841	= 6.319
A-4			4388	25 425	3.994 +	0.394	= 4.388
T.P.	4928	30 747	3 994	25 819			
T.P.	5570	32 232	4085	26 662			
A-3			4 479	27 753	4.148 +	0.331	= 4.479
A-2B			4 630	27 602	3.796 +	0.834	= 4.630
T.P.	4813	33 249	3 796	28 436			
A2A			5 444	27 805	4.368 +	1.076	= 5.444
A2C			4 140	29 109	3.527 +	0.613	= 4.140
TP	5662	35 384	3 527	29 722			

F. B. 3286 PG. 164

Job No. 0021.81 Division No. 11 Notes Red _____ Plotted _____ Profile

Survey of AMARILLO BEACH LANDSLIDE Date _____ Date _____ No. _____

Survey by LIND Notes LIND Notes Chk'd. ROBERT D. MICHIK Checked _____ X-Sec.

Indexed T. M. PALMERI Date _____ Date _____ Date _____ No. _____

76-L-298 CE 307 5-66

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STATION	B. S.	H. I.	F. S.	ELEV.		
A-2		35 384	5840	29 544	5.441 + 0.399 =	5.840
A-1			5261	30 123		

Notes Ck'd by	Survey of AMARILLO BEACH
Map No.	JN 0021.81 Tape 167 Std 84 °F
Office Work	Surveyed by C.K. LIND
Checked ROBERT D. MICHIK	Notes R. DOVER Date 1 SEPT 71
Date	Indexed T. M. PALMERI SEP 22 '71

F. B. 3285 PG. ~~161~~ 165

J.N. 0021.81

AMARILLO BEACH LANDSLIDE

HORIZONTAL MOVEMENT STUDY

1 SEPTEMBER 1971

LIND
DOVER
TOLLISON
MAHER

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78F309S CE#310 3-68

F. B. 3286 PG ~~162~~ 166

"A"-LINE

SEPTEMBER 1, 1971

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMT	OFFSET L/R	NOTES
A-12	A-1		0+00.00			
		A-11	0+62.28 ✓	0.22	L	62.28 @ LEVEL @ 76° = 62.28 ✓
		A-10 B (AUX 1)	1+46.94 ✓	4.57	L	84.66 @ LEVEL @ 76° = 84.66 ✓
		A-10A (AUX 2)	2+68.23 ✓	4.02	L	121.30 @ LEVEL @ 76° = 121.29 ✓
		A-10	4+09.16 ✓	1.28	L	140.94 @ LEVEL @ 76° = 140.93 ✓
		A-9	5+61.89 ✓	1.04	L	152.74 @ LEVEL @ 78° = 152.73 ✓
		A-8	8+65.45 ✓	1.72	L	303.57 @ LEVEL @ 78° = 303.56 ✓
		A-7	11+47.81 ✓	2.02	L	282.37 @ LEVEL @ 78° = 282.36 ✓
		A-6A	12+70.86 ✓	1.05	L	123.06 @ LEVEL @ 76° = 123.05 ✓
		A-6	14+32.63 ✓	2.27	L	161.78 @ LEVEL @ 76° = 161.77 ✓
		A-5	16+71.12 ✓	4.31	L	238.50 @ LEVEL @ 76° = 238.49 ✓
						71.06 @ LEVEL @ 76° = 71.06 ✓

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"A"- LINE (CONT.) SEPTEMBER 1, 1971

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMT	OFFSET L/R		NOTES	
A-12	A-1							
		A-4A	17 + 42.18	4.65	L			
		A-4	18 + 24.91	0.07	R	82.73 @	LEVEL @ 76°	= 82.73
		A-3	22 + 06.58	0.04	R	381.69 @	LEVEL @ 76°	= 381.67
						93.41 @	LEVEL @ 76°	= 93.41
		A-2B	22 + 99.99	0.89	L			
		A-2-A	24 + 10.85	3.43	L	110.87 @	LEVEL @ 76°	= 110.86
						113.28 @	LEVEL @ 76°	= 113.27
		A-2-C	25 + 24.12	0.51	L			
						29.50 @	LEVEL @ 76°	= 29.50
		A-2	25 + 53.62	0.00				
						77.72 @	LEVEL @ 76°	=
		A-1	26 + 31.34	0.00				= 77.72

Notes Ck'd by
Map No.
Office Work
Checked ROBERT D. MICHIK
Date

Survey of AMARILLO BEACH
JN 0021 84 Tape 167 Std 84 °F
Surveyed by C.K. LIND
Notes R DOYER Date 1 SEPT 71
Indexed J. M. PALMERI SEP 22 '71

F. B. 3286 PG. 163

167

F. B. 3286 PG. ~~164~~ 168

SEPTEMBER 1, 1971

"B" - LINE ON LINE FROM	TO	SIGHT ON STATION	PLUSS	OFFSET AMT	L/R	NOTES
B-1	B-8		0+00.00			
		P.O.T.	0+95.57	0.00		97.73 @ 102°-03' @ 74° = 95.57
		B-2	0+97.61	0.34	L	2.04 @ LEVEL @ 74° = 2.04
		B-3	1+61.46	1.39	L	63.85 @ LEVEL @ 74° = 63.85
						76.89 @ LEVEL @ 74° = 76.88
		B-4	2+38.34	1.67	L	81.82 @ LEVEL @ 74° = 81.81
		B-5	3+20.15	0.57	L	

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F. B. 3286 PG. 169

Profile No. ____ Notes Red ____ Plotted ____ Job No. 0021.81 Division No. 11
Date ____ Date ____ Survey of AMARILLO BEACH LANDSLIDE
X-Sec. No. ____ Notes Chk'd. ____ Checked ____ Survey by LIND Notes CARO Date 6-13-72
Date ____ Date ____ Map No. ____ Indexed C. J. GALLI Date JUL 31 '72

J.N. 0021.81

AMARILLO BEACH LANDSLIDE

Re-Run of Levels

STATION	B. S.	H. I.	F. S.	ELEV.	
					6-13-72
					Lind Caro Mitchell Masuda Tollison

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76-L-298 CE 307 5-66

76-L-298 CE 307 5-66

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F. B. 3286 PG. 170 | Job No. 0021.81 | Division No. 11 | Notes Red | Plotted | Profile No.
Survey of AMARILLO BEACH LANDSLIDE | Date | Date | X-Sec. No.
Survey by LIND | Notes CARO | Notes Chk'd. | Checked
Indexed C. J. GALLI | Date | Date | Date

STATION	B. S.	H. I.	F. S.	ELEV.		
A.B. #1	3207	21 529		18322		
T.P.	6920	25 239	3210	18319		
T.P.	6349	27 563	4025	21 214		
T.P.	7639	31 082	4120	23 443		
A-12	8485	35 945	3622	27 460		
A-11			7874	28 071	7.114 + 0.760 =	7.874
A-10B Aux-1			6002	29 943	5.517 + 0.485 =	6.002
T.P.	11 614	43 247	4312	31 633	* Beg. Side Line	
T.P.	11 194	53 315	1 126	42 121		
B-2			7577	45 738		
B-3			2 310	51 005		
T.P.	8049	60 853	0511	52 804	Same	
B-4			6705	54 148		
T.P.	7969	66 795	2027	58 826		
B-5			4172	62 623		
T.P.	4522	36 155		31 633	*	
A-10A Aux-2			5676	30 479	5.296 + 0.380 =	5.676
A-10			8382	27 773	6.462 + 1.920 =	8.382
T.P.	4570	34 263	6462	29 693		
A-9			5381	28 882	5.186 + 0.195 =	5.381
T.P.	5661	34 449	5475	28 788		

76-L-298 CE 307 5-66

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STATION	B. S.	H. I.	F. S.	ELEV.		
		34449				
A-8			6103	28346	5.519 + 0.584 = 6.103	
T.P.	3370	32300	5519	28930		
A-7			6805	25495	5.525 + 1.280 = 6.805	
T.P.	3941	30716	5525	26775		
A-6A			8241	22475	4.785 + 3.456 = 8.241	
T.P.	4322	29208	5830	24886		
A-6			5744	23464	4.423 + 1.321 = 5.744	
A-5			6034	23174	4.170 + 1.864 = 6.034	
T.P.	4601	29639	4170	25038		
A-4A			6134	23505	4.293 + 1.841 = 6.134	
A-4			4202	25437	3.808 + 0.394 = 4.202	
T.P.	5912	31653	3898	25741		
A-3			3899	27754	3.568 + 0.331 = 3.899	
T.P.	5100	33185	3568	28085		
A-2B			5584	27601	4.750 + 0.834 = 5.584	
T.P.	5385	33820	4750	28435		
A-2A			6012	27808	4.936 + 1.076 = 6.012	
T.P.	5047	33931	4936	28884		
A-2C			4822	29109	4.209 + 0.613 = 4.822	
T.P.	5346	35068	4209	29722		

Profile Notes Red ____ Plotted ____ Job No. 0021.81 Division No. 11 F.B. 3286 Pg. 171
No. ____ Date ____ Date ____ Survey of AMARILLO BEACH LANDSLIDE
X-Sec. Notes Chk'd. ____ Checked ____ Survey by LIND Notes CARO Date 6-13-72
No. ____ Date ____ Date ____ Map No. ____ Indexed C. J. GALLI Date 11 31 72

Notes Ck'd by	Survey of AMARILLO BEACH
Map No.	JN 0021.81 Tape 167 Std 84 °F
Office Work PAW	Surveyed by LIND
Checked	Notes CARO Date 6-15-72
Date	Indexed C. J. GALLI 3 1 72

F. B. 3286 PG. 173

J.N. 0021.81

AMARILLO BEACH LANDSLIDE

HORIZONTAL MOVEMENT STUDY

JUNE 13, 1972

LIND
CARO
MITCHELL
MASUDA
TOLLISON

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76F309S CE#310 3-68

"A"-Line

June 13, 1972

F. B. 3286 PG 174

ON LINE From	ON LINE To	Sight on Station	Plus	Offset Amt.	Offset L/R		Notes	
A-12	A-1		0+00.00			T= 84°		
		A-11	0+62.30	0.22	L.	62.30	Lev. =	62.30
		A-10B (Aux-1)	1+46.96	4.57	L.	84.66	Lev. =	84.66
		A-10A (Aux-2)	2+68.24	4.02	L.	121.28	Lev. =	121.28
		A-10	4+09.15	1.28	L.	140.91	Lev. =	140.91
		A-9	5+61.89	1.04	L.	152.74	Lev. =	152.74
		A-8	8+65.45	1.73	L.	303.56	Lev. =	303.56
		A-7	11+47.79	2.02	L.	282.34	Lev. =	282.34
		A-6A	12+70.83	1.05	L.	123.04	Lev. =	123.04
		A-6	14+32.61	2.27	L.	161.78	Lev. =	161.78
		A-5	16+71.09	4.31	L.	238.48	Lev. =	238.48

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Do not extend this side of this line.

"A" Line (Cont.)

June 13, 1972

On Line From	On Line To	Sight on Station	Plus	Offset Amt	Offset L/R		Notes	
A-12	A-1					T=84°		
		A-4A	17+42.16	4.66	L	71.07	Lev =	71.07
		A-4	18+24.84	0.08	R	82.68	Lev =	82.68
		A-3	22+06.51	0.05	R	381.67	Lev =	381.67
		A-2B	22+99.90	0.89	L	93.39	Lev =	93.39
		A-2A	24+10.76	3.44	L	110.86	Lev =	110.86
		A-2C	25+24.02	0.51	L	113.26	Lev =	113.26
		A-2	25+53.52	0.00		29.50	Lev =	29.50
		A-1	26+31.23	0.00		77.71	Lev =	77.71

Notes Ck'd by
Map No.
Office Work Paul
Checked
Date

Survey of AMARILLO BEACH
JN 002181 Tape 167 Std 84 °F
Surveyed by LIND
Notes CARO Date 6-13-72
Indexed C. J. GALLI JUL 31 '72

F. B. 3286 Pg. 175

"B"-Line

June 13, 1972

F. B. 3286 PG 176

On Line From	On Line To	Sight on Station	Plus	Offset Amt	Offset L/R		Notes	
B-1	B-8		0+00.00					
						T = 80°		
		P.O.T	0+95.58	0.00		98.18 @ 103°13' = 95.58 97.98 @ 102°41' = 95.59	} 95.58'	
		B-2	0+97.61	0.34	L	2.03	Lev = 2.03'	
		B-3	1+61.47	1.40	L	63.86	Lev = 63.86'	
		B-4	2+38.35	1.69	L	76.88	Lev = 76.88'	
		B-5	3+20.18	0.58	L	81.83	Lev = 81.83'	

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Notes Ck'd by	Survey of AMARILLO BEACH
Map No.	JN 0021.81 Tape 164 Std 84 °F
Office Work Paw	Surveyed by LIND
Checked	Notes LIND Date 3-6-73
Date	Indexed G. D. BAILEY APR 4 1973

F. B. 3286 PG. 177

J.N. 0021.81

AMARILLO BEACH LANDSLIDE

HORIZONTAL MOVEMENT STUDY

3-6-73

LIND

JACKSON

TOLLISON

MITCHELL

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76F3095 CE#310 3-68

F. B. 3286 PG. 178

A- LINE

3-6-73

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMT.	L/R		NOTES
A-12	A-1		0+00.00	0.00			T= 72°
		A-11	0+62.29	0.21	L.	62.29	LEV. = 62.29
		A-10 B Aux 1	1+46.95	4.53	L.	84.67	LEV = 84.66
		A-10 A Aux 2	2+68.24	4.03	L.	121.30	LEV = 121.29
		A-10	4+09.17	1.30	L.	140.94	LEV = 140.93
		A-9	5+61.94	1.07	L.	152.78	LEV = 152.77
		A-8	8+65.53	1.82	L.	303.61	LEV = 303.59
		A-7	11+47.93	2.04	L.	282.42	LEV = 282.40
		A-6-A	12+70.96	1.05	L.	123.04	LEV = 123.03
		A-6	14+32.77	2.28	L.	161.82	LEV = 161.81
		A-5	16+71.29	4.32	L.	238.54	LEV = 238.52

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76F309S CE#310 3-68

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A- LINE "CONT." 3- 6- 73

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMT	L./R.	T=72		
A-12	A-1							
		A-4 A	17+42.34	4.69	L.	71.06	LEV. =	71.05
		A-4	18+25.01	0.09	R.	82.68	LEV =	82.67
		A-3	22+06.71	0.06	R.	381.73	LEV =	381.70
		A-2 B	23+00.10	0.92	L.	93.40	LEV =	93.39
		A-2 A	24+10.96	3.44	L.	110.87	LEV =	110.86
		A-2-C	25+24.24	0.52	L.	113.29	LEV =	113.28
		A-2	25+53.73	0.00		29.49	LEV =	29.49
		A-1	26+31.43	0.00		77.71	LEV =	77.70

Notes Ck'd by
Map No.
Office Work Paul
Checked
Date

Survey of AMARILLO BENCH
JN 0021.81 Tape 164 Std 84 °F
Surveyed by LIND
Notes LIND Date 3-6-73
Indexed G. D. BAILEY APR 4 1973

F. B. 3286 PG. 179

F.B. 3286 PG 180

"B" LINE

3-7-73

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMT	L/R.		NOTES		
B-1	B-8		0+00.00	0.00			T= 60°		
						98.00	@ 103°.22'	=	95.33
		POT	0+95.33	0.00					
		B-2	0+97.61	0.35	L.	2.28	LEV.	=	2.28
		B-3	1+61.49	1.40	L.	63.89	LEV.	=	63.88
		B-4	2+38.32	1.69	L.	76.84	LEV	=	76.83
		B-5	3+20.17	0.58	L.	81.86	LEV	=	81.85

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F. B. 3286 PG. 181

Profile No. | Notes Red | Plotted | Job No. 0021.81 | Division No. 11
Date | Date | Survey of AMARILLO BEACH LANDSLIDE
X-Sec. No. | Notes Chk'd. PAW | Checked | Survey by LWD | Notes | Date
Date | Date | Map No. | Indexed G. D. BAILEY | Date APR 4 1973

J.N. 0021.81

AMARILLO BEACH LANDSLIDE

RE-RUN OF LEVELS

STATION	B. S.	H. I.	F. S.	ELEV.

3-8-73

LWD
JACKSON
TOLLISON
MITCHELL

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76-L-298 CE 307 5-66

76-L-298 CE 307 5-66

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STATION	B. S.	H. I.	F. S.	ELEV.	
A.B. #2 1	3925	22247		18322	
T.P.	6522	25383	3386	18861	
T.P.	6558	28044	3897	21486	
T.P.	6484	31409	3119	24925	
A-12	8504	35961	3952	27451	(7.142 + 0.760 = 7.902) FOR A-11
A-11			7902	28.059	(5.553 + 0.485 = 6.038) FOR A-10B AUX-1
A-10B AUX-1			6.038	29.923	BEG. SIDE LINE
T.P.	11472	43330	4103	31858	
T.P.	8786	51304	0812	42518	
B-2			5575	45729	
B-3			0307	50997	
T.P.	9017	59.763	0558	50746	
B-4			5620	54143	
T.P.	9178	66.577	2364	57.399	
B.5			3954	62.623	
TP	5689	37547		31858	
A-10A AUX-1			7086	30461	6.706 + 0.380 = 7.086
A-10			9775	27.772	7.855 + 1.920 = 9.775
T.P.	4761	34399	7909	29638	
A-9			5523	28876	5.328 + 0.195 = 5.523
T.P.			5485	28914	

Profile No. X-Sec. No.
Plotted Date
Notes Red Date
Notes Chk'd. Checked
Date Date

Job No. 0021.81 Division No. 11
Survey of AMALILLO BEACH LANDSLIDE
Survey by LHD Notes <DACLES.DAT
Indexed G. D. BAILEY Date APR. 4 1973

F. B. 3286 PG. 182

76-L-298 CE 307 5-66

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STATION	B. S.	H. I.	F. S.	ELEV.		
T.P.	5516	34430		28914		
A-8			6082	28.348	5.498 + 0.584 =	6.082
T.P.	4038	31.912	6556	27874		
A-7			6439	25473	5.159 + 1.280 =	6.439
T.P.	3392	29480	5824	26088		
A-6A			7063	22.417	3.607 + 3.456 =	7.063 ✓
A-6			6025	23.455	4.704 + 1321 =	6.025 ✓
T.P.	5744	30702	4522	24.958		
A-5			7516	23.186	5.652 + 1.864 =	7.516
A-4A			7195	23.507	5354 + 1.841 =	7.195
A-4			5256	25446	4.862 + 0.394 =	5.256
T.P.	5995	32.229	4468	26234		
A-3			4443	27.786	4.112 + 0.331 =	4.443
T.P.	5944	33.997	4176	28.053		
A-2B			6372	27.625	5.538 + 0.834 =	6.372
A-2A			6168	27.829	5.092 + 1.076 =	6.168
A-2C			4859	29138	4.246 + 0.613 =	4.859
A-2			4414	29583	4.015 + 0.399 =	4.414
A-1			3592	30405	NOTE: RAISED 2" I.P. TO BE FLUSH WITH NEW DRIVE.	

Profile Notes Red ____ Plotted ____ Job No. 02181 Division No. 11 F. B. 3286 Pg. 103
No. ____ Date ____ Date ____ Survey of AMARILLO BEACH LANDSLIDE
X-Sec. Notes Chk'd. [illegible] Checked ____ Survey by LIND Notes JACKSON Date 3-8-73
No. ____ Date ____ Date ____ Map No. ____ Indexed D. BAILEY Date APR 4 1973

Notes Ck'd by R. HILARIO	Survey of AMARILLO BEACH LANDSLIDE	F. B. 3286 Pg. 185
Map No.	JN 0301.03 Tape 211 Std 84 °F	
Office Work	Surveyed by R.C. DALE	
Checked	Notes RCD Date 7-18-74	
Date	Indexed J. M. PALMERI JUL 31 1974	

AMARILLO BEACH LANDSLIDE
HORIZONTAL MOVEMENT STUDY

JN 0301.03

JULY 18, 1974

PARTY
R.C. DALE
B.R JACKSON
R.R. RODRIGUEZ
T. ONASHI

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16F309S CE#310 3-69

F.B. 3286 Pg. 186

A LINE

7-18-74

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMT	OFFSET L/R	NOTES
A-12	A-1		0+00	0.00		T=80°
		A-11	0+62 30	0.18	L	63.30 @ LEV = 62.30 SQ HD & T.
		A-10B AUX1	1+46 95	4.57	L	84.65 @ LEV = 84.65 BT. SPK W & T
		A-10A AUX2	2+68 25	3.99	L	121.30 @ LEV = 121.30 BT. SPK W & T
		A-10	4+09 21	1.29	L	140.96 @ LEV. = 140.96 BT. SPK W & T
		A-9	5+61 96	1.05	L	152.75 @ LEV. = 152.75 BT SPK W & T
						T=78°
		A-8	8+65 55	1.80	L	303.60 @ LEV = 303.59 BT SPK W & T
						T=74°
		A-7	11+47 95	2.13	L	282.42 @ LEV = 282.40 BT SPK W & T
		A-6A	12+70 97	1.05	L	123.03 @ LEV = 123.02 BT SPK W & T
		A-6	14+32 72	2.33	L	161.76 @ LEV = 161.75 BT SPK W & T
		A-5	16+71 16	4.46	L	238.46 @ LEV = 238.44 BT SPK W & T

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76F309S CE#310 3-69

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"A" LINE 7-18-74

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMT	L/R	NOTES
A-12	A-1					T=74°
		A-~~4~~A	17+42 $\overset{1}{\underline{22}}$	4.84	L	71.05 @ LEV = 71.05 ✓
		A-4	18+24 $\overset{6}{\underline{81}}$	0.07	R	82.66 @ LEV = 82.65 ✓
		A-3	22+06 $\overset{4}{\underline{55}}$	0.04	R	381.70 @ LEV = 381.68 ✓
		A-2B	22+99 $\overset{2}{\underline{93}}$	1.03	L	93.39 @ LEV = 93.38 ✓
		A-2A	24+10 $\overset{1}{\underline{82}}$	3.49	L	110.90 @ LEV = 110.89 ✓
		A-2C	25+24 $\overset{7}{\underline{08}}$	0.59	L	113.27 @ LEV = 113.26 ✓
		A-2	25+53 $\overset{7}{\underline{58}}$	0.06	L?	29.50 @ LEV = 29.50 ✓
		A-1	26+31 $\overset{26}{\underline{26}}$ ✓	0.00		77.70 @ LEV = 77.69 ✓

Notes Ck'd by R. HILARIO
Map No.
Office Work
Checked
Date 8-1-74

Survey of AMARILLO DRAIN LANDSLIDE
JN 0301.03 Tape 211 Std 84 °F
Surveyed by R C DALE
Notes R C D. Date 7-18-74
Indexed T. M. PALMER JUL 31 1974

F. B. 3286 PG. 197

F.B. 3286 PG. 188

"B" LINE

7-18-74

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUS	OFFSET AMT.	OFFSET L/R	NOTES
B-1	B-8		0+00	0.00		
		POT	0+95.35	0.00		97.56 @ 12°12' T=74°=95.35
		B-2	0+97.63	0.34	L	2.28 @ LEV T=74°=2.28
		B-3	1+61.50	1.40	L	63.87 @ LEV T=74°=63.87
		B-4	2+38.33	1.64	L	76.84 @ LEV T=74=76.83
		B-5	3+20.15	0.57	L	81.83 @ LEV T=74°=81.82

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F. B. 3286 PG. 189

Profile No.	Notes Red	Plotted	Job No. 0301.03	Division No.	
	Date	Date	Survey of AMARILLO BCH. LANDSLIDE		
X-Sec. No.	Notes Chk'd. R. HILARIO	Checked 8-1-74	Survey by R.C.D.	Notes B.R.J.	Date 7-19-74
	Date	Date	Map No.	Indexed T. M. PALMERI	Date JUL 31 1974

J.N. 0301.03

AMARILLO BEACH

LANDSLIDE

RE-RUN OF LEVELS

STATION	B. S.	H. I.	F. S.	ELEV.
				7-19-74
			R.C. DALE	
			B. JACKSON	
			G. TOLLISON	
			R.R. RODRIGUEZ	
			T. OHASHI	

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76-L-298 CE 307 5-66

76-L-298 CE 307 5-66

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F. B. 3286 PG. 190 | Job No. 030.03 | Division No. | Notes Red | Plotted | Profile No.

Survey of AMARILLO BCH. LANDSLIDE | Date | Date | X-Sec. No.

Survey by E.C.P. | Notes B.R.T. | Notes Chk'd R. HILARIO | Checked

Indexed L. M. PALMERI | Date JUL 31 1974 | Date | Date

STATION	B. S.	H. I.	F. S.	ELEV.	
A.B. ~~#2~~ 1	3.140	21.462		18.322	A.B. #2 EL = 18.322
T.P.	6.720	25.401	2.781	18.681	
T.P.	6.380	27.819	3.962	21.439	
T.P.	6.553	31.442	2.~~935~~ 30	24.889	
A-12	8.080	35.522	4.000	27.442	
A-11			~~6.700~~ 7.460	28.062	6.700 + 0.760 = 7.460
A-10B Aux. 1			5.597	29.925	5.112 + 0.485 = ~~29~~ 5.597
T.P.	9.318	41.127	3.713	31.809	* BEG. SIDE LINE (B-LINE)
T.P.	9.272	49.251	1.148	39.979	
B-2			3.514	45.737	
T.P.	4.434	52.261	1.424	47.827	
B-3			1.262	50.999	
T.P.	9.738	59.062	2.937	49.324	SAME
B-4	~~0.800~~		4.932	54.130	
T.P.	7.970	66.232	0.800	58.262	
B-5			3.603	62.629	*
T.P.	5.125	36.934		31.809	
A-10A Aux. 1			6.468	30.466	6.088 + 0.380 = 6.468
A-10			9.167	27.762	7.247 + 1.920 = 9.167
T.P.	4.684	34.400	7.218	29.716	
A-9			5.519	28.881	5.324 + 0.195 = 5.519

76-L-298 CE 307 5-66

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STATION	B. S.	H. I.	F. S.	ELEV.	
		34.400			
T.P.	5.665	34.430	5.635	28.765	5 HRA 10-8-74
A-8			6 ~~8~~.090	28.340	~~14~~.506 + 0.584 = 6 ~~8~~.090
T.P.	4.331	32.466	6.295	28.135	
A-7				25.444	5.742 + 1.280 = 7.022
T.P.	3.167	29.467	6.166	26.300	
A-6A			7.206	22.261	3.750 + 3.456 = 7.206
A-6			6 ~~7~~.045	23.422	4.724 + 1.321 = 6.045
T. P.	4.130	28.474	5.123	24.344	
A-5			5.342	23.132	3.478 + 1.864 = 5.342
A-4A			5.016	23.458	3.175 + 1.841 = 5.016
A-4			3.046	25.428	2.652 + 0.394 = 3.046
T.P.	5.903	31.229	3.148	25.326	
A-3			3.471	27.758	3.140 + 0.331 = 3.471
T.P.	6.288	33.255	4.262	26.967	
A-2B			5.692	27.563	4.858 + 0.834 = 5.692
A-2A			5.464	27.791	4.388 + 1.076 = 5.464
A-2C			4.178	29.077	3.565 + 0.613 = 4.178
A-2			3.704	29.551	3.305 + 0.399 = 3.704
A-1			2.893 ~~30.362~~	30.362	A-1 EL = 30.405 F.B. 3286-183

Profile Notes Red ____ Plotted ____ Job No. 03603 Division No. ____ F.B. 3286 Pg. 191
No. ____ Date ____ Date ____ Survey of AMARILLO BCH. LANDSLIDE
X-Sec. Notes Chk'd. R. HILARIO Checked 8/1/74 Survey by P.C.D. Notes B.R.J. Date 7-19-74
No. ____ Date ____ Date ____ Map No. ____ Indexed PALMER Date JUL 31 1974

Notes Ck'd by ED BERMENDER	Survey of AMARILLO BEACH L.S.
Map No.	JN 0301.03 Tape 2 Std 84 °F
Office Work	Surveyed by M. E. WACKER
Checked	Notes M. E. W Date JAN-76
Date	Indexed G. D. BAILEY JAN 14 1976

F. B. 3286 PG. 193

J.N. 0301.03

AMARILLO BEACH LANDSLIDE

HORZ. MOVEMENT STUDY

JAN-9-1976

PARTY

WACKER
DOVER
TOLLISON
JOHNSON

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76F3095 CE#310 3-68

F. B. 3286 PG. 194

'A'-LINE

JAN-9-76

ON LINE FROM	ON LINE TO	SIGHT ON STA.	PLUSS	OFFSET AMT.	L/R	NOTES:
A-12	A-1		0+00	0.00		T = 66°
		A-11	0+62.30	0.19	L.	62.31 @ LEV = 62.30 ✓ SQ. HO. & T.
		A-10B	1+46.95	4.55	L.	84.66 @ LEV = 84.65 ✓ SPK. W. & T.
		A-10A	2+68.20	4.00	L.	121.26 @ LEV = 121.25 ✓ SPK. W. & T.
		A-10	4+09.13	1.31	L.	140.95 @ LEV = 140.93 ✓ SPK. W. & T.
		A-9	5+61.86	1.08	L.	152.75 @ LEV = 152.75 ✓ SPK. W. & T.
		A-8	8+65.41	1.84	L.	303.59 @ LEV = 303.55 SPK. W. & T.
		A-7	11+47.77	2.22	L.	282.39 @ LEV = 282.36 SPK. W. & T.
		A-6A	12+70.76	1.05	L.	123.00 @ LEV = 122.99 SPK. W. & T.
		A-6	14+32.52	2.34	L.	161.78 @ LEV = 161.76 ✓ SPK. W. & T.
		A-5	16+70.98	4.44	L.	238.49 @ LEV = 238.46 ✓ SPK. W. & T.

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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76F309S CE#310 3-68

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Do not extend this side of this line.

'A' LINE CONT. JAN-9-76

ON LINE FROM	ON LINE TO	SIGHT ON STA.	PLUSS	OFFSET AMT.	OFFSET L/R	NOTES:
A-12	A-1					
						T = 66°
		A-4A	17+42.03	4.80	L.	71.06 e Lev = 71.05
		A-4	18+24.71	0.09	R.	~~82.69 e Lev = 82.68~~
		A-3	22+06.36	0.08	R.	~~381.69 e Lev = 381.65~~
		A-2B	22+99.71	1.01	L.	93.36 e Lev = 93.35 ✓
		A-2A	24+10.58	3.48	L.	110.88 e Lev = 110.87 ✓
		A-2C	25+23.84	0.59	L.	113.27 e Lev. = 113.26 ✓
		A-2	25+53.33	0.01	R.	29.49 e Lev = 29.49 ✓
		A-1	26+31.83	0.00		77.71 e Lev = 77.70 ✓

Notes Ck. ED BERMENDER
Map No.
Office Work
Checked
Date

Survey of HUNTINGTON BEACH L.S.
JN 0301.03 Tape 2 Std. 64 °F
Surveyed by M. E. WACKER Date JAN-76
Notes M. E. W.
Indexed G. D. BAILEY Date JAN 14 1976

F. B. 3286 PG. 195

F. B. 3286 PG. 196

'B' - LINE

JAN. 9-76

ON LINE FROM	ON LINE TO	SIGHT ON STA.	PLUSS	OFFSET AMT.	OFFSET L./R.	NOTES:	
B-1	B-8		0+00	0.00			
						T= 66°	
		P.O.T	0+95.38	0.00		97.72 @ 257° 28' = 95.38 97.79 @ 257° 17' = 95.38	
		B-2	0+97.64	0.34	L.	2.26 @ Lev. = 2.26	SQ. HD.
		B-3	1+61.53	1.43	L.	63.90 @ Lev. = 63.89	2" I.P. + SPK.
		B-4	2+38.35	1.68	L.	77.21 @ 264° 17' = 76.82 77.29 @ 263° 43' = 76.82	2" I.P. + SPK.
		B-5	3+20.17	0.58	L.	81.83 @ Lev. = 81.82	2" I.P. + SPK.

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F. B. 3286 Pg. 197

Profile No. | Notes Red | Plotted | Job No. 0301.03 | Division No. 11
Date | Date | Survey of AMARILLO BEACH LANDSLIDE
X-Sec. No. | Notes Blue | Checked | Survey by M.E.W. | Notes M.E.W. | Date JAN-9-76
Date | Date | Map No. | Index | Q.D. BAILEY | Date JAN 14 1976

ED BERMENDER

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STATION	B. S.	H. I.	F. S.	ELEV.	
					J.N. 0301.03
					AMARILLO BEACH
					LANDSLIDE
					RE-RUN OL LEVELS
					OVER SLIDE AREA
					REF: F.B. 2684
					PARTY: WACKER, DOVER, TOLLISON, JOHNSON

76-L-298 CE 307 5-66

76-L-298 CE 307 5-66

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STATION	B. S.	H. I.	F. S.	ELEV.		
B.M. A.B.#1				18.322	B.M. AB#1 EL= 18.322	F.B. 2684-75
	5.993	24.315			C.S. MON. R.E. 2177	F.B. 2344
T. P.			3.172	21.143 ✓		
	6.320	27.463				
T. P.			3.382	24.081 ✓		
	6.468	30.549				
A# 12			3.110	27.439 ✓		
	6.475	33.914				
A# 11			5.099	28.815 ✓	-0.760 =28.055	
A-10-B AUX-1			3.505	~~30.505~~ 30.409	-0.485 =30.020	
A-10-A AUX 2			3.062	30.852 ✓	* -0.380 =30.472	
	11.185	42.037				
T. P.			0.684	41.353 ✓		
	7.110	48.463				
B-2			2.732	45.731 ✓		
	8.275	54.006				
B-3			3.013	50.993 ✓		
T. P.			1.603	52.403 ✓		
	11.384	63.787				
B-4			9.690	54.097 ✓		
B-5			1.155	62.632 ✓		

F. B. 3286 PG. 198

Job No. 030103 Division No. 11 Notes Red ____ Plotted ____ Profile ____

Survey of AMARILLO BEACH LANDSLIDE Date ____ Date ____ No. ____

Survey by M.E.W. Notes M.E. WACKER Date ____ Checked ____ X-Sec. ____

Indexed G. D. BAILEY Date JAN 14 1976 Date ____ No. ____

ED BERMENDER

76-L-298 CE 307 8-70

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NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
A-10-A - AUX-2				30.852	* HELD FOR GOING AHEAD	
	3.852	34.704				
A-10			5.012	29.692	- 1.920	=27.772
A-9			5.620	29.084	- 0.195	=28.889
	4.988	34.072				
A-8			5.140	28.932	- 0.584	=28.348
	3.423	32.355				
A-7			5.643	26.712	- 1.280	=25.432
	3.767	30.479				
A-6A			4.850	25.629	- 3.456	=22.173
A-6			5.735	24.744	- 1.321	=23.423
	4.196	28.940				
A-5			3.932	25.008	- 1.864	=23.144
	4.995	30.003				
A-4A			4.700	25.303	- 1.841	=23.462
A-4			4.175	25.828	- 0.394	=25.434
T.P			3.485	26.518		
	5.818	32.336				
A-3			4.227	28.109	- 0.331	=27.778
A-2B			3.932	28.404	- 0.834	=27.570

Profile Notes Red ____ Plotted ____ Job No. 030103 Division No. 11 F. B. 3286 PG. 199
No. ____ Date ____ Date ____ Survey of AMARILLO BEACH LANDSLIDE
X-Sec. ED BERMENDER Checked ____ Survey by M.E.W. Notes M.E.W. Date JAN-10-76
No. ____ Date ____ Date ____ Map No. ____ Indexed G. D. BAILEY Date JAN 14 1976

F. B. 3286 PG. 200 Job No. 0301.03 Division No. 11 Notes Red _____ Plotted _____ Profile

Survey of AMARILLO BEACH LANDSLIDE Date _____ Date _____ No. _____

Survey by M.E.W. Notes M. E. WALKER Notes Chkd. ED BERMENDER Checked _____ X-Sec.

Indexed G.D. BAILEY Date _____ Date _____ Date _____ No. _____

JAN 14 1976

76-L-298 CE 307 8-70

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STATION	B. S.	H. I.	F. S.	ELEV.
A-2B				28.444
A-2A	4.760	33.164	4.288	28.876 V - 1.076 = 27.800
A-2C			3.465	29.699 V - 0.613 = 29.086
A-2			3.192	29.972 V - 0.399 = 29.573
A-1			2.783	30.381 V

Notes Ck'd by	Survey of AMARILLO BEACH L.S.
Map No.	JN 0301.03 Tape 2 Std 84 °F
Office Work	Surveyed by M.E. WACKER
Checked	Notes M. E. W. Date JULY-76
Date	Indexed PALMER JUL 30 1976

F. B. 3286 PG. 201

J.N. 0301.03

AMARILLO BEACH LANDSLIDE

HORZ. MOVEMENT STUDY

JULY-15-76

REF:

F.B. 3286
F.B. 2341

PARTY:

WACKER
DOVER
TOLLISON

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76F309S CE#310 3-68

F. B. 3286 PG 202

'A' LINE

JULY-15-1976

ON LINE FROM	ON LINE TO	SIGHT ON STA.	PLUSS	OFFSET AMT.	OFFSET L/R.	NOTES:
* A-12	A-1		0+00	0.00	—	72°
		A-11	0+62.32	0.19	L	62.32 @ LEV = 62.32
		A-10B	1+46.97	4.55	L	84.66 @ LEV = 84.65
		A-10A	2+68.24	3.99	L	121.28 @ LEV = 121.27
		A-10	4+09.18	1.31	L	140.95 @ LEV = 140.94
		* A-9	~~5+61.93~~ 5+61.95	1.06	L	152.76 @ LEV = 152.~~43~~ 77.
		A-8	~~8+65.37~~ 8+65.53	1.80	L	303.60 @ LEV = 303.58
		A-7	~~11+47.89~~ 11+47.96	2.20	L	282.40 @ LEV = ~~282.38~~ 282.43 (282.45 @ T=70° LEVEL)
		* A-6A	~~12+70.87~~ 12+71.05	1.06	L	122.99 @ LEV = ~~122.98~~ 123.09 (123.10 @ T=70° LEVEL)
		A-6	~~14+32.62~~ 14+32.80	2.33	L	161.76 @ LEV = 161.75
		A-5	~~16+71.44~~ 16+71.29	4.45	L	238.51 @ LEV = 238.49

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'A' LINE CONT. JULY-15-1976

ON LINE FROM	ON LINE TO	SIGHT ON STA.	PLUSS	OFFSET AMT.	OFFSET L/R.	NOTES:
A-12	A-1					72°
						T=70° 70.98 @ LEV. = 70.97
		* A-4A	~~17+42.17~~ 17+42.26 ✓	4.79	L	71.07 @ LEV = ~~71.06~~ ✓
						T=70° 82.80 @ LEV. = 82.79
		A-4	~~18+24.85~~ 18+25.05 ✓	0.09	R	82.69 @ LEV = ~~82.68~~ ✓
						~~381.74 LEV/W H.P. = 381.74~~
		A-3	~~22+06.51~~ 22+06.79 ✓	0.05	R	381.69 @ LEV = ~~381.66~~ ✓
						74°
		* A-2B	~~22+99.88~~ 23+00.16 ✓	1.01	L	93.38 @ LEV = 93.37 ✓..
		A-2A	24+10.74 24+11.02 ✓	3.48	L	110.87 @ LEV = 110.86 ✓..
		A-2C	25+24.~~01~~ .29 ✓	0.59	L	113.28 @ LEV = 113.27 ✓..
		A-2	25+53.~~50~~ .78 ✓	0.00	—	29.49 @ LEV = 29.49 ✓..
		* A-1	~~26+31.20~~ 26+31.48 ✓	0.00	—	77.71 @ LEV = 77.70 ✓..

ERROR LOCATED WITH H.P. SEE PAGE 216 THEN CHECKED BY CHAINING WITH TAPE
ALSO POINTS SET @90° to SOME OF THE "A" LINE POINTS R.E.D. 9-21-76

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of AMARILLO BEACH L.S.
JN 0301.03 Tape 2 Std 84 °F
Surveyed by M.E. WACKER
Notes M.E.W. Date JULY-76
Indexed [illegible] PALMER JUL 20 1976

F.B. 3286 PG. 203

F.B. 3286 PG 204

LINE 'B'

JULY - 14 - 1976

ON LINE FROM	ON LINE TO	SIGHT ON STA.	PLUSS	OFFSET AMT.	OFFSET L/R.		NOTES:
B-1	B-8		0+00	0.00	—		T= 70°
		P.O.T.	0+95.37	0.00		+ 95.37	97.77 @ 102°42' = 95.37 97.65 @ 102°23' = 95.37
		B-2	0+97.63	0.32	L	+ 2.26	2.26 @ Lev = 2.26
		B-3	1+61.53	1.41	L	+ 63.90	63.91 @ Lev = 63.90
		B-4	2+38.33	1.66	L	+ 76.80	77.24 @ 96°02' = 76.80 77.18 @ 95°35' = 76.80
		B-5	3+20.16	0.56	L	+ 81.83	81.84 @ Lev = 81.83

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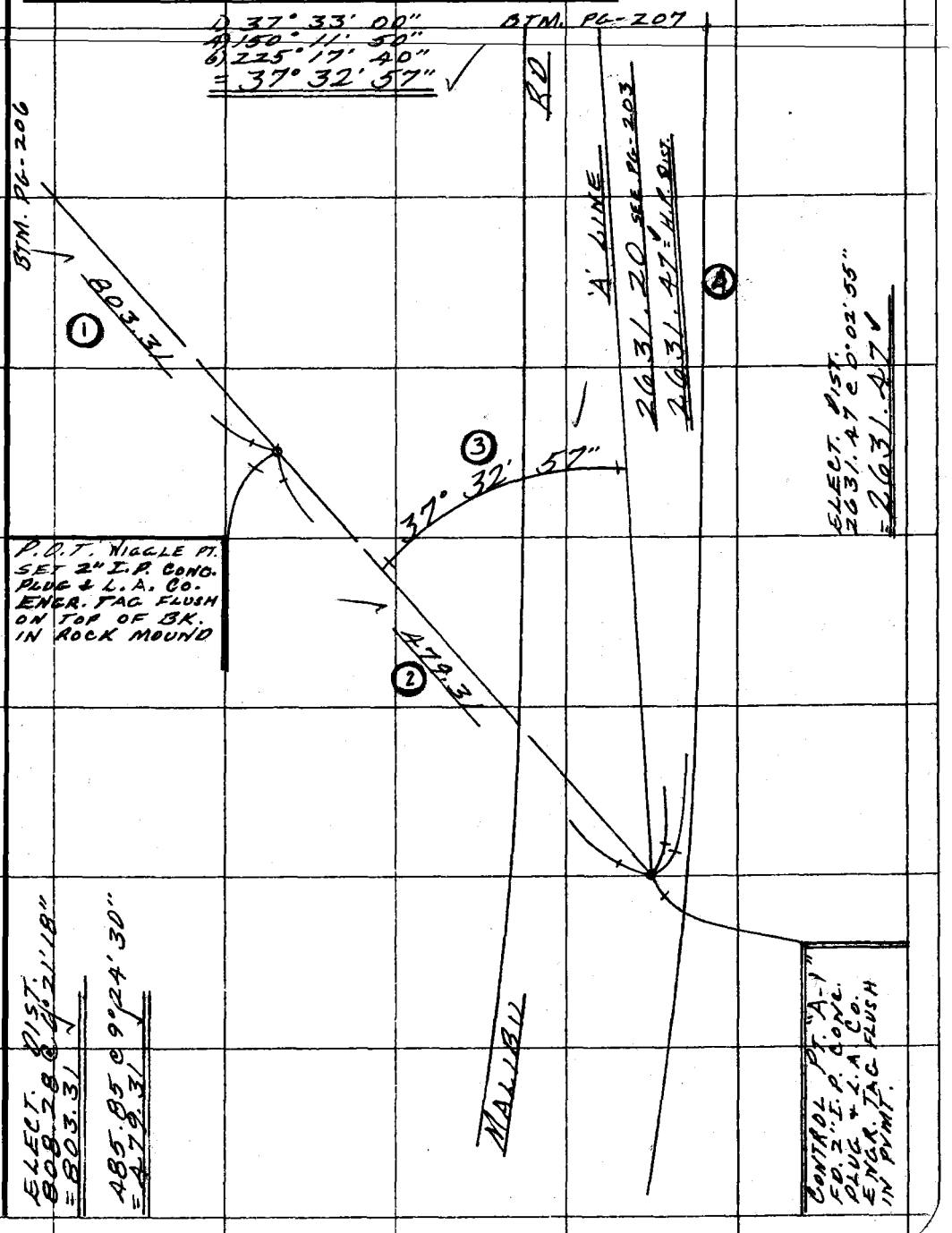
Notes Ck'd by	Survey of AMARILLO BEACH L.S
Map No.	JN 0301.03 Tape 2 Std 84 °F
Office Work	Surveyed by M.E. WACKER
Checked	Notes M.E.W Date JULY-76
Date	Indexed L. M. PALMERI JUL 20 1976

F. B. 3286 PG. 205



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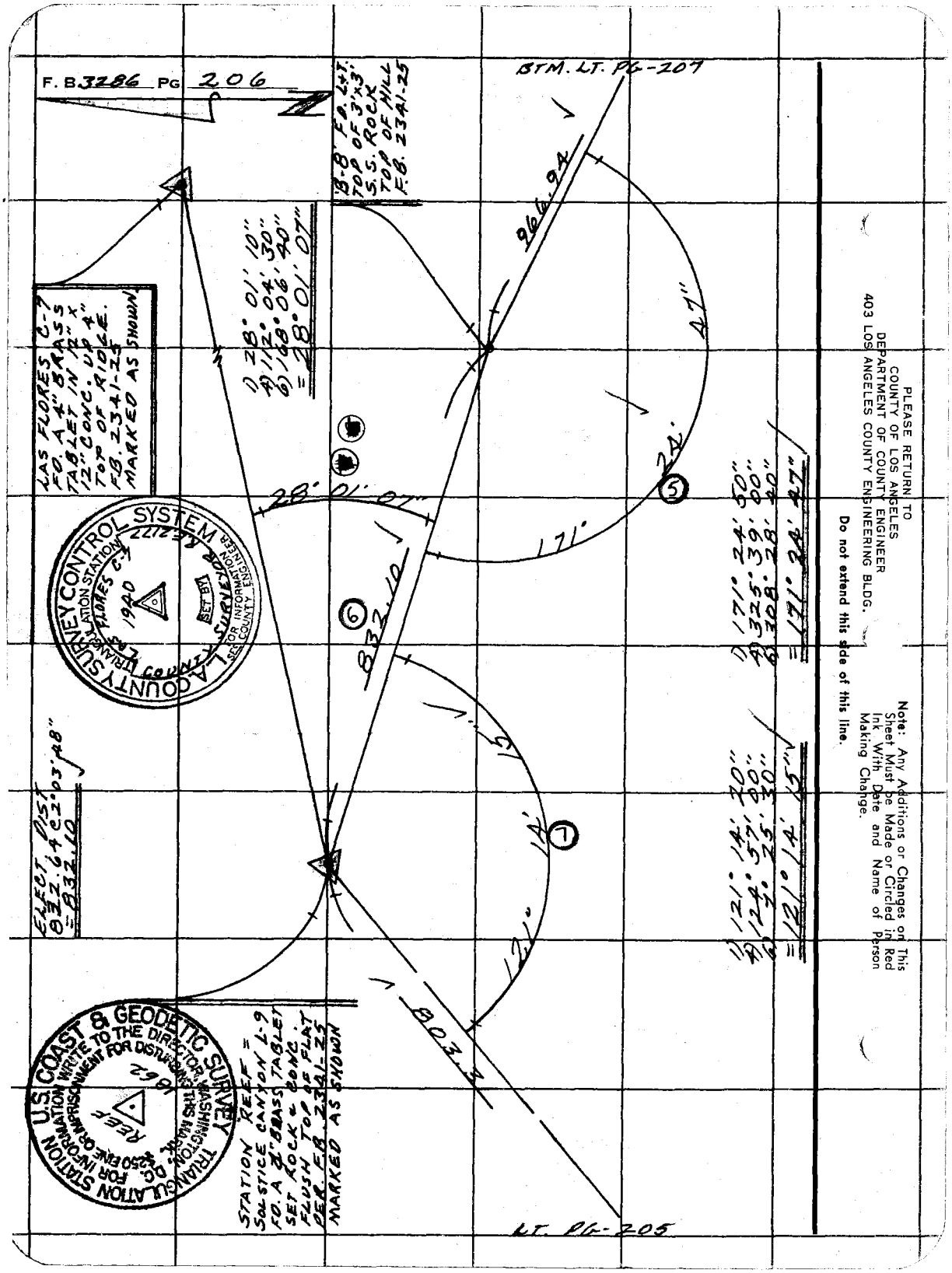
76F3095 CE#310 3-68



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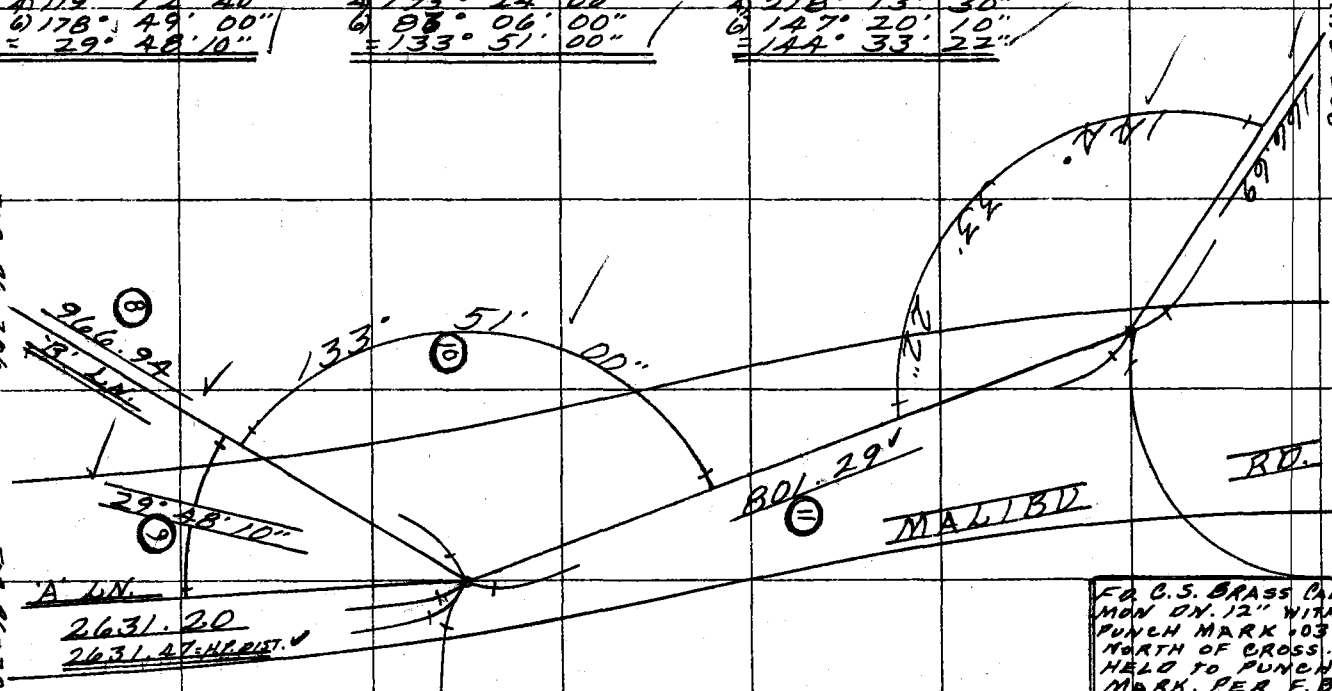
1) 29° 48' 00"
4) 119° 12' 40"
6) 178° 49' 00"
= 29° 48' 10"

1) 133° 51' 00"
4) 175° 24' 00"
6) 86° 06' 00"
= 133° 51' 00"

1) 144° 33' 20"
4) 218° 13' 30"
6) 147° 20' 10"
= 144° 33' 22"



FD. C.S. BRASS CAP MON DN. 12" WITH PUNCH MARK .03 NORTH OF CROSS. HELD TO PUNCH MARK. PER F.B. 2341-7. MON MARKED AS SHOWN.

'A-12' = 'B-1
FD. 2" I.P. CONC. PLUG N. + L.A. CO. ENGR. TAG DN. 2" PER F.B. 2341-21

ELECT. DIST.
801.336 @ 0°35'45"
= 801.29

977.61 @ 8°28'30"
= 966.94

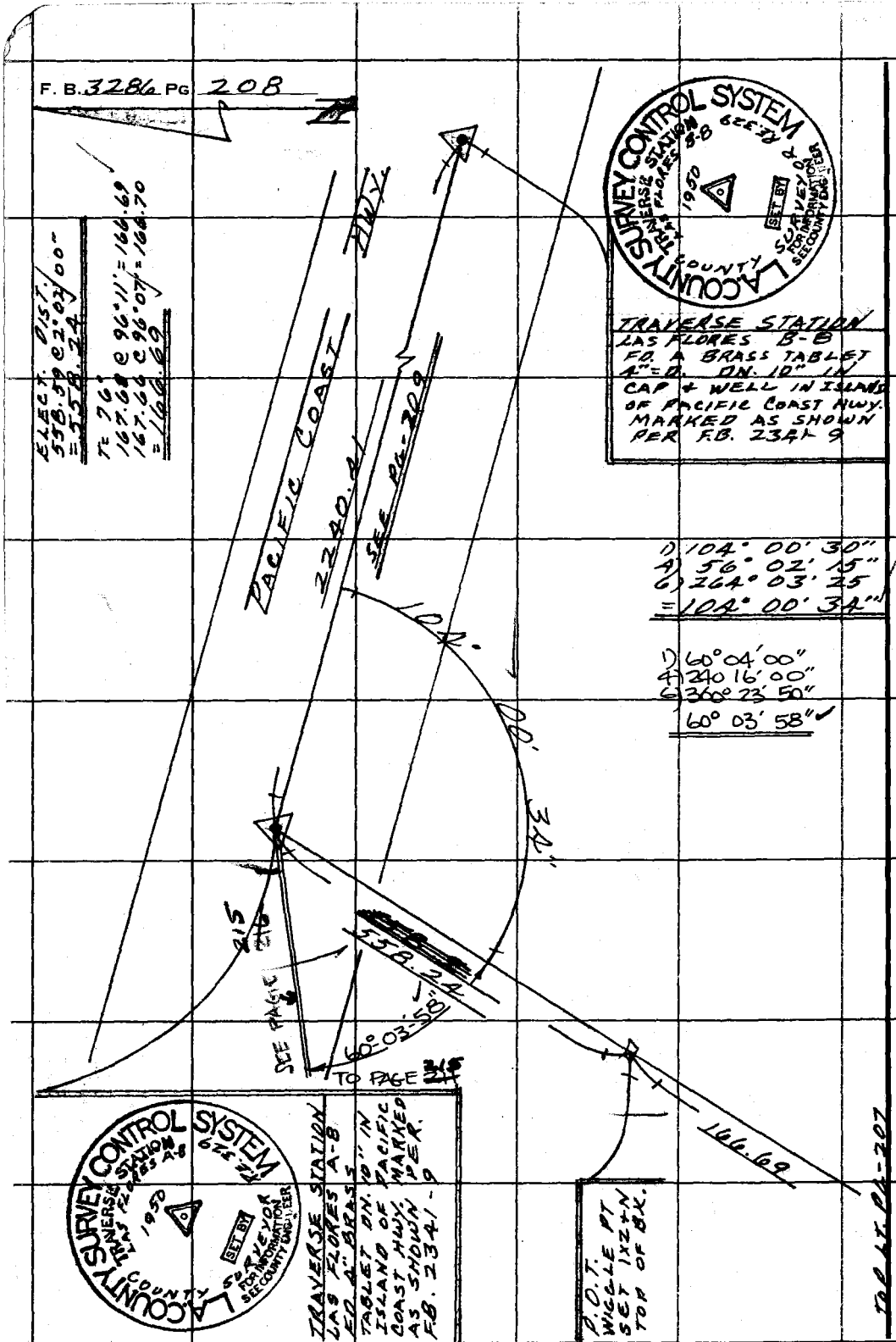
COUNTY SURVEYOR
R. E. 2177

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of AMARILLO BEACH L.S.
JN 0301.03 Tape 2 Std 84 °F
Surveyed by M. E. WACKER
Notes M. E. W. Date JULY-76
Indexed L. M. PALMERI JUL 20 1976

F.B. 3286 PG. 207

F. B. 3286 PG 208



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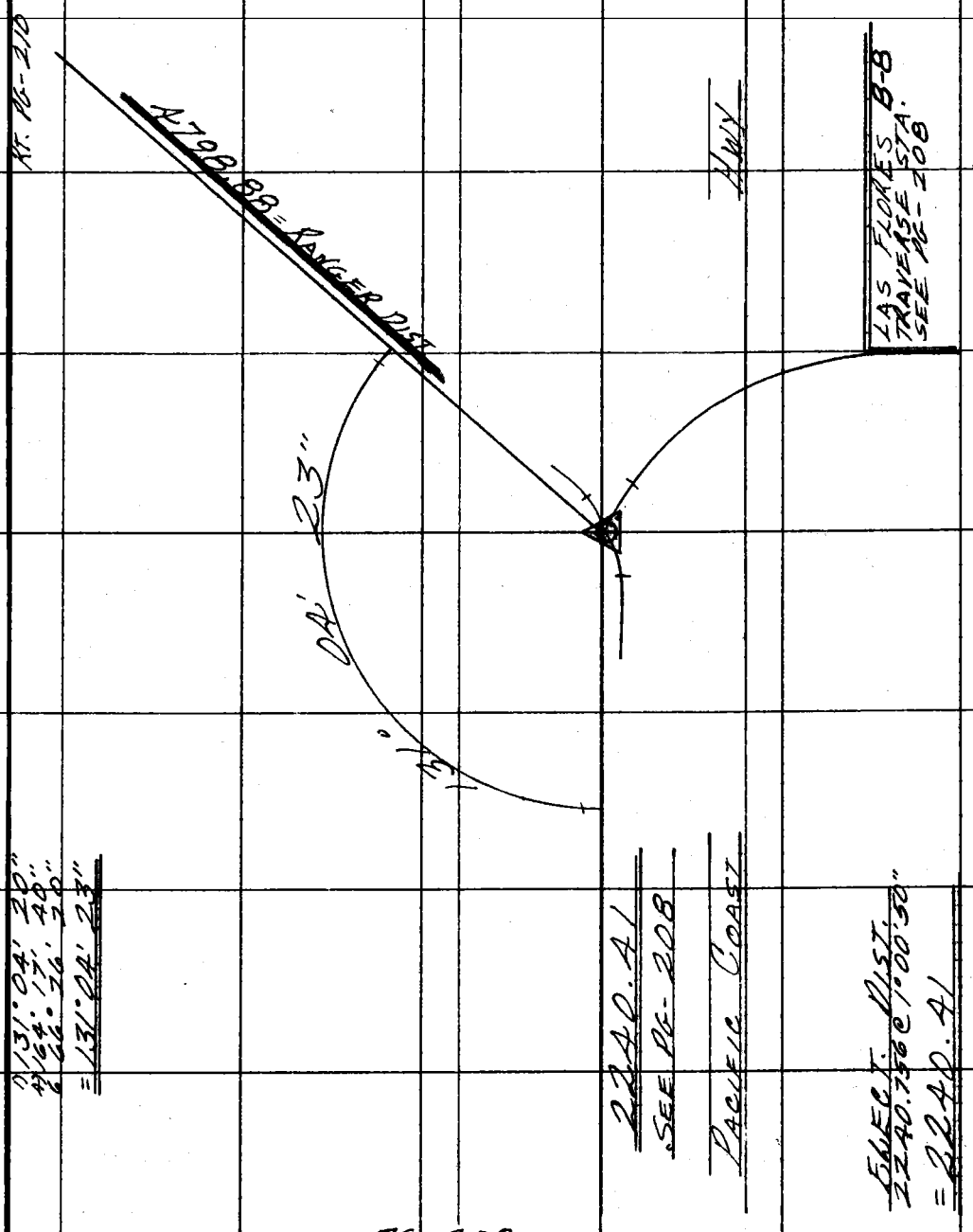
Notes Ck'd by	Survey of AMARILLO BEACH L.S.
Map No.	JN 0301.03 Tape Std °F
Office Work	Surveyed by M.E. WACKER
Checked	Notes M.E.W. Date AUG-76
Date	Indexed

F. B. 3286 PG. 209



PG-208

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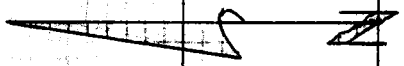
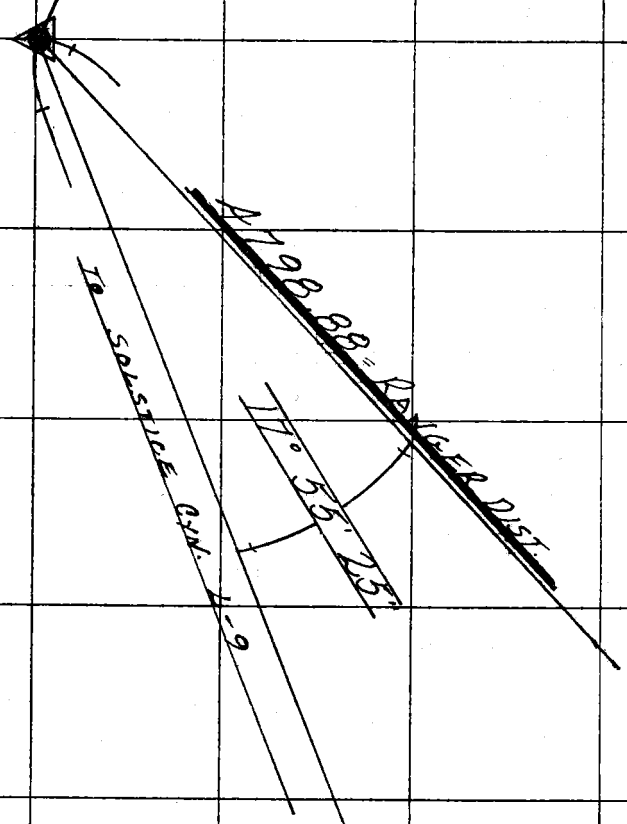
76F309S CE#310 3-69

F. B. 3286 PG 210



LAS FLORES C-7
TRIANGULATION STA
SEE PG-206

NOTE:
UN-ABLE TO MEAS. DIST. WITH H.P. DUE TO FOG + HAZE.



1) 17° 55' 20"
2) 71° 41' 30"
3) 107° 32' 30"
= 17° 55' 25"

LT. PG-209

PG-206

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Profile No.	Notes Red	Plotted	Job No. 0301.03	Division No. 11	F. B. PG. 211
	Date	Date	Survey of AMARILLO BEACH LANDSLIDE		
X-Sec. No.	Notes Ch. R.C. BOWER	Checked	Survey by WACKER	Notes DOVER	Date 15 JULY 1976
	Date 10/5/76	Date	Map No.	Indexed R. M. PALMER	Date JUL 30 1976

J.N. 0301.03

AMARILLO BEACH LANDSLIDE

RE-RUN OF LEVELS OVER "A" LINE & B-LINE

15 JULY 1976

REFERENCE: F.B. 2684

PARTY
WACKER
DOVER
TOLLISON

STATION	B. S.	H. I.	F. S.	ELEV.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

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76-L-298 CE 307 5-66

76-L-298 CE 307 5-66

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
B.M. AB #1	3,208	21,530		18,322	B.M. AB #1 EL = 18,322	PER F.B. 2684-75 (VERT) (HORZ) 2341-7 & 14 & 3286-207
T.P.	6,940	25,125	3,345	18,185	COUNTY SURVEYOR R.E. 2177 (MON.) CHIS "X" + PUNCH MK	
T.P.	6,322	27,501	3,946	21,179	PER F.B. 2341-7 & 14	F.B. 3286-207
T.P.	7,142	30,931	3,712	23,789		
A-12	8,220	35.658	3,493	27.438		
A-11			6,833	28 825	-0.760 = 28.065	
A-10B AUX 1			5,240	30418	-0.485 = 29.933	
T.P.	11 432	42,382	4,708	30,950	* BEG. OF "B" LINE	SIDE RUN
T.P.	11,280	53,408	0,254	42.128		
B-2			7,678	45.730		
B-3			2,410	50.998		
T.P.	11 463	64,871	0,000	53,408		
B-4			10,798	54073		
B-5			2,256	62 615	END OF "B" LINE RUN	
T.P.	5,175	36,125		30,950	* SAME AS ABOVE	
A-10A			5,270	30.855	-0.380 = 30.475	
A-10	4,869	34,567	6,427	29.698	-1.920 = 27.778	
A-9			5,483	29,084	-0.195 = 28.889	
T.P.	5,778	34,559	5,786	28.781		
A-8			5,622	28,937	-0.584 = 28.353	

F.B. 3286 Pg. 212

Job No. 0301.03 Division No. 11 Notes Red ____ Plotted ____ Profile ____

Survey of AMARILLO BEACH LANDSLIDE Date ____ Date ____ No. ____

Survey by WACKER Notes R. DOVER Notes Checked ____ X-Sec. ____

Indexed L. M. PALMER Date JUL 20 1976 Date 10/5/76 Date ____ No. ____

76-L-298 CE 307 5-66

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
	3,633	32,570		28,937		
T.P.	3,762	31,250	5082	27.488		
A-7			4532	26.718	- 1.280	= 25.438
A-6A			5.628	25.622	- 3.456	= 22.166
T.P.	3,825	29,874	5201	26,049		
A-6			5,127	24747	- 1.321	= 23.426
T.P.	5,242	29,507	5,609	24,265		
A-5			4,501	25 006	- 1.864	= 23.142
A- -4A	5,120	30,425	4,202	25,305	- 1.841	= 23.464
A - 4			4,582	25.843	- 0.394	= 25.449
T.P.	5,760	31,885	4,300	26,125		
A-3	5,139	33,254	3,770	28,115	- 0.331	= 27.784
A-2B			4,852	28,402	- 0.834	= 27.568
A-2A	5,410	34,293	4,371	28,883	- 1.076	= 27.807
A-2C			4,593	29,700	- 0.613	= 29.087
A-2			4,319	29.974	- 0.399	= 29.575
A-1			3,917	30.376	A 2" I.P. CEM. CTR. & L.A. CO. ENGR'S TAG SET FLUSH WITH NEW DRIVEWAY APRON (SEE PAGE 183 NOTE:)	El = 30.405 Pg. 183

Profile Notes Red ____ Plotted ____ Job No. 030103 Division No. 11
No. ____ Date ____ Date ____ Survey of AMARILLO BEACH LANDSLIDE
X-Sec. Notes Calc. R. C. BOWERS Checked ____ Survey by WACKER Notes DOVER Date 15 JULY 1976
No. ____ Date 10/5/76 Date ____ Map No. ____ Indexed E. PALMERI Date JUL 20 1976

F. B. 3286 Pg. 213

76F309S CE#310 3-69

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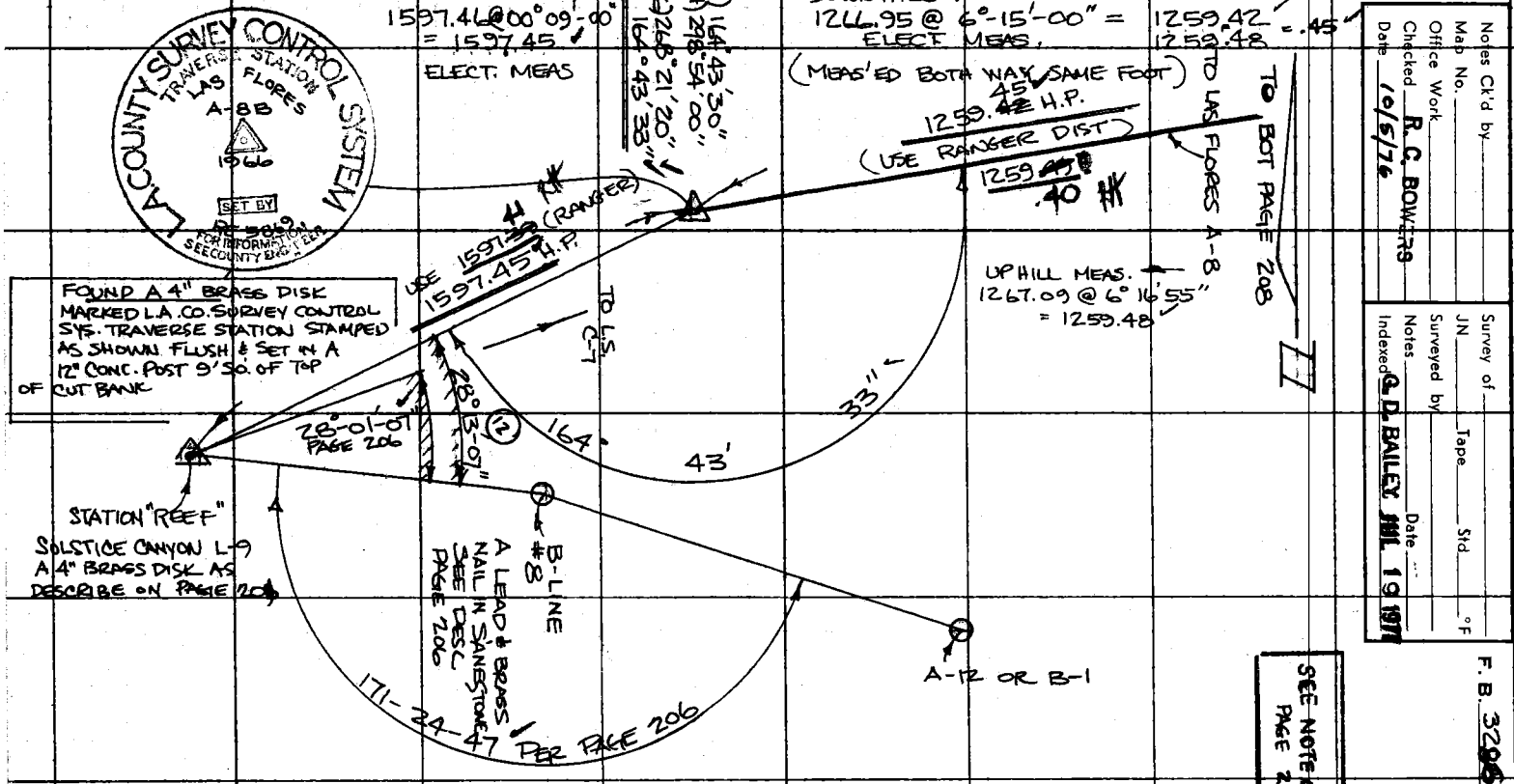


Notes Ck'd by
Map No.
Office Work
Checked R. C. BOWERS
Date 10/5/76

Survey of
JN Tape Std °F
Surveyed by
Date
Notes
Indexed G. D. BAILEY MAR 19 1977

F. B. 3206 Pg. 215

F. B. 3268 Pg. 21

SEE PAGE 202. & 203 FOR CHANGES

B.P. = 30.6 EVM CORR = +00
TEMP = 70°
DIST. MEAS. LEVEL WITH H.P.

561.95 @ LEVEL = 561.95

303.58 @ LEVEL = 303.58

405.52 @ LEVEL = 405.52

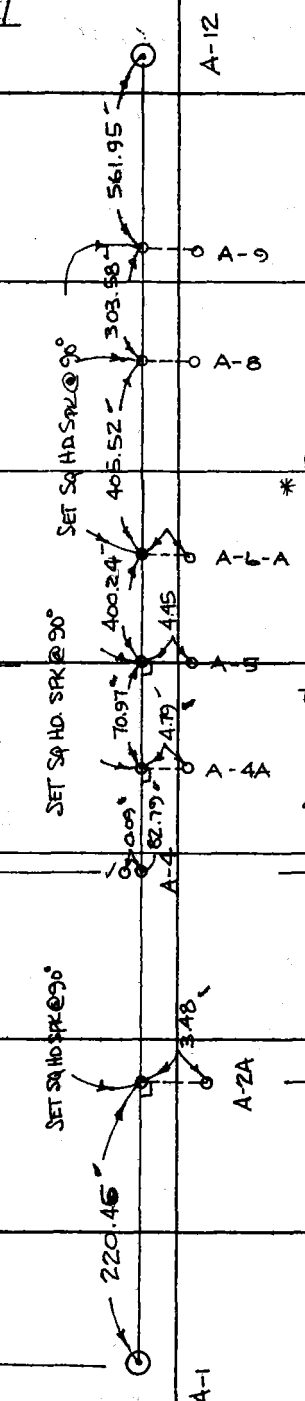
400.24 @ LEVEL = 400.24

153.76 @ LEVEL = 153.76

585.97 @ LEVEL = 585.97

220.46 @ LEVEL = 220.46

806.45 @ LEVEL = 806.45



0+00

5+61.95

8+65.53

12+71.05

16+71.29

17+42.26

18+25.05

24+11.02

26+31.48

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Notes Ck'd by R. HILARIO	Survey of Amarillo Bch.
Map No.	JN 0301.03 Tape Std °F
Office Work	Surveyed by Tom Mankey
Checked R HILARIO	Notes Tom M. Date 7-18-77
Date	Indexed G. D. BAILEY JUL 19 1977

F. B. 3286 PG. 217

J.N. 0301.03

AMARILLO BEACH LANDSLIDE

Mankey
Dover
Lund
Scharb

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16F309S CE#310 3-69

F. B 3286 PG 218

"A" LINE

JULY 1977

On Line From	On Line To	Sight on Station	PLUS	Offset Amt.	Offset L/R	NOTES
A-12	A-1		0+00			All "A" Meas with H.P. E.D.M.
		A-11	0+62.32	0.20	L	100' Steel Tape #020 Std. 68° A-12 To A-11 62.32' @ T-68° = 62.32'
		A-10B	1+46.97	4.56	L	A-11 To A-10B 84.65' @ T-68° = 84.65'
		A-10A	2+68.25	4.00	L	A-10B To A-10A 121.28' @ T-68° = 121.28
		A-10	4+09.72	1.32	L	A-6A To 0.10' E. of A-10 Slope = 861.96' ∡ = 0°15'33" Horz 861.95
		A-9	5+61.97	1.06	L	100' Steel Tape #020 A-10 To A-9 152.75' @ T = 66° = 152.75
		A-8	8+65.60	1.80	L	A-6A To A-8 Slope = 405.485' ∡ = 0°25'43" = Hor = 405.47
		A-7	11+48.01	2.20	L	A-9 To A-8 100' Steel Tape #100 303.63' @ T = 68° = 303.63' " " " A-8 to A-7 282.41' @ T = 68° 282.41' " " " A-7 to A-6A 123.05' @ T = 68° = 123.05'
		A-6A	12+71.07	1.06	LT	A-12 To A-6A Slope 1271.07' ∡ = 0°05'38" Horiz = 12+71.07
		A-6	14+32.79	2.47	L	A-6A To A-6 ~~Slope~~ H.P. Lev = 161.72'
		A-5	16+71.30	4.45	L	A-6A To A-5 H.P. Lev = 400.23'

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"A" LN. Cont. July 1977

On Line From	On Line To	Sight on Station	PLUS	Offset Amt.	Offset L/R	Remark
A-12	A-1					All "A" Meas with H.P. E.D.M.
		A-4A	17+42.26	4.83	L	A-6A To A-4A H.P. Lev = 471.19' (CHECK CHAIN A-4 to A-4A 82.79) R.E.D.T 9-13-77
NO IS RECORDED		A-4	~~18+05.06~~ 18+25.06	0.10	R	A-6A To A-4 H.P. Lev. = ~~533.99~~ 553.99
		A-3	22+06.76	0.08	R	A-6A To A-3 H.P. Lev. = 935.69'
		A-2B	23+00.15	1.01	L	A-6A To A-2B H.P. Lev = 1029.08
		A-2A	24+11.04	3.48	L	A-6A To A-2A H.P. Lev. = 1139.97'
		A-2C	25+24.33	0.60	L	100 Steel Tape #020 A-2A to A-2C 113.29 @ T-68° = 113.29
		A-2	25+53.82	0.00	-	" " " A-2C to A-2 29.49 @ T-68° = 29.49
						" " " A-2 to A-1 77.70' @ T-68° = 77.70
		A-1	26+31.52	0.00	—	A-6A To A-1 Slope 1360.46' ∡ = 0° 11' 43" Hor. = 1360.45

Notes Ck'd by P. HILARIO
Map No.
Office Work
Checked P. HILARIO
Date

Survey of Amarillo Bch. U.S.
JN 0301.03 Tape 020 Std 68 °F
Surveyed by Tom Mankey
Notes Tom M. Date 7/7
Indexed G.D. BAILEY JUL 19 1977

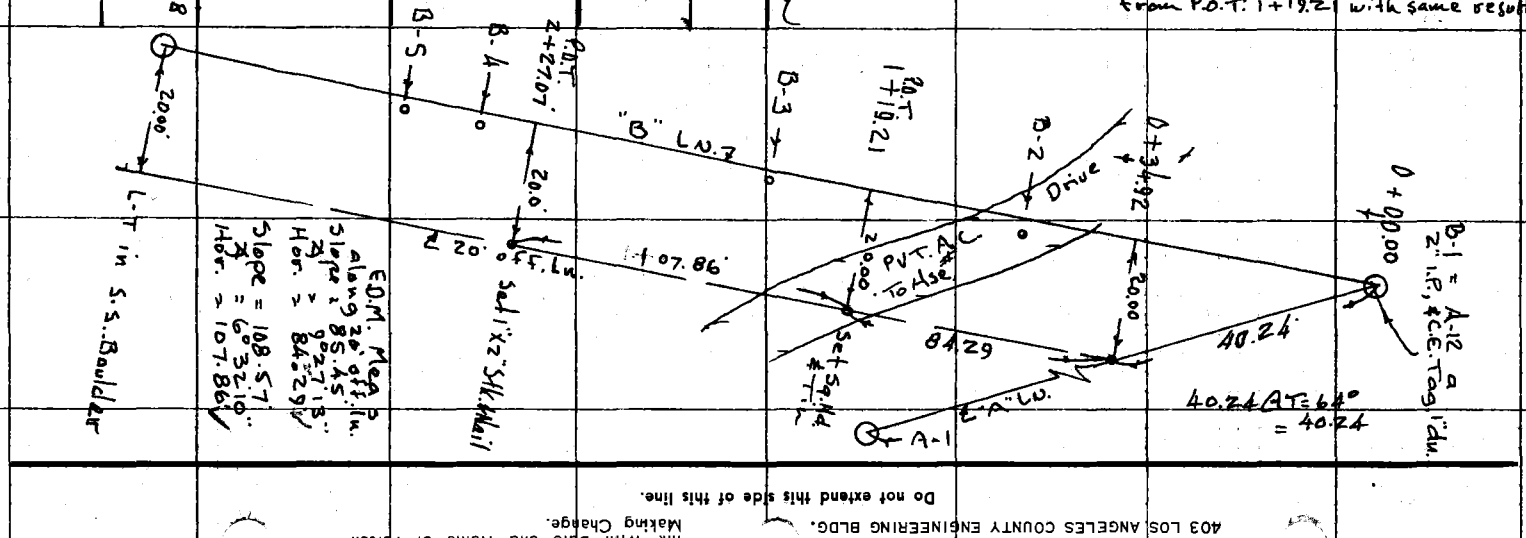
F.B. 3286 PG. 219

F.B. 3286 PG. 220

"B" LINE — JULY 1977

ON LINE From	ON LINE To	SIGHT ON STATION	PLUS	OFFSET AMT.	OFFSET L/R	NOTES
B-1	B-8		0+00	0.00		100' Steel Tape #020 STD.-68°
		B-2	0+97.57	0.35	L	B-1 TO B-2 99.08' Δ=80°01' T=62° = 97.57 / 98.98' Δ=80°18' T=62° = 97.57
		B-3	1+61.44	1.42	L	B-2 TO B-3 63.87' @ T=62° = 63.87'
		B-4	2+38.30	1.65	L	P.O.T. 2+27.07 TO B-4 11.23 @ T=62° = 11.23
		B-5	3+20.14	0.57	L	P.O.T. 2+27.07 TO B-5 93.07 @ T=64° = 93.07
		B-8	9+66.90	0.00	—	E.O.M. B-5 TO B-8 Meas Slope 655.38' Δ: 9°18'20" Hor. = 646.76

{NOTE: Sta on B-3 Meas from B-2 direct & From P.O.T. 1+19.21 with same result}



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Base Line & Other measurements not Previously Shown July 1977

1	803.33'	Pg. 205	Meas per F.B.G. 1344 - 44
2	479.32'	"	" - 44
3	37° 33' 02"	"	" - 42
4	2631.52'	"	F.B. 3286 - 218
5	171° 24' 47"	206	F.B.G. 1344 - 42
6	832.10'	"	" - 43
7	121° 14' 10"	"	" - 42
8	966.90'	207	F.B. 3286 - 220
9	29° 48' 10"	"	F.B.G. 1344 - 43
10	133° 51' 08"	"	" - 44
11	801.28'	"	" - 44
12	28° 13' 10"	215 & 222	F.B. 3286 - 22

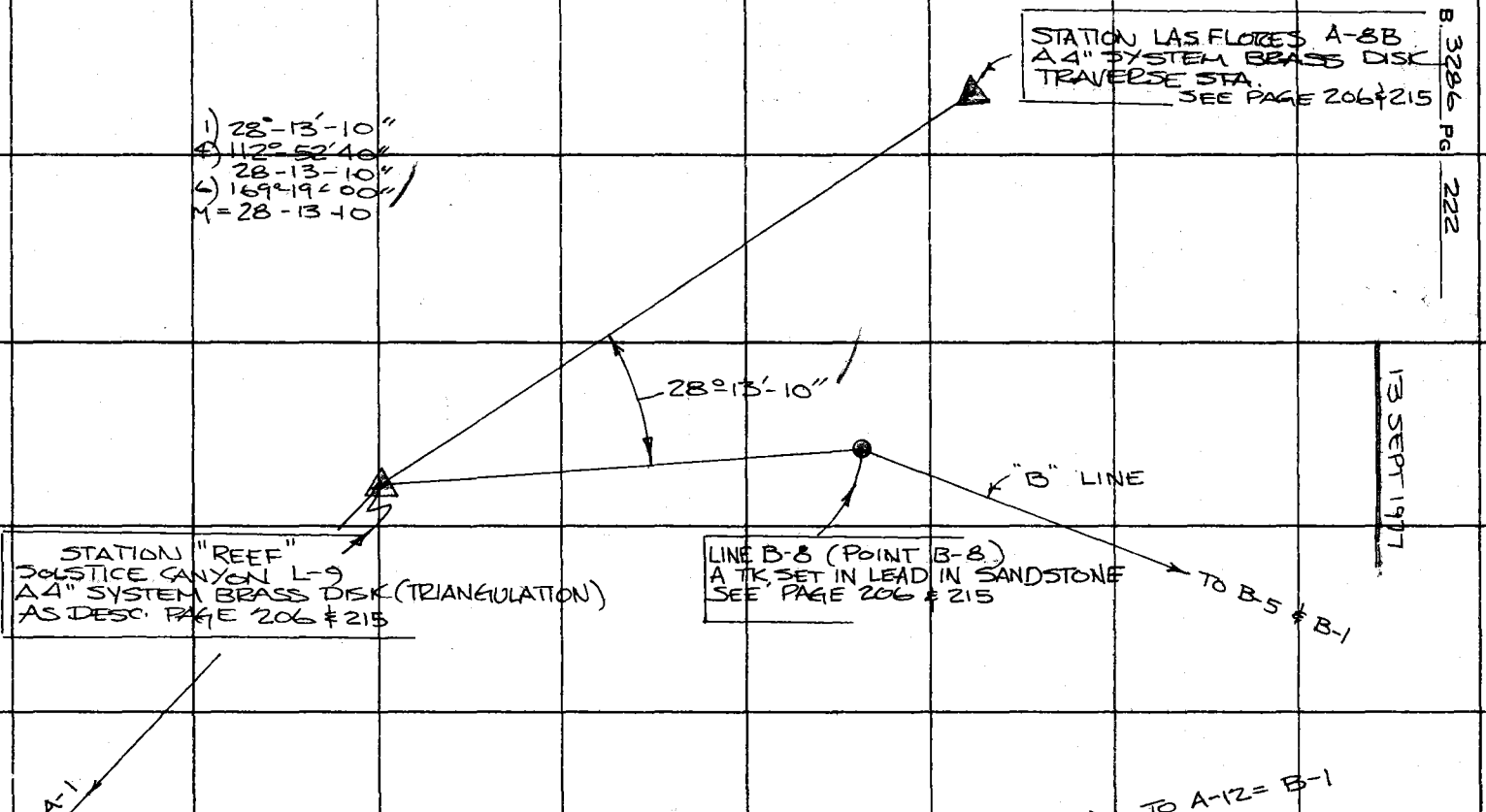
Notes Ck'd by R. HILARIO
Map No.
Office Work
Checked R. HILARIO
Date

Survey of Amarillo Bch. Landslide
JN 0301-03 Tape 020 Std. 68 °F
Surveyed by Tom Mankey
Notes Tom M. Date 7-14-77
Indexed B. D. BAILEY JUL 19 1977

F.B. 3286 PG. 221

F. B. 3286 PG. 222

13 SEPT 1977



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Profile	Notes Red.	Plotted	Job No. 0301.03	Division No.	F. B. 3286	Pg. 323
No.	Date	Date	Survey of Amarillo Beach Landslide			
X-Sec.	Notes Chkd.	Checked	Survey by Tom M.	Notes	Date 7-14-77	
No.	Date	Date	Map No.	Indexed G. D. BAILEY	Date JUL 19 1977	

J. N. 0301.03

AMARILLO BEACH LANDSLIDE

VERTICAL OBSERVATIONS

on

"A"-LINE & "B" LINE

July 1977

Mankey

Dover

Lund

Scherb

STATION	B. S.	H. I.	F. S.	ELEV.

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76L-298 S & E #307—1-56

76L-298 S & E #307—1-56

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F.B. 3286 Pg. 224 Job No. 130.03 Division No. Profile
Survey of Avenue Bch. Landslide No. X-Sec.
Survey by Tom M. Notes Tam #A Plotted Notes Red.
Indexed D. BAILEY Date JUL 19 Date Checked Notes Chkd. Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.		
(Fd) B.M. AB#1	5.385	23.71		18.322	B.M. A.B#1 EL=18.322'	F.B. 2684-75 (Vert.) F.B. 2341-7 F.B. 3286-207 (Horiz.)
T.P.	5.92	26.47	3.16	20.55		
T.P.	6.35	29.48	3.34	23.13		
A-12 Fd.	7.19	34.62	2.05	27.43		
A-11			5.81	28.81	-0.760 = 28.050	
A-10			4.22	30.40	-0.485 = 29.915	
* T.P.	10.99	42.11	3.50	31.12		
T.P.	11.075	52.67	0.525	41.59	Beg. "B" LINE	
B-2			6.925	45.74		
B-3			1.68	50.99		
T.P.	9.53	59.85	2.345	50.32		
B-4			5.81	54.04		
T.P.	8.92	67.37	1.405	58.45		
B-5			4.75	62.62	End "B" LINE	
* T.P.	3.75	34.87		31.12	T.P. See Above	
A-10A			3.98	30.89	-0.380 = 30.510	
A-10 (T.P.)	4.665	34.40	5.14	29.73	-1.920 = 27.810	
A-9			5.285	29.11	~~Break~~ -0.195 = 28.915	
T.P.	4.94	33.93	5.41	28.99		
A-8			4.95	28.98	-0.584 = 28.396	

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.		
T.P. (Kd.)		33.93			T.P. Per Pg. 224	
T.P	4.39	~~4.39~~ 32.215	6.105	27.825		
A-7			5.47	26.75	-1.280 = 25.470	
A-6A (T.P.)	4.28	29.91	6.59	25.63	-3.456 = 22.174	
A-6			5.13	24.78	-1.321 = 23.459	
T.P.	5.02	29.37	5.56	24.35		
A-5			4.33	25.04	-1.864 = 23.142	
A-4A			4.04	25.33	-1.841 = 23.489	
A-4 (T.P.)	4.93	30.80	3.50	25.87	-0.394 = 25.476	
T.P.	6.105	32.74	4.165	26.64		
A-3			4.60	28.14	-0.331 = 27.809	
A-2B			4.32	28.42	-0.834 = 27.586	
A-2A (T.P.)	5.255	34.155	3.84	28.90	-1.076 = 27.824	
A-2C			4.45	29.70	-0.613 = 29.087	
A-2			4.16	30.00	-0.399 = 29.601 = A-2	
A-1			3.75	30.41	B.M. A-1 EL.= 30.405 A 2" I.P., Conc. Plug, & C.E. Tag, Flush, in new driveway	F.B. 3286-183,213

Profile Notes Red. ____ Plotted ____ Job No. 0301.03 Division No. ____ F. B. 3286 Pg. 225
No. ____ Date ____ Date ____ Survey of Amarillo Beach Landslide
X-Sec. Notes Chkd. ____ Checked ____ Survey by T. Markey Notes T.M. Date 7-14-77
No. ____ Date ____ Date ____ Map No. ____ Index J.D. BAILEY Date JUL 19 1977

Profile No.	Notes Red	Plotted	Job No. 0021.81	Division No.	F. B. 3266 Pg. 227
	Date	Date	Survey of AMARILLO BEACH LANDSLIDE		
X-Sec. No.	Notes Chk'd.	Checked	Survey by R.C. DALE	Notes RCD	Date 2-22-78
	Date	Date	Map No.	Indexed B. D. BAILEY	Date MAR 6 1978

AMARILLO BEACH LANDSLIDE
VERTICAL OBSERVATIONS
"A" LINE & "B LINE)

J.N. 0021.81

FEB 22, 1978

DALE
ALMANZAN
SCHERB

STATION	B.S.	H.I.	F.S.	ELEV.

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76-L-298 CE 307 8-70

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STATION	B. S.	H. I.	F. S.	ELEV.	
BM AB-#1	6.093	24.415		18.322	BM AB-1 EL = 18.322 PER FB 2684-75
T.P.	6.231	25.392	5.254	19.161	AN L.A. CO SURVEYOR BRASS CAP MON MKD RE 2177 PER FB 2341-7 & 14 FB 3286-207
T.P.	6.041	27.633	3.800	21.592	
T.P.	6.709	31.224	3.118	24.515	
A-12=B-1			3.788	27.436	
A-11			3.180	28.044	2.420 + 0.760 = 3.180
T.P.	7.853	35.427	3.650	27.574	
A-10 B			5.523	29.904	5.038 + 0.485 = 5.523
TBM A	10.400	41.964	3.863	31.564	
T.P.	11.799	52.045	1.718	40.246	
B-2			6.338	45.707	
T.P.	11.285	58.894	4.436	47.609	
B-3			7.922	50.972	
T.P.	10.709	65.102	4.501	54.393	
B-4			11.068	54.034	
B-5			2.494	62.608	
TBM "A"	5.147	36.711		31.564	SAME AS TBM "A" ABOVE
A-10 A			6.260	30.451	5.880 + 0.380 = 6.260
T.P.	3.996	35.012	5.695	31.016	
A-10			7.253	27.759	5.333 + 1.920 = 7.253
T.P.	5.439	34.432	6.09	28.993	?

F. B. 3286 Pg. 228 Job No. 0021.81 Division No. Notes Red Plotted Profile
Survey of AMARILLO BEACH LANDSLIDE Date Date No.
Survey by R.C. DALE Notes R.C.D. Notes Chk'd. Checked X-Sec.
Indexed G.D. BAILEY Date MAR 6 1978 Date Date No.

76-L-298 CE 307 8-70

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STATION	B. S.	H. I.	F. S.	ELEV.	
		34.432			
A-9			5.555	28.877	5.360 + 0.195 = 5.555
T.P.	5.359	34.269	5.522	28.910	
A-8			5.925	28.344	5.341 + 0.584 = 5.925
T.P.	3.551	32.303	5.517	28.752	
T.P.	4.321	30.484	6.140	26.163	
A-7			5.100	25.384	3.820 + 1.280 = 5.100
A-6A			8.509	21.975	5.053 + 3.456 = 8.509
T.P.	4.111	28.876	5.719	24.765	
A-6			5.800	23.076	4.479 + 1.321 = 5.800
T.P.	5.479	29.891	4.464	24.412	
A-5			7.095	22.796	5.231 + 1.864 = 7.095
A-4A			6.829	23.062	4.988 + 1.841 = 6.829
A-4			4.467	25.424	4.073 + 0.394 = 4.467
T.P.	5.368	31.355	3.904	25.987	
T.P.	5.412	32.754	4.013	27.342	
A-3			4.990	27.764	4.659 + 0.331 = 4.990
A-2B			5.511	27.243	4.677 + 0.834 = 5.511
A-2A			5.144	27.610	4.068 + 1.076 = 5.144
T.P.	5.219	33.791	4.182	28.572	
A-2C			4.979	28.812	4.366 + 0.613 = 4.979

Profile Notes Red ____ Plotted ____ Job No. 2221.8 Division No. ____ F. B. 3286 Pg. 229
No. ____ Date ____ Date ____ Survey of ANABELLO BEACH CANDSCAPE
X-Sec. Notes Chk'd. ____ Checked ____ Survey by RCD Notes RCD Date 2-22-78
No. ____ Date ____ Date ____ Map No. ____ Indexed G.D. BAILEY Date MAR 6 1978

F. B. 3286 PG. 230 Job No. 002181 Division No. _____ Notes Red _____ Plotted _____ Profile

Survey of AMARILLO BEACH LANDSLIDE Date _____ Date _____ No. _____

Survey by RC DALE Notes R C D Notes Chk'd. _____ Checked _____ X-Sec.

Indexed G. D. BAILEY Date MAR 6 1978 Date _____ Date _____ No. _____

76-L-298 CE 307 8-70

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STATION	B. S.	H. I.	F. S.	ELEV.		
A-2						
A-1		33 791				
			4.242	29 549	3843 + 0.399 = 4.242	
			3440	30351	BM A-1 EL = 30.405 FB 3286-183-213 A 2" IP CONC PLUG & CA CO ENG TAG FLUSH IN DRIVEWAY.	

Notes Ck'd by	Survey of AMARILLO BEACH
Map No.	JN 0021.81 Tape — Std — °F
Office Work	Surveyed by C.K. LIND
Checked	Notes R. DOVER Date FEB 78
Date	Indexed G.D. BAILEY MAR 6 1978

F. B. 3286 PG. 231

J.N. 0021.81

AMARILLO BEACH LANDSLIDE

HORIZONTAL MOVEMENT STUDY

23 & 24 FEB 1978

PARTY

J. TERRANOVA C.K. LIND
BLANCHARD DOVER

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76F309S CE#310 3-69

"A"- LINE

23 FEB 1978

F. B. 3286 Pg 232

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT.	OFFSET L/R	NOTES:
A-17	A-1		0+00	0.00		ALL "A" LINE MEAS. WITH H.P.
		A-11	0+62.41	0.22	L	A-12 to A-11 62.41 LEVEL = 62.41 ✓
		A-10B	1+47.06	4.59	L	A-12 to A-10B 147.06 LEVEL = 147.06 ✓
		A-10A	2+68.26	4.06	L	A-12 to A-10A 268.26 LEVEL = 268.26 ✓
		A-10	4+09.23	1.36	L	A-12 to A-10 409.23 LEVEL = 409.23 ✓ / A-6A to A-10 861.86 LEVEL = 861.86 ✓
		A-9	5+62.00	1.10	L	A-6A to A-9 709.09 LEVEL = 709.09 ✓
		A-8	8+65.60	1.86	L	A-6A to A-8 405.49 LEVEL = 405.49 ✓
		A-7	11+48.05	2.22	L	A-6A to A-7 123.04 LEVEL = 123.04 ✓
		A-6A	12+71.09	1.15	L	A-1 to A-6A 1360.43 LEVEL = 1360.43 ✓
		A-6	14+32.79	3.18	L	A-1 to A-6 1198.73 LEVEL = 1198.73 ✓
		A-5	16+71.35	6.07	L	A-1 to A-5 960.17 LEVEL = 960.17 ✓
		A-4A	17+42.42	6.62	L	A-1 to A-4A 889.10 LEVEL = 889.10 ✓

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"A" LINE (CONT.)

23 FEB 1978

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSETS AMT	OFFSETS L/R	NOTES:
A-12	A-1					ALL "A"-LINE MEAS. WITH H.P.
		A-4	18+25.04	0.18	R	A-1 to A-4 806.48 LEVEL = 806.48 ✓
		A-3	22+06.76	0.16	R	A-1 to A-3 424.76 LEVEL = 424.76 ✓
		A-2B	23+00.04	1.69	L	A-1 to A-2B 331.48 LEVEL = 331.48 ✓
		A-2A	24+11.00	3.99	L	A-1 to A-2A 220.52 LEVEL = 220.52 ✓
		A-2C	25+24.30	0.80	L	A-1 to A-2C 107.22 LEVEL = 107.22 ✓
		A-2	25+53.78	0.00	—	A-1 to A-2 77.74 LEVEL = 77.74 ✓
		A-1	26+31.52	0.00	—	

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of Amarillo Beach Survey
JN 0021.8 Tape — Std — °F
Surveyed by C.K. LIND
Notes R. DOWER Date FEB 78
Indexed G. D. BAILEY MAR 6 1978

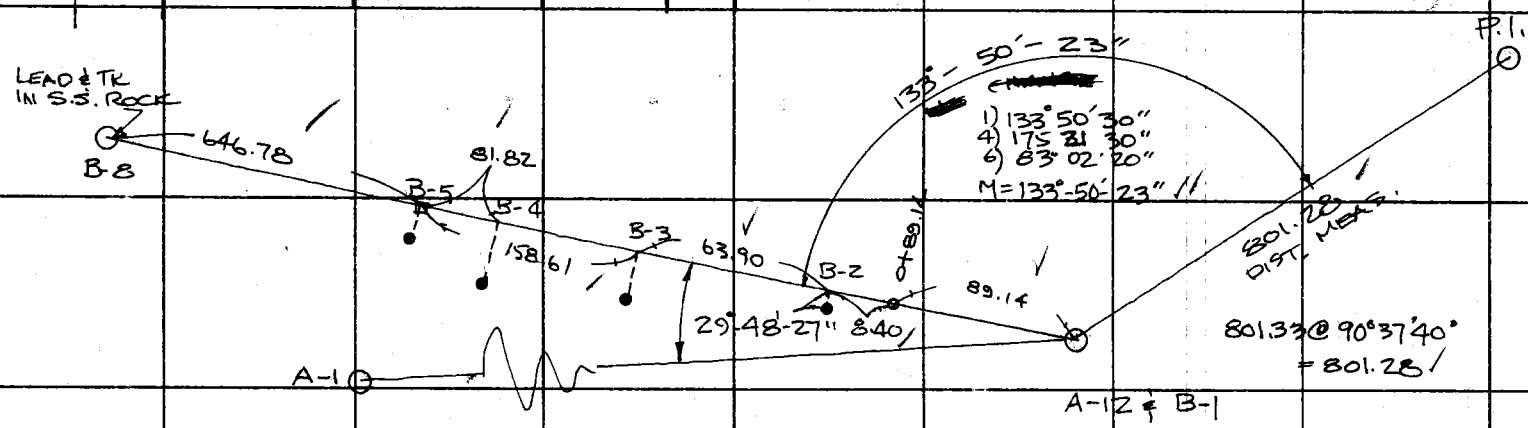
F. B. 3286 PG. 233

"B" - LINE

FEB 1978

F. B. 3286 PG. 234

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT	OFFSET L/R	NOTE: & REMARKS H.P. DIST.
B-1	B-8					
		B-2	0+97.54	0.36	L	91.255 @ 102° 21' 15" = 89.14 / H.P. DIST. 8.40 @ LEVEL = 8.40 97.54
		B-3	1+61.44	1.42	L	63.90 @ LEVEL = 63.90 / H.P. DIST.
		B-4	2+38.24	1.65	L	-B-5 to B-4 82.28 @ 96°-03'-00" = 81.82 / H.P. DIST
		B-5	3+20.05	0.57	L	+B-5 to B-2 159.04 @ 94°-14'-00" = 158.61 / H.P. DIST
		B-8	9+66.83	0.00	—	B-8 to B-5 655.32 @ 99°15'30" = 646.78 / H.P. DIST THESE DIST. MEAS ALONG TRUE LINE BETWEEN



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Checked
Date

Survey of Alamitos Beach Landfill
JN 0021.8 Tape Std °F
Surveyed by C.K. LIND
Notes R. DOXER Date FEB 78
Indexed by D. BAILEY MAR 6 1978

F. B. 3286 PG. 235

1) 28° 13' 20"
4) 112° 53' 00"
6) 169 -19-20"
M= 28° 13' 13"

1) 121°-13'-40"
4) 124° 55' 40"
6) 367 23' 20"
M=121°-13'-53"

832.65 @ 87° 53' 00" = 832.08

655.32 @ 99° 15' 30" = 646.78
320.05
966.83

TRAVERSE STA
L.F. A-8B

"REEF"-
TRIANGULATION STA.
SOLSTICE - L-9

dist.

808.41 @ 276° 26' 00" = 803.32
485.665 @ 99° 17' 20" = 479.30
1282.62

12

28° 13' 13"

1) 171°-24'-30"
4) 325 38 40
6) 308 28 00
M=171°-24'-40"

832.08

121° 13' 53"

1282.62

803.32

P.O.T.

B-8

171° 24' 40"

B-LINE
966.83

1) 29°48'30"
4) 119° 13' 50"
6) 178° 50' 40"
M= 29°48' 27"

479.30

37° 32' 55"

29° 48' 27"

A-LINE

2631.52 MEAS

A-1

A-12
B-1

1) 37°-32'-55"
4) 150° 11' 40"
6) 225 17' 30"
M= 37° 32' 55"

1360.43 @ LEVEL = ~~1343.~~ 1360.43

861.86 @ LEVEL = 861.86

409.23 @ LEVEL = 409.23
861.86
1360.43
2631.52

27 FEB 1978

F. B. 3286 PG. 236

Base Line & Other Measurements

	JULY 1976	JULY 1977	FEB. 1978	197	197
1	803.31	803.33	803.32		
2	479.31	479.32	479.30		
3	37° 32′ 57″	37° 33′ 07″	37° 32′ 55″		
4	2631.47	2631.52	2631.52		
5	171° 24′ 47″	171° 24′ 47″	171° 24′ 40″		
6	~~28° 10′ 07″~~ 832.10	832.10	832.08		
7	121° 14′ 15″	121° 14′ 10″	121° 13′ 53″		
8	966.94.	966.90	966.83		
9	29° 48′ 10″	29° 48′ 10″	29° 48′ 27″		
10	133° 51′ 00″	133° 51′ 08″	133° 50′ 23″		
11	801.29	801.28	801.28		
12	28° 13′ 07″	28° 13′ 10″	28° 13′ 13″		

SEE PAGES 205-207 INCL.
215-222-235

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Map No.	JN 0021.81 Tape H.P Std — °F
Office Work	Surveyed by C.K. LIND
Checked	Notes Date 29MAR78
Date	Indexed T.M. PALMERI AUG 4 1978

F. B. 3286 PG. 241

J.N. 0021.81

AMARILLO BEACH LANDSLIDE

HORIZONTAL MOVEMENT STUDY

REF: FB 3286-231-236

29 MARCH 1978

PARTY

LIND	ENGLISH
DALE	CARO
DOVER	BRADLEY

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76F309S CE#310 3-69

F. B. 3786 PG. 242

"A" LINE

29 MARCH 1978
31 MARCH 1978

ON LINE FROM	TO	SIGHT ON STATION	PLUSS	OFFSET AMT.	L/R	REMARKS & DESC		
A-12	A-1		0+00	0.00 0.00				
		A-11	0+62.42	0.19 0.19✓	L	62.42.	LEVEL =	62.42
		A-10B	1+47.03	4.82 4.82✓	L	147.03	LEVEL =	147.03
		A-10A	2+68.38	4.20 4.22✓	L	268.38	LEVEL =	268.38
		A-10	4+09.30	1.27 1.27✓	L	409.30	LEVEL =	409.30
		A-9	5+61.98	1.01 1.01✓	L	H.P. DIST. P.O.T. (13+81.13) TO A-9 - 819.16	LEVEL =	819.16
		A-8	8+65.62	1.86 1.86	L	H.P. DIST P.O.T. (13+81.13) TO A-8 - 515.5	LEVEL TO A-8 =	515.51
		A-7	11+48.27	2.63 2.63	L	- 232.87	LEVEL =	232.87
		A-6A	NOT RECOVERED			"DUE TO CONST. IN THIS AREA" "STABLE POINT"		
		P.O.T.	13+81.13	0.00	—	H.P. DIST. P.O.T. TO A-4 443.91	LEVEL	= 443.91
		A-6	14+32.81	4.57 4.59✓	L	P.O.T. to A-6 + 51.68	LEVEL	= 51.68
		A-5	16+71.45	9.07 9.10✓	L	P.O.T to A-5 (P.O.T. 19+23.39) - 251.94	LEVEL	= 251.94
		A-4A	17+42.52	9.99 10.02✓	L	P.O.T. to A-4A (P.O.T. 19+23.39) - 180.87	LEVEL	= 180.87

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"A" LINE (CONT.)

ON LINE FROM	ON LINE TO	SIGHT ON STATION	PLUSS	OFFSET AMT.	OFFSET L/R	REMARKS & DESC. 29 MARCH 1978 31 MARCH
A-12	A-1					H.P. DIST. (19+23.39) P.O.T. to A-4 P -98.35 LEVEL = 98.35
		A-4	18+25.04	0.21✓ 0.21	R	
		P.O.T.	19+23.39	0.00	—	H.P. DIST P.O.T to A-12 1923.39 LEVEL = 1923.39
		A-3	22+06.74	0.15 0.17✓	R	H.P. P.O.T. TO A-3 283.35 LEVEL = 283.35
		A-2B	22+99.67	3.90 3.90✓	L	H.P. DIST P.O.T to A-2B 376.28 LEVEL = 376.28
		A-2A	24+10.98	5.52 5.52	L	H.P. DIST P.O.T. 487.59 LEVEL = 487.59
		A-2C	—	—	—	NOT RECOVERED DUE TO CONST. "POINTS HISTORY FAIRLY STABLE"
		A-2	2553.78	0.00 0.00	—	H.P. DIST P.O.T. to. A-2 630.39 LEVEL = 630.39
		A-1	26+31.52	0.00	—	H.P. DIST A-12 TO A-1 LEVEL = 77.74 LEVEL = 77.74

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of AMARILLO BEACH SLIDE
JN 0021.8 Tape H.P. Std — °F
Surveyed by C.K. LIND Date 29 MAR 78
Notes
Indexed T.M. PALMERI AUG 1 1978

F. B. 3786 PG. 243

$66=
2-Men
per hour.

Pluses
Gas
West

Amarillo Beach slide 3-29-78

0+00 = A-2
6+30.39 = P.O.T.
77.74
708.13

1923.56½

22+06.76
19 23 39
283.37

23 00 04 = A-2B
22+06.76 = A-3
93.28

89° 54' 40"
19 23 39
376.32 = 376.30
22+99.77

487.60½
6.52 = off.

~~6352~~ 65

19+23.39
6 30 40
25+53.79

630 39
283.33 P.O.T. = 19+23.39
347.06 A-4 = 18+25.04 = fd.
98.35

0.21 = off. A-3 = 22+06.76 = fd.
19 23 39
~~Meas. = 2 83 34~~
0.16 = off. ~~Calc. = 2 76.65~~
~~Diff. = 6.69~~

Off. = 6.52

left 3.90 off.

A-2 = 25+53.78 = fd.
A-2A = 24 11 00 = fd.
A-2B = 23+00.04 = fd.
110.96

A-2C = 25+24.30
A-2A = 24 11 00
113.30

376

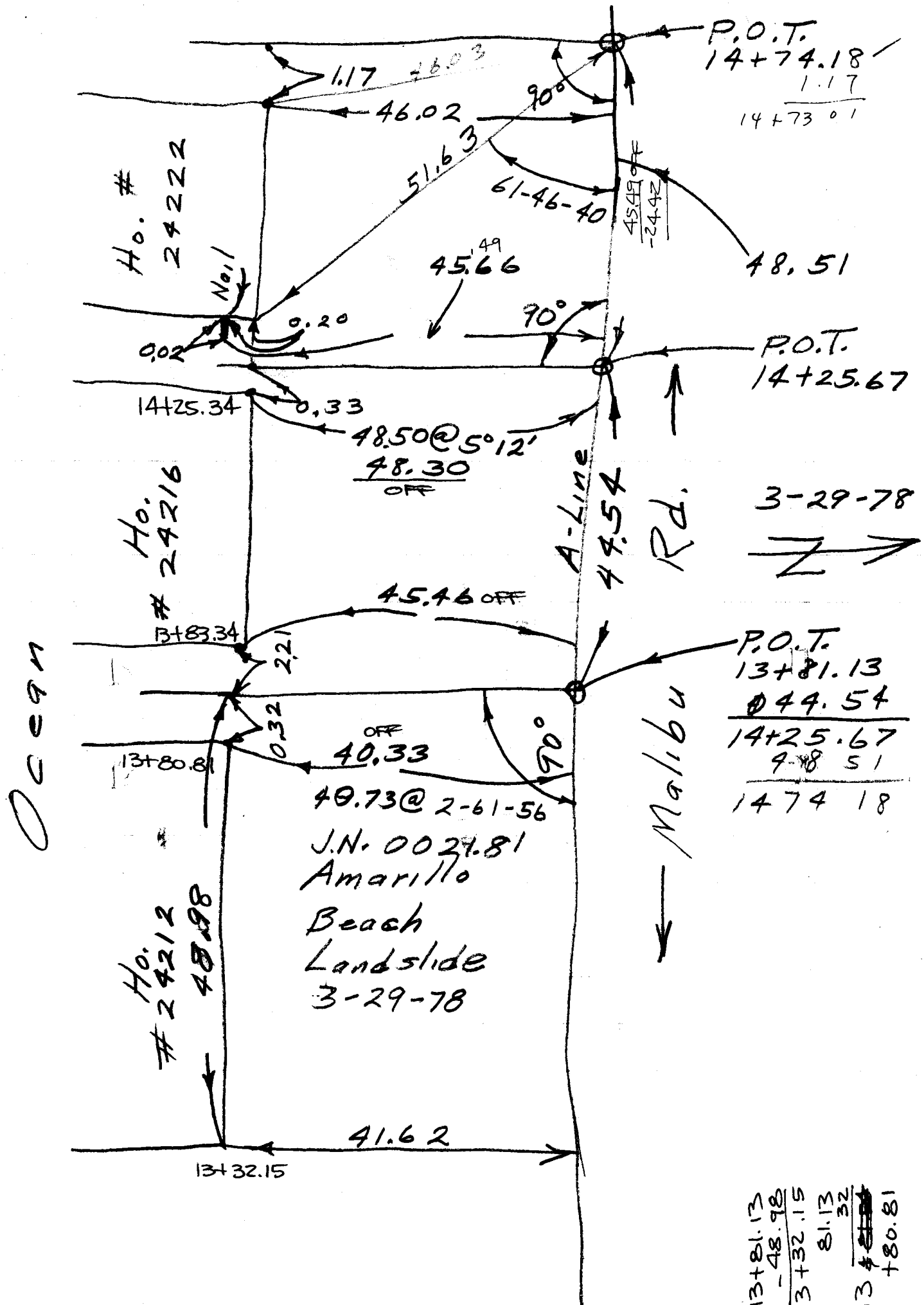
19+23.39
17+42.42 = A-4A = 9.99 off. = fd.
16 71 35
180.97
98.35
82.62

A-5 = 16+71.29 = Meas.
9.07 off.

181.15
9.99

19 23 39
252.10
16+71.29

1923.44 MEAS to END.


P.O.T.
14+74.18
1.17
14+73 01
1.17
46.03
46.02
90°
51.63
61-46-40
45.49 off
-24.42
48.51
Ho. # 24222
No. 1
45.66
.49
0.20
0.02
90°
P.O.T.
14+25.67
14+25.34
0.33
48.50@5°12'
48.30
OFF
Ho. # 24216
A-Line
44.54
Rd.
3-29-78
45.46 OFF
13+83.34
2.21
P.O.T.
13+81.13
44.54
14+25.67
48 51
1474 18
0.32
OFF
40.33
13+80.81
90°
40.73@ 2-61-56
J.N. 0021.81
Amarillo
Beach
Landslide
3-29-78
Ocean
Malibu
Ho. # 24212
48.98
41.62
13+32.15
13+81.13
-48.98
3+32.15
81.13
32
3
+80.81

Notes Ck'd by	Survey of AMARILLO BEACH SLIDE
Map No.	JN 0021.81 Tape Std °F
Office Work	Surveyed by C.K. LIND
Checked	Notes R. DOVER Date 29 MAR 78
Date	Indexed T.M. PALMERI AUG 1 1978

F. B. 3286 PG. 245

J.N. 0021.81

AMARILLO BEACH LANDSLIDE

MOVEMET STUDY ALONG MALIBU ROAD

HOUSE Nº 24212, 24216, 24222

PARTY	
LIND	ENGLISH
DALE	CARO
DOVER	BRADLEY

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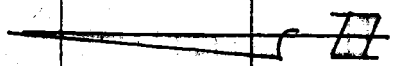
76F309S CE#310 3-69

F. B. 3286 PG. 246



A-LINE

A-6A

13+32.15 — 41.62 OFF — A

HOUSE #24212

48.98

B

13+80.81 — 40.30 OFF

FOUND SPK. W & TIN FLUSH

13+81.13 — 90° — 0.32 — 2.21

13+83.34 — 45.46 OFF

C

HOUSE # 24216

14+32.81 — 4.57 — A-6

43'±

D

14+25.34 — 48.30 OFF

14+25.67 — 90° — 0.33

SET SQ SPK & TIN

~~45.66 OFF~~

~~45.46 TO COR BLDG.~~

~~14+48.56~~

"PATIO"

HOUSE # 24222

0.20

E

14+49.76 — 45.66

45.46 TO COR. BLDG.

COR.

"A" LINE

24.42 CALC & MEAS.

F

SET SQ SPK & TIN

14+73.01 — 46.02 OFF

14+74.18 — 90° — 1.17

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Map No.	JN 0021.81 Tape — Std — °F
Office Work	Surveyed by C.K. LIND
Checked	Notes R. DOVER Date MAR 78
Date	Indexed T.M. PALMER AUG 1 1978

F. B. 3286 PG. 247

J.N. 0021.81

AMARILLO BEACH LANDSLIDE

MOVEMENT STUDY OF POINTS ALONG
"MALIBU ROAD" HOUSE # 24213 # 24216 # 24222

PARTY

LIND	ENGLISH
DALE	CARO
DOVER	BRADLEY

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16F3095 CE#310 3-68

HOUSE #	1978	DATE: 3-27	DATE: 3-31-78	DATE: 4-3-78	DATE: 4-6-78	DATE: 4-11-78	1978
A-6-A	OFFSET	NOT OBS.	NOT OBS.	NOT OBS.	NOT OBS.		F.B. 3286 PG 248
Ⓐ	PLUSS	13+32.15	13+32.13	13+32.17	13+32.18	13+32.18	
	OFFSET	41.62	41.57	41.56	41.53	41.56	
# 24212	ELEV.	—	27.28	27.29	27.32	27.32	
Ⓑ	PLUSS	13+80.81	13+80.81	13+80.82	13+80.82	13+80.81	
	OFFSET	40.30	40.30	40.29	40.30	40.29	
	ELEV.	NONE TAKEN	24.32	24.36	24.37	24.38	
13+81.13	OFFSET.	0.00	0.03	0.01	0.00	0.00	
Ⓒ	PLUSS	13+83.34	13+83.34	13+83.35	13+83.36	13+83.35	CONT. TO F.B. 4311 - PAGE 148
	OFFSET	45.46	45.44	45.48	45.43	45.47	
# 24216	ELEV.	NONE TAKEN	25.16	25.19	25.20	25.22	
Ⓓ	PLUSS	14+25.34	14+25.33	14+25.33	14+25.33	14+25.33	
	OFFSET	48.30	48.34	48.30	48.32	48.30	
	ELEV.	NONE TAKEN	APPARENT ERROR	24.17	24.20	24.22	
14+25.67	OFFSET	0.00	0.02	—	—	0.00	
14+32.81	A-6 OFFSET	4.57	4.59	4.57	4.59		
Ⓔ	PLUSS	14+49.76	14+49.76	14+49.74	14+49.76	14+49.77	
	OFFSET	45.66	45.71	45.68	45.67	45.68	
# 24222	ELEV.	NONE TAKEN	27.63	27.66	27.67	27.70	
Ⓕ	PLUSS	14+73.01	14+73.02	14+73.01	14+73.01	14+73.00	
	OFFSET	46.02	46.03	46.00	46.01	46.00	
	ELEV.	NONE TAKEN	23.20	23.21	23.22	23.24	
14+73.00					0.00	0.00	
14+74.18	OFFSET	0.06	0.03				
16+71.45 A-5	OFFSET	0.07	0.10				

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Map No.	JN 0021.81 Tape H.P. Std —— °F
Office Work	Surveyed by C.K. LIND
Checked	Notes R. DOVER Date 31MAR78
Date	Indexed T.M. PALMERI

F. B. 3286 PG. 249

AUG 1 1978

J.N. 0021.81

AMARILLO BEACH LANDSLIDE

LOCATION OF 31 WELLS
ALONG NORTH EDGE OF MALIBU ROAD
LOCATION OFF OFF "A" LINE

PARTY

LIND	ENGLISH
DALE	CARO
DOVER	BRADLEY

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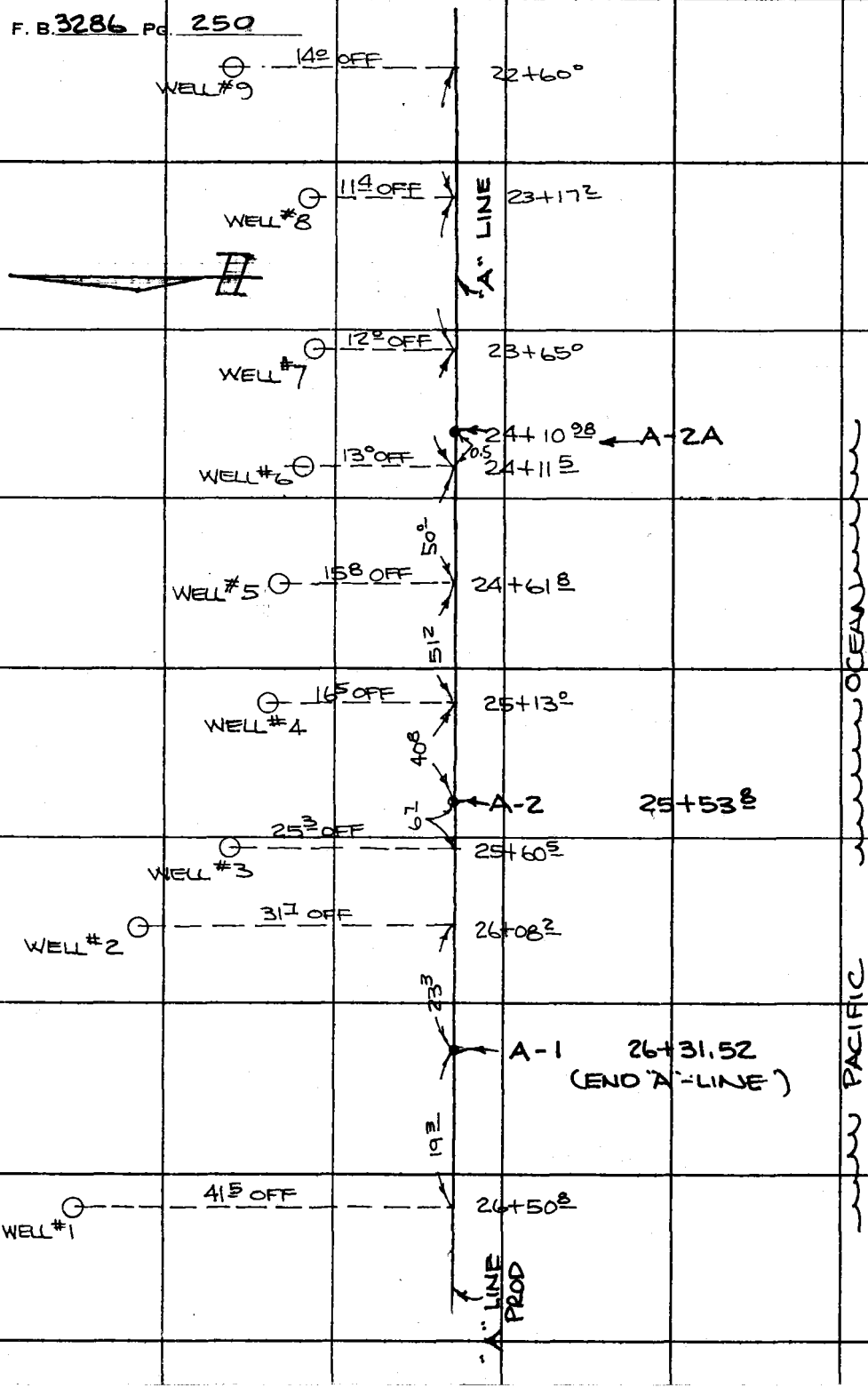
76F309S CE#310 3-69

F. B. 3286 PG. 250



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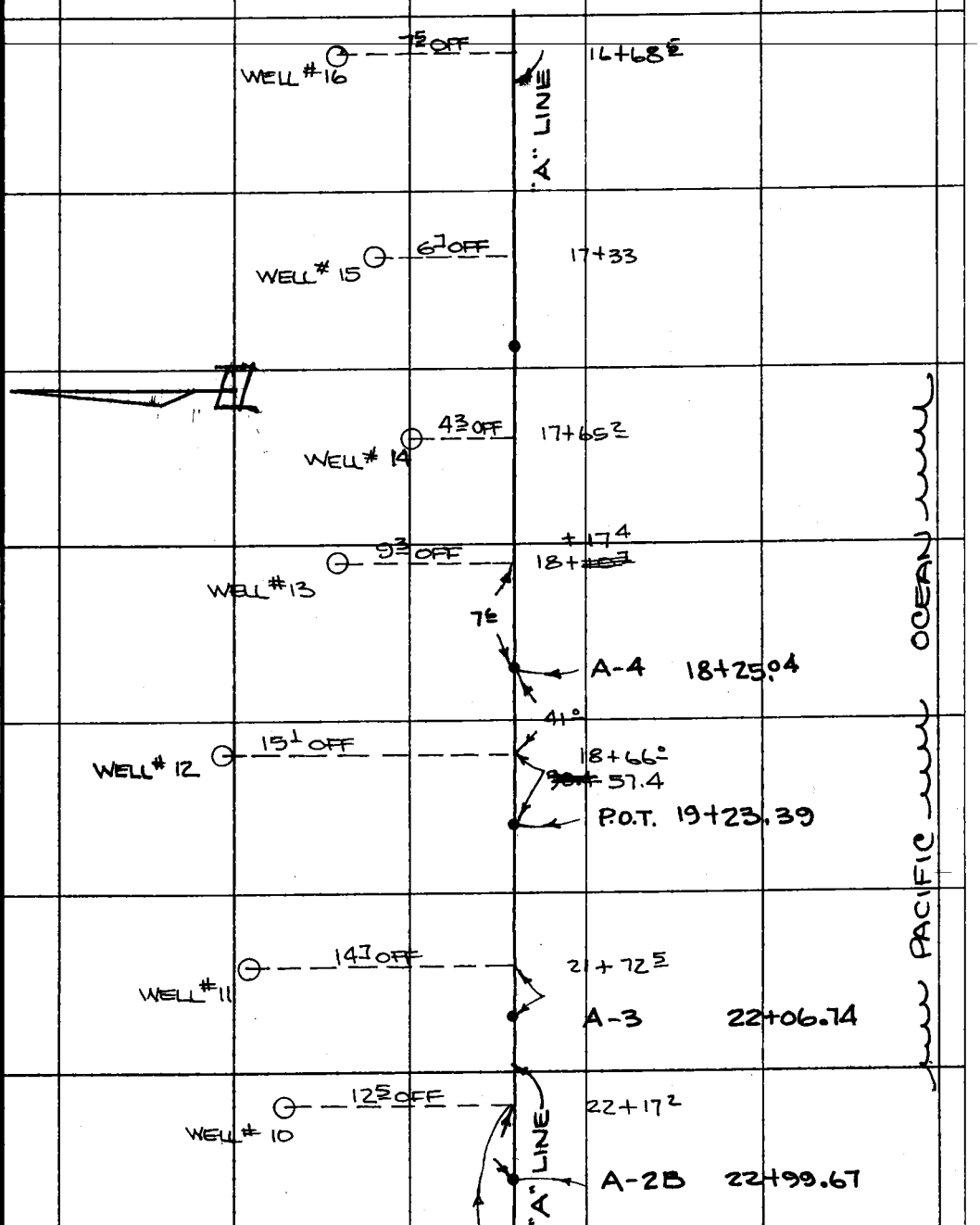
Notes Ck'd by	Survey of AMARILLO BEACH SLIDE
Map No.	JN 0021.81 Tape — Std — °F
Office Work	Surveyed by C.K. LIND
Checked	Notes R. DOVER Date 31 MAR 78
Date	Indexed T.M. PALMERI AUG 1 1978

F. B. 3286 PG. 251



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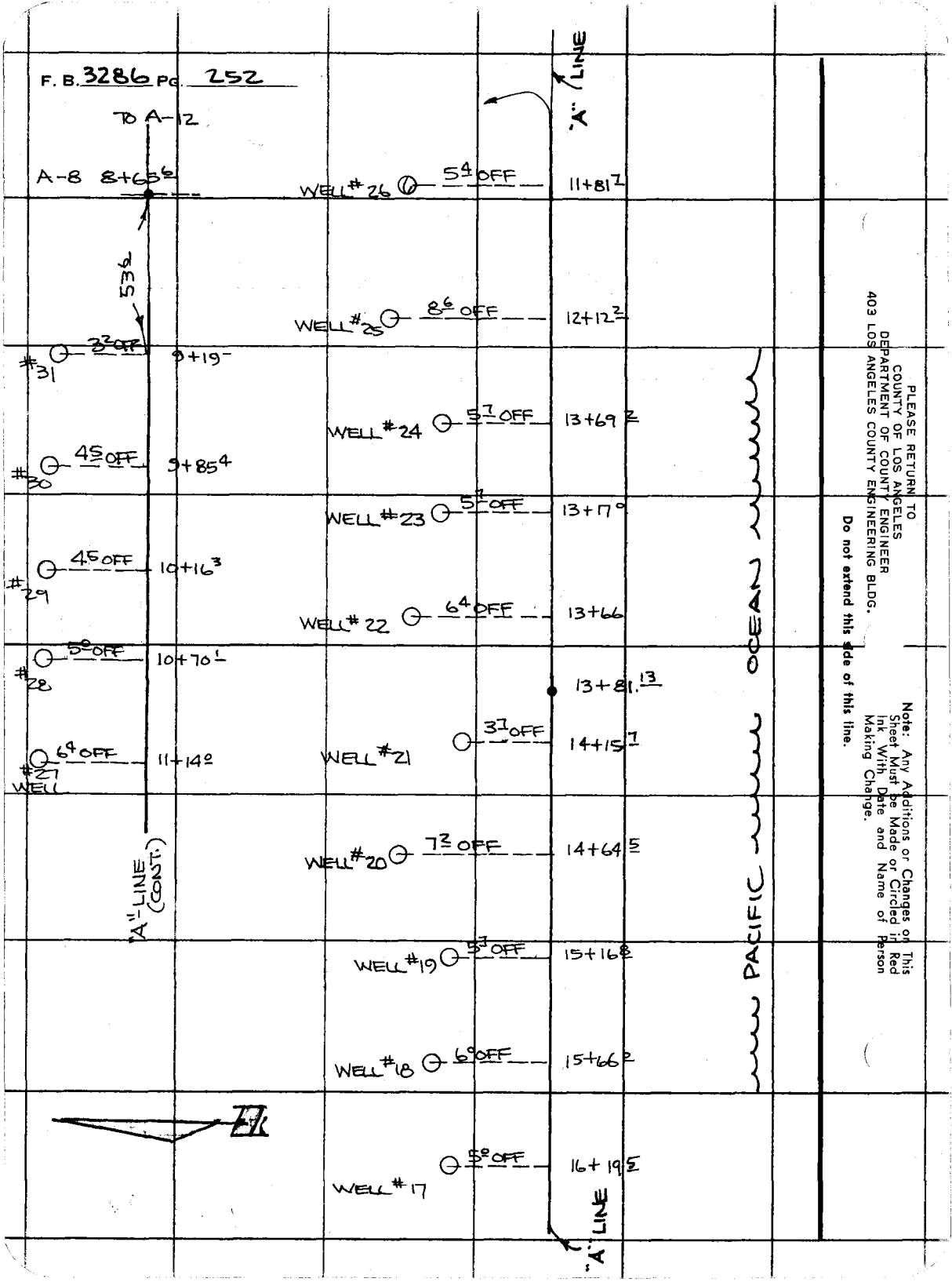

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April 5, 1978

Amarillo Beach Landslide J.N. 0021.81

Levels from: A-12 To: A-1 Ref.: F.B.

STATION	B. S.	H. I.	F. S.	ELEV.	
fd. B.M. AB-1	6 337	24 659		18 322	B.M. AB-1, el.=18322, F.B. 2684-75 C.S. Brass Cap mon. - dn. 1'. F.B. 2341-7 & 14.
T.P.	6 630	26 767	4 522	20 137	
T.P.	7 237	29 827	4 177	22 590	El.=27.431
A-12	8 304	35 728	2 403	27 424	2" I.P.
A-11			7 690	28 038	6.930 + 0.760 = 7.690
A-10 B			5 942	29 786	5.457 + 0.485 = 5.942
A-10 A			5 278	30 450	4.898 + 0.380 = 5.278
T.P.	4 184	35 649	4 263	31 465	
A-10			7 893	27 756	5.973 + 1.920 = 7.893
T.P.	5020	34 082	6 587	29 062	
A-9			5 182	28 900	4.987 + 0.195 = 5.182
T.P.	4 940	34 147	4 875	29 267	
A-8			5 806	28 341	5.222 + 0.584 = 5.806
T.P.	4 846	32 640	6 353	27 794	

Profile No. X-Sec. No.
Notes Red. Date
Notes Chk'd. Date
Plotted Date
Checked Date
Job No. 0021.81
Division No.
Survey of Amarillo Beach Ed. Date 4-5-78
Survey by English Notes
Map No. Indexed T.M. PALMER Date AUG 1 1978
F.B. 3286 PG. 253

76-L-298 CE 307 5-66

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F. B. 3286 Pg. 254 | Job No. 0021.81 | Division No. | Notes Red | Plotted | Profile No.
Survey of Amarillo Beach Slide | Date | Date | X-Sec. No.
Survey by English Notes Ed. | Notes Chk'd. | Checked
Indexed | Date | Date | Date

STATION	B. S.	H. I.	F. S.	ELEV.		April 5, 1978
A-7		32 640	7 414	25 226	6.134 + 1.280 =	7.414
T.P.	2 847	28 549	6 938	25 702		
"A"			1 23	27 32	House #24212,	N.E. Cor.
P.O.T.	4 588	30 032	3 105	25 444	13+81 13	
"B."			5 66	24 37	" " ,	N.W. "
"C."			4 83	25 20	" #24216 ,	N.E. "
T.P.	4 538	28 600	5 970	24 062		
"D"			4 40	24 20	" "	N.W. " (door Jam)
A-6			6 156	22 444	4.835 + 1.321 =	6.156
"E."			0 93	27 67	" #24222	N.E. "
"F."			5 38	23 22	" "	N.W. "
T.P.	5 378	28 865	5 193	23 487		
A-5			6 691	22 174	4.827 + 1.864 =	6.691
A-4 A			6 543	22 322	4 702 + 1.841 =	6.543
A-4			3 437	25 428	3.043 + 0.394 =	3.437
T.P.	6 665	31 827	3 703	25 162		
T.P.	6 282	33 339	4 770	27 057		
A-3			5 568	27 771	5.237 + 0.331 =	5.568
A-2 B			6 998	26 341	6.164 + 0.834 =	6.998
T.P.	5 858	33 183	6 014	27 325		
A-2 A			6 026	27 157	4.950 + 1.076 =	6.026
A-2			3 636	29 547	3.237 + 0.399 =	3.636
A-1			2 830	30 353	A-1 el = 30.405 30.307	F.B. 3286-183

2" I.P. P.& C.E. Tag. - In Driveway.

Notes Ck'd by	Survey of AMARILLO BEACH SLIDE
Map No.	JN 0021.81 Tape H.P Std °F
Office Work	Surveyed by C.K. LIND
Checked	Notes R. DOVER Date MAR 5 78
Date	Indexed T.M. PALMERI AUG 1 1978

F. B. 3286 PG. 255

J.N. 0021.81

AMARILLO BEACH LANDSLIDE

COMPARATION SHEETS

PARTY	
LIND	ENGLISH
DALE	CARO
DOVER	BRADLEY

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76F309S CE#310 3-69

F. B. 3286 PG 256

STATION	23 FEB 1978 PLUSS	OFF	ELEV.	29 MARCH 1978 PLUSS	OFF	ELEV	5 APRIL 1978 PLUSS	OFF	ELEV.	
A-12	0+00		27.436	0+00		27.390	0+00		27.424	
A-11	0+62.41	0.22	28.044	0+62.42	0.19	28.002	0+62.40	0.22	~~27.424~~ 28.038	
A-10B	1+47.06	4.59	29.904	1+47.03	4.82	29.757	1+47.00	4.82	29.786 ~~28.038~~	
A-10A	2+68.26	4.06	30.451	2+68.38	4.22	29.411	2+68.33	4.22	30.450 ~~29.786~~	
A-10	4+09.23	1.36	27.759	4+09.30	1.27	27.724	4+09.28	1.27	27.756 ~~30.450~~	
~~A-9~~	5+62.00	1.10	28.877	5+61.98	1.01	28.558	5+62.04	1.01	28.900	SEE PAGE ~~259~~ FB 4311 - PAGE 6
A-8	8+65.60	1.86	28.344	8+65.62	1.86	28.305	8+65.66	1.90	28.341	
A-7	11+48.05		25.384	11+48.27	2.63	25.188	11+48.32	2.69	25.226	
A-6A	12+71.09	1.15	21.975	—	—	—	—	—	~~29.444~~	
13+81.13		[redacted]		13+81.13	0.00	25.404	13+81.15	0.00	25.444	
A-6	14+32.79	3.18	23.076	14+32.81	4.57	22.410	14+32.77	4.59	22.444	
A-5	16+71.35	6.07	22.796	16+71.45	9.07	22.137	16+71.49	9.11	22.174	
A-4A	17+42.42	6.62	23.062	17+42.52	9.99	22.284	17+42.52	10.04	22.322	
A-4	18+25.04	0.18R	25.424	18+25.04	0.21R	25.385	18+25.03	0.19R	25.428	
A-3	22+06.76	0.16R	27.764	22+06.74	0.17R	27.730	22+06.71	0.17R	27.771	
A-2B	23+00.04	1.69	27.243	22+99.67	3.90	[redacted]	22+99.65	3.90	26.341	
A-2A	24+11.00	3.99	27.610	24+10.98	5.52	27.117	24+10.94	5.52	27.157	
A-2C	25+24.30	0.80	28.812	25+—	—		—	—		
A-2	25+53.78	0.00	29.549	25+53.78	0.00	29.481	25+53.77	0.00	29.547	
A-1	26+31.52		30.351	26+31.52		30.307	26+31.54		30.353	

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April 7, 1978

Amarillo Beach Landslide J.N. 0021.81

Levels from: A-12 To: A-1.

STATION	B. S.	H. I.	F. S.	ELEV.		
fd. B.M. AB-1	6 402	24 724		18 322	B.M. AB-1, F.B. 3286-253. {C.S. Br. Cap mon. dn. 6"	
T.P.	6 766	27 207	4 283	20 441		
T.P.	7 513	30 487	4 233	22 974		
A-12	9 140	36 564	3 063	27 424	2" I.P. - dn. 6".	
A-11			8 530	28 034	7.770 + 0.760 =	8.530
A-10 B			6 790	29 774	6.305 + 0.485 =	6.790
A-10 A			6 122	30 442	5.742 + 0.380 =	6.122
T.P.	4 646	35 550	5 660	30 904		
A-10			7 797	27 753	5.877 + 1.920 =	7.797
A-9			6 655	28 895	6.460 + 0.195 =	6.655
T.P.	5 414	34 884	6 080	29 470		
T.P.	3 735	32 856	5 763	29 121		
A-8			4 527	28 329	3.943 + 0.584 =	4.527
T.P.	4 375	30 687	6 544	26 312		
A-7			5 483	25 204	4.203 + 1.280 =	5.483

Profile No. X-Sec. No. Notes Red. Date Notes Chk'd. Date Plotted Date Checked Date Job No. 0021.81 Survey of Amarillo Beach Landslide Survey by English Notes Ed. Date 4-7-78 Map No. Indexed T.M. PALMER Date AUG 1 1978 Division No. F.B. 3286 PG. 257

76-L-298 CE 307 5-66

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F. B. 3286 Pg. 258 | Job No. 0021.81 | Division No. Beach Slide Ed. | Notes Red ____ Date ____ | Plotted ____ Date ____ | Profile No. ____ | X-Sec. No. ____

Survey of Amarillo | Notes Chk'd. ____ Date ____ | Checked ____ Date ____

Survey by English | Notes ____ Date ____

Indexed ____

April 5, 1978

STATION	B. S.	H. I.	F. S.	ELEV.		
		30 687				
P.O.T.	3 443	28 870	5 260	25 427	13+81.13	
A-6			6 445	22 425	5.124 + 1.321 =	6.445
T.P.	7 270	31 232	4 908	23 962		
A-5			9 079	22 153	7.215 + 1.864 =	9.079
A-4 A			8 931	22 301	7.090 + 1.841 =	8.931
A-4			5 831	25 401	5.437 + 0.394 =	5.831
T.P.	5 795	32 111	4 916	26 316		
A-3			4 358	27 753	4.027 + 0.331 =	4.358
T.P.	5 152	33 349	3 914	28 197		
A-2 B			7 039	26 310	6.205 + 0.834 =	7.039
A-2 A			6 219	27 130	5.143 + 1.076 =	6.219
T.P.	7 335	35 568	5 116	28 233		
A-2			6 046	29 522	5.647 + 0.399 =	6.046
A-1			5 290	30 328	A-1, 2' I.P., F.B.	3286-254.

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DATE: 10 APRIL 1978

STATION	PLUSS	OFF	ELEV.	PLUSS	OFF	ELEV.	PLUSS	OFF	ELEV.
A-12	0+00	0.00	27.43						
A-11	0+62.41	0.20	28.04						
A-10B	1+47.00	4.82	29.78						
A-10A	2+68.33	4.22	30.45						
A-10	4+09.30	1.27	27.76						
A-9	5+62.05	1.01	28.90						
A-8	8+65.64	1.90	28.35						
A-7	11+48.30	2.68	25.23						
A-6A	NOT RECOV.	N.R.	—						
13+81.13	13+81.13	0.00	25.45						
A-6	14+32.77	4.59	22.45						
A-5	16+71.48	9.13	22.18						
A-4A	17+42.54	10.02	22.33						
A-4	18+25.04	0.21R	25.43						
A-3	22+06.78	0.17R	~~26.40~~ 27.78						
A-2B	22+99.68	3.90	26.34						
A-2A	24+10.94	5.52	27.16						
A-2C	NOT RECOV.	N.R.	—						
A-2	25+53.78	0.00	29.55						
A-1	26+31.54	0.00	30.36						

SEE PAGE 256

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of AMARILLO BEACH SLOPE
JN 0021.81 Tape H.R. Std — °F
Surveyed by C.K. LIND
Notes R. DOVER Date 10 APR 78
Indexed T.M. PALMERI AUG 1 1978

F. B. 3280 PG. 259

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