Notes Ck'd by	Surveyed
Map No.	W. O. 0021.64 Tape No. Sr'd. °F
Office Work	Surveyed by LIND
Checked	Notes Lind Date 1-58
Date	Indexed A. C. Johnson 1-7-58

J.N. 0021.64

LEVELS
ON
PORTUGUESE BEND LANDSLIDE

SEE F.B. 2281
FOR
PRECEDING NOTES

JAN. 1958
LIND
PETERSON
GOODWIN
FOULGER
MATHER

76L298 S & E #307 9-54

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Profile No. ____ Notes Red ____ Plotted ____ Job No. ____ Division No. 12
X-Sec. No. ____ Date ____ Date ____ Survey of Portuguese Bend Slides
Notes Chkd. ____ Checked ____ Survey by ____ Notes C. Jobe Date 12-30-57
Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 2315 Pg. 7

Line #1 — 12-30-57

STATION	B. S.	H. I.	F. S.	ELEV.		
STA B10	1102	+71577		470.475	B10 July 57 ADJ. EL. = 470.475	
T.P.	0549	+60526	11561	459716		
T.P.	0443	449298	11105	+45855		
T.P.	0402	+38428	11272	+38026		
T.P.	1162	42 3651	10939	427489		
T.P.	1689	+18799	11541	417110		
T.P.	4444	412002	11241	+07558	SPK	
T.P.	3720	409752	5770	406232		
T.P.	4208	406055	6105	403847		
P.B. # 9	4163	406321	3889	402166		
T.P.	6100	+10421	3968	404361		
T.P.	6118	+13071	3500	406921		
P.I. #3			4545	406534		
T.P.	5645	+16089	3935	409644		
T.P.	0770	411714	4345	+13944		
T.E.M. #39	1502	406866	6350	405364		
T.P.	6570	406153	7283	399583		
T.P.	5670	408041	3782	402371		
P.I. #4	5730	409844	3927	404114		
T.P.	6208	412 3944	3708	406136		

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F. B. 2318 Pg. 8 Job No. 002164 Division No. 10 Notes Red. Plotted
Survey of Portuguese Bend Landslide Date. Date. No.
Survey by Line Notes Line Notes Chkd. Checked X-Sec.
Indexed C. Johnson Date Date. Date. No.
Profile

STATION	B. S.	H. I.	F. S.	ELEV.		
		412.344				
T.P.	8572	416513	4403	407941		
T.P.	10745	426536	0722	415791		
6-7 R.M.#1			4868	421668		
S.P. Hills 6-7			5785	420751		
6-7 R.M.#2	0600	422386	4750	421786		
T.P.	2073	413494	10965	411421		
T.P.	0619	402349	11364	401730		
T.P.	0519	391871	10497	391352		
T.P.	3495	384667	10699	381172		
T.P.	2660	380300	7027	377640		
P.I. #3	0741	373715	7526	372154		
T.P.	1070	362985	11800	361915		
T.P.	0520	352470	11035	351950		
P.I. #2	3868	344475	11663	340607		
P.I. #1	1498	337002	8771	335504	*	
	Beg. 009.169 to S.P. Hills H-7A Ecc.#2 & H-7A					
T.P.	0243	325335	11910	325092		
T.P.	0963	315016	11282	314053		
T.P.	1293	304629	11480	303336		
T.P.	1050	294391	11288	293341		
T.P.	7475	293163	8703	285688		

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STATION	B. S.	H. I.	F. S.	ELEV.		
		293 163				
H7A ELL. 1 S.P. HILLS			5 022	288141		
H-7A. S.P. HILLS			4 808	288355		
		END DOG LEG				
P. I. #1	1 021	336525		335 504	*	CONT. FROM PREVIOUS PAGE
T.P.	0 368	325 078	11 815	324710		
T.P.	0 203	313 811	11 470	313 608		
T.P.	0 927	302 953	11 785	302 026		
B.S.	1 061	292 072	11 942	291 011		
T.P.	2 360	282 424	12 008	280 064		
P. B. #10	0 923	280 430	2 917	279 507		
T.P.	0 460	269 742	11 148	269 282		
T.P.	0 449	259 538	10 653	259 089		
T.P.	0 366	248 975	10 929	248 609		
T.P.	0 353	237 932	11 396	237 579		
T.P.	0 296	226 923	11 305	226 627		
T.P.	1 032	216 829	11 126	215 797		
W. F. #1			6385	210 444		
T.P.	1 057	206 294	11 592	205 237		
T.P.	1 022	195 802	11 514	194 780		
T.P.	0 874	184 909	11 767	184 035		

Profile Notes Red. ____ Plotted ____ Job No. 0021.64 Division No. C F. B. 2318 Pg. 9
No. ____ Date ____ Date ____ Survey of Portuguese Bend Landslide
X-Sec. Notes Chkd. ____ Checked ____ Survey by ____ Notes ____ Date ____
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

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F. B. 2318 Pg. 10 | Job No. 0021.64 Division No. 10 | Notes Red. | Plotted | No.
Survey of Portuguese Bend Landslide | Date | Date | X-Sec.
Survey by Lino Notes Lino | Notes Chkd | Checked | No.
Indexed C. Tahmasebi Date | Date | Date

STATION	B. S.	H. I.	F. S.	ELEV.		
		184 909				
T.P.	0 552	174179	11282	173627		
B.M. "F"			6303	167876		
T.B.M. # 31			7174	167005	T.B.M # 31, July 1957 ADJ. EL. = 167.050	
					PALOS VERDES DR S. & ENTRANCE TO	
					WAY FARERS CHAPEL.	

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STATION	B. S.	H. I.	F. S.	ELEV.	Line # 3	1-3-58
BM 50-13	1296	209187		207.891	BM 50-13 July 57	Adj. Elev. = 207.891
T.P.	0339	200219	9307	199880		
T.P.	1423	191960	9602	190537		
T.P.	0376	180957	11379	180581		
T.P.	0311	170076	11224	169735		
T.P.	0419	158983	11482	158564		
T.P.	0424	147990	11517	147466		
Sta = K-5	3675	139719	11855	136025		
T.P.	0670	133414	8268	132744		
T.P.	0377	123031	10760	122654		
T.P.	0747	111925	11853	111178		
K-5 Aux.			10156	101769		
T.P.	0392	101261	11056	100869		
T.P.	2577	92493	11345	89916		
Sta. K-4	0702	85957	7238	85255		
Sta. K-A			4398	81859		
Sta. K.A.B.	0805	75966	10856	75101		
Sta. K-B	0825	67143	9538	66318		
TBM# 28	1648	62365	6426	60717	*	
Sta. K-C			4264	58101		
Sta. K-3A			3735	58630		

Profile Notes Red. Plotted Job No. 6021.64 Division No. 10 F. B. 2318 Pg. 11
No. Date Date Survey of Lomita Square Blvd. Lanterne
X-Sec. Notes Chkd. Checked Survey by Line Notes Line Date 1-3-58
No. Date Date Map No. Indexed C. Johnson

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STATION	B. S.	H. I.	F. S.	ELEV.		
		62 365				
T.P.	10 941	72851	0 455	61 910		
T.P.	5952	78065	0738	72113		
T.P.	9407	86918	0554	77 511		
T.P.	7933	94056	0795	86 123		
T.P.	10 716	103644	1128	92 928		
T.P.	11 549	114597	0596	103 048		
T.P.	10465	124331	0731	113 866		
T.B.M. #25	8196	132052	0475	123 856		
T.P.	10525	141353	1224	130828		
T.P.	8103	147698	1758	139595		
T.P.	6609	152307	2000	145 698		
T.P.	11003	161920	1390	150917		
T.P.	9858	171403	0375	161545		
T.P.	11357	182481	0279	171124		
T.P.	11778	193808	0451	182030		
T.P.	10488	203 751	0545	193265	*	
	BEG. DOG LEG to K-1					
T.P.	10 660	214 126	0285	203 466		
Sta. K-1			0468	213 658		

F. B. 2318 Pg. 12 Job No. 0021-64 Division No. 10 Notes Red. Plotted Profile
Survey of PORTUGUESE BEND LANDSLIDE Date Date No.
Survey by LINO Notes LINO Notes Chkd. Checked X-Sec.
Indexed C. Johnson Date Date Date No.

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STATION	B. S.	H. I.	F. S.	ELEV.		
	10206	203469		193263	* SEE PREVIOUS PAGE	
BM 34-17A	4618	193577	9510	193959		
T.P.	5385	199736	4226	194351		
T.P.	4211	199654	4293	195443		
T.P.	2971	196253	6372	193282		
T.P.	0870	188131	8992	187261		
T.P.	0975	177156	11950	176181		
B.M. 34-18			8444	168712	B.M. 34-18, July 1957 Adj. EL = 168.682	
	SIDE LINE FROM T.B.M. #28					
T.B.M. #28	1600	62317		60717	* See pg. 11, 3rd Line From bott.	
T.P.	0821	51660	11478	50839		
KD			3057	48603		
T.P	0242	40640	11262	40398		
K.E			1341	39299		
T.B.M. #27			5730	34910		
K-2	2598	32053	11185	29455		
T.P.	1473	23317	10209	21844		
T.P.	4380	23065	4632	18685		
T.B.M.-26B			6443	16622		
T.B.M. 26C			5159	17906		
T.B.M. #26			6420	16645		

Profile No. ____ Notes Red. ____ Date ____ Plotted ____ Date ____ Job No. 0071.64 Division No. 10 F. B. 2318 Pg. 13
X-Sec. No. ____ Notes Chkd. ____ Date ____ Checked ____ Date ____ Survey of PORTUGUESE BEND LANDSLIDE
Survey by [illegible] Notes [illegible] Date 1-3-58
Map No. ____ Indexed ____ Date ____

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F. B. 2318 Pg. 14 Job No 0021.04 Division No. 10 Notes Red. Plotted
Survey of Portuguese Bend Landslide Date Date
Survey by Line Notes TCP Notes Chkd. Checked
Indexed C. Johnson Date Date Date
Profile No. X-Sec. No.

STATION	B. S.	H. I.	F. S.	ELEV.		
T.B.M.#26	4533	21178		16645		
T.B.M.-26 D			4130	17048		
T.B.M.-26 E			2852	18326		
T.B.M.-26 A			3180	17998		
T.P.	4219	20605	4792	16386		
T.P.	3201	20086	3720	16885		
T.P.	4200	12936	11350	8736		
P.B.#1			5300	7636		
T.P.	6052	12859	6129	6807		
T.P.	4219	16531	0547	12312		
P.B.-2A			4368	12163		
T.P.	4875	10566	10840	5691		
P.B.-3		BURIED BY SLIDE				
P.B.-3A		UNABLE TO LOCATE				
P.B.#4	6818	10324	7060	3506		
P.B.# 5			1755	8569		
P.B.# 5A			9522	0802		
T.P.	6522	11256	5590	4734		
T.P.	5365	11471	5150	6106		
P.B.#6			1368	10103		
P.B.-6A			11069	0411		

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STATION	B. S.	H. I.	F. S.	ELEV.		
		11471				
T.P	11742	15330	7883	3588		
P.B.# 7			3512	11818	*	
		BEGIN	DOGLEG	TO	P.B. # 8	
	4705	16523				
T.P.	0948	15730	1741	14782		
T.P.	3922	17307	2345	13385		
P.B. #8			9295	8012	END DOG LEG	
P.B. # 7	9132	20950		11818	*	
T.P	11670	31200	1420	19530		
T.P.	9156	34498	5858	25342		
T.P.	10950	44714	0734	33764		
T.P.	10953	55055	0612	44102		
T.P.	9891	62810	2136	52919		
T.B.M. #28			2052	60758	* SEE PAGE 13	
					END OF RUN	

Profile No. ____ Notes Red. ____ Date ____ Plotted ____ Date ____ Job No. 0021.64 Division No. 10 Survey of PORTUGUESE BEND LANDSLIDE F. B. 2318 Pg. 15

X-Sec. No. ____ Notes Chkd. ____ Date ____ Checked ____ Date ____ Survey by LIND Notes T.C. Date ____ Map No. ____ Index C. Johnson Date ____

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STATION	B. S.	H. I.	F. S.	ELEV.	LINE # 5	1-8-58
Stg. B 1-D	1612	472 087		470 475	STA. B-1D JULY 1957	ADJ. EL = 470.475
T.P.	0858	463 162	9783	462304		
T.P.	2 502	453 826	11 838	451314		
B 1-C	0733	443 064	11 495	442331		
T.P.	0191	432 433	10 822	432242		
T.P.	2293	425 171	9560	422873		
T.P.	0946	418 521	7 596	417575		
P.T. # 1			1 007	417514		
T.P.	0315	407 958	10 881	407640		
P.T. #2	0857	398391	10 451	397504 *		
		BEG. DOG LEG.				
S. BAY #1	0967	390 886	8 472	389919		
S. BAY #2	0255	383 515	7 626	383 260		
T.P.	0938	373802	10 651	372864		
T.P.	0991	363 056	11 743	362059		
S. BAY #3			10184	352866		
		END DOG LEG				
P.T. #2	.1143	398647	647	397 504 *		
T.P.	0484	391917	7214	391433		
P.T. #3			5711	386208		
T.P.	0339	381492	10764	381153		

Profile No. ____ Date ____ Notes Red. ____ Plotted ____ Date ____ Job No. 0021.64 Division No. ____ F. B. 2316 Pg. 17
X-Sec. No. ____ Date ____ Notes Chkd. ____ Checked ____ Date ____ Survey of PORTUGUESE BEND LANDSLIDE
Survey by LINO Notes LINO Date 1-8-58
Map No. ____ Indexed C. Johnson Date 1-10-58

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STATION	B. S.	H. I.	F. S.	ELEV.		
		381 492				
P.T. # 4	0788	371 073	11 207	370 285	*	
	BEG DOG LEG to H 1, H-2 & H-4					
	2108	361 636	11 545	359 528		
H-1			10 389	351 247		
T.P.	1088	351 564	11 160	350 478		
T.P.	1 000	342 340	10 224	341 340		
H-2	1111	331 695	11 756	330 584		
T.P.	2189	322 411	11 473	320 222		
H-4			9 328	313 083		
	END DOG LEG					
	BEG DOG LEG TO WEST FIX					
P.T. # 4	9944	380 229		370 285	*	
T.P.	9340	388 451	1 118	379 111		
T.P.	10 748	395 107	4 092	384 359		
W. FIX			1279	393 828		
	END DOG LEG.					
P.T. # 4	0428	370 713		370 285	*	
T.P.	0393	351 835	11268	359 445		
T.P.	0621	351 113	9346	350 492		
P.T. # 5	0694	342 183	9624	341 489		

F. S. 2318 Pg. 18 Job No. 0021.64 Division No. 10 Notes Red. Plotted Profile
Survey of PORTUGUESE BEND LANDSLIDE Date Date No. X-Sec.
Survey by LINO Notes LINO Notes Chkd. Checked
Indexed K. C. Johnson Date Date Date No.

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STATION	B. S.	H. I.	F. S.	ELEV.		
		342183				
T.P.	1154	[illegible]	10057	332126		
T.A.	0843	322166	11457	321323		
P.T. [illegible]	6215	320159	8222	313944 *		
	Beg. Dog Leg to I-1, I-2 & I-3					
I-1			1613	318546		
T.A.	0607	309282	11484	309675		
T.P.	0424	299485	10221	299064		
I-2	5647	294240	10312	288593		
I-3			3739	285451		
	End Dog Legs					
P.T. #6	0857	314308		313944 *		
L-1			4588	310244		
T.E.	0749	304193	[illegible]	303443		
T.P.	0317	292929	11571	292622		
T.P.	6295	256958	10276	282662 *		
	Beg. Dog Leg to Blakeslee					
T.P.	10348	298614	0695	288263		
[illegible]	[illegible]	306442	0422	298179		
Stn Blakeslee			2576	303864		
	End Dog Leg					

Profile Notes Red. Plotted Job No. Division No. F. B. Pg.
No. Date Date Survey of
X-Sec. Notes Chkd. Checked Survey by Notes Date
No. Date Date Map No. Ind. C. Johnson 1-8-58

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F. B. 23/8 Pg. 20 | Job No. 0021-64 | Division No. 10 | Notes Red. | Plotted | No. | Profile
Survey of PORTUGUESE BEND LANDSLIDE | Date | Date | X-Sec.
Survey by LIXO | Notes T.G.P. | Notes Chkd. | Checked | No.
Indexed C. Johnson | Date | Date | Date

STATION	B. S.	H. I.	F. S.	ELEV.		
T.P.	0545	283 208		282 663*	SAME T.P. AS pg 19, 6th Line	
P.T. # 7	2928	275 138	10 998	272210	From 60#	
T.P.	0182	269 142	6178	268960		
T.P.	0741	258 316	11567	257575		
T.P.	0930	248 168	11078	247238		
T.P.	0837	237 723	11282	236886		
T.P.	0920	226 795	11848	225875		
T.P.	1200	217 763	10232	216563		
T.P.	1403	209 539	9627	208 136		
B.M.C			5030	204 509		
T.P.	0720	199 467	10 792	198 747		
B.M. 34-17A			5483	193984		
T.P.	5590	199 969	5688	194379		
T.P.	4409	199 878	4500	195 469		
T.P.	3276	196 595	6559	193 319		
T.P.	1141	188 438	9298	187 297		
T.P.	0839	177 411	11866	176 572		
B.M. 34-18			8681	168 730	B.M. 34-18, 7-57 Adj. EL = 168.682	
		END OF RUN				

76L298 S & E #307 9-54

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STATION	B. S.	H. I.	F. S.	ELEV.	LINE # 4	1-13-58
B.M. 34-15	4513	233730		229.217	B.M. 34-15 ELEV = 229.217	1957 Adj.
T.P.	4097	232436	5390	228339	Palos Verdes Dr. So & Yahct [illegible]	
T.P.	3251	[illegible]	5185	227251		
T.P.	2846	227913	[illegible]	225067		
T.P.	2978	225840	5051	222862		
T.P.	2357	222010	6187	219653		
T.P.	2413	[illegible]	6419	215591		
T.P.	3605	215367	[illegible]	211762		
T.P.	4385	213095	[illegible]	208710		
B.M. 50-13	3381	211285	5191	207904	B.M. 50-13, 7-57	Adj. EL = 207.891
T.P.	3405	206858	7832	203453		
T.B.M. #15	6457	206184	7163	199615		
T.P.	7780	211594	[illegible]	203812		
Sta. J-5	[illegible]	208051	9138	202458		
T.P.	6004	[illegible]	[illegible]	204032		
RADIAL 2	10463	215312	5187	204849		
T.P.	10092	224218	1186	214122		
Sta. J-4			2182	222036		
Sta. J-3	7519	228588	-0.967	221.069	Portuguese Canyon	
T.P.	1599	218663	11522	217066		
Sta. J-1	0908	211582	7991	210674		

	π EAST	π WEST
	+ 5.280	+ [illegible]
	− 6.252	− [illegible]
	−0.972	−0.9[illegible]

Av = −0.967

Profile Notes Red. ____ Plotted ____ Job No. [illegible] Division No. 10 F. B. 2318 Pg. 21
No. ____ Date ____ Date ____ Survey of [illegible]
X-Sec. Notes Chkd. Gross Checked ____ Survey by Line Notes Line Date 1-13-58
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Jo[illegible] Date 1-15-58

76L298 S & E #307 9-54

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
		211 582				
T.P.	2279	205822	8039	203543		
B-M-"D"			7536	198286		
T.P.	6612	201917	10517	195305		
T.P.	8855	206674	4095	197819		
T.P.			11292	195382 *		
	BEG. SIDE LINE TO J-1A					
T.P.	11237	217468	0443	206231		
T.P.	11189	228425	0232	217236		
T.P.	9923	237508	0840	227585		
Sta. J-1A			0182	237326		
	END SIDE LINE					
T.P.	2878	198260		195382 *		
T.P.	6892	199917	5235	193025		
T.P.	4039	199192	4764	195153		
BM-34-17A	4650	198588	5254	193933		
T.P.	5493	199827	4254	194334		
T.P.	3981	199410	4398	195421		
T.P.	1412	194699	6123	193287		
T.P.	0754	184534	10919	183780		
T.P.	0919	177101	8352	176183		

F. B. 2318 Pg. 22 Job No. 0021.64 Division No. 10 Notes Red. Plotted Profile
Survey of PORTUGUESE BEND LANDSLIDE Date Date No. X-Sec.
Survey by LINO Notes LINO Notes Chkd. GOSS Checked
Indexed E. Johnson Date Date Date No.

76L298 S & E #307 9-54

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STATION	B. S.	H. I.	F. S.	ELEV.		
		[illegible]				
B.M. 34-18	1651	[illegible]	[illegible]	168.[illegible]	B.M. 34-18, 7-[illegible]	Adj. [illegible]
T.P.	[illegible]	[illegible]	[illegible]	[illegible]		
T.P.	5973	[illegible]	4855	157684		
Stg. P-3			[illegible]	[illegible]		
T.P.	5644	[illegible]	3412	160246		
T.P.	[illegible]	[illegible]	[illegible]	161734		
Stg. P-2	6612	170 [illegible]	[illegible]	[illegible]		
[illegible]			[illegible]	[illegible]	B.M. # 31, 7-57	Adj. Elev. [illegible]

Profile Notes Red. ____ Plotted ____ Job No. ____ Division No. ____ F. B. ____ Pg. ____

No. ____ Date ____ Date ____ Survey of ____

X-Sec. Notes Chkd. [illegible] Checked ____ Survey by ____ Notes ____ Date ____

No. ____ Date ____ Date ____ Map No. ____ Index [illegible] C. Johnson Date ____

76L298 S & E #307 9-54

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Profile Notes Red. ____ Plotted ____ Job No. 2021.04 Division No. 10
No. ____ Date ____ Date ____ Survey of Roadway Surveys F. B. 2315 Pg. 25
X-Sec. Notes Chkd. G.C.S.S. Checked ____ Survey by T. Jones Notes Kenny Date 1-22-58
No. ____ Date ____ Date ____ Map No. ____ Inspector C. Jones Date 1-22-58

STATION	B. S.	H. I.	F. S.	ELEV.	LINE # 2	1-22-58
B.M. 50-13	3253	211174		207 871	B.M. 50-13; EL = 207.871, 3-5" A.L.	
T.P.	11404	217854	03317	206547		
T.P.	9817	207662	02117	197845		
T.P.	10213	213197	02579	202618		
T.P.	11803	245219	03579	233416		
T.P.	11188	255104	03603	244916		
T.P.	11431	266718	03823	255287		
T.P.	11827	276142	2456	264262		
T.P.	11107	286101	11151	274992		
T.P.	11613	296904	03514	285257		
T.P.	10463	306253	11107	295713		
T.P.	8225	314874	10891	306561		
STA. STATION	7947	318278	3743	310535		
T.P.	7973	322710	3535	314743		
STA. G-1	6474	322207	6983	315733		
T.P.	9940	327778	4369	317838		
STA A-4			5569	322209	∧ EAST + 5.569 - 1.522 + 4.047	∧ WEST + 7.966 - 3.933 + 4.033
STA A-3	9558	335807	+4040	326249		
T.P.	10852	344212	2447	333360		
T.P.	11273	354263	1222	342990		
T.P.			0228	354035		

76L298 S & E #307 9-54

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STATION	B. S.	H. I.	F. S.	ELEV.		
T.P.	11861	365896		354035		
RADIAL 1	4418	367411	2903	362993		
T.P.	0342	357394	10359	357052		
T.P.	3868	350318	10944	346450		
BM 50-12	7352	353212	4458	345860		
BM B-2					FIELD PLOWED - UNABLE TO LOCATE	
T.P.	7892	359293	1811	351401		
T.P.	10108	367814	1587	357706		
T.P.	10648	377979	0483	367331		
T.P.	9208	386897	0290	377689		
D-2	4579	390763	0713	386184		
T.P.	10737	400362	1138	389625		
T.P.	10998	411023	0337	400025		
T.P.	11320	421706	0637	410386		
T.P.	11969	433015	0660	421046		
RD DEPT T.B.M.			1252	431763		
T.P.	10554	440641	2928	430087		
STA. E-1	9685	443014	7312	433329		
STA. D-1	2437	439743	5708	437306		
STA. C-1	1158	433664	7237	432506		
T.P.			9060	424604		

F.S. 2318 Pg. 26 Job No. 0021.64 Division No. 10 Notes Red. Plotted Profile
Survey of PORTUGUESE BEND LANDSLIDE Date Date No. X-Sec.
Survey by LIND Notes T.C.P. Notes Chkd. GOSS Checked
Indexed C. Johnson Date Date Date No.

76298 S & E #307—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.		
T.P.	0263	424.867		424.604		
T.P.	3402	422.527	5742	419.125		
B-1			4860	417.667		
B-1A	10525	424.164	8888	413.639		
B-1B			5080	419.134		
T.P.	5263	426.269	3158	421.006		
T.P.	9924	432.790	3403	422.866		
T.P.	11077	443.315	0552	432.238		
B-1C	11556	453.879	0992	442.323		
T.P.	11718	463.032	2565	451.314		
T.P.	9747	472.041	0738	462.294		
B-1D			1561	470.480	BM B-1D FIELD ELEV. 470.475'	

Profile Notes Red. Plotted Job No. 00264 Division No. 10 F. B. 2318 Pg. 27
No. Date Survey of PARTUGUESE BEND LANDSLIDE
X-Sec. Notes Chkd. GOSS Checked Survey by LIND Notes T.C.P. Date 1-22-58
No. Date Date Map No. Indexed C. J. Date Date

76298 S & E #307—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.	LEVEL LINE # 1
Sta B-1D	0620	471095		470475	B-1D, 6-57 Add. EL = 470.475
T.P.	0509	460222	11382	459713	
T.P.	0221	449062	11381	448841	
T.P.	0385	438398	11049	438013	
T.P.	1238	428727	10909	427489	
T.P.	1471	418579	11619	417108	
T.P.	4840	412398	11021	407558	
T.P.	3680	409917	6161	406237	
T.P.	4301	408148	6070	403847	
P.B. 9	3990	408147	3991	404157	
T.P.	6269	410846	3570	404577	
T.P.	6490	413447	3889	406957	
P.I. # 5			4920	408527	
T.P.	6269	415908	3808	409639	
T.P.	1469	412407	4970	410938	
T.B.M. # 30	1472	406840	7039	405368	
T.P.	6383	405975	7248	399592	
T.P.	5837	408211	3601	402374	
P.I. # 4			4082	404129	
T.P.	6238	411820	2629	405582	
T.P.			4102	407718	

Profile Notes Red. Plotted Job No. 0021.64 Division No. 10 F. B. 2318 Pg. 29
No. Date Date Survey of PORTUGUESE BEND LANDSLIDE
X-Sec. Notes Chkd. GOSS Checked Survey by LIND Notes TCP Date 1-27-58
No. Date Date Map No. Indexed C. Johnson Date 1-29-58

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F. B. 23/8 Pg. 30 | Job No. 002164 | Division No. 10 | Notes Red. | Date | Plotted | Date | Profile | No.
Survey of DB Land Sec 04 | Notes | T. 2 S. | Notes Chkd. GOSS | Date | Checked | Date | X-Sec. | No.
Surveyed by H. C. Johnson | Notes | Date | Date
Indexed

STATION	B. S.	H. I.	F. S.	ELEV.		
T.P.	3059	410777		407 718	✓	
T.P.	8366	416334	2809	407968	✓	
T.P.	10439	426250	0523	415811	✓	
R.M.#1			4555	421695	✓	421.651
G-7			5472	420778	✓	420.734
RM.#2	0491	422302	4439	421811	✓	421.767
T.P.	1902	413344	10860	411442	✓	
T.P.	0276	402033	11587	401757	✓	
T.P.	0793	392171	10655	391378	✓	
T.P.	2736	383549	11358	380813	✓	
T.P.	3230	380007	6772	376777	✓	
P.I.#3	0910	373887	7083	372977	✓	372.933
T.P.	1583	364486	10984	362903	✓	
T.P.	0642	354019	11109	353377	✓	
T.P.	1164	345724	9479	344540	✓	
P.I.#2			5019	340705	✓	340.661
P.I.#1	1334	336934	10122	335602	✓	335.558
	BEG.	SIDE	LINE		✓	N 10 C.C. & 47A.
T.P.	0532	325721	11747	320181	✓	
T.P.	0708	314553	10911	314150	✓	
T.P.	1087	304618	11427	303431	✓	

76298 S & E #307—7-55

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STATION	S. S.	H. I.	F. S.	ELEV.	LINE # 1	
		304 518				
T.P.	0799	294 235	11 082	293 436		
	7725	293 505	8 435	285 780		
H-7-A ECC#2			5 280	288 225	288.181 S.P. HILLS	
H-7A			5 057	288 448	288.404 SP HILLS	
	END SIDE LINE					
P.I. # 1	0 580	336 182		335 602	*335.558 pg 30	5th LINE FROM OUT
T.P.	0266	324 765	11 683	324 499		
T.P.	0789	314 505	11 049	313 716		
T.P.	0 325	303 291	11 539	302 966		
T.P.	0 448	291 841	11 348	291 393		
B.S.			0725	291 116	291.072	
T.P.	3 355	283 520	11 679	280 162		
P.B. # 10	0530	280 131	3 919	279 601	279.557	
T.P.	0 366	269 749	10 748	269 383		
T.P.	0339	259 520	10 568	259 181		
T.P.	0 520	249 240	10 800	248 720		
T.P.	0 908	238 589	11 559	237 681		
T.P.	0 286	227 023	11 852	226 737		
T.P.	1330	217 231	11 122	215 901		
W. F. #1			6709	210 522	210.478	

Profile Notes Red. ____ Plotted ____ Job No. 0021.64 Division No. 10 F. B. 2318 Pg. 31
No. ____ Date ____ Date ____ Survey of PORTUGUESE BEND LANDSLIDE
X-Sec. Notes Chkd. GOSS Checked ____ Survey by LIND Notes ____ Date ____
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson

76298 S & E #307—7-55

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F. B. 2318 Pg. 32 | Job No. 0231.64 | Division No. 10 | Notes Red. | Plotted | Profile
Survey of Portuguese Bend Landslide | Date | No. | X-Sec.
Surveyed by C. Johnson | Notes Hand Level | Notes Chkd. GOS | Checked
Indexed | Date | Date | No.

STATION	B. S.	H. I.	F. S.	ELEV.		
		217.231				
T.P.	0.634	205.964	11.901	205.330		
T.P.	1.266	196.140	11.090	185.874		
T.P.	0.785	185.[illegible]	12.016	184.130		
T.P.	0.709	174.426	7.[illegible]	173.717		
B.M. "F"			6.492	167.934	167.934	
T.B.M. # 31			7.37	167.057	167.059 T.B.M. # 31	July 1957 Adj. EL = 167.050

End of Run:

76298 S & E #307—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.	LINE # 3	2-5-58
B.M. 50-13				207.891	B.M. 50-13, 6-57	
	0387	200.25N				
T.P.	1731	192.27N	9.705	190.548		
T.P.	0.316	191.053	11.475	180.734		
T.P.	0.636	170.364	11.324	161.728		
T.P.	0.313	158.556	11.791	158.521		
T.P.	0.407	147.058	11.357	147.149		
Sta — K-5	4.105	140.734	11.231	136.919		
T.P.	0.833	129.396	11.242	129.254		
T.P.	0.416	123.054	6.758	123.692		
T.P.	1.657	111.208	11.688	111.117		
T.P.	0.567	101.431	11.944	101.664		
T.P.	2.079	92.658	10.852	90.779		
Sta. K-4	0.243	56.033	34.771	65.057		
Sta. K-A			4.358	21.675		
Sta K-A2	1.270	70.201	11.921	59.280		
Sta K-A	1.054	67.138	11.124	66.072		
T.B.M. # 25	2.473	63.133	2.471	66.135	*	
Sta K-3			5.140	57.993		
Sta. K-3A	7.428	52.225	4.674	55.479		
T.P.	11.328	73.022	2.102	61.894		

Profile Notes Red. Plotted Job No. Division No.
No. Date Date Survey of F. B.
X-Sec. Notes Chkd. Checked Survey by Notes C. Johnson Date
No. Date Date Map No. Inspected Date

F. B. 2313 PG. 34 Job No. 2021.64 Division No. 10 Notes Red. ____ Plotted ____ Profile

Survey of [illegible] Date ____ Date ____ No. ____

Survey by Lind Notes Lind Notes Chkd. Goss Checked ____ X-Sec.

Indexed K. C. Johnson Date ____ Date ____ Date ____ No. ____

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STATION	B. S.	H. I.	F. S.	ELEV.
		[illegible]		
[illegible]	4.355	78.443	[illegible]	72.08[illegible]
T.P.	10.175	86.464	2.15[illegible]	76.28[illegible]
T.P.	7.82[illegible]	[illegible]	1.65[illegible]	84.61[illegible]
T.P.	11.74[illegible]	[illegible]	[illegible]	[illegible]
T.P.	[illegible]	[illegible]	[illegible]	98.6[illegible]
T.P.	[illegible]	120.6[illegible]	[illegible]	108.7[illegible]
T.P.	7.669	124.8[illegible]	3.45[illegible]	[illegible]
T.B.M.# 25	[illegible]	133.66[illegible]	[illegible]	[illegible]
T.P.	10.764	[illegible]	2.83[illegible]	130.830
T.P.	[illegible]	[illegible]	[illegible]	[illegible]
T.P.	[illegible]	[illegible]	[illegible]	[illegible]
T.P.	[illegible]	[illegible]	[illegible]	[illegible]
T.P.	[illegible]	[illegible]	[illegible]	[illegible]
T.P.	[illegible]	[illegible]	[illegible]	171.[illegible]
T.P.	[illegible]	[illegible]	[illegible]	[illegible]
T.P.	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]
T.P.	[illegible]	[illegible]	[illegible]	[illegible]
Sta. K-1			[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]	

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STATION	B. S.	H. I.	F. S.	ELEV.		
T.P.	10 556	[illegible]		193 21[illegible]	* Same T.P. as [illegible]	Pg. 34 [illegible]
[illegible]	4 742	[illegible]	16[illegible]	[illegible]		
T.P.	[illegible]	199 54[illegible]	4 [illegible]	[illegible]		
T.P.	4 [illegible]	199 544	[illegible]	[illegible]		
T.P.	1 [illegible]	194 259	6 252	192 372		
T.P.	0 [illegible]	188 14[illegible]	7 008	187 [illegible]		
T.P.	0 [illegible]	[illegible]	11 778	176 16[illegible]		
[illegible]			[illegible]	[illegible]	B.M. [illegible]	[illegible]
T.B.M. # [illegible]	0 761	61 [illegible]		60 [illegible]	* Pg. 33 [illegible]	[illegible]
T.P.	0 837	51 400	[illegible]	[illegible]		
Sta. K-[illegible]			[illegible]	48 [illegible]		
T.P.	0 431	40 [illegible]	11 432	39 968		
Sta. K-E			[illegible]	37 812		
T.B.M # 27			5 [illegible]	34 [illegible]		
Sta. K-2	1 [illegible]	30 991	[illegible]	2[illegible]		
T.P.	1 603	23 426	[illegible]	21 8[illegible]		
T.P.	3 983	22 [illegible]	4 [illegible]	1[illegible]		
T.B.M # 26B			6 140	16 521		
T.B.M. # 26B			4 790	17 871		
T.B.M. # 26	4 411	20 993	6 079	16 582		

Profile Notes Red. _____ Plotted _____ Job No. [illegible] Division No. 10 F. B. [illegible] Pg. [illegible]
No. _____ Date _____ Date _____ Survey of Portuguese Bend Landslide
X-Sec. Notes Chkd. [illegible] Checked _____ Survey by _____ Notes _____ Date [illegible]
No. _____ Date _____ Date _____ Map No. _____ Indexed C. Johnson Date _____

76298 S & E #307—7-55

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
		20 993				
T.B.M #26 D			[illegible]	17 [illegible]		
T.B.M #26 E			2 605	[illegible]		
T.B.M #26 A			2 950	[illegible]		
T.P.	2 475	17 170	4 298	16 695		
T.P.	3 [illegible]	21 382	[illegible]	[illegible]		
P.B. # 1	3 105	[illegible]	13 770	7 [illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	12 535		
P.B. #2-A			[illegible]	[illegible]		
T.P.	[illegible]	[illegible]	[illegible]	[illegible]		
P.B. # 3			[illegible]	[illegible]	[illegible]	[illegible]
T.P.	[illegible]	[illegible]		49	[illegible]	[illegible]
P.B. 5			[illegible]	[illegible]		
P.B. 5-A			[illegible]	[illegible]		
T.P.	4 252	8 517	[illegible]	[illegible]		
T.P.	6 265	12 [illegible]	2 524	5 993		
P.B. # 6					[illegible]	
P.B. # 6 A			[illegible]	[illegible]		
T.P.	10 515	13 536	[illegible]	[illegible]		
P.B. # 7	[illegible]	16 [illegible]	[illegible]	11 809		

F. B. [illegible] Pg. 36 Job No. [illegible] Division No. 10 Notes Red. Plotted Date No. Profile

Survey of [illegible] Notes Chkd. Goss Checked Date X-Sec.

Survey by C. Johnson Notes Date Date No.

Indexed Date

76298 S & E #307—7-55

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
		BEG. SIDE LINE TO P.B. 8				
		16 647				
T.P.	1 305	16 01[illegible]	1 85[illegible]	14 790		
T.P.	3 975	17 398	[illegible]	13 423		
P.B.# 8			[illegible]	8 001		
		END SIDE LINE				
P.B. # 7	[illegible]	[illegible]		11 8[illegible]	* Pg 36 Left Line	
	732	33 863	[illegible]	[illegible]		
T.P.	[illegible]698	40 885	[illegible]676	29 187		
T.P.	11 960	52 318	0527	40 358		
T.P.	10 177	61 389	1106	51 212		
T.B.M.# 28			[illegible]	[illegible]	* Pg. 35	
					END RUN	

Profile Notes Red. ____ Plotted ____ Job No. ____ Division No. ____ F. B. ____ Pg. ____
No. ____ Date ____ Date ____ Survey of ____
X-Sec. Notes Chkd. GOSS Checked ____ Survey by ____ Notes ____ Date ____
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson Date ____

76298 S & E #307—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.	LINE # 2	2-6-58
B.M. 50-13	1748	209634		207.886	B.M. 50-13, 6-57	Adv. EL = 207.886
T.P.	11647	215076	6212	203.427		
T.P.	6953	223 774	0235	214.538		
T.P.	11 612	234 684	1 514	222.277		
T.P.	11450	244 861	0475	233 411		
T.P.	10 852	256 213	0202	244 659		
T.P.	11674	267 151	0328	255 253		
T.P.	11839	276 098	2 900	264 259		
T.P.	11150	286 164	1112	274 994		
T.P.	11547	296 819	0692	285 272		
T.P.	10 517	306 278	1 038	295 780		
T.P.	8105	313 774	0427	305 669		
Sta. 316+45	5 012	318 338	3658	310 680		
T.P.	7 658	322 603	3 393	314 750		
Sta. 4-2	3 [illegible]	325 712	6 831	315 718		
Sta. A-4	6 827	329 022	3 617	322 195		
Sta. A-3	7 551	335 713	2 860	326 162		
T.P.	10 [illegible]	344 614	[illegible]	[illegible]		
T.P.	11 [illegible]	354 516	[illegible]	[illegible]		
T.P.	11 [illegible]	[illegible]	1 019	353 [illegible]		
F/H L-1	4 [illegible]	[illegible]	2 [illegible]	36 2912		

Profile Notes Red. Plotted Job No. Division No. F. B. Pg.
No. Date Date Survey of
X-Sec. Notes Chkd. Checked Survey by Notes
No. Date Date Map No. Inde
Date

76298 S & E #307—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.		
		[illegible]				
T.P.	[illegible]	[illegible]	[illegible]	[illegible]		
T.P.	[illegible]	[illegible]	[illegible]	[illegible]		
BM-[illegible]	10 873	[illegible]	[illegible]	[illegible]		
T.P.	11 937	[illegible]	0 204	[illegible]		
T.P.	11 415	377 383	[illegible]	[illegible]		
T.P.	11 312	[illegible]	[illegible]	378 547		
Sta. D-[illegible]			3 578	[illegible]		
T.P.	11 278	400 [illegible]	[illegible]	[illegible]		
T.P.	11 644	411 [illegible]	1 [illegible]	[illegible]		
T.P.	[illegible]	[illegible]	0 210	411 117		
T.P.	10 [illegible]	[illegible]	[illegible]	[illegible]		
Rd. T.B.M.			[illegible]	[illegible]		
T.P.	[illegible]	[illegible]	[illegible]	[illegible]		
Sta. B-[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
Sta. [illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
Sta. [illegible]			[illegible]	41 75[illegible]		
Sta. [illegible]	[illegible]	[illegible]	[illegible]	[illegible]		

F. B. 2318 Pg. 40 Job No. 0021.64 Division No. 10 Notes Red. Plotted Profile
Survey of [illegible] Date Date No. X-Sec.
Survey by [illegible] Notes [illegible] Notes Chkd. Goss Checked
Indexed C. Johnson Date Date Date No.

76298 S & E #307—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.		
		[illegible]				
[illegible]			5072	[illegible]		
[illegible]	[illegible]	[illegible]	3075	[illegible]		
[illegible]	10147	[illegible]	[illegible]	[illegible]		
[illegible]	10706	[illegible]	[illegible]	[illegible]		
Sta. B-1-C	11 566	[illegible]	[illegible]	[illegible]		
[illegible]	11 708	[illegible]	2491	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]			1667	[illegible]	[illegible], 6-57 Add EL = 470.475	

Profile Notes Red. Plotted Job No. Division No. F. B. Pg.
No. Date Date Survey of
X-Sec. Notes Chkd. Checked Survey by Notes Date
No. Date Date Map No. Indexed C. Johnson Date

76298 S & E #307—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.	LINE # 4	2-10-58
B.M. 34-15	[illegible]	233 417		229 217	B.M. 34-15, 6-57	Add. [illegible]
T.P.	4 078	232 425	5 070	228 347		
T.P.	3 169	230 011	5 583	226 842		
T.P.	3 145	227 915	5 241	224 770		
T.P.	2 980	225 864	5 029	222 884		
T.P.	[illegible]	221 836	6 183	219 683		
T.P.	[illegible]	217 621	[illegible]	215 021		
T.P.	[illegible]	[illegible]	6 142	211 479		
T.P.	[illegible]	[illegible]	[illegible]	[illegible]		
BM 50-13	[illegible]	[illegible]	[illegible]	[illegible]	B.M. 50-13, July 1957	Add. [illegible]
T.P.	[illegible]	[illegible]	[illegible]	[illegible]		
T.B.M. # [illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
T.P.	[illegible]	[illegible]	[illegible]	[illegible]		
Sta J-5	4 768	207 104	[illegible]	[illegible]		
T.P.	5 812	209 744	3 172	203 932		
Radial # 2	[illegible]	215 210	4 982	204 762		
T.P.	10 117	224 132	1 565	214 045		
Sta. J-4			2 322	221 840		
Sta. J-3	6 763	227 578	1 025	220 815	Portuguese Canyon	
T.P.	1 741	218 548	10 771	216 807		
Sta. J-1	1 707	212 122	8 133	210 415		

	⊼ EAST	⊼ WEST
	+ 7.[illegible]	+ 3.312
	- 8.[illegible]	- 4.342
	- 1.021	- 1.030

Profile Notes Red. ____ Plotted ____ Job No. ____ Division No. ____ F. B. [illegible] PG. [illegible]
No. ____ Date ____ Date ____ Survey of ____
X-Sec. Notes Chkd. Goss Checked ____ Survey by [illegible] Notes [illegible] Date [illegible]
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson Date ____

76298 S & E #307—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.		
		212 122				
T.P.	5061	202 623	11 560	200 562		
B.M. "D"			77.65	198 [illegible]		
T.P.	6897	202 055	10 465	195 168		
T.P.	9198	206 891	4 [illegible]	197 693		
T.P.			11 899	194 992	*	
	[illegible]	[illegible]	[illegible]	[illegible]		
T.P.	11 345	217 466	0 [illegible]	206 [illegible]		
T.P.	10 [illegible]	[illegible]	0 [illegible]	217 [illegible]		
T.P.	10 [illegible]	[illegible]	0 [illegible]	227 425		
Sta d-1A			[illegible]	[illegible]		
	End	Side	Line			
T.P.	2515	197 507		194 992	*	
T.P.	6951	[illegible]	[illegible]	[illegible]		
T.P.	4 [illegible]	199 [illegible]	[illegible]	[illegible]		
B.M. 34-17-A	4855	198 781	[illegible]	[illegible]		
T.P.	5606	199 937	4 450	194 331		
T.P.	4525	199 930	4 532	195 405		
T.P.	1925	194 852	7 [illegible]	192 927		
T.P.	0582	187 864	7 [illegible]	187 [illegible]		
T.P.	[illegible]	[illegible]	11 [illegible]	176 194		

F. B. 7318 Pg. 44 Job No. 0021.64 Division No. 10 Notes Red. Plotted Profile
Survey of PORTUGUESE BEND LANDSLIDE Date Date No. X-Sec.
Survey by LINO Notes LINO Notes Chkd. GOSS Checked
Index K. C. Johnson Date Date Date No.

76298 S & E #307—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.		
		[illegible]				
B.M. 34-18	[illegible]	[illegible]	8475	[illegible]	B.M. 34-18, 7-57 Adj. El. = [illegible]	
T.P.	[illegible]	[illegible]	[illegible]	[illegible]		
T.P.	[illegible]	163[illegible]	[illegible]	[illegible]		
Sta. P-3			[illegible]	158100		
T.P.	[illegible]	[illegible]	[illegible]	157 80[illegible]		
T.P.	[illegible]	[illegible]	[illegible]	161[illegible]		
Sta. [illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
T.B.M. #31			[illegible]	[illegible]	T.B.M. #31, 7-57 Adj. El. = 167.[illegible]	

Profile Notes Red. _____ Plotted _____ Job No. _____ Division No. _____ F. B. _____ Pg. _____

No. _____ Date _____ Date _____ Survey of [illegible]

X-Sec. Notes Chkd. G055 Checked _____ Survey by _____ Notes _____ Date _____

No. _____ Date _____ Date _____ Map No. _____ Indexed E. Johnson Date _____

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STATION	B. S.	H. I.	F. S.	ELEV.	Line # 5	2-13-58
Sta. [illegible]	[illegible]	[illegible]		470 47[illegible]	Sta. [illegible]	57 [illegible]
T.P.	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	2312	453 65[illegible]	[illegible]	[illegible]		
Sta. B 1C	0 [illegible]	442 95[illegible]	11 [illegible]	442 31[illegible]		
T.P.	0 [illegible]	432 [illegible]	10 [illegible]	432 28[illegible]		
T.P.	2 678	425 57[illegible]	[illegible]	42[illegible]		
T.P.	0 250	417 52[illegible]	8 [illegible]	417 27[illegible]		
P.T. # 1			0 307	417 22[illegible]		
T.P.	0 423	407 87[illegible]	10 082	407 44[illegible]		
P.T. # 2	0 [illegible]	377 [illegible]	10 607	377 [illegible] *		
		BEG. SIDE LINE TO			SWEET [illegible]	
S.B. # 1	2 [illegible]	391 [illegible]	[illegible]	[illegible]		
S.B. # 2	0 [illegible]	3 [illegible]	8 [illegible]	383 [illegible]		
T.P.	0 [illegible]	[illegible]	[illegible]	372 [illegible]		
T.P.	0 [illegible]	[illegible]	[illegible]	362 [illegible]		
S.B. # 3			10 [illegible]	352 [illegible]		
		END SIDE LINE				
P.T. # 2	1 092	395 35[illegible]		[illegible] *		
	0 199	387 06[illegible]	11 [illegible]	38[illegible]		
P.T. # 3	2 428		0 [illegible]	386 06[illegible]		
T. P.	2 428	377 99[illegible]	11 492	375 56[illegible]		

Profile Notes Red. ____ Plotted ____ Job No. [illegible] Division No. [illegible] F. B. [illegible] Pg. [illegible]
No. ____ Date ____ Date ____ Survey of [illegible]
X-Sec. Notes Chkd. Goss Checked ____ Survey by ____ Notes ____ Date ____
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____
C. Johnson

76298 S & E #307—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.		
		377 [illegible]				
P.T. #4	0 [illegible]	370 [illegible]	7 [illegible]	370 [illegible]	*	
		[illegible]		[illegible]	TO H-1, 2, & 4	
	2 [illegible]	341 [illegible]	11 [illegible]	[illegible]		
H-1			10 [illegible]	35 [illegible]		
T.P.	0 578	350 [illegible]	[illegible]	35 [illegible]		
T.P.	0 [illegible]	341 794	[illegible]	34 [illegible]		
H-2	0 711	351 10[illegible]	11 [illegible]	[illegible]		
T.P.	2 [illegible]	[illegible]	10 [illegible]	[illegible]		
H 4			[illegible]	[illegible]		
		END SIDE		[illegible]		
P.T. #4	[illegible]	[illegible]		370 [illegible]	*	
		[illegible]		[illegible]	TO [illegible]	
T.P.	10 [illegible]	[illegible]	[illegible]	[illegible]		
T.P.	11 [illegible]	[illegible]	[illegible]	[illegible]		
W. FIX			[illegible]	[illegible]		
		END SIDE		[illegible]		
P.T. #4	0 [illegible]	370 [illegible]		[illegible]	*	
T.P.	0 707	360 [illegible]	[illegible]	[illegible]		
T.P.	[illegible]	351 [illegible]	[illegible]	[illegible]		
P.T. #5	0 760	342 088	10 [illegible]	[illegible]		

F. B. 2318 PG. 48 Job No. 0021.64 Division No. 10 Notes Red. Plotted Profile
Survey of PORTUGUESE BEND SANDSLIDE Date Date No. X-Sec.
Survey by LINO Notes LINO Notes Chkd. GOSS Checked
Indexed C. Johnson Date Date Date No.

76298 S & E #307—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.		
		342 088				
T.P.	1 091	333 06[illegible]	10 117	331 971		
T.P.	2 002	323 161	11 903	321 1[illegible]		
P.T. # 6	6 037	319 747	9 451	313 710 *		
	BEG SIDE LINE TO I-1, 2, 3 & BLAKESLEE					
I-1			1315	318 432		
T.P.	0 672	309 212	11 307	308 540		
T.P.	0 861	299 774	10 299	298 913		
I-2	5 964	294 308	11 [illegible]	288 341		
I-3			9 062	285 243		
T.P.	10 559	304 016	0 849	293 456		
Sta. BLAKESLEE			0 305	303 710		
	END SIDE LINE					
P.T. # 6	0 491	[illegible]		313 710 *		
L-1			4 175	[illegible]		
T.P.	[illegible]	304 033	11 [illegible]	[illegible]		
T.P.	1 029	293 448	11 614	292 419		
T.P.	0 [illegible]	283 370	10 963	282 485		
P.T. # 7	1 125	273 138	11 357	272 013		
T.P.	0 462	262 520	11 080	262 058		
T.P.	0 588	251 971	11 137	251 383		

Profile Notes Red.____ Plotted____ Job No.____ Division No.____ F. B. Pg.
No.____ Date____ Date____ Survey of____
X-Sec. Notes Chkd. Goss Checked____ Survey by____ Notes____ Date____
No.____ Date____ Date____ Map No.____ Indexed C. Johnson Date____

76298 S & E #307—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.		
		251 971				
T.P.	1 083	241 701	11 353	240 618		
T.P.	0 557	231 811	10 447	231 254		
T.P.	0 998	221 183	11 626	220 185		
T.P.	0 737	210 878	11 042	210 141		
B.M. "C"			6 441	204 437		
T.P.	0259	199 909	11 228	197 650		
B.M. 34-17A			5 986	[illegible]		
T.P.	5 777	[illegible]	5 950	193 959		
T.P.	4143	[illegible]	4 338	[illegible]		
T.P.	[illegible]	[illegible]	6 619	[illegible]		
T.P.	0 412	184 250	10 435	183 78[illegible]		
T.P.	[illegible]	177 [illegible]	8 073	176 183		
BM 34-18			8 392	168.71	B.M. 34-18 . July 1957 Adj. EL= 168,682	

F. B. 7314 Pg. 50 Job No. 0021.64 Division No. 10 Notes Red. Plotted Profile
Survey of Portuguese Pond Limestone Date Date No. X-Sec.
Survey by Lino Notes Lino Notes Chkd. Goss Checked
Indexed A. C. Johnson Date Date Date No.

76298 S & E #307—7-55

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LEVEL LINE #1 3-3-58

STATION	B. S.	H. I.	F. S.	ELEV.	
BM B 1 D	0831	471 302		470475	BM B-1 D ELEV. 470,475 (FIELD ELEV.)
T.P.	0461	460 198	11569	459 737	
"	0310	449 199	11 309	448889	
"	0284	438 278	11205	437994	
"	0743	428 225	10 796	427482	
"	1782	418 923	11084	417141	
"	4321	412 046	11 198	407 725	
"	3692	409 886	5852	406 194	
"	4046	407 874	6058	403828	
"	3939	408 069	3 744	404 130	
"	6091	410 618	3542	404 527	
"	6770	413348	4 040	406578	
P.I. #5			4876	408472	
T.P.	6222	415 830	3740	409 608	
"	1155	412045	4940	410890	
T.B.M. #30	0750	406 065	6730	405 315	
T.P	6481	406 016	6530	399 535	
T.P.	6301	408 628	3689	402327	
P.I. #4					UNABLE TO LOCATE
T.P.	4950	410458	3120	405508	
"			4372	406086	

Profile Notes Red. Plotted Job No. 00964 Division No. 10 F. B. 2318 Pg. 11
No. Date Date Survey of PORTUGUESE BEND LANDSLIDE
X-Sec. Notes Chkd. GOSS Checked Survey by LIND Notes T.C.K. Date 3-3-58
No. Date Date Map No. Indexed Date MAR 5 58

76298 S & E #307—7-55

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F. B. 2318 Pg. 52 | Job No. 0021.64 Division No. 10 Notes Red. Plotted Profile
Survey of PORTUGUESE BEND LANDSLIDE Date No.
Survey by LIND Notes T.C.P. Notes Chkd. GROSS Checked X-Sec.
Indexed L. C. Johnson Notes Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.		
T. P.	6501	412587		406086		
"	8410	416337	4660	407927		
	10424	426200	0561	415776		
R.M.# 1			4562	421638		
S.P. HILLS G-7			5495	420705		
R.M. # 2	3314	425062	4452	421748		
T.P.	2674	416468	11268	413794		
"	1188	406371	11285	405183		
"	0880	396301	10950	395421		
"	0778	385764	11315	384986		
"	3206	380901	8069	377695		
P.I. # 3	0428	373345	7984	372917		
T.P.	1442	364289	10498	362847		
"	1743	354475	10957	353332		
"	1239	345714	10000	344475		
P.I. #2			5072	340642		
P.I. # 1	1364	336903	10175	335539	BEGIN DOG LEG	
T.P.	0609	325744	11768	325135		
"	0750	314843	11651	314093		
"	1080	304453	11470	303373		
			11072	293381		

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STATION	B. S.	H. I.	F. S.	ELEV.		
T.P.	0910	294291		293381		
"	11728	294899	11120	283171		
H-7A EGC			6724	278175		
H-7A			6492	288407	END DOG LEG	
P.I. #1	0565	336104		335539		
T.P.	0422	324858	11670	324434		
"	0424	314071	11209	313647		
"	0529	302915	11685	302386		
B.C.	0299	291353	11861	291054		
T.P.	2325	282433	11245	280108		
P.B. #10	1463	281038	2858	279575		
T.P.	0672	270982	10728	270310		
"	0511	259640	11853	259129		
"	0402	249106	10936	248704		
"	0763	238396	11473	237633		
"	0559	227941	11014	227382		
"	1484	218742	10683	217258		
W.F. #1			8240	210502		
T.P.	0300	207272	11770	206972		
"			2600	204672		

Profile Notes Red. Plotted Job No. Division No.
No. Date Date Survey of
X-Sec. Notes Chkd. Checked Survey by Notes Date
No. Date Date Map No. Index C. Johnson Date 3-3-58
F. B. Pg.

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F. B. 2318 Pg. 54 | Job No. 002.64 | Division No. 10 | Notes Red. | Date | Plotted | Date | No. | Profile
Survey of PORTUGUESE BEND LANDSLIDE | Notes Chkd. GOSS | Checked | Date | No. | X-Sec.
Survey by LIND | Notes T.C.P. | Date
Indexed C. Johnson | Date

STATION	B. S.	H. I.	F. S.	ELEV.		
T.P	0950	205627		204672		
"	1209	196038	10793	194829		
"	0911	184999	11950	184088		
"	2150	175827	11322	173677		
B M-F			7871	167956		
T.B.M-31			8765	167062		

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Profile No.____ Notes Red.____ Plotted____ Job No. [illegible] Division No. 16 F. B. 75/57 Pg. 55
X-Sec. No.____ Date____ Date____ Survey of Pasadena Freeway (Ramp) Connection
Notes Ckd. TOS Checked____ Survey by [illegible] Notes [illegible] Date 3-10-58
Date____ Date____ Map No.____ Indexed C. Johnson Date 3-11-58

STATION	B. S.	H. I.	F. S.	ELEV.	Line # 4	3-10-58
B.M. 34-15	4685	233 902		229217	B.M. 34-15	7-57 AOJ. EL=229.11
T.P.	4055	232 373	5564	228338		
T.P.	3400	230 224	5564	226829		
T.P.	3340	228 090	5479	224750		
T.P.	2900	224 819	6171	221919		
T.P.	2721	221 415	6125	218694		
T.P.	3140	218 134	6420	214995		
T.P.	3766	215 212	6687	211446		
T.P.	4030	213 372	5370	209342		
B.M. 50-13	3651	211 613	5410	207962	B.M. 50-13	7-57 AOJ. EL = 207.89
T.B.M #15	4720	208 174	5154	203454		
T.P.	6476	205 984	8669	199510		
STA. J-5	7585	211 086	2485	203501		
T.P.	4519	206 739	8870	202216	J-5	
T.P.	8800	212 635	2900	203835		
RADIAL #2	10372	215 118	7889	207478		
T.P.	10986	225 816	0288	214830		
STA J-4			4160	221656		
STA J-3	6922	227 474	5264	220552		
T.P.	1570	218 118	10926	216548		
STA. J-1	2540	212 679	7979	210139		

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STATION	B. S.	H. I.	F. S.	ELEV.		
		212 679				
T.P.	3 462	206 694	9 447	203 232		
B.M. "D"			8 295	198 399		
T.P.	6 600	201 654	11 640	195 054		
T.P.	9 915	207 514	4 055	197 599		
T.P.			11 529	195 985	*	
	BEG.	SIDE	LINE	TO	STA.	J-1-A
T.P.	11 400	217 394	1 520	205 994		
T.P.	11 562	228 561	0 395	216 199		
T.P.	9 831	237 871	0 521	228 040		
Sta J-1A			0 925	236 946		
	END	SIDE	LINE			
T.P.	2 235	198 220		195 985		
T.P.	7 450	200 376	5 294	192 926		
T.P.	4 519	199 436	5 465	194 911		
B.M.-34-17-A	4 790	198 673	5 547	193 803		
T.P.	5 702	199 994	4 379	194 294		
T.P.	4 395	199 741	4 655	195 346		
T.P.	1 664	194 590	6 815	192 926		
T.P.	1 181	184 949	10 822	183 768		
T.P.	1 140	177 309	8 780	176 169		

F. B. 2318 Pg. 56 Job No. 0021-64 Division No. 10 Notes Red. Plotted Profile
Survey of PORTUGUESE BEND LANDSLIDE Date Date No. X-Sec.
Survey by Lund Notes Line Notes Chkd. GOSS Checked
Indexed J. C. Johnson Date Date Date No.

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STATION	B. S.	H. I.	F. S.	ELEV.		
		177309				
B.M. 34-18	1735	170443	8601	168708	B.M. 34-18,	7-57 Adj. EL = 168.632
T.P.	2231	162510	10164	160279		
T.P.	5800	163467	4843	157667		
5+A - P-3			5402	158065		
T.P.	5963	165652	3760	159687		
T.P.	6080	167378	1754	161298		
5+A - P2	6484	169960	3902	163476		
TBM. #31			2962	167058	T.B.M. # 31,	7-57 Adj. EL = 167.050

Profile Notes Rod. Plotted Job No. Division No. F. B. Pg.
No. Date Date Survey of
X-Sec. Notes Chkd. Checked Survey by Date
No. Date Date Map No. Index No. Date

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STATION	B. S.	H. I.	F. S.	ELEV.	LINE # 2	3-13-58
B.M. 34-15	4628	233845		229217	B.M. 34-15, 7-57 ADJ. EL= 229.217	
T.P.	3915	232253	5507	228338		
T.P.	3166	229989	5430	226823		
T.P.	3185	227936	5241	224748		
T.P.	2237	224151	6022	221914		
T.P.	1823	220588	5458	218693		
T.P.	2393	217389	5390	214996		
T.P.	3418	214868	5939	211450		
T.P.	4628	213342	6154	208714		
B.M. 50-13	3385	211340	5387	207955	B.M. 50-13, 7-57 ADJ. EL= 207.87[illegible]	
T.P.	10852	214302	7890	203450		
T.P.	11746	225750	0298	214004		
T.P.	9093	234121	0722	225028		
T.P.	11811	245233	0699	233422		
T.P.	11144	255842	0535	244[illegible]		
T.P.	11883	267205	0520	255322		
T.P.	11607	275850	2962	264243		
T.P.	11032	286034	0848	275002		
T.P.	11366	296649	0751	285283		
T.P.	10576	306368	0857	295792		
T.P.	8352	314242	0478	305890		

Profile Notes Red. ____ Plotted ____ Job No. [illegible] Division No. 10 F. B. 2318 Pg. 59
No. ____ Date ____ Date ____ Survey of PORTUGUESE BEND LANDSLIDE
X-Sec. Notes Chkd. ____ Checked ____ Survey by LINO Notes LINO Date 3-13-58
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson Date 3-17-58

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F. B. 2318 Pg. 60 | Job No. 00214.64 | Division No. 10 | Notes Red. | Plotted | No. | Profile
Survey of Portuguese Bend Land Line | Date | No. | X-Sec.
Survey by C. Johnson | Notes | Notes Chkd. | Checked
Indexed | Date | Date | Date | No.

STATION	B. S.	H. I.	F. S.	ELEV.		
		314242				
STA. SHIELDS	7749	318072	3919	310323		
T.P.	7522	322279	3315	314757		
STA. G-1	4302	320031	6550	315729		
T.P.	8025	326798	1260	318771		
STA A-4			4516	322200		
STA A-3	9245	335206	0835	325961		
T.P.	10844	343952	2098	333108		
T.P.	11533	354332	1153	342799		
T.P.	11675	365004	1003	353329		
RADIAL #1	1925	364688	2241	362765		
T.P.	1148	354869	10967	353721		
T.P.	3099	349051	4517	345358		
B.M. 50-12	11698	357226	3523	345528		
T.P.	11220	367716	0730	356496		
T.P.	11162	378599	0279	367437		
T.P.	11880	389957	0522	378077		
STA. D-2			4582	385375		
T.P.	11406	400195	1168	388789		
T.P.	11890	410617	1468	398727		
T.P.			1158	409459		

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STATION	B. S.	H. I.	F. S.	ELEV.		
	10674	420133		409459		
T.P.	11040	430025	1148	418985		
T.P.	9679	439224	0480	429545		
RD. DEPT. BM			7500	431724		
STA E-1					MON. DESTROYED (FALLING INTO CRACK)	
T.P	11009	444853	5380	433844		
STA. D-1	3600	440911	7542	437311		
STA. C-1	1403	433399	8915	431996		
T.P.	0921	424391	9929	423470		
T.P.	2370	420860	5901	418490		
STA. B-1			3809	417051		
STA B-1A	10677	423859	7678	413182		
STA B-1B			5313	418546		
T.P.	5121	426120	2860	420999		
T.P.	11567	434467	3220	422900		
T.P.	11491	443779	2179	432288		
STA. B-1C	11639	453934	1484	442295		
T.P.	11585	461689	3830	450104		
T.P.	8339	467069	2959	458730		
T.P.	9880	472249	4700	462369		
STA B-1D			1770	470479	B-1D ELEV. 470.475	

Profile Notes Red. ____ Plotted ____ Job No. 00216A Division No. 10 F. B. 2318 Pg. 61
No. ____ Date ____ Date ____ Survey of [illegible]
X-Sec. Notes Chkd. ____ Checked ____ Survey by [illegible] Note [illegible] 3.13.58
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

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LEVEL LINE #3 - 3-24-58

STATION	B. S.	H. I.	F. S.	ELEV.	
BM 34-15	1149	230 366		229 217	BM 34-15 ELEV. 229.217, July 1957 Adj.
T.P.	0272	221 275	9363	221 003	
T.P.	0309	211 736	9848	211 427	
T.P.	0597	202 205	10128	201 608	
T.P.	0538	191 873	10870	191 335	
T.P.	0494	181 287	11080	180 793	
T.P.	0732	170 938	11081	170 206	
T.P.	0922	160 702	11158	159 780	
T.P.	0290	149 742	11250	149 452	
T.P.	0855	139 764	10833	138 909	
T.P.	0498	128 877	11385	128 379	
T.P.			11118	117 759	*
T.P.	BEG.	SIDE	LINE	TO K-5	
T.P.	10701	138 928	0650	128 227	
Sta K-5			2 907	136 021	
	END	SIDE	LINE		
T.P.	0498	118 257		117 759	*
T.P.	2655	110 065	10847	107 410	
Sta K-5 Aux	0387	102 160	8292	101 773	
T.P.			11460	90 700	

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 0031-44 Division No. 0 F. B. 2818 Pg. 63
Date ____ Date ____ Survey of PORTUGUESE BEND LANDSLIDE
X-Sec. No. ____ Notes Chkd. ____ Checked ____ Survey by LIND Notes T.C.R. Date 3-24-58
Date ____ Date ____ Map No. ____ Indexed C. Johnson Date 3-27-58

76298 S & E #307—7-55

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F. B. 2318 Pg. 64 | Job No. 002.16K Division No. 10 Notes Red. Plotted
Survey of Portuguese Bend Landslide Date No. X-Sec.
Survey by T.G.P. Notes Chkd. Checked
Indexed C. Johnson Notes Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.		
T.P.	1136	91836		90700		
STA. K4			7042	84794		
STA. KA			10471	81365		
T.P.	1147	81604	11379	80457		
STA. KAB			6955	74649		
T.P.	0278	70315	11567	70037		
STA. KB			4619	65696		
T.B.M. #28	1977	62498	9794	60521		
STA. KC			4696	57802		
STA K3A			4279	58219		
T.P.	1418	53334	10575	51923		
STA. K.D			5919	47422		
T.P.	1458	43856	10943	42398		
STA. KE					ORIG. MON. DESTROYED	BY ROAD GRADING
T.P.	2148	37220	8784	35072		
T.B.M. #27					UNABLE TO LOCATE	
STA. K2					" " "	
T.P.	0193	25656	11757	25463		
T.P.	4607	22925	7338	18318		
T.BM 26-C			5072	17853		
TBM 26-B			6520	16409		

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STATION	B. S.	H. I.	F. S.	ELEV.		
		22925				
T.B.M 26	4343	20884	6384	16541		
T.B.M 26 D			3950	16934		
T.B.M 26 E			2355	18529		
T.B.M 26 A			2697	18187		
T.P.	4247	21119	4012	16872		
T.P	1255	21202	1172	19947		
T.P.	1212	11819	10595	10607		
P.B. #1	5107	12673	4253	7566		
T.P.	7606	13724	6555	6118		
T.P.	4443	17388	0779	12945		
P.B. #2-A			4910	12478		
T.P.	2928	9314	11002	6386		
P.B. #3			4468	4846		
T.P.	6948	11240	5022	4292		
P.B. #5					UNABLE TO LOCATE	
P.B. #5 A			10518	0722		
T.P.	2064	9826	3478	7762		
T.P.	4748	11912	2662	7164		
P.B. #6 A			11570	0342		
T.P.			9330	2582		

Profile Notes Red. ____ Plotted ____ Job No. 002164 Division No. 10 F. B. 2310 Pg. 65
No. ____ Date ____ Date ____ Survey of Portuguese Bend Landslide
X-Sec. Notes Chkd. ____ Checked ____ Survey by LIND Notes T.C.H. Date 3-24-58
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson Date ____

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F. B. 2318 Pg. 66 | Job No. 002164 | Division No. 10 | Notes Red. | Plotted | No. | Profile
Survey of PORTUGUESE BEND LANDSLIDE | Date | Date | No. | X-Sec.
Survey by LAND Notes T.L.P. | Notes Chkd. | Checked
Indexed A. C. Johnson | Date | Date | No.

STATION	B. S.	H. I.	F. S.	ELEV.	
	11779	14361		2582	
P.B.#7			2617	11744*	
		BEGIN DOGLEG TO P.B.#8			
T.P.	4035	16456	1940	12421	
T.P.	4661	17977	3140	13316	
P.B.#8			10060	7917	
		END DOGLEG			
P.B.#7	9830	21574		11744*	
T.P.	11848	33054	0371	21203	
T.P.	10959	39928	4082	28969	
T.P.	10930	50190	0668	39260	
T.P.	10963	60619	0534	49656	
T.P.	10540	70798	0361	60258	
T.P.	11267	81245	0820	69978	
T.P.	11718	92113	0850	80395	
T.P.	10829	102169	0773	91340	
K5-AUX.			0419	101750	SEE BOTTOM OF PG 63
		END OF RUN			

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	LINE # 5	3-28-58
Sta B-10	1634	472104		470475	Sta B10, 7-51 Adv. EL = 470.475	
T.P.	1333	462242	11196	460913		
T.P.	4085	455369	10972	451274		
T.P.	1617	445904	7037	444292		
Sta. B-12			3618	442291		
T.P.	0628	434984	11553	434356		
T.P.	3325	426775	11537	423447		
T.P.	1058	417877	9956	416819		
P.T. #1			1117	416760		
T.P.	0893	408037	10733	407144		
P.T. #2	0748	397693	11090	396947 *		
	BEG. SIDE LINE			TO SINGET BAYS		
S.B. #1	0877	390624	7950	389745		
S.B. #2	0538	383709	7453	383171		
T.P.	1000	373770	10939	372770		
T.P.	0866	362338	11798	361972		
S.B. #3			7553	352785		
	END SIDE LINE					
P.T. #2	1797	398744		396947 *		
T.P.	0228	387179	11793	386951		
P.T. #3			1329	385850		

Profile Notes Red. ____ Plotted ____ Job No. ____ Division No. ____ F. B. ____ Pg. ____
No. ____ Date ____ Date ____ Survey of ____
X-Sec. Notes Chkd. GOSS Checked ____ Survey by ____ Notes ____ Date ____
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson Date 3-31-58

76298 S & E #307—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.		
		387 179				
T.P.	1662	376 995	11 846	375 333		
P.T. # 4	0504	370 399	7 100	369 895	*	
	BEG. SIDE LINE					
T.P.	3095	362 204	11 290	359 109		
H-1			11 459	350 745		
T.P.	0516	350 772	11 944	350 260		
T.P.	0933	341 844	9 865	340 911		
H-2	0838	330 925	11 751	330 087		
T.P.	0292	320 379	10 838	320 087		
H-4			7 703	312 676		
	END SIDE LINE					
P.T. # 4	11 945	381 840		369 895	*	
	BEG SIDE LINE TO WEST [illegible]					
T.P.	10156	388 464	3 532	378 308		
T.P.	9868	397 039	1293	387 171		
STA. W. FIX			3 293	393 746		
	END SIDE LINE					
P.T. # 4	0509	370 404		369 895	*	
T.P.	0546	359 611	11 339	359 065		
T.P.	0254	350 168	9697	349 914		

F. B. 2318 Pg. 68 Job No. 0021.64 Division No. 10 Notes Red. Plotted No. Profile
Survey of Portuguese Bend Landslide Date Date X-Sec.
Survey [illegible] C. Johnson Notes Line Notes Chkd. GOSS Checked No.
Indexed Date Date Date

76298 S & E #307—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.		
		350 168				
P.T. # 5			9109	341 059		
T.P.	6 373	378 928	11 573	338 595		
T.P.	0 161	327 720	11 319	327 609		
T.P.	3 174	319 450	11 514	316 214		
PT # 6	6 195	319 522	6 122	313 327	*	
	BEG. SIDE LINE TO I- 1-2-3 & BLAKSLEE.					
I - #1.			1 200	318 322		
T.P.	0 544	308 801	11 265	308 257		
T.P.	0 743	299 383	10 161	298 635		
I - 2	6 413	294 295	11 501	287 882		
I - 3			9396	284 899		
T.P.	11 813	304 831	1 282	293 013		
STA. BLAKSLEE			1 400	303 431		
		END SIDE LINE				
P.T. # 6	0 473	313 800		313 327	*	
STA. - L - 1			4 157	309 643		
T.P.	0 531	303 233	11 098	302 135		
T.P.	1 131	293 130	11 234	291 999		
	0 613	282 813	10 927	282 203		
P.T. # 7	0 389	272 086	11 119	271 697		

Profile Notes Red. Plotted Job No. Division No.
No. Date Date Survey of
X-Sec. Notes Chkd. GOSS Checked Survey by Noted Date
No. Date Date Map No. Index L. C. Johnson F. B. Pg.

76298 S & E #307—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.		
		272 086				
T.P.	0497	262 217	10 366	261 720		
T.P.	0546	251 614	11 149	251 068		
T.P.	0971	241 351	11 234	240 380		
T.P.	0399	231 468	10 282	231 069		
T.P.	0968	221 035	11 401	220 067		
T.P.	0331	210 404	10 962	210 073		
BM. "C"			6 098	204 306		
T.P.	0573	199 151	11 826	198 578		
T.P.	5307	199 523	4 935	194 216		
T.P.	4287	199 545	4 265	195 258		
T.P.	0726	193 605	6 666	192 879		
T.P.	0277	183 987	9 895	183 710		
T.P.	0769	176 880	7 876	176 111		
BM-34-18			8 244	168 636	BM 34-18 , 7-57 ADJ. EL = 168.682	
			END	RUN		

F. B. 2318 Pg. 70 Job No. 0021.64 Division No. 10 Notes Red. Plotted Profile
Survey of PORTUGUESE BEND LANDSLIDE Date Date No. X-Sec.
Survey by LINO Notes LINO Notes Chkd. GOSS Checked
Indexed A. C. Johnson Date Date Date No.

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STATION	B. S.	H. I.	F. S.	ELEV.	Line # 1	4-3-58
STA B-10	1152	471 627		470 475	STA B10	JULY 1957 ADJ EL = 470.475
T.P.	0632	460 386	11 873	459754		
T.P.	0965	449 354	11467	448919		
T.P.	0464	438 465	11353	438001		
T.P.	2405	429 916	10957	427508		
T.P.	0792	419 621	11087	418829		
T.P.	4262	412 014	11869	407752		
T.P.	3764	409 965	5814	406201		
T.P.	4043	407 905	6103	403862		
P.B. # 9	3644	407 794	3794	404150		
T.P.	6255	410 593	3255	404539		
T.P.	5427	412 936	3688	407509		
P.I. # 5			4353	408483		
T.P.	5563	415 193	3206	409630		
T.P.	1214	412 090	4317	410876		
T.B.M. # 30	1375	406 690	6775	405315		
T.P.	5382	405 011	7061	399624		
T.P.	5658	407 829	2840	402171		
P.I. # 4	5612	409 678	3763	404066		
T.P.	5534	411 639	3573	406105	*	
	8197	416 429	3407	408232	BEG. SIDE LINE	

Profile Notes Red. Plotted Job No. Division No. F. B. 2318 Pg. 71
No. Date Date Survey of
X-Sec. Notes Chkd. Checked Survey by Noted Date
No. Date Date Map No. Index No. C. Johnson Date 4-8-58

76298 S & E #307—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.		
		416 429				
	11305	426451	1283	415 145		
RM # 2			4796	421655		
S.P. Hills G-7			5733	420718		
R. M. # 2			4691	421765		
	END SIDE LINE					
T.P.	6014	412 119		406 105	*	
T.P.	0316	401 032	11403	400716		
T.P.	0816	391 893	9955	391 077		
T.P.	2406	384 793	9506	382387		
T.P.	3513	380 801	7505	377288		
P.I. # 3	0626	373 530	7897	372904		
T.P.	1459	364 294	10 695	362835		
T.P.	1287	354 609	10972	353322		
T.P.	2125	345672	11 062	343547		
P.I. # 2			5053	340619		
P.I. # 1	1571	337 086	10 157	335515	*	
	BEG SIDE LINE					
T.P.	0502	325 621	11 967	325119		
	0733	314 802	11 552	314069		
	1006	304 353	11 455	303 347		

F. B. 2318 Pg. 72 Job No. 0021.64 Division No. 10 Notes Red. Plotted Profile
Survey of PORTUGUESE BEND LANDSLIDE Date Date No. X-Sec.
Survey by LIND Notes LIND Notes Chkd. Checked
Indexed C. Johnson Date Date Date No.

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STATION	B. S.	H. I.	F. S.	ELEV.		
		304 353				
	0351	294 200	11 004	293349		
	9078	292 045	[illegible]	[illegible]		
H-7A [illegible] #1			3 895	288 150		
H-7A			[illegible]	[illegible]		
		[illegible]				
P.I. # 4	0382	335907		335 515	*	
T.P.	0299	324712	11 484	324413		
T.P.	0211	313 829	11 074	313618		
B.C.	0502	302 872	11 459	302370		
B.C T.P.	0698	291 722	11 848	291024	- B.C.	
T.P.	3061	282 858	11 925	279797		
P.B. # 10	1361	280 926	3293	279565		
T.P.	0633	270 637	10920	270006		
T.P.	0416	259 214	[illegible]	258798		
T.P.	0764	249 447	10 531	248683		
T.P.	0714	238 315	11 846	237601		
T.P.	0553	227 107	10961	227354		
T.P.	0421	217 664	10 [illegible]	217243		
W.F. # 1			[illegible]	212439		
T.P.	1057	207 297	11 424	206240		

Profile Notes Red.____ Plotted____ Job No.____ Division No.____ F. B. [illegible] Pg. [illegible]
No.____ Date____ Date____ Survey of Portuguese Bend Landslide
X-Sec. Notes Chkd.____ Checked____ Survey by Line Notes Line Date [illegible]
No.____ Date____ Date____ Map No.____ Indexed C. Johnson Date

76298 S & E #307—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.		
		207297				
T.P.	0407	195767	11937	195360		
T.P.	0618	184659	11726	184041		
T.P.	1442	174743	11356	173301		
B.M.F			6830	167913		
T.B.M.#31			7736	167007	T.B.M.#31, 7-57 ADJ. EL= 167,050	
			END	SUR		

F. B. 2333 PG. 74 Job No. 00-21-64 Division No. 10 Notes Red. Plotted No. Profile
Survey of PORTUGUESE BEND LANDSLIDE Date Date X-Sec.
Survey by LINO Notes Chkd. Checked No.
Indexed C. Johnson Date Date

76L298 S & E #307 9-54

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STATION	B. S.	H. I.	F. S.	ELEV.	LINE # 2	4-8-58
BM 34-15	4215	233432		229.217	BM 34-15, 7-57 ADJ. EL = 229.217	
T.P.	4101	232444	5089	228343		
T.P.	3560	230382	5622	226822		
T.P.	3452	228206	5628	224754		
T.P.	3031	224939	6298	221908		
T.P.	2389	221076	6252	218687		
T.P.	2532	216449	7159	213917		
T.P.	3563	213324	6688	209761		
B.M. 50-13	1750	209734	5340	207984	BM 50-13 ELEV 207.891 1957 ADJ.	
T.P.	11596	215048	6282	203452		
T.P.	11818	225816	1050	213998		
T.P.	10830	235874	0772	225044		
T.P.	11941	245382	2433	233441		
T.P.	11573	255836	1119	244263		
T.P.	11300	266646	0490	255346		
T.P.	11030	276033	1643	265003		
T.P.	10910	285933	1010	275023		
T.P.	11516	296808	0641	285292		
T.P.	11888	307696	1000	295808		
T.P.	8363	314269	1790	305906		
SHIELDS			3918	310351		

Profile Notes Red. ____ Plotted ____ Job No. ____ Division No. ____ F. B. 2316 Pg. 75
No. ____ Date ____ Date ____ Survey of [illegible] BEND LANDSLIDE
X-Sec. Notes Chkd. ____ Checked ____ Survey by LIND Notes T.L.R. Date 4-8-58
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson Date 4-11-58

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F. B. 2318 Pg. 76 | Job No. 00216.4 Division No. 10 Notes Red. Plotted
Survey of PORTUGUESE BEND LANDSLIDE Date Date No. Profile
Survey by LIND Notes T.P. Notes Chkd. Checked X-Sec.
Indexed C. Johnson Date Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.		
	8020	318371		310351		
T.P.	8605	323399	3577	314794		
STA. G-1	4820	320581	7638	315761		
T.P.	8700	327519	1762	318819		
STA. A-4			5280	322239		
STA. A-3	10088	335887	1720	325799		
T.P.	11490	343452	2925	332962		
T.P.	11710	354394	1768	342684		
T.P.	11605	364858	1141	353253		
R-1	2825	365468	2215	362643		
T.P.	0390	354167	11691	353777		
B.M. 50-12	11347	356676	8838	345329		
T.P.	11302	367398	0580	356096		
T.P.	11268	378238	0428	366970		
T.P.	11040	388750	0528	377710		
STA D-2			3893	384857		
T.P.	11945	400165	0530	388220		
T.P.	12005	411498	0672	399493		
T.P.	11825	422726	0597	410901		
T.P.	11428	433823	0331	422395		
RD. DEPT. B.M.			2102	431721		

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STATION	B. S.	H. I.	F. S.	ELEV.	LINE # 2	
		433 823				
T.P.	11 550	439993	5380	428443		
T.P.	9155	445788	3360	436633		
STA. D-1	6280	443638	8430	437358		
STA. C-1	1982	433700	11920	431718		
T.P.	0871	424183	10388	423312		
T.P.	2610	420731	6062	418121		
STA. B-1			4038	416693		
STA. B-1A	10500	423431	7800	412931		
STA. B-1B			5238	418193		
T.P.	5673	426724	2380	421051		
T.P.	11840	435356	3208	423516		
T.P.	11330	445664	1022	434334		
STA. B-1C	11300	453664	3300	442364		
T.P.	11115	460467	4312	449352		
T.P.	10804	468603	2668	457799		
T.P.	6542	473463	1682	466921		
STA. B-1D			2960	470503		
		END OF LINE #2				

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 0021-64 Division No. 10 F. B. 2316 Pg. 77
X-Sec. No. ____ Date ____ Date ____ Survey of Pomona Bonn Lanoline
Notes Chkd. ____ Checked ____ Survey by LIND Notes TCP Date 4-8-58
Date ____ Date ____ Map No. ____ Indexed ____ Date ____
C. Johnson

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F. B. 2518 Pg. 78 | Job No. 002164 | Division No. 10 | Notes Red. | Plotted | Profile
Survey of PORTUGUESE BEND LANDSLIDE | Date | No. | X-Sec.
Survey by LAND | Notes LINE | Notes Chkd. | Checked
Indexed C. Johnson | Date | Date | No.

LINE # 3 — 4-8-58

STATION	B. S.	H. I.	F. S.	ELEV.	
B.M. 34-15	1006	230223		229217	BM 34-15, 7-57 Adj. Elev. = 229.217
T.P.	0207	221210	9214	221009	
T.P.	0308	211748	9776	211440	
T.P.	0518	202203	10123	201625	
T.P.	0407	191748	10864	191339	
T.P.	0502	181277	10951	180799	
T.P.	0654	170844	11102	170147	
T.P.	0843	160627	11065	159784	
T.P.	0253	149712	11126	149459	
T.P.	0759	139668	10803	138904	
T.P.	0573	128944	11292	128376	
			11186	117763	*
		BEG. SIDE LINE TO STA K-5			
T.P.	9094	137328	0715	128234	
STA K-5			1243	126091	
		END SIDE LINE			
T.P.	0511	118274		117763	*
"	2573	109988	10854	107415	
STA K-5 AUX	0485	102264	8209	101779	
T.P.			11014	91250	

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STATION	B. S.	H. I.	F. S.	ELEV.		
T.P.	0186	91 436		91 250		
STA K-4			5806	84630		
STA K-A			10240	81 196		
T.P.	0953	81 261	11128	80308		
STA. K-AB			6760	74501		
T.P.	0276	70 162	11375	69886		
STA K-B			4647	65515		
TBM # 28	2213	62 700	9675	60487		
Sta K-C.			4959	57741		
STA K-3A			4592	58108		
T.P.	1387	53 194	10893	51807		
STA K-D			6102	47092		
T.P.	0623	43 222	10595	42599		
STA. KE			5462	37760		
TBM # 27 A.K.	1986	36542	8666	34556	Note: SET NEW MON. OVER OLD	
STA K-2			5311	31172	K-2 MON. NEW MON. IS 3.210 HIGHER.	
T.P.	0481	26033	10988	25554		
T.P.	4753	22814	7733	18278		
T.B.M # 26 B			4660	12354		
" " - C			5150	17864		
T.B.M # 26	5301	21 854	6460	16554		

Profile Notes Red. Plotted Job No. Division No. F. B. Pg.
No. Date Date Date Survey of
X-Sec. Notes Chkd. Checked Survey by Notes Date
No. Date Date Map No. Index C. Johnson

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STATION	B. S.	H. I.	F. S.	ELEV.		
		21 852				
TBM # 26-D			4 930	16 922		
TBM # 26 E			3 180	18 672		
" " A			3 537	18 315		
T.P.	4 336	21 030	5 158	16 694		
T.P.	1260	21 495	0 795	20 235		
T.P.	2 222	12 881	10 836	10 659		
P.B. # 2			5 264	7 617		
T.P.	7722	14 248	[illegible]	6 526		
T.P.	2 657	15 847	1 058	13 190		
P.B. # 2-A			3 220	12 627		
T.P.	2 275	10 187	5 435	7 912		
P.B. # 3			5 313	4 874		
T.P.	7730	8042	7 875	0 312		
P.B. # 5-A	[illegible]		7 278	0 764		
T.P.	4820	7002	5 860	2 182		
T.P.	3 607	7 224	3 385	3 617		
P.B. # 6-A			6 848	0 376		
T.P.	6471	9780	3 915	3 309		
T.P.			0 947	8 833		

F. B. 2318 Pg. 80 Job No. 0021.64 Division No. 10 Notes Red. Plotted Profile
Survey of Portuguese Bend Landslide Date Date No. X-Sec.
Survey by Lind Notes Lind Notes Chkd. Checked
Indexed A. C. Johnson Date Date Date No.

76298 S & E #307—7-55

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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
T.P.	6999	15 83 N		8 833		
P.B. #7			4058	11 773	*	
T.P.	4523	16 964	3385	12 446		
T.P.	4020	17 374	3 615	13 354		
P.B. #8			9 415	7 959		
		END	LINE	# 3		

Profile Notes Red. ____ Plotted ____ Job No. 002164 Division No. 10 F. B. [illegible] Pg. 41
No. ____ Date ____ Date ____ Survey of Portuguese Bend Landslide
X-Sec. Notes Chkd. ____ Checked ____ Survey by [illegible] Notes [illegible] Date [illegible]
No. ____ Date ____ Date ____ Map No. ____ Indexed [illegible] C. Johnson

76298 S & E #307—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.	LINE # 4	4-14-58
BM 34-15	4.705	233.922		229.217	B.M. 34-15, 7-57	ADJ. EL = 224.217
T.P.	4.181	232.521	5.582	228.340		
T.P.	3.170	229.793	5.898	226.822		
T.P.	3.013	227.762	5.243	224.749		
T.P.	2.750	224.671	5.345	221.917		
T.P.	2.098	222.079	4.004	219.973		
T.P.	2.814	216.573	6.842	213.759		
T.P.	3.401	213.564	6.363	210.163		
BM 50-13	1.930	209.493	5.860	207.563	B.M. 50-13, 7-57	ADJ. EL = 207.891
T.P.	3.531	207.001	6.461	203.470		
T.B.M. #15	7.622	208.983	7.640	199.361		
STA - J-5			6.946	202.037		
T.P.	6.120	211.783	3.320	205.663		
STA - R-2	10.340	214.998	7.1.5	204.658		
T.P.	11.200	225.429	1.461	213.529		
STA - J-4			4.043	221.386		
STA - J-3	7.161	227.308	5.282	220.147		
T.P.	0.602	216.742	11.168	216.140		
STA - J-1	2.411	212.128	7.025	209.717		
T.P.			9.143	202.974		

Profile Notes Red. Plotted Job No. Division No.
No. Date Date Survey of
X-Sec. Notes Chkd. Checked Survey by Notes
No. Date Date Map No. Indexed C. Johnson Date 4-15-58
F. B. Pg. 83

76298 S & E #307—7-55

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F. B. 2318 Pg. 84 | Job No. 0021.04 | Division No. 10 | Notes Red. | Plotted | No. | Profile
Survey of Portuguese Bend Landslide | Date | Date | No. | X-Sec.
Survey by Line | Notes . Line | Notes Chkd. | Checked
Indexed J. C. Johnson | Date | Date | Date | No.

STATION	B. S.	H. I.	F. S.	ELEV.	
T.P.	2821	205 800 N		202 979 N	
B.M. "O"			7315	198484	
T.P.	7011	201 698 N	10 913	194 687 N	
T.P.	2 972	200 4.05 N	4462	197 433 N	*
	BEG.	SIDE	LINE	TO	T.B.M. # 25
T.P	0484	189 45 N	11 441	185 967 N	
T.P	1012	178 431 N	11 532	177 919 N	
T.P.	0718	168 384 N	11 265	167 666 N	
T.P.	0561	157 614 N	11 329	157 053 N	
T.P.	1241	147 553 N	11 304	146 312 N	
T.P.	1230	137 312 N	11 471	136 082 N	
T.P.	3 000	130 470 N	9842	127 470 N	
T.B.M # 25			6 188	124 282 N	
	END	SIDE	LINE		
T.P.	8960	206 396 N		197 436	*
T.P.			10759	195641 N	*
	BEG.	SIDE	LINE	TO	V-1A
T.P.	10813	216607 N	0601	205794 N	
T.P.	10800	226 932 N	0475	216 132 N	
T.P.	11542	237 835 N	0637	226 293 N	
STA V-1A			11842	225 654 N	END SIDE LINE

76298 S & E #307—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.		
T.P.	1855	197 49		195641	SAME TP AS pg 82 [illegible]	
T.P.	7947	200323	5[illegible]	192376		
T.P.	4350	199273	5400	194923		
B.M. 34 17-A	10910	204756	5427	193842 *		
	BEG. [illegible]	[illegible]	TO	K-1		
T.P.	11910	214337	2329	202427		
STA K-1			0730	213607		
B.M. 34-17A	4865	198711		193846 *		
T.P.	5753	200024	4440	194271		
T.P.	4465	199768	4721	195303		
T.P.	1585	194864	[illegible]	192984		
T.P.	1006	184817	11060	183807		
T.P.	1000	177214	8201	176214		
BM. 34-18			5[illegible]	168731	B.M-34-18 7-57	ADJ. EL = 168.682
	CORRECTED	[illegible]	ON	B.M. 34-18		
B.M. 34-18	1779	170461		168682	B.M 34-18 7-57	ADJ. EL = 168.682
T.P.	2396	162656	10201	160260		
T.P.	5910	163570	4910	157660		
STA. P-3			5519	158057		
T.P.	6022	165713	3885	159691		
T.P.	6835	167623	4425	161288		

Profile Notes Red. ____ Plotted ____ Job No. ____ Division No. ____ F. S. Pg. 85
No. ____ Date ____ Date ____ Survey of [illegible]
X-Sec. Notes Chkd. ____ Checked ____ Survey by [illegible] Notes [illegible] Date [illegible] 58
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

C. Johnson

76298 S & E #307—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.		
		167 623				
STA – P-2	6900	170362	4161	163462		
T.B.M #31			3295	167067	T.B.M # 31	7-57 ADJ. EL = 167.050
		END	LINE	#	4	

F. S. 2318 PG. 86 Job No. 002464 Division No. 10 Notes Red. Plotted Profile
Survey of PORTUGUESE BEND LANDSLIDE Date Date No. X-Sec.
Survey by LINO Notes Chkd. Checked
Indexed C. Johnson Date Date No.

76L298 S & E #307 9-54

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STATION	B. S.	H. I.	F. S.	ELEV.	LINE # 5	4-24-58
STA B1	1660	472135		470475	STA B1	ADJ. [illegible] 470.[illegible]
T.P.	1695	462629	11201	460934		
T.P.	1720	453260	11089	451540		
STA. B1	2290	445020	10930	442330		
T.P.	0739	435105	10654	434360		
T.P.	2180	425655	11630	423475		
T.P.	0745	417275	9125	416530		
P.T. - # 1			0800	416475		
T.P.	0829	406563	11541	405734		
P.T. # 2	0679	397453	9789	396774 *		
	BEG. SIDE LINE TO SWEET BAYS					
S.B. # 1	1330	391074	7709	389744		
S.B. # 2	0920	384130	7864	383210		
T.P.	0773	373589	11314	372810		
T.P.	1058	363052	11565	362024		
S.B. # 3			10242	352840		
	END SIDE LINE					
P.T. # 2	1107	397881		396774 *		
T.P.	0871	387740	11006	386875		
P.T. # 3			1982	385764		
T.P.	1802	378157	11391	376354		

Profile No. ____ Notes Red. ____ Plotted ____ Job No. ____ Division No. ____ F. B. 2318 Pg. 87
X-Sec. No. ____ Date ____ Date ____ Survey of Portuguese Bend Landslide
Notes Chkd. GOSS Checked ____ Survey by ____ Notes ____ Date ____
Date ____ Date ____ Map No. ____ Indexed C. Johnson Date 4-28-58

76L298 S & E #307 9-54

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STATION	B. S.	H. I.	F. S.	ELEV.		
		378 157				
P.T. # 4	0 440	370 242	8 355	369 802	*	
	BEG. SIDE LINE TO				H-1, 2 & 4	
T.P.	2 933	361 935	11 240	359 002		
STA H-1			11 346	350 589		
T.P.	0 546	350 678	11 803	350 132		
T.P.	1 002	341 790	9 890	340 788		
STA H-2	0 897	330 830	11 851	329 939		
T.P.	2 437	322 420	10 853	319 983		
STA H-4			9 845	312 575		
	END SIDE LINE					
P.T # 4	9 595	379 397		369 802	*	
	BEG. SIDE LINE TO				W. FIX	
T.P.	10 235	385 939	3 693	375 704		
T.P.	9 213	392 715	2 437	383 502		
T.P.	7 491	397 922	2 280	390 435		
STA. W. FIX			4 120	393 802		
	END SIDE LINE					
P.T. # 4	0 659	370 461		369 802	*	
T.P.	0 613	359 582	11 492	358 969		
T.P.	1 434	351 155	9 861	349 721		

F. B. 2318 Pg. 88 Job No. 002164 Division No. 10 Notes Red. Plotted Profile
Survey of PORTUGUESE BEND LANDSLIDE Date Date No. X-Sec.
Survey by LINO Notes LINO Notes Chkd. GOSS Checked
Indexed C. Johnson Date Date Date No.

76L298 S & E #307 9-54

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STATION	B. S.	H. I.	F. S.	ELEV.	
		351155			
P. T. # 5	0868	341614	10209	340946	
T.P.	0895	332502	10207	331607	
T.P.	0209	321382	11729	320773	
P.T. # 6	6502	319643	8239	313143	*
	BAC	SIDE	LINE	TO	I 1, 2, 3, & BLAKESLEE
I - 1	1349	319518	1484	318169	
T.P.	0827	309142	11197	308313	
T.P.	0781	299279	10651	298489	
I - 2	8769	296577	11670	287608	
I - 3			11866	284718	
T.P.	11226	303992	3811	292766	
			0700	303292	
	END	SIDE	LINE		
P.T. # 6	0322	313469		313143	*
L #1			4028	309437	
TP	0944	302900	11509	301758	
TP	0733	292470	11162	291737	
TP			10387	282083	
	1160	283293			
PT #7			11198	271545	

Profile Notes Red. Plotted Job No. Division No. 14
No. Date Date Survey of
X-Sec. Notes Chkd. Checked Survey by Notes Date
No. Date Date Map No. Index C. Johnson
F. B. Pg. 89

76L298 S & E #307 9-54

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F. B. 2318 Pg. 90 | Job No. 002164 | Division No. 10 | Notes Red. | Plotted | No. | Profile
Survey of Portuguese Bend Landslide | Date | Date | X-Sec.
Survey by Lino | Notes Hills | Notes Chkd. Goss | Checked
Indexed C. Johnson | Date | Date | Date | No.

STATION	B. S.	H. I.	F. S.	ELEV.		
	0636	272 181		271 545		
TP	0369	261 917	10623	261 548		
TP	0587	251 793	[illegible]	250 936		
TP	0793	241 [illegible]	11 523	240 270		
TP	0498	231 499	10 068	231 001		
TP	1473	221 472	11 500	219 999		
TP	0878	210 938	11 412	210 060		
BM-C			6 667	204 271		
TP	2213	201 714	11 427	199 501		
TP	5669	199 395	[illegible] 984	193 730		
TP	4159	199 392	4 157	195 238		
TP	2118	195 162	6 346	193 044		
TP	0538	187 783	7917	187 245		
TP	0956	177 105	11 634	176 149		
B.M. 34-18			8 458	168 671	B.M. 34-18	7-57 ADJ. EL = 168.682
			END	LINE # 5		

76L298 307 8-53

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STATION	B. S.	H. I.	F. S.	ELEV.	LINE #1	5-1-58
B.M B-1D	2956	473431		470475	B.M. B-1D ELEV. 470.475	
T.P.	0574	462265	11740	461691		
T.P.	0870	451668	11467	450798		
T.P.	0800	440767	11701	439967		
T.P.	0448	429930	11285	429482		
T.P.	0776	419169	11537	418393		
T.P.	4425	412205	11389	407780		
T.P.	3877	410098	5984	406221		
T.P.	4244	408138	6204	403894		
B.M.-P.B.-9	3975	408144	3969	404169		
T.P.	6198	410767	3575	404569		
T.P.	6521	413467	3821	406946		
P.I.#5			4954	408513		
T.P.	5988	415560	3895	409572		
T.P.	3129	414448	4241	411319		
T.B.M.#30	1474	406833	9089	405359		
T.P.	6154	405679	7308	399525		
T.P.	6318	408683	3314	402365		
P.I.#4			4571	404112		
T.P.	6602	411123	4162	404521		
T.P.			3414	407709		

Profile Notes Red. ____ Plotted ____ Job No. 0021.64 Division No. 10 F. B. 5315 Pg. 91
No. ____ Date ____ Date ____ Survey of PORTUGUESE BEND LANDSLIDE
X-Sec. Notes Chkd. GOSS Checked ____ Survey by LINO Notes T.S.R. Date 5-1-58
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date 5-6-58

76L298 307 8-53

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F. B. 2318 Pg. 92 Job No. 002164 Division No. 10 Notes Red. Plotted Profile
Survey of PORTUGUESE BEND LANDSLIDE Date Date No. X-Sec.
Survey by LIND Notes T.C.P. Notes Chkd. CEG Checked
Indexed C. Johnson Date Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.		
	1075	408 784		407 709	*	
		BEGIN SIDELINE				
T.P.	8470	415 945	1309	407 475		
T.P.	11401	426 104	1242	414 703		
G-7 R.M.#1			4441	421 663		
S.P. HILLS G-7			5365	420 739		
G-7 R.M.#2			4338	421 766		
		END SIDELINE				
	1075	408 784		407 709	*	
T.P.	1150	398 285	11649	397 135		
T.P.	1985	390 706	9564	388 721		
T.P.	3435	384 297	9844	380 862		
T.P.	2979	380 067	7209	377 088		
P.I.#3	0523	373 480	7110	372 957		
T.P.	1310	363 240	11550	361 930		
T.P.	0427	352 081	11586	351 654		
P.I.#2	3155	343 835	11401	340 680		
P.I.#1			8258	335 577		

76L298 S & E #307 9-54

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STATION	S. S.	H. I.	F. S.	ELEV.	LINE # 1	5-1-58
P.I. # 1	1561	337 138		335577 *		
		BEGIN	SIDELINE			
T.P.	0432	325 610	11960	325 178		
T.P.	0783	314 899	11494	314 116		
T.P.	1152	304 556	11495	303404		
T.P.	0976	294 387	11145	293 411		
T.P.	10003	294 027	10363	284 024		
H7A ECC #1			5811	288 216		
H7A			5585	288 442		
	END	SIDELINE				
	0668	336245		335577 *		
T.P.	0619	325095	11769	324476		
T.P.	0388	314082	11401	313694		
T.P.	0533	302 974	11641	302 441		
B.C.	1248	292 353	11869	291105		
T.P.	2539	284 245	10647	281 706		
P.B. # 10	1532	281 185	4592	279653		
T.P.	0267	269 811	11641	269544		
T.P.	0403	259 756	10458	259353		
T.P.	0394	249 146	11004	248752		
T.P.			11463	237683		

Profile No. ____ Notes Red. ____ Plotted ____ Job No. ____ Division No. ____ F. B. 2319 Pg. 49
Date ____ Date ____ Survey of [illegible]
X-Sec. No. ____ Notes Chkd. CLG Checked ____ Survey by LIND Notes J.C.P. Date 5-1-58
Date ____ Date ____ Map No. ____ Indexed C. Johnson Date ____

76L298 S & E #307 9-54

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STATION	B. S.	H. I.	F. S.	ELEV.		
	0546	238229		237683		
T.P.	0361	227792	10 798	227431		
T.P.	0837	218148	10481	217 311		
W.F. #1			7598	210 550		
T.P.	0559	207 589	11 118	207030		
T.P.	0583	196775	11 397	196 192		
T.P.	0305	185 941	11 137	185 636		
T.P.	0596	176 502	10 037	175 966		
T.B.M. #31			9 593	167 109	TBM #31	ELEV = 167 050

F. B. 2318 Pg. 94 Job No. 0021.64 Division No. 10 Notes Red. Plotted Profile
Survey of PORTUGUESE BEND LANDSLIDE Date Date No.
Survey by LIND Notes T.C.P. Notes Chkd. CRG Checked X-Sec.
Indexed ~~E. O. Johnson~~ Date Date Date No.

76L298 S & E #307 9-54

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STATION	B. S.	H. I.	F. S.	ELEV.	LINE # 2	5-5-58
B.M. 34-15	4642	233859		229217	B.M. 34-15, EL = 229.217	
T.P.	4135	232469	5525	228334		
T.P.	3309	230129	5640	226829		
T.P.	3067	227418	5718	224351		
T.P.	2833	224739	5512	221906		
T.P.	2075	220177	6637	218102		
T.P.	2636	216530	6283	213894		
T.P.	3832	213585	6777	209753		
B.M. 50-13	3452	211441	5596	207989	B.M. 50-13	
T.P.	11987	215442	7986	203455		
T.P.	11418	225402	1458	213984		
T.P.	9082	234130	0354	225048		
T.P.	11842	245281	0691	233439		
T.P.	11669	255933	1017	244264		
T.P.	11055	266392	0596	255337		
T.P.	10872	276127	1137	265255		
T.P.	11434	286457	1104	275023		
T.P.	11553	296853	1157	285300		
T.P.	11006	306826	1033	295820		
T.P.	8300	314203	0923	305903		
SHIELDS			3836	310367		

Profile Notes Red. Plotted Job No. Division No.
No. Date Date Survey of F. B.
X-Sec. Notes Chkd. Checked Survey by Notes Date Pg.
No. Date Date Map No. Indexed C. Job No.

76L298 S & E #307 9-54

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STATION	B. S.	H. I.	F. S.	ELEV.		
	8033	318400		310367		
T.P	7635	321892	4143	314257		
STA. G-1	3854	319629	6117	315775		
T.P.	9857	326039	3447	316182		
STA. A-4	7425	329679	3785	322254		
" A-3	9714	335310	4083	325596		
T.P	11172	343907	2575	332735		
T.P	11764	354269	1402	342505		
T.P	12002	365099	1172	353097		
sta Rad 1	4969	367423	2645	362454		
T.P	0213	360932	6704	360719		
T.P	1954	351661	11225	349707		
B.M. 50-12	7818	362883	6596	345065		
T.P.	11152	363392	0643	352240		
T.P.	11118	373978	0532	362860		
T.P.	11882	385423	0437	373541		
sta D-2			1[illegible]	384250		
T.P.	10[illegible]	395413	0615	384808		
T.P.	11310	406105	0618	394795		
T.P.	11398	417207	0296	405809		
T.P.	10303	427192	[illegible]	416889		

F. B. 2318 Pg. 96 Job No. 002164 Division No. 10 Notes Red. Plotted Profile
Survey of PORTUGUESE BEND LANDSLIDE Date Date No.
Survey by LIND Notes T.C.P. Notes Chkd. CRG Checked X-Sec.
Indexed C. Johnson Date Date Date No.

76L298 S & E #307 9-54

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
		427 192				
T.P.	8 372	434 962	0 602	426 590		
TBM Pc. PP			[illegible]	431 612		
T.P.	8 630	437 ~~1~~ 6 67	[illegible]	431 057		
Sta. E-1	[illegible]	441 ~~1~~ 5 94	[illegible]	431 ~~4~~ 2 69		
T.P.	[illegible]	44~~6~~ 5 9 [illegible]	5 0[illegible]	43~~6~~ 5 [illegible]		
Sta D-1	[illegible]	[illegible]	[illegible]	[illegible]		
T.P.	[illegible]	436 205	11 055	[illegible]		
Sta C-1			4 878	431 [illegible]		
T.P.	[illegible] 054	425 [illegible]	[illegible]	[illegible]		
T.P.	4 09[illegible]	421 25[illegible]	[illegible]	417 16[illegible]		
Sta B-1			5 0[illegible]	416 [illegible]		
" B-1A	[illegible]	422 856	8 705	[illegible]		
" B-1B			[illegible]	[illegible]		
T.P.		426 386	1 775	[illegible]		
T.P.	10 64[illegible]	434 [illegible]	[illegible]	423 4[illegible]		
T.P.	11 537	445 389	0 248	433 85[illegible]		
Sta B-1C	10 977	453 278	[illegible]	442 301		
T.P.	11 846	461 146	3 97[illegible]	449 300		
T.P.	11 327	469 949	2 534	453 612		
T.P.	6 593	474 444	2 098	467 [illegible]		

Profile Notes Red. Plotted Job No. Division No. F. B. Pg.
No. Date Date Survey of
X-Sec. Notes Chkd. CKG Checked Survey by LIND Notes Date
No. Date Date Map No. Index [illegible] C. Johnson

F. B. -2318 Pg. 98

Job No. 002164 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of Portuguese Bend Landslide Date _____ Date _____ No. _____

Survey by Lind Notes ACG Notes Chkd. CRG Checked _____ X-Sec.

Indexed A. C. Johnson Date _____ Date _____ Date _____ No. _____

76L298 S & E #307 9-54

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STATION	B. S.	H. I.	F. S.	ELEV.		
Sta B-1-D		474.449	3.[illegible]	470.[illegible]		

76298 S & E #307—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.	LINE #3	5-12-58
B.M. 34-15	1028	230245		229217	B.M. 34-15, EL =	229.217
T.P.	0181	221188	9238	221007		
T.P.	0319	211749	9758	211430		
T.P.	0608	202235	10122	201627		
T.P.	0497	191841	10891	191344		
T.P.	0562	181368	11035	180806		
T.P.	0717	170911	11174	170194		
T.P.	0960	160751	11120	159791		
T.P.	0341	149810	11282	149469		
T.P.	0870	139792	10888	138922		
T.P.	11672	140064	11400	128392 *		
		BEGIN SIDELINE				
STA. K-5			4015	136049		
		END SIDELINE				
	1038	129430		128392 *		
TP	0748	118530	11648	117782		
T.P.	2702	110133	11099	107431		
K5 AUX.	0480	102281	8332	101801		
T.P.	0248	91347	11182	91099		
STA. K-4			6958	84389		
STA. K-A			10418	80929		
T.P.			11293	80054		

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 00264 Division No. 10 F. B. 2318 Pg. 11
Date ____ Date ____ Survey of Road Slide Bend Landslide
X-Sec. No. ____ Notes Chkd. CLJ Checked ____ Survey by LIND Notes T.C.R. Date 5-12-58
Date ____ Date ____ Map No. ____ Index C. Johnson 5-13-58

76298 S & E #307—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.		
	1089	81 143		80054		
STA. K AB			6890	74253		
T.P	0432	70072	11503	69640		
K B			4835	65237		
T.B.M. #28	2235	62635	9672	60400		
K C			5023	57607		
K 3 A			4738	57897		
T.P.	0670	51294	12011	50624		
K D			4743	46551		
T.P.	0462	40561	11195	40099		
K E			3308	37253		
T.B.M. #27 AUX			5970	34591		
STA. K2	1910	32661	9810	30751		
T.P.	0908	22609	10960	21701		
T.P.	4314	22843	4080	18529		
T.B.M. #26 B			6575	16268		
T.B.M. #26 C			4965	17878		
T.B.M. #26	4622	21194	6271	16572		
T.B.M. #26 D			4260	16934		
TB M. #26 E			2310	18884		
T.B.M. #26 A			2702	18492		
T.P.			4144	17050		

F. B. 2318 PG. 100 Job No. 002164 Division No. 10 Notes Red. Plotted Profile
Survey of PORTUGUESE BEND LANDSLIDE Date Date No. X-Sec.
Survey by LIND Notes T.C.P. Notes Chkd. CLG Checked
Indexed C. Johnson Date Date Date No.

76298 S & E #307—7-55

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LINE #3 5-12-58

STATION	B. S.	H. I.	F. S.	ELEV.
	3722	20772		17050
T.P.	3829	22754	1838	18934
T.P.	3288	14973	11070	11684
P.B.# 1			7310	7662
T.P.	4820	12657	7135	7837
T.P.	7667	18453	1871	10786
P.B.# 2A			5542	12911
T.P.	2568	10621	10400	8053
P.B. #3			5672	4949
T.P.	2640	5126	8135	2486
P.B.# 5A	3462	4298	4290	0836
T.P.	4617	6482	2433	1865
P.B.# 6A	6318	6765	6035	0447
T.P.	10332	15958	1139	5626
P.B.# 7			4112	11846
T.P.	1209	16023	1135	14823
T.P.	6938	17819	5142	10881
T.P.	3850	14351	7318	10501
P.B.# 8			6322	8029

End of Run

Profile Notes Red. Plotted Job No. Division No.
No. Date Date Survey of F. B. Pg.
X-Sec. Notes Chkd. Checked Survey by Notes
No. Date Date Map No. Indexed J. C. Johnston Date

76298 S & E #307—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.	LINE #4	5-19-58
BM 34-15	[illegible]	[illegible]		229.217	BM 34-15 ELEV =	229.217
T.P.	4.185	232.520	[illegible]	228.335		
T.P.	[illegible]	[illegible]	[illegible]	226.826		
T.P.	[illegible]	[illegible]	[illegible]	[illegible]		
T.P.	2.507	224.516	5.483	221.90[illegible]		
T.P.	[illegible]	[illegible]	6.405	[illegible]		
T.P.	[illegible]	[illegible]	[illegible]	213.90[illegible]		
T.P.	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	207.[illegible]		
T.P.	[illegible]	[illegible]	[illegible]	203.447		
TBM #15	[illegible]	[illegible]	[illegible]	199.187		
Sta J-5			[illegible]	[illegible]		
T.P.	[illegible]	212.[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	215.[illegible]	[illegible]	[illegible]		
T.P.	[illegible]	[illegible]	[illegible]	[illegible]		
Sta J-4			[illegible]	[illegible]		
Sta J-3	[illegible]	226.[illegible]	5.[illegible]73	[illegible]		
T.P.	[illegible]	[illegible]	[illegible]	[illegible]		
Sta J-1	[illegible]	212.[illegible]	7.21[illegible]	[illegible]		
T.P.	3.5[illegible]	[illegible]	[illegible]	[illegible]		
BM D			[illegible]	[illegible]		

Profile No. ____ Notes Red. ____ Plotted ____ Job No. ____ Division No. ____ F. B. [illegible] Pg. [illegible]
Date ____ Date ____ Survey of [illegible]
X-Sec. No. ____ Notes Chkd. JFM Checked ____ Survey by ____ Notes [illegible] Date [illegible]
Date ____ Date ____ Map No. ____ Indexed ____ Date 5-21-58

76298 S & E #307—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.		
		[illegible]				
T.P.	[illegible]	[illegible]	[illegible]	[illegible]		
T.P.	[illegible]	[illegible]	[illegible]	[illegible]	⊛	
T.P.			[illegible]	[illegible]	* [illegible]	
		BEGIN [illegible]				
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
T.P.	[illegible]	[illegible]	[illegible]	[illegible]		
Sta J-1A			[illegible]	[illegible]		
		END [illegible]				
		BEGIN				
T.P.	[illegible]	[illegible]		[illegible]	⊛	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
T.P.	[illegible]	[illegible]	[illegible]	[illegible]		
T.P.	1.176	137.6	11293	[illegible]		
T.P.	[illegible]	[illegible]	[illegible]	[illegible]		
T.B.M. 35			[illegible]	[illegible]		
		END [illegible]				

F. B. 2318 Pg. 104 Job No. 0021.64 Division No. 10 Notes Red. Plotted Profile
Survey of [illegible] Date Date No.
Survey by [illegible] Notes [illegible] Notes Chkd. Checked X-Sec.
Indexed A. C. Johnson Date Date Date No.

76298 S & E #307—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.		
T.P.	2007	1.17303		[illegible]	* SEE Pg 104	
T.P.	7.[illegible]4	198 [illegible]	4.[illegible]2	19.367		
T.P.	4.302	199.167	3.613	194.802		
E[illegible]			5.499	193.771		
		[illegible]	[illegible]	[illegible]		
[illegible]	3.[illegible]3	[illegible]		193.[illegible]		
T.P.	10.481	212.[illegible]	7.[illegible]	204.[illegible]		
T.P.	6.745	206.[illegible]	3.[illegible]	200.760		
Sta. A-1			3.[illegible]	203.[illegible]		
		END	[illegible]	[illegible]		
BM 34-11A	4.521	198.512		193.991		
T.P.	5.[illegible]4	199.759	4.[illegible]	194.[illegible]		
T.P.	4.113	199.516	4.354	195.405		
T.P.	3.[illegible]	196.[illegible]	6.403	193.115		
T.P.	0.[illegible]	155.[illegible]	2.[illegible]	16.[illegible]		
T.P.	0.[illegible]	[illegible].44	1.[illegible]	[illegible]		
BM 34-11			[illegible]	1.875	[illegible] ELEV. 16[illegible]	
BM 34-11	1.[illegible]	170.[illegible]		[illegible]		
T.P.	2.[illegible]	162.541	[illegible]	160.[illegible]		

Profile Notes Red. Plotted Job No. Division No.
No. Date Date Survey of F. B.
X-Sec. Notes Chkd. [illegible] Checked Survey by Notes Pg.
No. Date Date Map No. Index [illegible]

76298 S & E #307—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.		
		[illegible]				
T.P.	6373	163 [illegible]	5[illegible]	156[illegible]		
Sta P-3			[illegible]	[illegible]		
T.P.	5365	165 236	3[illegible]	[illegible]		
T.P.	4[illegible]	[illegible]	[illegible]	[illegible]		
T.P.	5548	168 690	3355	163 142		
Sta P-2			[illegible]	[illegible]		
T.P.	[illegible]	170 [illegible]	3655	[illegible]		
TBM #31			35[illegible]	[illegible]	TBM #31 ELEV =	167.050

F. B. 2318 Pg. 106 Job No. 002164 Division No. 10 Notes Red. Plotted Profile
Survey of PORTUGUESE BEND LANDSLIDE Date Date No. X-Sec.
Survey by LWO Notes ACG Notes Chkd. Checked
Indexed C. Johnson Date Date Date No.

76L298 307 8-53

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STATION	B. S.	H. I.	F. S.	ELEV.	LINE # 5	5-22-58
STA. B-1-D	1702	472 177		470 475		
T.P.	1583	462 493	11267	460 910		
T.P.	2 013	453 552	10 954	451 539		
STA. B-1-C	2 951	445 279	11224	442 328		
T.P.	0773	435 119	10 933	434 346		
T.P.	3 588	427 045	11 662	423 457		
T.P.	0 652	416 890	10807	416 238		
P.T. # 1			0707	416 183		
T.P.	0782	406 346	11 326	405 564		
P.T. # 2	0 955	397 599	9702	396 644	*	
	BEG	SIDE	LINE	TO	SWEPT BAYS.	
T.P.	1 832	392 408	7 023	390 576		
S.B. # 1			2 696	389 712		
S.B. # 2	0 883	384 101	9 190	383 218		
T.P.	0 798	373 623	11 276	372 825		
T.P.	1 145	363 176	11 592	362 031		
S.B. # 3			10 324	352 852		
	END	SIDE	LINE			
P.T. # 2	1313	397 957		396 644	*	
T.P.	0 848	387 634	11 171	386 786		
P.T. # 3			1 960	385 674		

Profile No. ____ Date ____ Notes Red. ____ Plotted ____ Job No. ____ Division No. 10 F. B. 2318 PG. 107

X-Sec. No. ____ Date ____ Notes Chkd. CPG Date ____ Checked ____ Date ____ Survey of PORTUGUESE BEND LANDSLIDE Survey by LINO Notes LINO Date 5-22-58

Map No. ____ Date ____ Indexed C. JOHNSON Date 5-27-58

76L298 307 8-53

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STATION	B. S.	H. I.	F. S.	ELEV.		
		387 634				
T.P.	0859	377 115	11 378	376 256		
P.T. # 4	0838	370 537	7 416	369 699 *		
	BEG. SIDE LINE TO				H - 1, 2, & 4.	
T.P.	2503	361 375	11 665	358 872		
STA H-1			10 952	350 423		
T.P.	0569	350 560	11 384	349 991		
T.P.	1438	340 523	11 475	339 085		
STA H-2	1144	330 907	10 760	329 763		
T.P.	2013	321 867	11 053	319 854		
STA H-3			9406	312 461		
	END SIDE LINE					
	BEG. SIDE LINE TO				WEST FIX	
P.T. # 4	8895	378 594		369 699 *		
T.P.	9484	385 059	3 019	375 575		
T.P.	9035	392 284	1 808	383 251		
T.P.	7747	398 211	1 822	390 464		
Sta. W. Fix			4414	393 797		
	END SIDE LINE					
P.T. # 4	0642	370 341		369 699 *		
T.P.	0511	359 274	11 578	358 763		

F. B. 2318 Pg. 108 Job No. 0021.64 Division No. 10 Notes Red. Plotted Profile
Survey of PORTUGUESE BEND LANDSLIDE Date Date No. X-Sec.
Survey by LIND Notes LIND Notes Chkd. CRJ Checked
Indexed A. C. Johnson Date Date Date No.

76L298 307 8-53

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STATION	B. S.	H. I.	F. S.	ELEV.		
		359 274				
T.P.	1433	350 960	9747	349 527		
P.T. # 5	0813	341 640	10133	340827		
T.P.	0850	332 343	10147	331493		
	0748	321398	11693	320650		
P.T. # 6			8430	312968 *		
	BEG. SIDE LINE TO				I-1, 2, 3, & BLAKSLEE	
T.P.	6873	321728	6543	314855		
STA I-1			3653	318075		
T.P.	0943	311390	11275	310453		
T.P.	0588	300594	11388	300008		
T.P.	7488	296550	11534	289062		
Sta. I-2			9148	287402		
STA. I-3			12005	284545		
T.P.	11290	303862	3978	292572		
BLAKSLEE			0650	303212		
	END SIDE LINE					
P.T. # 6	0430	313398		312968 *		
STA. L-1			4143	309255		
T.P.	0674	302918	11154	302244		
T.P.	1016	292571	11363	291555		

Profile Notes Red. ____ Plotted ____ Job No. 0021.64 Division No. 10 F. B. 2318 PG. 109
No. ____ Date ____ Date ____ Survey of Portuguese Bend Landslide
X-Sec. Notes Chkd. CHG Checked ____ Survey by Lind Notes Lind Date 5-27-55
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

C. Johnson

76L298 307 8-53

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F. B. 2318 Pg. 110 Job No. 00211 68 Division No. 10 Notes Red. Plotted
Survey of Portuguese Bend Landslide Date No. Profile
Survey by Line Notes Line Notes Chkd. CLJ Checked X-Sec.
Indexed R. C. Johnson Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.		
		292 57 N				
T.P.	1504	283032 N	11043	281528 N		
P.T. #7	0923	272329 N	11626	271406 N		
T.P.	0277	261661 N	10945	261384 N		
T.P.	0662	251419 N	10904	250757 N		
T.P.	0598	240770 N	11247	240172 N		
T.P.	0473	231417 N	9826	230944 N		
T.P.	0667	220624 N	11463	219957 N		
T.P.	0512	210560 N	10567	210054 N		
B.M. "E"			6298	204268 N		
T.P.	0817	200318 N	11065	199501 N		
T.P.	5485	199690 N	6110	194208 N		
T.P.	4252	199664 N	4284	195412 N		
T.P.	2184	195053 N	6795	192869 N		
T.P.	0758	188448 N	7363	187690 N		
T.P.	0494	177374 N	11565	176394 N		
B.M. 34-18			8658	168716 N	B.M. 34-18, EL= 168.682	

76298 S & E #307—7-55

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	PORTUGUESE BEND	LINE #2
BM 34-15	4 477	233 694		229 217	BM 34-15	ELEV = 229.217
T.P.	3 975	232 309	5360	228 334		
T.P.	3 462	230 294	5 477	226 832		
T.P.	2 844	227 199	5 939	224 355		
T.P.	2028	222 [illegible]	6 367	220 832		
T.P.	2547	217 532	7 875	214 985		
T.P.	3640	215 084	6 088	211 444		
[illegible]	4597	213 494	6 187	208 897		
BM 50-13	3 5[illegible]	[illegible]	5500	[illegible]		
T.P.	[illegible]	215 4[illegible]	[illegible]	[illegible]		
T.P.	11 89[illegible]	225 [illegible]60	1 4[illegible]	213 962		
T.P.	[illegible]	[illegible]	[illegible]518	[illegible]		
TP	11 795	245 22[illegible]	[illegible]	[illegible]		
TP	11 917	256 173	[illegible]	[illegible]		
TP	11 402	266 727	0 848	[illegible]		
T.P.	10 863	276 113	1 477	[illegible]		
T.P.	11 799	286 [illegible]	1 112	275 011		
TP	11 573	296 865	1 518	285 292		
TP	11 [illegible]	307 051	1 052	295 613		
T.P.	8 342	314 250	1 163	305 888		
Sta. [illegible]	7 945	318 292	3 883	310 347		

Profile Notes Red. Plotted Job No. [illegible] Division No. F. B. 2918 Pg. [illegible]
No. Date Date Survey of [illegible] BEND [illegible]
X-Sec. Notes Chkd. Checked E. McMILLAN Survey by [illegible] Notes [illegible] Date 5-26-58
No. Date Date Map No. Index [illegible] C. John [illegible] Date 6-10-58

76298 S & E #307—7-55

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F. B. 2318 Pg. 112 | Job No. 202/66 Division No. 10 Notes Red. Plotted Profile
Survey of Rotary Wells Ford Lennox Line Date No. X-Sec.
Survey by Lund Notes Hess Date Chkd. Checked
Indexed C. Johnson Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.		
		391 [illegible]				
T.P.	8276	382 606	4 [illegible]	381 [illegible]		
Sta A-1	8 [illegible]	391 5.5	6 [illegible]	385 41		
T.P.	7 [illegible]	386 47	[illegible]	[illegible]		
Sta A-4			[illegible]	[illegible]		
A-3	11135	396 [illegible]	[illegible]	[illegible]		
T.P.	[illegible]	[illegible]	[illegible]	[illegible]		
T.P.	[illegible]	394 [illegible]	[illegible]	[illegible]		
T.P.	12017	365 [illegible]	[illegible]	[illegible]		
Sta R-1	5 [illegible]	387 781	[illegible]	[illegible]		
T.P.	9224	360 [illegible]	[illegible]	[illegible]		
T.P.	12236	351 953	[illegible]	[illegible]		
BM 50-12	8333	[illegible]	7 [illegible]	344 [illegible]		
T.P.	11 [illegible]	[illegible] 451	0 515	352 677		
T.P.	11 843	[illegible]	[illegible]	[illegible]		
T.P.	11 739	386 [illegible]	0 [illegible]	374 [illegible]		
Sta D-2			[illegible]	[illegible]		
T.P.	9726	394 226	[illegible]	[illegible]		
T.P.	9 882	403 6[illegible]	[illegible] 443	[illegible]		
T.P.	12014	415 216	[illegible] 463	403 202		
T.P.	11 657	426 621	0 252	414 964		

76298 S & E #307—7-55

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
		426 [illegible]				
T.P.	7 931	434 074	0 [illegible]	426 143		
TBM RD.			2 [illegible]	431 [illegible]		
T.P.	6 498	438 075	2 [illegible]	431 [illegible]		
Sta E-1	11 535	442 587	7 023	431 052		
TP	6 764	443 374	5 977	4[illegible]		
Sta D-1	7 557	444 884	6 [illegible]	437 327		
T.P.	2 267	435 356	11 795	433 089		
Sta C-1	1 207	432 358	4 205	431 151		
T.P.	0 566	423 449	9 475	422 883		
TP	3 055	419 926	6 578	416 871		
Sta B-1			3 955	415 971		
TP	5 298	421 096	4 128	415 798		
~~Sta B-1A~~					NOT FOUND — CULTIVATED FIELD	
B-1B			3 641	417 455		
TP	5 985	426 476	0 605	420 491		
T.P.	11 779	435 226	3 029	423 447		
T.P.	10 529	444 871	0 884	434 342		
Sta B-1C			2 542	442 329		
TP	10 115	453 495	1 491	443 380		
TP	11 177	460 498	4 174	449 321		

Profile Notes Red. Plotted Job No. Division No. F. B. Pg. 113
No. Date Date Survey of
X-Sec. Notes Chkd. Checked F. McMILLAN Survey by Notes Date
No. Date Date Map No. Indexed C. Johnson

F. B. 2318 Pg. 114 Job No. 002164 Division No. 10 Notes Red. Plotted Profile

Survey of PORTUGUESE BEND LANDSLIDE Date Date No.

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

Indexed A. C. Johnson Date Date Date No.

76298 S & E #307—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.		
TP	11.618	460.486				
TP	4.880	470.258	1.8[illegible]	458.640		
BM 8-1D		472.732	2.37[illegible]	[illegible]		
			2.271	470.[illegible]	BM 8-1D	
						ELEV = 470.475

76298 S & E #307—7-55

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LINE # I — 5-29-58

STATION	B. S.	H. I.	F. S.	ELEV.	
BM B-10	3179	473 654		470 475	BM B-10 ELEV = 470.475
TP	1 674	463 949	11 379	462 275	
	0 318	452 836	11 431	452 518	
	0 431	441 682	11 585	441 251	
	0 618	430 394	11 906	429 776	
	0 310	418 606	11 998	418 396	
	3 949	412 274	10 281	408 325	
	3 704	409 980	6 058	406 276	
	4 280	408 198	6 042	403 918	
BM RB-7	3 997	408 159	3 996	404 162	BM RB-7
T.P.	6 252	410 810	3 600	404 558	
T.P.	6 523	413 455	3 975	406 932	
P.I. # 5			4943	408 512	
T.P.	6 643	415 602	3 279	409 559	
T.P.	0 774	412 344	4034	411 568	
T.B.M. #30	1 274	406 435	7 003	405 341	
T.P.	5 827	405 483	6 779	399 656	
T.P.	6 167	405 356	3 292	402 191	
P.I. # 4			4 267	408 091	
T.P.	6 875	411 373	3 863	404 498	
T.P.	10 674	421 213	0 834	411 039	

Profile — Notes Red. — Plotted — Job No. — Division No. — F. B. — Pg.
No. — Date — Date — Survey of — Date
X-Sec. — Notes Chkd. — Checked J. F. McMILLAN — Survey by — Notes C. JOHNSON — Date
No. — Date — Date — Map No. — Index — Date

76298 S & E #307—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.		
		421 213				
T.P.	6215	425 025	2403	418810		
T.P.	5705	425 943	4787	420[illegible]		
T.P.	3800	425 588	4155	421788		
R. M # 1			3912	421676		
S.P. Hills 6-7			4835	420750		
R.M. # 2			3813	421775		
T.P.	0353	415 083	10 858	414730		
T.P.	1152	405 180	11 055	404028		
T.P.	1016	395 066	11 130	394050		
T.P.	1307	384 697	11 676	383390		
T.P.	3128	380 153	7677	377025		
P.I. # 3	0414	373361	7266	372887		
T.P.	0820	362 667	11 494	361867		
T.P.	0308	[illegible]	11 099	3[illegible]		
P.I. # 2	3132	343 759	11 [illegible]	34 062		
P.I. # 1	1545	337 064	8240	33 5[illegible]	*	
	Beg.	Side		Line		
T.P.	0716	325 836	11 944	325 1[illegible]		
T.P.	0767	314 829	11 774	314 062		
T.P.	1152	304 505	11 478	303351		

F. B. 2318 Pg. 116 Job No. 0021-64 Division No. 10 Notes Red. Plotted Profile
Survey of Portuguese Bend [illegible] Date Date No.
Survey by [illegible] Notes [illegible] Notes Chkd. Checked X-Sec.
Indexed C. Johnson Date Date Date No.

76L298 307 8-53

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
		304.503				
T.P.	0220	293 573	11 150	293353		
T.P.	11625	295.585	9 613	283960		
Sp. Nicks H-7A Ecc #1			7427	288158		
Sp. Nicks H-7A			7215	288370		
	END SIDE LINE					
P.I. #1	0503	336 022		335 519	*	See pg. 116
T.P.	0300	324 708	11 614	324408		
T.P.	0192	313 813	11 087	313621		
T.P.	0407	302772	11 448	302365		
B. C.	0692	291729	11 735	291037		
T.P.	2634	282721	11 642	280087		
P.B. #10	1653	281221	3153	279568		
T.P.	0373	269842	11 752	269469		
T.P.	0353	259641	10 554	259288		
T.P.	0603	249274	10970	248671		
T.P.	0583	238201	11 656	237618		
T.P.	0592	227941	10 852	227349		
T.P.	0921	218 142	10 720	217221		
W.F. #1			7675	210467		
T.P.	0907	207799	11 250	206892		

Profile Notes Red. ____ Plotted ____ Job No. ____ Division No. ____ F. B. ____ Pg. ____
No. ____ Date ____ Date ____ Survey of ____
X-Sec. Notes Chkd. ____ Checked F. McMILLAN Survey by ____ Notes C. John Date ____
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

76L298 307 8-53

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
		207 799				
T.P.	0931	197 168	11562	196237		
T.P.	0373	185 [illegible]	[illegible]	185559		
T.P.	0376	176 215	10 093	175839		
					B.M. "F"	Destroyed by Const. work.
TBM #31			9 173	167042		
					T.B.M. #31 EL =	167.050

F. B. 2318 Pg. 118 Job No. 0021.64 Division No. 10 Notes Red. Plotted Profile
Survey of Portuguese Bend Landslide Date Date No. X-Sec.
Survey by Lind Notes Lind Notes Chkd. Checked
Indexed C. Johnson Date Date Date No.

76L298 307 8-53

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Do not extend notes this side of this line. P.B. Landslide

STATION	B. S.	H. I.	F. S.	ELEV.	Line # 3	6-5-58
B.M. 34-15	3253	232470		229217	B.M. 34-15	EL = 229.217
T.P.	0254	221265	11459	221011		
T.P.	0296	211741	9820	211445		
T.P.	0635	202269	10107	201634		
T.P.	0525	191678	10916	191353		
T.P.	0567	181377	11068	180810		
T.P.	0761	170957	11181	170196		
T.P.	0886	160680	11163	159794		
T.P.	0251	149721	11210	149470		
T.P.	0835	139753	10803	138918		
T.P.	0538	129224	11367	128385		
T.P.			11456	117768	*	
	Beg. Side Line to				K-5	
T.P.	8840	137030	10040	128184		
			10007	136023		
	End Side Line					
T.P.	0668	118436		117768	*	
T.P.	2702	110120	11018	107418		
STA K-5 Aux	0616	102403	8333	101787		
T.P.	0231	91159	11475	90928		
STA K-4			6970	84189		

Profile Notes Red. Plotted Job No. Division No.
No. Date Date Survey of
X-Sec. Notes Chkd. Checked E. McMILLAN Survey by Notes Date
No. Date Date Map No. Index C. Johnson Date 6-9-58
F. B. Pg.

76L298 307 8-53

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F. B. 2318 Pg. 120 Job No. 0021.64 Division No. 10 Notes Red. Plotted
Survey of Portuguese Bend Landslide Date No.
Survey by K. C. Johnson Notes Chkd. Checked X-Sec.
Indexed Date Notes Date Date No.
Profile

STATION	B. S.	H. I.	F. S.	ELEV.		
		91 159				
STA - K - A	0301	81 029	10 431	80728		
STA. K-AB			6926	74065		
T.P.	0727	70164	11592	69437		
STA K-B			5156	65009		
TBM # 28	2225	62504	9559	60279		
STA K-C			5087	57417		
STA K-3A			4790	57714		
T.P.	0540	51740	11254	51250		
STA K-D			5615	46125		
T.P.	1953	42946	10777	40993		
STA K-E			6095	36851		
T.B.M # 27 Alt			8396	34550		
T.P.	0808	34342	9712	33234		
STA K-2			3636	30416		
T.P.	0227	22679	11590	22452		
T.P.	4497	22953	4223	18456		
TB.M. # 26B			6790	16163		
TBM # 26 C			5125	17828		
TBM # 26	5428	21946	6435	16518		
TBM # 26-D			5065	16881		

76L298 307 8-53

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
		21 946				
TBM #26E			3 000	18 946		
TB.M #26A			3 403	18 543		
T.P.	6 085	21 659	6 372	15 574		
T.P.	3 062	13 724	10 997	10 662		
P.B #1			6 103	7 621		
T.P.	7 484	14 763	6 445	7 279		
T.P.	3 035	16 887	0 911	13 852		
P.B. #2A			3 858	13 029		
T.P.	1 933	9 995	8 825	8 062		
P.B. #3			5 105	4 890		
T.P.	5 682	8 551	7 126	2 869		
P.B. #5A			7 775	0 776		
T.P.	5 883	9 921	4 513	4 038		
T.P.	5 593	9 882	5 632	4 289		
P.B. #6A			9 516	0 366		
T.P.	3 617	9 761	3 738	6 144		
T.P.	9 547	14 029	5 279	4 482		
P.B. #7			2 256	11 773		
T.P.	6 127	18 311	1 845	12 184		
T.P.	5 418	16 552	7 177	11 134		

Profile No. ____ Notes Red. ____ Plotted ____ Job No. ____ Division No. 10 F. B. 2318 PG. 121
Date ____ Date ____ Survey of Portuguese Bend Landslide
X-Sec. No. ____ Notes Chkd. ____ Checked J. F. McMILLAN Survey by Lino Notes Lino Date 6-5-58
Date ____ Date ____ Map No. ____ Index J. C. Johnson 6-9-58

F. B. 2318 PG. 122 Job No. 0021.64 Division No. 10 Notes Red. Plotted Profile

Survey of P.B. LANDSLIDE Date Date No.

Survey by LINO Notes LINO Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

76L298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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STATION	B. S.	H. I.	F. S.	ELEV.
TP P.B. # 8	4173	16552 / 17528	3137 / 9625 END	13345 / 7943 OF LINE [illegible]

76L298 307 8-53

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STATION	B. S.	H. I.	F. S.	ELEV.	LINE # 4	6-16-58
B.M. 34-15	4583	233800		229.217	B.M. 34-15 EL= 229.217	
T.P.	3988	232317	5471	228329		
T.P.	3272	230105	5484	226833		
T.P.	3018	227378	5745	224360		
T.P.	1892	222734	6532	220842		
T.P.	2333	217330	7737	214997		
T.P.	3228	213653	6875	210455		
B.M. 50-13	2454	210462	5675	208008	B.M. 50-13	EL= 207.891
T.P.	3915	207385	[illegible]	203470		
T.B.M. # 15	8825	207130	8250	[illegible]		
STA - U-5			6223	201707		
T.P.	10465	213800	4595	203335		
STA R-1	10437	214862	9375	204425		
T.P.	10094	224717	0231	[illegible]		
STA U-4			3891	220826		
STA U-3	8333	227737	5313	219404		
T.P.	0746	216583	11900	215837		
STA U-1	3188	212132	7639	208944		
T.P.			8973	203159 *		
[illegible]	BEC.	SIDE	LINE	TO U-1A		
T.P.	11693	223486	10339	211793		

Profile Notes Red. ____ Plotted ____ Job No. 002124 Division No. 10 F. B. 2316 Pg. 123
No. ____ Date ____ Date ____ Survey of Portuguese Bend Landslide
X-Sec. Notes Chkd. ____ Checked ____ Survey by ____ Notes ____ Date ____
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date 6-17-58

K. C. Johnson

76L298 307 8-53

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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.		
		223 486				
T.P.	11 308	234 361	0483	223 053		
T.P.	9696	243 590	0467	233 894		
STA 1-1A			7502	236 088		
	END	SIDE	LINE			
T.P.	1933	205 092		203 157	PG. 123 & 3RD	LINE FROM BOT PG.
B.M. "D"			6645	198 447		
T.P.	6792	201 333	10 551	194 541		
T.P.	3165	200 180	4318	197 015 *		
	BEG.	SIDE	LINE	TO	T.B.M. # 25	
T.P.	0328	188 888	11 620	188 560		
T.P.	0834	178 128	11 594	177 294		
T.P.	1167	167 678	11 617	166 511		
T.P.	0348	156 693	11 333	156 345		
T.P.	1303	146 990	11 000	145 687		
T.P.	0280	136 274	10 996	135 994		
T.P.	2636	130 160	8800	127 474		
T.B.M. # 25			5720	124 440		
	END	SIDE	LINE			
T.P.	4274	201 289		197 015 *		
T.P.	3573	195 749	9 113	192 176		

F. B. 2318 Pg. 124 Job No. 0021.64 Division No. 10 Notes Red. Plotted Profile
Survey of PORTUGUESE BEND LAND SLIDE Date Date No.
Survey by LIND Notes LIND Notes Chkd. Checked C. R. GOSS X-Sec.
Indexed L. C. Johnson Date Date Date No.

76L298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.		
		195 749				
T.P.	5745	199 929	1565	194184		
B.M. 34-17 A	10 420	204 154	6195	193734	* B.M. 34-17 A	
	BEG. SIDE LINE TO "K-1"					
T.P.	8 994	211292	1856	202298		
T.P.	8 683	214 280	5695	205597		
T.P.			0732	213548		
	END SIDE LINE					
B.M. 34-17 A	4748	198482		193734	*	
T.P.	5 419	199 608	4293	194 189		
T.P.	4 114	199 490	4232	195 376		
T.P.	0961	193 826	6625	192865		
T.P.	1 081	184 519	10383	183 438		
T.P.	0959	177 138	8340	176 177		
B.M. 34-18	1 576	170 261	8433	168 705	B.M. 34-18 EL= 168.682	
T.P.	2351	162 629	10 003	160 278		
T.P.	5825	163 501	4953	157 676		
STA - P-3			5424	158 077		
T.P.	5 625	165 510	3616	159 885		
T.P.	5156	167 268	3398	162 112		

Profile Notes Red. ____ Plotted ____ Job No. ____ Division No. 10 F. B. 2318 Pg. 125
No. ____ Date ____ Date ____ Survey of [illegible]
X-Sec. Notes Chkd. ____ Checked [illegible] Survey by [illegible] Notes ____ Date ____
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johns Date ____

76L298 307 8-53

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Do not extend notes this side of this line.

F. B. 2318 Pg. 126 Job No. 00211.69 Division No. 10 Notes Red. Plotted
Survey of PORTUGUESE BEND LANDSLIDE Date Date X-Sec. No.
Survey by C. R. GOSS Notes Chkd. Checked C. R. GOSS Date
Indexed Date Date

STATION	B. S.	H. I.	F. S.	ELEV.		
		167.268				
STA - P-2	6.624	170.107	3.785	163.483		
T.B.M. # 31			3.029	167.078	T.B.M. # 31	167.050

76L298 307 8-53

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Do not extend notes this side of this line. P.B. LANDSLIDE

STATION	B. S.	H. I.	F. S.	ELEV.	LINE #5	6-23-58
STA B10	1763	472 238		470 475	STA B10, EL=	470.475
T.P.	1753	462 667	11354	462 534		
T.P.	2184	458 725	11126	451 541		
STA B1C	1830	444 151	[illegible]	442 321		
T.P.	1857	434 153	11 855	432 298		
T.P.	2694	425 470	11 377	422 776		
P.T. # 1	0863	416 760	9573	415 897		
T.P.	0391	406 494	10152	406 608		
P.T. #2	0738	397 229	10 512	396 487	*	
	BK. SIDE	LINE				
S. B. # 1	2469	392 121	7 513	389 652		
S. B. # 2	0887	384 085	8 923	383 198		
T.P.	0695	373 152	11 628	372 457		
T.P.	0761	362 944	10 964	362 183		
S.B. # 3			10 132	352 817		
	EXD SIDE	LINE				
P.T. # 2	1249	397 734		396 487	*	
T.P.	1268	387 406	11 598	386 138		
P.T. # 3			1857	385 547		
T.P.	2653	378 807	11 262	376 124		
P.T. # 4	0408	369 974	9241	369 562	*	

Profile Notes Red Plotted Job No. 5021-K Division No. 10 F. B. 2318 Pg. 127
No. X-Sec. Date Date Survey of P.B. LANDSLIDE
No. Notes Chkd. Checked E. R. GOSS Survey by LINE Notes LINE Date 6-23-58
Date Date Map No. Indexed C. Job Date 6-24-58

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Do not extend notes this side of this line.

F. B. 2716 Pg. 125 Job No. 00211.64 Division No. 10 Notes Red. Plotted
Survey of Portuguese Bend Landslide Date Date No.
Survey by Line Notes Line Notes Chkd. Checked R. GOSS X-Sec.
Indexed C. Johnson Date Date Date No.
Profile

STATION	B. S.	H. I.	F. S.	ELEV.	
		BEG. SIDE LINE			
		369 974			
T.P.	0244	358 634	11563	358391	NOTE! STA. "H-2" DESTROYED
T.P.	1173	348 356	11252	347383	BY HOUSE MOVERS.
T.P.	1503	340 414	9645	338909	
STA H-2	1207	330 774	10844	329567	
T.P.	2109	321 811	11072	319702	
STA H-4			9452	312359	
		END SIDE LINE			
P.T. # 4	8894	378460		369 566	*
		BEG SIDE LINE TO WEST FIX			
	9484	384924	3018	375442	
	9037	392159	1804	383122	
	7745	398082	1832	390337	
West Fix			4282	393.800	
		END SIDE LINE			
P.T. # 4	0753	370 319		369 566	*
T.P.	0673	351 274	11723	356597	
T.P.	0966	349 078	11162	348112	
P.T. # 5	0926	341 597	8407	340671	
T.P.	0683	330 819	11461	330136	

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STATION	B. S.	H. I.	F. S.	ELEV.
		330 819		
T.P.	0754	321 231	10342	320 477
P.T. # 6			8497	312 734 *
	BEG. SIDE	LINE		
T.P.	6 189	320 886	6533	314 698
I - 1			2832	318 004
T.P.	0642	311 137	10591	310 295
T.P.	0679	300 546	11270	299 867
T.P.	5 637	294 483	11697	288 549
I - 2			7321	287 162
I - 3			10142	284 339
T.P.	10725	303 173	2028	292 453
STA. BLANKLEE			0135	302 993
		END SIDE	LINE	
P.T. # 6	0258	312 992		312 734 *
STA. L-1			3967	309 025
T.P.	0472	302 612	10852	302 140
T.P.	0 475	292 614	10471	292 141
T.P.	1473	282 825	11264	281 352
P.T. # 7	1 619	272 822	11622	271 203
	0 632	261 847	11 607	261 215

Profile Notes Red. Plotted Job No. Division No. 10 F. B.

No. Date Date Date Survey of Pg.

X-Sec. Notes Chkd. Checked C. R. GOSS Survey by Notes

No. Date Date Map No. Index C. Johnson Date

76L298 307 8-53

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
		261 847				
T.P.	0221	250 754	11 314	250533		
T.P.	0711	240 717	10 748	240006		
T.P.	0402	231 231	9888	230829		
T.P.	0077	220 925	11383	219848		
T.P.	0170	210 121	10974	209951		
B.M. "C"			5927	204 194		
T.P.	0219	199 651	10 689	199432		
T.P.	5577	199734	5494	194157		
T.P.	4135	199474	4395	195339		
T.P.	1473	194331	6616	192858		
T.P.	0992	184760	10 563	183 768		
T.P.	1043	177 208	8395	176165		
B.M. 34-18			8 518	168,640	B.M. 34-18 - FL =	168,682

F. B. 2318 Pg. 130 Job No. 00 21.64 Division No. 10 Notes Red. Plotted Profile
Survey of PORTUGUESE BEND LANASLIDE Date Date No.
Survey by LINO Notes LINO Notes Chkd. Checked C. R. GOSS X-Sec.
Indexed A. C. Johnson Date Date Date No.

76L298 307 8-53

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STATION	B. S.	H. I.	F. S.	ELEV.	LINE #1	6-30-58
STA BID	3294	473 769		470 475	STA BID EL =	470.475
T.P.	0618	462 810	11 577	462192		
T.P.	0677	451 696	11791	451019		
T.P.	0559	440 501	11754	439942		
T.P.	0370	429 831	11 040	429461		
T.P.	0713	419 093	11 461	418375		
T.P.	4123	411 873	11333	407750		
T.P.	3478	[illegible]	[illegible]	[illegible]		
T.P.	4175	408 064	[illegible]	403 85[illegible]		
P.B. #9	3855	407 992	3911	404 137		
T.P.	6435	410954	3473	404519		
T.P.	6027	412933	4048	406906		
P.I. #5			4453	408480		
T.P.	5636	415 121	3410	409523		
T.P.	0659	412 196	3592	411537		
T.B.M. #30	1243	406 554	6885	405311		
T.P.	5797	405 428	6923	399631		
T.P.	5692	407864	3256	402 172		
P.I. # 4	6638	410716	3786	404 078		
T.P.	10833	420 446	0303	410 413		
T.P.	5975	424 778	1643	418 803		

Profile Notes Red. ____ Plotted ____ Job No. ____ Division No. 10 F. B. 2318 PG. 131
No. ____ Date ____ Date ____ Survey of ____
X-Sec. Notes Chkd. JFM Checked ____ Survey by ____ Notes ____ Date ____
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson Date 7-2-58

76L298 307 8-53

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
		424 778				
T.P.	5746	425 970	4554	420224		
T.P.	3515	425 285	4200	421770		
R.M. # 1			3626	421659		
S.P. Hills 67			4543	420737		
R.M. # 2			3522	421763		
T.P.	0715	414958	11 042	414243		
T.P.	0340	404373	10 [illegible]	404033		
T.P.	0422	394398	10397	393976		
T.P.	1273	384673	10998	383400		
T.P.	2992	380039	7626	377047		
P.I. # 3	0488	373354	7123	372916		
T.P.	0848	362735	11 [illegible]	361887		
T.P.	0722	352332	11125	351610		
P.I. # 2	2923	343557	11 698	340634		
P.I. # 1	1513	337047	8023	335534	*	
	BEG. SIDE		LINE			
T.P.	0664	325788	11 923	325124		
T.P.	0867	314940	11 715	314073		
T.P.	0601	303959	11 582	303358		
T.P.	0217	293051	11 125	292834		

F. B. 7318 Pg. 132 Job No. 00 [illegible] Division No. 10 Notes Red. Plotted ✓ Profile
Survey of Portuguese Bend Landslide Date Date No.
Survey by Lino Notes Lino Notes Chkd. Checked X-Sec.
Indexed K. C. Johnson Date Date No.

76L298 307 8-53

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STATION	B. S.	H. I.	F. S.	ELEV.		
		293.051				
	10327	294298	9060	283971		
H-7A. ELEV			6124	288174		
H-7A			5916	288383		
	ENV	5105	LINE			
P.I. # 1	0401	336135		335534	*	
T.P.	0547	324964	11715	324417		
T.P.	0315	313959	11320	313644		
T.P.	0604	302979	11534	302375		
B.C.	0419	291475	11923	291056		
T.P.	3084	283188	11371	290104		
P.B. # 10	1418	281000	3604	279582		
T.P.	0877	270309	11568	269432		
T.P.	0265	259564	11008	259301		
T.P.	0822	247491	10877	248669		
T.P.	0741	235363	11826	237625		
T.P.	1036	228364	11093	227273		
T.P.	0960	218264	11140	217224		
W. F. # 1			7715	210489		
T.P.	0167	207532	10539	207365		
T.P.	0402	197157	10777	196755		

Profile Notes Rod Plotted Job No. Division No.
No. Date Date Survey of F. B.
X-Sec. Notes Chkd. JFW Checked Survey by Notes Date Pg.
No. Date Date Map No. Index C. Johnson Date

F. B. 2318 Pg. 134 Job No. 0021.64 Division No. 10 Notes Red. _____ Plotted _____ Profile

Survey of P. B. LANDSLIDE Date _____ Date _____ No. _____

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

Indexed A. C. Johnson Date _____ Date _____ Date _____ No. _____

76L298 307 8-53

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STATION	B. S.	H. I.	F. S.	ELEV.		
		197.151				
TP	0212	186.458	10.931	186.224		
TP	1161	176.421	8.176	175.260		
T.B.M. #31			9353	167.068	T.B.M. #31	EL = 167.050

76L298 S & E #307 9-54

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LEVEL LINE #3

STATION	B. S.	H. I.	F. S.	ELEV.
BM 34-15	2040	231257		229217
T.P.	0392	221392	10257	221000
T.P	0388	211812	9968	211424
T.P.	0710	202323	10199	201613
T.P	0518	191840	11001	191322
T.P.	0652	181436	11056	180784
T.P	0680	170839	11277	170159
T.P	0984	160754	11069	159770
T.P.	0322	149769	11307	149447
T.P.	0748	139646	10871	138898
T.P.	11839	140200	11281	128365 *
		BEGIN SIDE LINE		
STA. K5			4175	136025
		END SIDELINE		
	0670	129035		128365 *
T.P.	0502	118253	11284	117751
T.P.	2600	109995	10858	107395
STA. K5AUX	0330	102102	8223	101772
T.P.	0487	91216	11373	90729
STA K4			7263	83953
STA. KA			10734	80482
T.P.			11588	79628

NOTE! SPECIAL RUN STARTING FROM 34-15. THROUGH LINE #3, AND BACK TO 34-15.

BM 34-15 ELEV 229.217

Profile Notes Red Plotted Job No. Division No. 10
No. Date Date Survey of PORTUGUESE BEND LANDSLIDE F. B. 2313 Pg. 135
X-Sec. Notes Chkd. Checked T. R. GOSS Survey by LIND Notes T.C.P. Date 7-9-58
No. Date Date Map No. Ind. [illegible] Johnson 7-11-58

76L298 S & E #307 9-54

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F. B. 2318 Pg. 136 Job No. 002164 Division No. 10 Notes Red. Plotted Profile
Survey of PORTUGUESE BEND LANDSLIDE Date No. X-Sec.
Survey by C. JOHNSON Notes T.C.P. Notes Chkd. Checked C. R. GOSS
Indexed C. Johnson Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.		
	1070	80698		79628		
STA. K AB			6880	73818		
T.P.	0490	69659	11529	69169		
STA. K B			4975	64684		
T.P.	2442	63556	8545	61114		
T.B.M. #28			3385	60171		
STA K C			6228	57328		
STA K3A			6050	57506		
T.P.	0528	56283	7801	55755		
T.P.	0638	46936	9985	46298		
STA. K D			1210	45726		
STA. K E			10569	36367		
T.P.	2377	38645	10668	36268		
T.B.M. 27			4089	34556	TBM-27 Aux	
STA. K2			8603	30042		
T.P.	1413	30098	9960	28685		
T.P.	4220	22962	11356	18742		
T.P.	4722	23157	4527	18435		
T.B.M. 26 B			7090	16067		
TBM 26 C			5360	17797		
T.B.M 26	4117	20574	6700	16457		
TBM 26 D			3750	16824		

76L298 S & E #307 9-54

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STATION	B. S.	H. I.	F. S.	ELEV.		
E		20574				
TBM 26 D			1490	19084		
TBM 26 A			1899	18675		
T.P.	3503	20431	3646	16928		
T.P.	1293	11040	10678	9753*		
P.B. #1		BEGIN	SIDELINE			
			3438	7608		
		END	SIDELINE			
	7398	17151		9753*		
T.P.	4539	18758	2932	14219		
P.B. #2A			5516	13242		
T. P.	3002	10602	11158	7600		
P.B. #3					UNABLE TO LOCATE THIS B.M.	
T.P.	3991	6881	7712	2890		
P.B. #5A	4970	5749	6102	0779		
T.P.	4271	5878	4142	1607		
T.P.	4554	8250	2182	3696		
P.B. #6A			7848	0402		
T.P.	6793	8153	6890	1360		
T.P.	3319	7624	3848	4305		
T.P.	4361	7092	4893	2731		
T.P.	5158	8589	3661	3431		
T.P.	7509	11597	4501	4088		
P.B. #8			3603	7994	P.B #8	

Profile Notes Red. Plotted Job No. 002160 Division No. 10 F. B. 2318 Pg. 137
No. Date Date Survey of PORTUGUESE BEND LANDSLIDE
X-Sec. Notes Chkd. Checked C. R. GOSS Survey by LIND Notes TCP Date 7-9-58
No. Date Date Map No. Index [illegible] Johnson

76L298 S & E #307 9-54

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
P.B. #8	9318	17312		7994		
T.P.	4321	17112	4521	12791		
T.P.	5770	16885	5997	11115		
T.P.	2251	17045	2091	14794		
P.B. #7			5240	11805		
T.P.	6902	19069	4878	12167		
T.P.	11382	30196	0255	18814		
T.P.	1200	30508	0888	29308		
T.P.	10631	40445	0694	29814		
T.P.	11943	51103	1285	39160		
T.P.	10728	60731	1100	50003		
T.P.	6142	66071	0802	59929		
T.P.	9264	70387	4948	61123		
T.P.	9013	78190	1210	69177		
T.P.	10231	87431	0990	77200		
T.P.	11724	98814	0341	87090		
T.P.	11330	109796	0348	98466		
T.P.	10902	118315	2383	107413		
T.P.	11039	128805	0549	117766		
T.P.	11329	139712	0422	128383		
T.P.			0792	138920		

F. B. 2318 Pg. 138 Job No. 0021.64 Division No. 10 Notes Red. Plotted Profile
Survey of PORTUGUESE BEND LANDSLIDE Date Date No. X-Sec.
Survey by LIND Notes T.C.P. Notes Chkd. Checked C. R. GOSS
Indexed K. C. Johnson Date Date Date No.

76298 S & E #307—7-55

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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. PORTUGUESE BEND

STATION	B. S.	H. I.	F. S.	ELEV.		
	10791	149 711		138 920		
T.P.	11259	160722	0248	149 463		
T.P.	11071	170 856	0937	159785		
T.P.	11150	181 325	0681	170 175		
T.P.	10900	191 695	0530	180795		
T.P.	10860	202 194	0361	191334		
T.P.	10042	211 666	0570	201624		
T.P.	9806	221233	0239	211427		
T.P.	10665	231 665	0233	221000		
BM 34-15			2449	229216	BM 34-15 ELEV 229.217	

LENGTH OF RUN 2.6 MI

Profile Notes Red. ____ Plotted ____ Job No. 002164 Division No. 10 F. B. 2318 Pg. 139
No. ____ Date ____ Date ____ Survey of PORTUGUESE BEND LANDSLIDE
X-Sec. Notes Chkd. ____ Checked C. R. GOSS Survey by LIND Notes TCP. Date 7-9-56
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____
K. C. Johnson

76L298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line. P. BEND LAND SLIDE

STATION	B. S.	H. I.	F. S.	ELEV.	LINE # 5	7-22-58
B-1D	1734	472 209		470475	B-1D EL = 470.475	
T.P.	1818	462 674	11353	460856 V		
T.P.	1565	453 101	11138	451536 V		
B-1C	1188	443 514	10775	442326 V		
T.P.	2084	433 721	11877	431637 V		
T.P.	2877	425 645	10953	422768 V		
T.P.	0842	416 533	9954	415691 V		
P.T. # 1			0892	415641 V		
T.P.	1608	406837	11304	405229 V		
P.T. # 2	0902	397 254	10483	396354 V *		
	BEG. SIDE LINE					
S.B. # 1	2041	391 659	7638	389618 V		
S.B. # 2	0859	384059	8457	383200 V		
T.P.	1167	373625	11601	372458 V		
T.P.	0976	363155	11446	362179 V		
S.B. # 3			10343	352812 V ?		
	END SIDE LINE					
P.T. # 2	1417	397 771		396354 V *		
T.P.	1607	387 411	11967	385804 V		
P.T. # 3			1956	385455 V		
T.P.	2790	378 813	11388	376023 V		

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 00 [illegible] Division No. 10 F. B. 2318 Pg. 141
X-Sec. No. ____ Date ____ Date ____ Survey of PORTUGUESE BEND LANDSLIDE
Notes Chkd. ____ Checked C. R. GOSS Survey by ____ Notes ____ Date 7-22-58
Date ____ Date ____ Map No. ____ Indexed C. Johnson Date 7-25-58

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STATION	B. S.	H. I.	F. S.	ELEV.		
		378 813				
P.T. # 4	1167	370 626	9354	369459	*	
	BEG. SIDE LINE					
T.P.	0896	359 615	11907	358719		
T.P.	0701	348944	11372	348243		
T.P.	0875	339637	10182	338762		
H-2	1194	330 595	10236	329401		
T.P.	1955	321 530	11 020	319575		
H-4			9317	312 213		
	END SIDE LINE					
P. T. # 4	11315	380 774		369 459	*	
	BEG SIDE LINE					
T.P.	9435	388 687	1522	379252		
T.P.	10293	398094	0886	387801		
WEST FIX			4302	393792		
	END SIDE LINE					
P.T. # 4	0853	370312		369459	*	
T.P.	0655	359 125	11842	358470		
T.P.	2837	350739	11 223	347902		
P.T. # 5	0961	341493	10207	340532		
T.P.	1071	331 061	11 503	329990		

F. B. 2318 Pg. 142 Job No. 002 1.64 Division No. 10 Notes Red. Plotted Profile
Survey of P. B. LANDSLIDE Date Date No.
Survey by C. Johnson Notes LIND Notes Chkd. Checked C. R. GOSS X-Sec.
Indexed Date Date Date No.

76L298 307 8-53

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.
		331 061		
T.P.	0327	320 656	10 732	320329
P.T. #6			8112	312544
	BEG. SIDE LINE			
T.P.	5935	320 503	6 088	314568
I-1			2 578	317925
T.P.	1244	311 412	10335	310168
T.P.	1184	300 939	11 657	299753
T.P.	6037	295 119	11 857	289082
I-2			8 168	286951
I-3			10 964	284155
T.P.	10 873	303 009	2 983	292 134
BLAKESLEE			0135	302374
	END SIDE LINE			
P.T. #6	0449	312 993		312544
L-1			4164	308829
T.P.	1387	303 289	11 091	301902
T.P.	0883	292 424	11 748	291541
T.P.	1658	282 850	11 232	281192
P.T. # 7	1362	272 367	11 845	271005
T.P.	0652	261 671	11 348	261019

Profile Notes Red. ____ Plotted ____ Job No. 0021 Division No. 10 F. B. 2318 Pg. 143
No. ____ Date ____ Date ____ Survey of Pony Creek Bend Landslide
X-Sec. Notes Chkd. ____ Checked C. R. GOSS Survey by ____ Notes ____ Date ____
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson Date ____

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
		261 671				
T.P.	0894	251 228	11 337	250334		
T.P.	1144	240 997	11 375	239853		
T.P.	0237	230 959	10275	230 722		
T.P.	1755	221 499	11215	219744		
T.P.	0550	210 414	11 635	209864		
B.M. "C"			6295	204119		
T.P.	2778	202 133	11 059	199355		
B.M. 34-17A	9910	203 531	8512	193621 *		
	BEG. SIDE LINE TO K-1					
T.P.	10153	212 236	1448	202083		
T.P.	9153	219 677	1712	210524		
K-1			6216	213461		
	END SIDE LINE					
B.M. 34-17A	5648	199 269		193621		
	BEGIN LINE #4				7-22-58	
T.P.	2094	197 673	3690	195579		
T.P.	6932	198 040	6565	191108		
T.P.	5603	202 415	1228	196812 *		
	BEG. SIDE LINE TO T.B.M. # 25					
T.P.	0570	190 975	12010	190405		

F. B. 2318 Pg. 144 Job No. 0021.64 Division No. 10 Notes Red. Plotted Profile
Survey of P. BEND LANDSLIDE Date Date No.
Survey by LINO Notes LINO Notes Chkd. Checked C. R. GOSS X-Sec.
Indexed K. C. Johnson Date Date No.

76L298 307 8-53

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
		190 975				
T.P.	0 724	180 357	11 342	179 633		
T.P.	1 114	170 193	11 278	169 079		
T.P.	0 020	158 622	11 591	158 602		
T.P.	0 764	147 893	11 493	147 129		
T.P.	1 078	136 988	11 983	135 910		
T.P.	2 333	129 773	9 548	127 440		
TBM #25			5 292	124 481		
		END SIDE LINE				
T.P.	4 408	201 220		196 812 *		
T.P.	9 570	203 890	6 900	194 320		
B.M. "D"			5 452	198 438		
T.P.	11 620	211 955	3 555	200 335		
J-1			3 445	208 510 *		
		BEGIN SIDE LINE TO J 1A				
T.P.	10 123	221 573	0 505	211 450		
T.P.	11 635	232 765	0 443	221 130		
T.P.	10 920	243 309	0 376	232 389		
J-1-A			7 548	235 761		
		END SIDE LINE				
J-1	9 630	218 140		208 510 *		

Profile Notes Red. ____ Plotted ____ Job No. 00[illegible] Division No. 10 F. B. 2318 PG. 145
No. ____ Date ____ Date ____ Survey of [illegible]
X-Sec. Notes Chkd. ____ Checked C. R. GOSS Survey by [illegible] Notes [illegible] Date 7-[illegible]-56
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson

76L298 307 8-53

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STATION	B. S.	H. I.	F. S.	ELEV.		
		218 140				
	11 690	22 7070	2760	215 380		
J-3	6513	225 513	8070	219 000		
J-4			5038	220 475		
T.P.	2458	216 661	11310	214 203		
T.P.	3335	208 926	11070	205 591	UNABLE TO FIND R-2	
J-5	8172	209 648	7450	201 476		
T.P.	5325	204 988	9985	199 663		
T.B.M. #15	9370	208 276	6082	198 906		
T.P.	6419	211 427	3268	205 008		
B.M. 50-13	5705	213 662	3470	207 957		
T.P.	6530	215 206	4986	208 676		
T.P.	6046	217 452	3800	211 406		
T.P.	6928	221 884	2496	214 956		
T.P.	6328	225 948	2264	219 620		
T.P.	5364	228 202	3110	222 838		
T.P.	5688	230 408	3482	224 720		
T.P.	5200	232 008	3600	226 808		
T.P.	5130	233 430	3708	228 306		
B.M. 34-15			4250	229 180	B.M. 34-15	EL = 229.217

F.B. 2318 PG. 146 Job No. 002164 Division No. 10 Notes Red. Plotted Profile
Survey of P. B. LANDSLIDE Date Date No.
Survey by LINO Notes LINO Notes Chkd. Checked C. R. GOSS X-Sec.
Indexed K. C. Johnson Date Date No.

76298 S & E #307—7-55

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7-24-58

PORTUGUESE BEND — LINE #2

STATION	B. S.	H. I.	F. S.	ELEV.	
A.M. [illegible]	1 595	233 812		229.217	A.M. [illegible], El= 229.217
T.P.	4 051	232 386	5 477	228 335	
	3 424	230 253	5 557	226 829	
	3 013	227 362	5 904	224 349	
	2 162	222 991	6 533	220 829	
	2 347	217 320	8 018	214 973	
	3 372	214 800	5 892	211 428	
	4 446	213 146	6 100	208 700	
BM 50-13	3 588	211 576	5 158	207 988	
T.P.	11 979	215 419	8 136	203 440	
	11 323	225 727	1 015	214 404	
	11 012	236 261	0 698	225 029	
	11 799	247 012	0 738	235 213	
	11 900	258 712	0 [illegible]	246 812	
	11 543	269 351	0 [illegible]	257 808	
	11 140	279 186	1 305	268 046	
	10 606	288 907	0 885	278 301	
	10643	299.282	0268	288.639	
	11 936	310 785	0 433	298 849	
Sh 12 lds	1 958	318 304	0 439	310 346	
TP	8 337	322 573	4 068	314 236	

Profile Notes Rod. Plotted Job No. Division No.
No. Date Date Survey of F. B. Pg.
X-Sec. Notes Chkd. Checked C. R. GOSS Survey by Notes
No. Date Date Map No. Indexed C. Johnson Date 7-24

76298 S & E #307—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.		
		322 573				
BM G-1	4588	320 328	6833	315 740		
T.P.	9810	328 586	1552	318 771		
A-4			6360	322 226		
A-3	9803	334 947	3440	325 146		
T.P.	11730	344 049	2630	332 319		
T.P.	11780	353 931	1898	342 151		
T.P.	11538	364 385	1084	352 847		
R-1	6800	368 922	2263	362 122		
T.P.	0695	361 217	8400	360 522		
T.P.	0359	350 014	11562	349 655		
B.M. 50-12	9152	353 653	5513	344 501		
T.P.	10925	362 865	1713	351 940		
T.P.	11315	373 652	0528	362 337		
T.P.	11992	385 280	0364	373 288		
"D"-2			2340	382 940		
T.P.	11680	395 348	1612	383 668		
T.P.	11388	405 948	0788	394 560		
T.P.	10194	415 257	0885	405 063		
T.P.	11260	426 140	0377	414 880		
T.P.	9670	435 225	0585	425 553		

F. B. 2318 Pg. 148 Job No. 0821.64 Division No. 10 Notes Red. Plotted Profile
Survey of P. BEND LONG SLIDE Date No.
Survey by LINO Notes LINO Notes Chkd. Checked C. R. GOSS X-Sec.
Indexed C. Johnson Date Date No.

76298 S & E #307—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.		
		435 225				
Rd Dept. TBM.			3640	431585		
TP	11896	445 971	1150	434075		
T.P.	7938	451 759	2150	443821		
T.P.	7305	447960	11104	440655		
D-1			11025	436935		
T.P.	2513	439 985	11483	436472		
C-1	0622	431 227	8380	430605		
T.P.	0235	422710	8752	422475		
T.P.	3294	419589	6315	415815		
B-1			4330	415259		
T.P.	7035	422 204	4420	415169	B-1-A, Loss	
B-1-B			5458	416745		
T.P.	5910	426 394	1720	420484		
T.P.	10 953	433 722	3625	422769		
T.P.	11877	443 515	2084	431638		
B-1-C	10775	453 102	1181	442327		
T.P.	11138	462 675	1565	451537		
T.P.	11353	472210	1818	460857	B-1-D	
B-1-D			1734	470476	EL = 470.475	

Profile Notes Red. Plotted Job No. Division No. F. B. Pg.
No. Date Date Survey of
X-Sec. Notes Chkd. Checked C. R. GOSS Survey by Notes Date
No. Date Date Map No. Inked C. Johnson Date 55

F. B. 7318 Pg. 150 | Job No. 0021.64 Division No. 10 Notes Red. Plotted Profile

Survey of PORTUGUESE BEND LANDSLIDE Date Date No.

Survey by LIND Notes LIND Notes Chkd. Checked C. R. GOSS X-Sec.

Indexed Date Date Date No.

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

76298 S & E #807—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.	LINE # 1	9-5-58
B-1-S	2897	473372		470475	B.M. B-1-S, EL= 470.475	
T.P.	0453	462638	11187	462185		
T.P.	0577	451563	11652	450986		
T.P.	0764	440699	11628	439935		
T.P.	0333	429768	11264	429435		
T.P.	0533	418854	11447	418321		
T.P.	4452	412203	11103	407751		
T.P.	3789	410001	5791	406212		
T.P.	4192	408060	6133	403868		
B.M. P B-9	4198	408338	3920	404140		
T.P.	5634	410159	3813	404525		
T.P.	5912	412838	3233	406926		
P.I. #5			4338	408500		
T.P.	5858	415401	3975	409543		
T.P.	0846	412404	3843	411558		
T.B.M. #30	1384	406701	7087	405317		
T.P.	5935	405419	7217	399484		
T.P.	5668	407854	3233	402186		
P.I #4	7034	411118	3770	404084		
T.P.	9177	420117	0178	410940		
T.P.			1322	418795		

Profile Notes Red. ____ Plotted ____ Job No. ____ Division No. ____ F. B. 2518 Pg. 371
No. ____ Date ____ Date ____ Survey of ____
X-Sec. Notes Chkd. ____ Checked C. R. GOSS Survey by ____ Notes ____ Date ____
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson 9-10-58

76298 S & E #307—7-55

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STATION		B. S.	H. I.	F. S.	ELEV.		
	T.P.	5984	424779		418795		
	T.P.	5834	426018	4595	420184		
	T.P.	4032	425717	4333	421685		
G-7	R.M. #1			4037	421630		
SPH	G-7			4995	420722		
G-7	R.M. #2			3977	421740		
	T.P.	0404	414586	11535	414182		
	T.P.	0462	404250	10798	403788		
	T.P.	0835	393441	11644	392606		
	T.P.	1040	383404	11077	382364		
	T.P.	3550	380583	6871	377033		
PI	#3	0938	373843	7678	372905		
	T.P.	0240	362115	11968	361875		
	T.P.	0983	351806	11292	350823		
	T.P.	1962	345505	8263	343543		
PI	#2			4880	340625		
PI	#1			9979	335526 *		
		BEGIN SIDELINE					
PI	#1	1497	337023		335526		
	T.P.	0415	325736	11702	325321		
				11674	314062		

F. B. 2318 Pg. 152 Job No. 0021.64 Division No. 10 Notes Red. Plotted Profile
Survey of P. BEND LANDSLIDE Date Date C. R. GOSS No. X-Sec.
Survey by LINO Notes Notes Chkd. Checked
Indexed C. Johnson Date Date Date No.

76298 S & E #307—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.		
T.P.	0805	314867		314062		
T.P.	0336	303686	11517	303350		
T.P.	1175	293688	11173	292513		
T.P. #1	9054	294746	7996	285692		
H7-A Ecc #7			6593	288153	x (H7-A Ecc 1)	
H 7-A			6363	288383		
END OF SIDE LINE.						
PL #1	0687	336213		335526*		
T.P.	0302	324700	11615	324398		
T.P.	0297	313850	11147	313553		
T.P.	0588	302936	11502	302348		
B.C.	1193	292231	11898	291038		
T.P.	2559	283292	11498	280733		
PB #10	1198	280747	3743	279549		
T.P.	0352	269762	11337	269410		
T.P.	0408	259696	10474	259288		
T.P.	0377	249019	11054	248642		
T.P.	0732	238338	11413	237606		
T.P.	0645	227891	11092	227246		
T.P.	1284	217440	11735	216156		
W.F. #1			6973	210467		

Profile Notes Red. ____ Plotted ____ Job No. 00214 Division No. 10 F. B. ____ Pg. 153
No. ____ Date ____ Date ____ Survey of [illegible]
X-Sec. Notes Chkd. ____ Checked R. GOSS Survey by [illegible] Notes Hill Date 9-5-58
No. ____ Date ____ Date ____ Map No. ____ Index C. Johnson Date ____

76298 S & E #307—7-55

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F. B. 2318 Pg. 154 Job No. 02144 Division No. 10 Notes Red. Plotted Profile
Survey of P. Bend Landslide Date Date No. X-Sec.
Survey by C. Johnson Notes H.I. Notes Chkd. Checked C. R. GOSS
Indexed Date Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.		
		217 440				
T.P.	0 424	206 129	11 735	205 705		
T.P.	1142	195 918	11 455	194 674		
T.P.	0296	186 022	10 0[illegible]	185 [illegible]		
T.P.	1408	176 023	11 407	174 615		
TBM #31			8 973	167 050	T.B.M. # 31 , EL = 167.050	

NOTES RED. _____ JOB NO. COU.64 SURVEY OF Port. Bend Landslide F. B. 5215 PG. 155

DATE _____ SURVEY BY. Lind

NOTES CHKD. C. R. GOSS NOTES BY Lind DATE 9-10-58

DATE _____ INDEXED K. C. Johnson DATE 9-12-58

PORTUGUESE BEND LANDSLIDE

U.N. 0021.64

BENCH LEVELS

ON

CRENSHAW BLVD.

ELEV. CHECK OF LEVEL LINE # 50

FROM T.B.M. #10 TO B.M. 50-11

9-10-58
Lind
Peterson
Hill
Nathee

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.

DESCRIPTION

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

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
725 LOS ANGELES COUNTY ENGINEERING BLDG.

765420 S & E-353 4-54

765420 S & E-353 4-54

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725 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line

JOB NO 20268 SURVEY OF L. A. Bend Land Line NOTES RED DATE
SURVEY BY Lund NOTES CHKD. R. GOSS DATE 9-10-58
NOTES BY Lund DATE
INDEXED C. Johnson DATE

F.B. 2318 PG. 15L

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.
Ro.					
T.B.M. #10	1095.873				
+	3.531		3.285		
π	1099.404	- 7.702	- 7.702		
-	11.233		11.087		
T.P.	1088.171				
+	0.557		0.359		
π	1088.728	- 9.714	- 9.713		
-	10.268		10.072		
T.P.	1078.460				
+	0571		0.457		
π	1079.031	- 8.644	- 8.642		
-	9.212		9.097		
T.P.	1069.819				
+	0.212		0.417		
π	1070.031	- 9.190	- 9.190		
-	9.402		9.607		
T.P.	1060.629				
+	0.715		0.449		
π	1061.344	- 8.741	- 8.742		
-	9.456		9.189		
T.P.	1051.888				
+	0.388		0.388		
π	1052.276	- 9.409	- 9.409		
-	9.797		9.797		
T.P.	1042.479				
+	0.865		0.626		
π	1043.344	- 7.367	7.368		
-	8.232		7994		
TP	1035.112				

T.B.M. #10, EL = 1095.873, Rec. F.B. 2400-15
Elderberry Saw. N. side, 0.73 Mi.
S. of Crest Rd, P.K. Spk & W. of
E. End of Rock Head Wall

Note! Relative Elevations of B.M.s on this Run Check out O.K. and should be used for Working Adj. T.B.M.s in Culverts appear to have Settled.

76S420 S & E-353 4-54

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Do not extend notes this side of this line

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	1035.112					
+	0.657		0.485			
π	1035.769	-8.959	-8.958			
−	9.616		9.443			
T.P.	1026.153					
+	0.642		0.515			
π	1026.795	-8.505	-8.506			
−	9.147		9.021			
T.P.	1017.648					
+	1.643		1.316			
π	1019.291	-7.883	-7.88[illegible]			
−	9.526		9.199			
T.P.	1009.765					
	0.744		0.993			
	1010.509	-10.353	-10.349			
F.B.	11.097		11.342			
B.M. 50-9	999.412				999.403	B.M. 50-9, EL= 999.3471
+	7.804		7.661			FOR DESC., SEE F.B. 2400-15
π	1007.216	-2.342	-2.343			
−	10.146		10.004			
T.P.	997.070					
+	0.221		0.382			
π	997.291	-9.930	-9.926			
−	10.151		10.308			
T.P.	987.140					
+	0.699		0.521			
π	987.839	-10.42[illegible]	-10.422			
−	11.123		10.943			
T.P.	976.716					

NOTES RED. _____ JOB NO. 00[illegible] SURVEY OF [illegible]
DATE _____ SURVEY BY [illegible]
NOTES CHK'D R. GOSS NOTES BY [illegible] DATE [illegible]
DATE _____ INDEXED A. C. Johnson DATE _____

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

768420 S & E-353 4-54

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Do not extend notes this side of this line

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	976.716					
+	0.502		0.267			
π	977.218	-10.572	-10.570			
-	11.074		10.837			
T.P.	966.144					
+	0.591		0.741			
π	966735	-9.303	-9.302			
-	9.894		10.043			
17 T.P.	956.841					
+	0.666		0.400			
π	957507	-9.598	-9.595			
Fd. -	10.264		9.995			
TBM # 11	947.243			-0.014	947.229	T.B.M. # 11 EL. = 947.250
+	1.535		1.443			CRENSHAW BLVD, N.W.Ly SIDE, 1.05
π	948.828	-9.745	-9.744			MI S. OF CREST RD, P.K. SPK IN
-	11.330		11.187			N. W'Ly. ROCK RETAINING WALL OF
16 T.P.	937.498					CULVERT CATCH BASIN. 15.4' N.E. OF
+	2.912		2.676			S. W. END PER. FB 2400-15
π	940.410	-2.064	-2.065			
FD -	4.976		4.741			
STA-Z-1	935.434			-0.015	935.419	STA Z-1 EL =
+	1.153		0.835			C.S. MON. PER F.B. 950-157
π	936.587	-9.015	-9.018			
-	10.165		9.853			
T.P.	926.419					
+	1.000		0.747			
π	927.419	-10.083	-10.080			
-	11.083		10.827			
T.P.	916.336					

JOB NO. 0021164 SURVEY OF P.B. LANDSLIDE NOTES RED
SURVEY BY LIND DATE
NOTES BY L. JOHNSON DATE 7-10-58 NOTES CHKD. C. R. GOSS
INDEXED DATE DATE

F.B. 2318 Pg. 158

76S420 S & E-353 4-54

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Do not extend notes this side of this line

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	916.336					
+	0.938		1.212			
π	917.274	-10.009	-10.005			
-	10.947		11.217			
T.P.	906.327					
+	0.592		0.653			
π	906.919	-10.745	-10.742			
-	11.337		11.395			
T.P.	895.582					
+	1.468		1.173			
π	897.050	-9.740	-9.742			
-	11.208		10.915			
T.P.	885.842					
+	0.886		0.679			
π	886.728	-9.248	-9.245			
-	10.134		9.927			
T.P.	876.594					
+	0.758		0.592			
π	877.352	-8.860	-8.859			
-	9.618		9.451			
T.P.	867.734					
+	0.892		0.737			
π	868.626	-9.587	-9.590			
-	10.479		10.327			
FD. B.M. 50-10	858.147			-0.022	858.125	B.M. 50-10 EL = 858.0911
+	4.797		4.964			FOR DESC. SEE F.B. 2400-16
π	862.944	-4.910	-4.908			
-	9.707		9.872			
T.P.	853.237					

NOTES RED. _____ JOB NO. 8021.64 SURVEY OF P.R. LANDSLIDE
DATE _____ SURVEY BY [illegible]
NOTES CHKD. C. R. GOSS NOTES BY [illegible] DATE [illegible]
DATE _____ INDEXED A. C. Johnson DATE _____

F. B. 2318 PG. 1.1

76S420 S & E-353 4-54

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725 LOS ANGELES COUNTY ENGINEERING BLDG.

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

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	853.237					
+	1395		1.037			
π	854.632	-9.502	-9.500			
-	10897		10.587			
T.P.	843.735					
+	1122		0.730			
π	844.857	-10.881	-10.883			
-	12003		11.613			
T.P.	832.854					
+	0.403		0.492			
π	833257	-11.056	-11.053			
-	11459		11.545			
T.P.	821798					
+	0617		0.406			
π	822415	-10.695	-10.695			
-	11312		11.101			
T.P.	811103					
+	0893		1.035			
π	811996	-10.220	-10.222			
-	11113		11.257			
T.P.	800883					
+	0275		0.478			
π	801158	-5.649	-5.650			
-	5924		6.128			
FD Sta. Y-4	795234			-0.028	795.206	STA Y-4 EL=
+	0.552		0.658			C.S. MON PER F.B. 950-146
π	795786	-10.322	-10.326			
-	10.874		10984			
T.P.	784912					

JOB NO. 0021.64 SURVEY OF R. BEND LANDSLIDE NOTES RED.
SURVEY BY Lino DATE
NOTES BY Lino DATE 9-10-58 NOTES CHKD. C. R. GOSS
INDEXED C. Johnson DATE DATE

F. B. 2318 PG. 160

33

76S420 S & E-353 4-54

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725 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	784.912					
+	2.573		2.453			
π	787.485	- 7.742	- 7.743			
-	10.315		10.196			
T.B.M. #12	777.170			[illegible]	777.141	T.B.M. #12 EL = 777.166', F.B. 2400-17
+	8.762		8.413	8.963		Crenshaw Blvd, Ely Side 1.45 M.
π	785.932	- 1.485	- 1.496	1.490		S. of Crest Rd. Pk. Spk in center
-	10.247		9.903	10.453		of Culvert Headwall.
T.P.	775.685					
+	0.331		0.501			
π	776.016	- 10.939	- 10.941			
-	11.270		11.442			
T.P.	764.746					
+	0.473		0.258			
π	765.219	- 10.681	- 10.681			
-	11.154		10.939			
T.P.	754.065					
+	0.347		0.440			
π	754.412	- 11.204	- 11.211			
-	11.556		11.651			
T.P.	742.856					
+	0.436		0.552			
π	743.292	- 11.178	11.176			
-	11.614		11.728			
T.P.	731.678					
+	0.459		0.334			
π	732.137	- 10.282	- 10.281			
-	10.741		10.615			
T.P.	721.396					

NOTES RED. _____ JOB NO. 002164 SURVEY OF [illegible]
DATE _____ SURVEY BY [illegible]
NOTES CHKD. C. R. GOSS NOTES BY [illegible] DATE [illegible]
DATE _____ INDEXED C. Johnson DATE _____

F. B. [illegible] PG. 161

768420 S & E-353 4-54

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725 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	721.396					
+	0.247		0.395			
π	721643	-10.294	-10.293			
-	10541		10688			
T.P.	711102					
+	0286		0426			
π	711388	-10.573	-10.576			
-	10859		11.002			
T.P.	700529					
+	0625		0.424			
π	701154	-10338	-10.341			
-	10963		10765			
T.P.	690191					
+	0199		0.353			
π	690390	-10.669	-10.668			
-	10868		11.021			
T.P.	679522					
+	1287		1.051			
π	680809	-3.555	-3.556			
-	4842		4607			
FD. TBM #13	675.967			0.038	675.929	TBM #13, EL = 675.876'; FB. 2400-17
+	0954		0.753			FOR DESC SEE FB. 2400-17
π	676.921	-8.562	-8.562			
-	9516		9315			
T.P.	667.405					
+	0394		0262			
π	667799	-10.358	-10.363			
-	10752		10625			
T.P.	657047					

JOB NO. 0021164 SURVEY OF P.B. LANDSLIDE NOTES RED
SURVEY BY Lino DATE
NOTES BY Lino DATE 9-10-58 NOTES CHK'D R. GOSS
INDEXED A. C. Johnson DATE DATE

F. B. 2318 PG. 162

769420 S & E-353 4-54

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725 LOS ANGELES COUNTY ENGINEERING BLDG.

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	657.047					
+	0.362		0453			
=	657.409	-9.933	-9931			
-	10.295		10384			
T.P.	647.114					
+	6.589		6413			
=	653.703	+0.457	+0.435			
B.M. -	6.152		5975			
BM 50-11	647.551				647.509	B.M. 50-11 EL = 647.509

NOTES RED _____ JOB NO. _____ SURVEY OF _____
DATE _____ SURVEY BY _____
NOTES CHKD. R. GOSS NOTES BY K. C. Johnson DATE _____
DATE _____ INDEXED _____ DATE _____

F.B. 2318 PG. 43

76L-298 S & E #307—1-56

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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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.	P. B. LAND SLIDE LINES # 5 & 4 9-11-58
B-1-D	1623	472098		470475	STA. 340 EL = 470.475
T.P.	1828	462661	11265	460833	
T.P.	0592	452089	11164	451497	
B-1C	3047	445362	9774	442315	
T.P.	0182	434458	11086	434276	
T.P.	2604	425634	11428	423030	
T.P.	0337	415614	10357	415277	
P.T. #1			0378	415236	
T.P.	1236	406218	10632	404932	
P.T. #2					UNABLE TO LOCATE
T.P.	1606	397347	10477	395741 *	
		BEGIN SWEETBAY SIDELINE			
S.B. #1	1704	391249	7802	389545	
S.B. #2	0930	384122	8057	383192	
T.P.	1227	374014	11335	372787	
T.P.	1269	363431	11852	362162	
S.B. #3			10638	352793	
	END SWEETBAY SIDELINE				
	1037	396778		395741 *	
T.P.	1483	387128	11133	385645	
P.T. #3			1833	385295	

Profile Notes Red. ____ Plotted ____ Job No. 0021.64 Division No. 10 F. B. 2318 Pg. 165
No. ____ Date ____ Date ____ Survey of ____
X-Sec. Notes Chkd. ____ Checked C. R. GOSS Survey by ____ Notes ____ Date ____
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson Date 9-16-58

76L-298 S & E #307—1-56

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F. B. 2318 Pg. 166 Job No. 002164 Division No. 16 Notes Red. Plotted Profile
Survey of PORTUGUESE BEND LANDSLIDE Date Date No. X-Sec.
Survey by LIND Notes T.C.P. Notes Chkd. Checked C. R. GOSS No.
Indexed A. C. Johnson Date Date Date

STATION	B. S.	H. I.	F. S.	ELEV.	
		387 728			
T. P.	2720	378573	11 275	375853	
P.T. #4	9292	378573	9292	369281	*
BEGIN WEST FIX SIDELINE					
T. P.	9413	382989	4977	373576	
T. P.	7937	387906	3020	379969	
T. P.	9216	394065	3057	384849	
T. P.	6737	397728	3074	390991	
WEST FIX			3945	393783	
END W. FIX SIDELINE — BEGIN TANGERINE SIDELINE					
P.T. #4	1278	370559		369281	*
T. P.	0332	359268	11623	358936	
H-1					UNABLE TO LOCATE
T. P.	0483	348514	11237	348031	
T. P.	1494	340008	10000	338514	
H-2	1059	330195	10872	329136	
T. P.	2907	322269	10833	319362	
H-4			10243	312026	
END SIDELINE					
P.T. #4	0977	370258		369281	x
T. P.	0613	358888	11983	358275	
T. P.			10484	348404	

76L-298 S & E #307—1-56

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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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P. B. LANDSLIDE LINES #5 & 4

STATION	B. S.	H. I.	F. S.	ELEV.
	1235	349639 ✓		348404 ✓
P.T. #5	0933	341267 ✓	9305	340334 ✓
T. P.	0746	330857 ✓	11156	330111 ✓
T. P.	0192	320296 ✓	10753	320104 ✓
P.T. #6	8053	320296 ✓	8053	312243 ✓ *
	BEGIN SIDELINE			
T. P.	6185	320556 ✓	5925	314371 ✓
I-1			2765	317791 ✓
T. P.	1015	310973 ✓	10598	309958 ✓
T. P.	0902	300482 ✓	11393	299580 ✓
T. P.	6297	294992 ✓	11787	288695 ✓
I-2			8353	286639 ✓
I-3			11107	283885 ✓
T. P.	10942	302776 ✓	3158	291834 ✓
BLAKSLEE			0120	302656 ✓
	END SIDELINE			
P.T.#6	0847	313090 ✓		312243 ✓ *
L-1			4557	308533 ✓
T. P.	0876	302413 ✓	11553	301537 ✓
T. P.	0474	291295 ✓	11592	290821 ✓
T. P.	1022	281985 ✓	10332	280963 ✓

Profile Notes Red____ Plotted____ Job No. 800-01 Division No. 10
No.____ X-Sec. Date____ Date____ Survey of P.B. LANDSLIDE LINES #5 & 4
No.____ Notes Chkd.____ Checked C. R. C. Survey by L.L.S. Notes F. B. 2810 PG. 67
Date____ Date____ Map No.____ Indexed C. C. Johnson Date____

76L-298 S & E #307—1-56

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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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F. B. 2318 Pg. 168 Job No. 002164 Division No. 10 Notes Red. Plotted Profile
Survey of PORTUGUESE BEND LANDSLIDE Date Date X-Sec.
Survey by LIND Notes T.C.P. Notes Ckd. Checked C. R. GOSS No.
Indexed C. C. Johnson Date Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.		
		281 985				
P.T. #7	1252	272010	11227	270758		
T.P.	0333	261069	11274	260736		
T.P.	0550	250613	11007	250063		
T.P.	1010	240657	10965	239647		
T.P.	0535	231122	10070	230587		
T.P.	1605	221216	11511	219611		
T.P.	0498	210260	11454	209762	*	
B.M.-C	11815	215850	6225	204035		
	BEGIN	SIDELINE				
T.P.	6036	218289	3597	212253		
K-1			4847	213442		
	END	SIDELINE				
T.P.	0498	210260		209762	*	
T.P.	3027	202296	10991	199269		
BM-34-17A	5827	199369	8754	193543		
T.P.	2385	197883	3871	195498		
T.P.	7057	196946	7994	189889		
T.P.	4487	200526	0907	196039	*	
	BEGIN	SIDELINE				
T.P.	0372	198165	2733	197793		
T.P.			10060	188105		

76L-298 S & E #307—1-56

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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

P.B. LANDSLIDE LINES #5&4

STATION	B. S.	H. I.	F. S.	ELEV.
	0338	188443		188105
T.P.	0965	177595	11813	176630
T.P.	0525	167026	11094	166501
T.P.	0503	156057	11472	155554
T.P.	1673	146697	11033	145024
T.P.	0317	136212	10802	135895
T.B.M. #25			11576	124636
		END SIDELINE		
T.P.	5715	201754		196039 *
T.P.	11743	207397	6100	195654
B.M-D			8964	198433
T.P.	7618	213960	1055	206342 *
	BEGIN	SIDELINE		
T.P.	11064	222136	2888	211072
T.P.	10645	230163	2618	219518
T.P.	11333	239952	1544	228619
J-1A			4545	235407
	END	SIDELINE		
	9495	215837		206342 *
J-1			7813	208024
T.P.	10913	225772	0978	214859

Profile Notes Red. ____ Plotted ____ Job No. 002164 Division No. 10 F. B. 2318 Pg. 169
No. ____ Date ____ Date ____ Survey of [illegible] LANDSLIDE
X-Sec. Notes Chkd. ____ Checked K. GOSS Survey by LIND Notes T.C.P. Date 9-11-58
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson

76L-298 S & E #307—1-56

PLEASE RETURN TO
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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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.

F. B. 2318 Pg. 170 Job No 002164 Division No. 10 Notes Red Plotted Profile
Survey of BRTUGUESE BEND LANDSLIDE Date Date X-Sec.
Survey by T.C.P. Notes Checked C. R. GOSS No.
Indexed C. Johnson Date Notes Chkd Date No.

STATION	B. S.	H. I.	F. S.	ELEV.		
		225 772				
J-3	6805	225 365	7212	218 560		
J-4			5248	220 117		
T.P	0958	216 378	9945	215 420		
T.P.	1897	210 381	7894	208 484		
RADIAL 2			6272	204 109		
T.P.	3315	209 550	4146	206 235		
J-5			8283	201 267		
T.P.	4177	204 710	9017	200 533		
T.B.M. #15			5988	198 722		
T.P.	6327	210 471	0566	204 144		
B.M. 50-13	5642	213 577	2536	207 935		
T.P.	6607	216 987	3197	210 380		
T.P.	6545	221 477	2055	214 932		
T.P.	6567	225 385	2659	218 818		
T.P.	5578	228 380	2577	222 808		
T.P.	5614	230 768	3232	225 154		
T.P.	5193	232 696	3265	227 533		
T.P.	5649	233 927	4418	228 278		
BM 34-15			4740	229 187	EL = 229.217	

76L-298 S & E #307—1-56

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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	P.B. LANDSLIDE LEVEL LINE #3
BM 34-15	6542	235759		229217	BM 34-15 ELEV. 229.217
SET BM 34-15A	0437	231424	4772	230987	BM 34-15A ELEV. 230.987
					PALOS VERDES DR SOUTH & SCHOONER DR. S.E. COR. 54.4± SLY. FROM ℄ P.V. DR. SO. & 35°± ELY OF ℄ SCHOONER DR. SET BT. SPK IN LEAD 1.4 ELY OF S.E. CB. RETURN.
T.P.	0942	221946	10420	221004	
T.P.	0698	213230	9414	212532	
K-13	2337	204095	11472	201758	
K-12	0206	192348	11953	192142	
K-11			10968	~~191380~~ 181.380	
T.P.	0453	181241	1560	180788	
T.P.	0738	170892	11087	170154	
K-10			2658	168234	
K-9	1605	160949	11548	159344	
T.P.	0202	149654	11497	149452	
T.P.	0837	139740	10751	138903	
T.P.	0457	128827	11370	128370	
T.P.			11078	117749	**

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 0021.64 Division No. 10 F. B. 2318 PG. 77
X-Sec. No. ____ Date ____ Date ____ Survey of [illegible]
Notes Chkd. ____ Checked C. R. GOSS Survey by LIND Notes T.O.P. Date 0.125P
Date ____ Date ____ Map No. ____ Indexed C. Johnson

76L-298 S & E #307—1-56

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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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F. B. 2318 Pg. 172 Job No. 002164 Division No. 10 Notes Red. Plotted Profile
Survey of PORTUGUESE BEND LANDSLIDE Date Date X-Sec.
Survey by LIND Notes T.C.P. Checked C. R. GOSS No.
Indexed A. C. JOHNSON Notes Chkd. Date No.
Date Date

STATION	B. S.	H. I.	F. S.	ELEV.
		BEGIN SIDELINE		
	11055	139425		128370 **
K-5			3396	136029
		END SIDELINE		
	0634	118383		117749 **
T.P.	2687	110083	10987	107396
K-5 AUX	0562	102337	8308	101775
T.P.	0302	90697	11942	90395
K4			7182	83515
KA			10653	80044
T.P.	1973	81191	11479	79218
KAB			7825	73366
T.P.	0274	71908	9557	71634
K.B.			7932	63976
T.P.	1213	61771	11350	60553
T.B.M.-28			1820	59951
KC			4700	57071
K-3A			4664	57107
T.P.	1728	54195	9304	52467
KD			9153	45042
T.P.	0293	43185	11303	42892
KE			7507	35678
T.B.M. 27 AUX			8652	34533

76298 S & E #307—7-55

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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
		43785				
T.B.M-27 AUX#2	0415	35489	8111	35074		
K-2			5950	29539		
T.P.	0933	25097	11325	24164		
T.P.	3152	21851	6398	18699	14137	
T.P.	4164	22553	3462	18389		
T.B.M.-26 B			6700	15853		
T.B.M.-26 C			4825	17728		
T.B.M.-26	5227	21567	6213	16340		
T.B.M.-26 D			4783	16784		
T.B.M.-26 E			2230	19337		
T.B.M.-26 A			2652	18915		
T.P.	6083	21270	6380	15187		
T.P.	3728	14452	10546	10724		
P.B.#1	6655	14252	6855	7597		
T.P.	4980	15704	3528	10724		
T.P.	5154	20084	0774	14930		
P.B.#2A	2075	15759	6400	13684		
T.P.	6087	11908	9938	5821		
P.B.#3	2323	7197	7034	4874		
T.P.	4117	8801	2513	4684		
T.P.			3444	5357		

Profile Notes Red. ____ Plotted ____ Job No. [illegible] Division No. 10 F. B. 2318 PG. 173
No. ____ Date ____ Date ____ Survey of [illegible]
X-Sec. Notes Chkd. ____ Checked C. R. GOSS Survey by [illegible] Notes [illegible] Date [illegible]
No. ____ Date ____ Date ____ Map No. ____ Indexed C. John [illegible]

76295 S & E #307—7-55

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700 Los Angeles County Engineering Bldg.

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.

F. B. 2318 Pg. 174 Job No. 602164 Division No. 10 Notes Red. Plotted
Survey of PORTUGUESE BEND LANDSLIDE Date No.
Survey by LUND Notes T.C.P. Notes Chkd. Date Checked C. R. GOSS X-Sec.
Indexed K. C. Johnson Date Date No.
Profile

STATION	B. S.	H. I.	F. S.	ELEV.	
	3622	8979		5357	
P.B. #5A			8221	0758	
T. P.	3403	8486	3896	5083	
T. P.	5414	9735	4165	4321	
P.B. #6A			9349	0386	
T. P.	10024	14096	5663	4072	
T. P.	7964	16442	5618	8478	(STA. BEACH - POOR CONDITION)
P.B. #7			4657	11785	
T.P.	6939	19403	3978	12464	
T. P.	4212	15542	8073	11330	
T.P.	4854	17959	2437	13105	
T. P.	1057	11483	7533	10426	
P.B. #8			3503	7980	
		END	OF	RUN	

76298 S & E #307—7-55

PLEASE RETURN TO
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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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. P.B. LANDSLIDE

9-12-58

STATION	B. S.	H. I.	F. S.	ELEV.		
BM 34-18	1728	170 410		168682		
T.P.	2393	162654	10149	160261		
T.P.	6477	163 330	5801	156853		
P-3			5275	158055		
T.P.	6540	165 161	4709	158621		
T.P.	6380	166916	4625	160536		
T.P.	5535	168310	4141	162775		
P-2			4850	163460		
T. P.	6241	170862	3689	164621		
T.B.M.-31			3790	167072	T.B.M.#31 ELEV. 167.050	(1957 ADJ.)

Profile Notes Red. ____ Plotted ____ Job No. 0021-64 Division No. 10 F. B. 2318 Pg. 115
No. ____ Date ____ Date ____ Survey of Fort Tiburon [illegible]
X-Sec. Notes Chkd. ____ Checked C. R. GOSS Survey by LIND Notes T.C.P. Date 9-12-58
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson

76298 S & E #307—7-55

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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line. P. BEND LANDSLIDE

STATION	B. S.	H. I.	F. S.	ELEV.	LINE # 2	9-15-58
TBM 34-15 A	2936	233923		230.987	TBM 34-15-A EL =	230.987
T.P.	4257	232593	5587	228336		
T.P.	3647	230485	5755	226838		
T.P.	3305	227660	6124	224321		
T.P.	2625	224548	5743	221923		
T.P.	2346	220027	6867	217681		
T.P.	3697	216247	7477	212550		
T.P.	3822	213730	6333	209914		
BM-50-13	3628	211608	5756	207980		
T.P.	11711	215146	8173	203435		
T.P.	11402	225782	0766	214380		
T.P.	11263	236338	0707	225075		
T.P.	11742	247332	0748	235590		
T.P.	10935	257483	0784	246548		
T.P.	11835	268832	0482	256997		
T.P.	8924	277093	0663	268169		
T.P.	11075	286020	2148	274945		
T.P.	[illegible]	297028	[illegible]	[illegible]		
T.P.	11355	307148	1235	295793		
T.P.	8277	314142	1283	305865		
SHIELDS	8157	318474	3825	310317		

F. S. 2818 Pg. 176 Job No. 0021.64 Division No. 10 Notes Red. Plotted Profile
Survey of PORTUGUESE BEND LANDSLIDE Date Date No.
Survey by LINO Notes LINO Notes Chkd. Checked C. R. GOSS X-Sec.
Indexed J. C. Johnson Date Date Date No.

76L298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.
		318 474		
T.P.	8573	323 074	4273	314201
STA G-1	4785	320 494	7365	315709
T.P.	7525	326 252	1767	318727
STA A-4			4064	322 188
STA A-3	11007	335 862	1397	324853
T.P.	10575	342 883	3554	332308
T.P.	10482	352 712	2653	342230
T.P.	11786	364 325	0173	352537
RADIAL # 1	5677	367 556	2446	361879
T.P.	9207	360 548	7217	360339
T.P.	2164	351 742	10968	349578
BM. 50-12	6742	350 870	7614	344128
T.P.	11013	361 445	0438	350432
T.P.	11892	372 245	1092	360353
T.P.	11208	383 180	0273	371972
T.P.	11102	393 150	11132	382048
STA D-2			11028	382122
T.P.	11786	403 850	1104	392046
T.P.	11727	415 103	0456	403376
T.P.	11292	426 079	0316	414787

Profile

Notes Red. Plotted Job No. 22164 Division No. 12 F. B. 2318 Pg. 177

No. Date Date Survey of

X-Sec. Notes Chkd. Checked C. R. GOSS Survey by Noted C. Johnson

No. Date Date Map No. Indexed Date

76L298 307 8-53

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LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.		
		426 079				
T.P.	11 435	432 216	5298	420781		
T.P.	7235	438 997	0454	431762		
STA D-1			3460	435537		
STA C-1	0237	430357	8877	430 12[illegible]		
T.P.	0265	422 342	8[illegible]	422 079		
T.P.	4455	419 [illegible]	7[illegible]	415 127		
STA B-1			4[illegible]	414 6[illegible]		
T.P.	2319	~~419~~ 420 964	[illegible]	414665		
STA B-1B			4887	416097		
T.P.	5748	426028	0704	420280		
T.P.	11 052	434038	3042	422 986		
T.P.	10 617	444 183	0472	433 56[illegible]		
STA. B1C	9774	452057	1900	442283		
T.P.	11 164	462629	0592	451465		
T.P.	11 265	472 066	1828	460801		
STA B-1D			1623	470443	STA B1D, EL =	470.475
				END	OF RUN	

F. B. 2313 PG. 178 Job No. 0021.64 Division No. 10 Notes Red. Plotted Profile
Survey of P.B. LANDSLIDE Date Date No.
Survey by LINO Notes LINO Notes Chk. C. R. GOSS Checked X-Sec.
Indexed C. Johnson Date Date Date No.
1914

76L-298 S & E #307—1-56

PLEASE RETURN TO
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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line. P. B. LANDSLIDE

STATION	B. S.	H. I.	F. S.	ELEV.	K & W LINES	9-25-58
T.B.M. 34-15A	1258	232245		230987	T.B.M. 34-15A	EL = 230.987
T.P.	0405	221155	11495	220750		
T.P.	1214	213742	8627	212528		
K-13	1946	203706	11982	201760		
K-12	0232	192380	11558	192148		
K-11	0478	181865	10993	181387		
T.P.	0533	171960	10438	171427		
K-10			3733	168227		
T. P.	0463	163109	9314	162646		
K-9			3767	159342		
T.P.	0176	152048	11237	151872		
T.P.	0242	142652	9638	142410		
T.P.	1158	132757	11053	131599		
T.P.	0704	122148	11313	121444		
T.P.	0220	113476	8892	113256		
W-3			2722	110754		
W-4			4152	109324		
K-5 AUX			11704	101772	K-5 AUX.	EL = 101.773
	END	OF RUN				

Profile Notes Red. ____ Plotted ____ Job No. [illegible] Division No. [illegible] F. B. 2318 PG. 179
No. ____ Date ____ Date ____ Survey of P.B. LANDSLIDE
X-Sec. Notes Chkd. ____ Checked ____ Survey by [illegible] Notes T.C.P. Date 9-25-58
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson Date 9-26-58

76298 S & E #307—7-55

PLEASE RETURN TO
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700 LOS ANGELES COUNTY ENGINEERING BLDG.

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. P BELL LAND SLIDE

STATION	B. S.	H. I.	F. S.	ELEV.	LINE #3	10-3-58
TBM 34-15A	0 453	231 440		230 987	TBM 34-15A	ELEV. - 230.987
T.P	0 953	221 956	10 437	221 003		
	1 101	213 640	9 417	212 539		
Sta K-13	2 234	204 001	11 873	201 767		
K-12	0 465	192 621	11 845	192 156		
K-11	0 828	182 326	11 223	181 398		
T.P.	0 775	172 214	10 787	171 439		
Sta - K-10			3 978	168 236		
T.P.	0 185	162 122	10 277	161 937		
Sta K-9			2763	159 359		
T.P	0 845	151 224	11 743	150 379		
T.P	0 202	139 968	11 458	139 766		
T.P	0 292	128 802	11 458	128 510 *		
T.P			11 037	117 765 +		
		BEGIN SIDE LINE				
T.P	10 825	139 335		128 510 *		
Sta K-5			3 283	136 052	BM K-5	ELEV. =
		END SIDE LINE				

Profile Notes Red. Plotted Job No. Division No. 10 F. B. 2316 Pg. 31
No. Date Date Survey of
X-Sec. Notes Chkd. Checked C. R. COSS Survey by Notes Date 10-3-58
No. Date Date Map No. Indexed C. Jones Date

76298 S & E #307—7-55

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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.		
TP	0818	118 583		117 765	+	
Sta W-3			7815	110 768		
W-4			9360	109 221		
T.P.	2632	110 023	11 192	107 391		
Sta K-5 Aux	0477	102 267	8 233	101 790	✓	
T.P.	0541	90 837	11 971	90 296		
Sta K-4			7 454	83 383		
KA	1 558	81 463	10 932	79 905		
KAB			8 310	73 153		
TP	0804	71 717	10 550	70 913		
Sta KB			7975	63 742		
T.P.	0683	62 223	10 177	61 540		
TBM 28			2 327	59 896		
Sta KC			3 217	57 006		
" K-3A			5 224	56 999		
TP	1 513	57 303	6 433	55 790		
TP	1 445	47 308	11 440	45 863		
Sta KD			2 456	44 852		
" KE	3047	38 570	11 785	35 523		
TBM 27-Aux #2			3 464	35 106		
Sta K-2	2 790	32 282	9 078	29 492		

F. B. 2318 Pg. 182

Job No. 002164 Division No. 10 Notes Red. Plotted Profile

Survey of Portuguese Bend Landslide Date Date No.

Survey by Lind Notes ACG Notes Chkd. C. R. GOSS Checked X-Sec.

Indexed C. Johnson Date Date Date No.

76298 S & E #307—7-55

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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.

Line #3

STATION	B. S.	H. I.	F. S.	ELEV.		
		32 282				
TP	9 403	32 958	9 727	22 555		
T.P.	4 283	22 628	4 613	18 345		
[illegible]			6 900	15 728		
[illegible]			4 950	17 678		
TBM 26	4592	20 867	6 353	16 275		
TBM 26A			1 903	18 964		
" 26D			4 170	16 687		
" 26E			1 490	19 377		
T.P.	3935	21 164	3 638	17 229		
T.P.	1 477	13 217	9 424	11 740		
BM PB #1	6257	13 837	5 637	7 580		
T.P.	7154	18 296	2 695	11 142		
T.P.	4842	20 052	3 086	15 210		
P.B. 2-A			6 185	13 867		
T.P.	2470	11 107	11 415	8 637		
T.P.	4132	12 576	2 663	8 444		
P.B. 5A	[illegible]		11807	0 769		
T.P.	4675	11 415	5836	6 740		
T.P.	6420	13 442	4392	7 023		
P.B. 6-A			13048	0 395		

Profile Notes Red. ____ Plotted ____ Job No. [illegible] Division No. [illegible] F. B. [illegible] PG. [illegible]
No. ____ Date ____ Date ____ Survey of [illegible]
X-Sec. Notes Chk'd. C. R. GOSS Checked ____ Survey by ____ Notes ____ Date ____
No. ____ Date ____ Date ____ Map No. ____ Index C. Johnson Date ____

76298 S & E #307—7-55

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
		13 443				
TP	6006	11 901	7548	5895		
T.P.	10 458	16 152	6207	5694		
P.B. # 7			4428	11724		
T.P.	2138	15 924	2366	13786		
T.P.	4480	17 814	2590	13334		
P.B. # 8			7864	7950	P.B. # 8	EC = 7.994

F. B. 2318 Pg. 184 Job No. 00816 Division No. 10 Notes Red. Plotted Profile
Survey of P. BEHO LANDSLIDE Date Date No.
Survey by LINO Notes LINO Notes Chk. C. R. GOSS Checked X-Sec.
Indexed K. C. Johnson Date Date Date No.

76L-298 S & E #307—1-56

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Do not extend notes this side of this line. 10-7-58

STATION	B. S.	H. I.	F. S.	ELEV.	P. BEND LANDSLIDE LINES 5 & 4	
Sta B-1-D	1643	472118		470475	STA. B-1-D EL =	470.475
T.P.	0688	461514	11292	460826		
T.P.	0677	452173	10018	451490		
B-1-C	2679	444994	9858	442315		
T.P.	0844	434446	11392	433602		
T.P.	3540	426564	11422	423024		
T.P.	0635	415704	11495	415069		
P.T. #1			0675	415029		
T.P.	0388	405245	10847	404857		
T.P.	1334	397029	9550	395695 *		
	BEGIN SIDE LINE					
S.B. #1	1363	390876	7516	389513		
S.B. #2	0644	383836	7684	383192		
T.P.	0585	373385	11036	372800		
T.P.	0447	362865	10967	362418		
S.B. #3			10057	352808		
	END SIDE LINE					
T.P.	1205	396900		395695 *		
~~T.P.~~	0213	385446	11667	385233	P.T. #3	
~~P.T. #3~~	0611	376389	9668	375778	T.P.	
P.T. #4	7184	376389	7184	369205 *		

Profile Notes Red. ____ Plotted ____ Job No. 00004 Division No. 10 F. B. 2318 Pg. 185
No. ____ Date ____ Date ____ Survey of Lost Bend Landslide
X-Sec. Notes Chkd. R. Ross Checked ____ Survey by ____ Notes V.A. Date 10-7-58
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson Date ____

76L-298 S & E #307—1-56

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F. B. 2318 Pg. 186 | Job No 0021.64 | Division No. 10 | Notes Red | Plotted | Profile
Survey of PORT. BEND LANDSLIDE | Date 10-7-58 | Date | No. | X-Sec.
Survey by LAND Notes V.F. | Notes Chkd C. R. GOSS | Checked | No.
Indexed K. C. Johnson Date | Date | Date

STATION	B. S.	H. I.	F. S.	ELEV.		
		376 389				
		BEGIN SIDE LINE				
T. P.	11101	386632	0858	375531		
T. P.	7245	390802	3075	383557		
T. P.	8754	397798	1758	389044		
W. FIX			4020	393778		
		END SIDE LINE				
		BEGIN SIDE LINE				
P. T. #4	0567	369772		369205	*	
T. P	0527	359367	10932	358840		
	0283	348223	11427	347940		
	0721	339123	9821	338402		
H-#2	1120	336143	10100	329023		
T. P.	2426	321418	11151	318992		
H-#4			9461	311957		
		END SIDE LINE				
P. T. #4	0730	369935		369205	*	
T. P.	0383	358565	11753	358182		
	0837	347988	11414	347151		
T. P.			10197	337791		

76L-298 S & E #307—1-56

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Line #5 + 4

STATION	B. S.	H. I.	F. S.	ELEV.		
	2933	340724		337791		
P.T. #5			0497	340227		
T.P.	0597	330593	10728	329996		
T.P.	1027	319890	11730	318863		
P.T. #6					UNABLE TO LOCATE	
T.P.			7302	312588 *		
	BEGIN SIDE LINE					
T.P.	5520	319785	5625	314265		
I - #1			2078	317707		
T.P.	0273	308072	11986	307799		
T.P.	0803	297514	11361	296711		
I - #2	8781	295262	11033	286481		
I - #3			11507	283755		
T.P.	10798	302753	3307	291955		
BLAKESLEE			0210	302543		
	END SIDE LINE					
	0770	313358		312588 *		
L - #1			4977	308381		
T.P.	0845	302296	11907	301451		
T.P.	1143	291826	11613	290683		
T.P.	0278	282407	9697	282129		

Profile No. ____ Notes Red. ____ Date ____ Plotted ____ Date ____ Job No. 0021.64 Division No. 10 F. B. 2318 Pg. 187

X-Sec. No. ____ Notes Chk'd. C. K. GOSS Date ____ Checked ____ Date ____ Survey of PORT. BEND LANDSLIDE Survey by LIND Notes [illegible] Date [illegible] 58

Map No. ____ Date ____ Indexed K. C. Johnson Date ____

76L-298 S & E #307—1-56

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F. B. 2318 Pg. 188 | Job No. 2021.64 | Division No. 10 | Notes Red. | Plotted | Profile
Survey of PORT BEND LANDSLIDE | Date 10-7-58 | Date | No. | X-Sec.
Survey by LIND | Notes V.B. | Notes Ck'd C. R. GOSS | Checked | Date | No.
Index C. Johnson | Date | Date | Date

STATION	B. S.	H. I.	F. S.	ELEV.		
		282467				
P.T. #7	0684	271327	11764	270643		
T.P.	0740	261335	10732	260595		
T.P.	0343	250266	11412	249923		
T.P.	0506	239275	11497	238769		
T.P.	0469	228139	11605	227670		
T.P.	0364	217540	10963	217176		
T.P.	1419	207317	11642	205898		
B.M.-C			3325	203992	*	
T.P.	4205	202489	9033	198284		
B.M.34-17A			8987	193502	*	
B.M.-C	11815	215807		203992	*	
STA. K-1			2395	213412		
B.M.34-17A	5938	199440		193502	*	
T.P.	3028	198495	3973	195467		
T.P.	6777	197440	7832	190663		
T.P.	5077	201641	0876	196564		
T.P.	11626	207162	6105	195536		
B.M.-D			8725	198437		
T.P.	10413	216549	1026	206130	*	BEGIN SIDE LINE
			0322	216227		

76L-298 S & E #307—1-56

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Line #5+4

STATION	B. S.	H. I.	F. S.	ELEV.
	11 053	227 280		216 227
T.P.	9586	236 092	0774	226 506
J-1-A			0843	235 249
	9541	215 677		206 136 *
J-1			7883	207 794
T.P.	10996	225 606	1067	214 610
J-3	8028	226 366	7268	218 338
J-4			6416	219 950
T. P.	1063	216 424	11005	215 361
T.P.	4471	212 919	7976	208 448
RADIAL 2			8844	204 075
T.P.	3947	209 592	7274	205 645
J-5			8413	201 179
T.P.	2963	204 650	7905	201 687
T.B.M.-15			5998	198 652
T.P.	6482	210 265	0867	203 783
B.M.50-13	5535	213 484	2316	207 949
T.P.	6945	216 654	3775	209 709
T.P.	6183	220 041	2796	213 858
T.P.	6613	224 237	2417	217 624
T.P.			2373	221 864

Profile Notes Red. ____ Plotted ____ Job No. 00-21-64 Division No. 10 F. B. 2318 PG. 189
No. ____ Date ____ Date ____ Survey of PORT BEND LAN
X-Sec. Notes Chkd. C. R. GOSS Checked ____ Survey by LIND Notes V.A Date 10-7-58
No. ____ Date ____ Date ____ Map No. ____ Index [illegible] C. Johnson Date ____

F. B. 2318 Pg. 190 Job No. 0021.64 Division No. 10 Notes Red. Plotted Profile

Survey of PORT BEND LANDSLIDE Date 10-7-58 Date No.

Survey by LIND Notes Y.A. Notes Chkd. C. R. GOSS Checked X-Sec.

Indexed C. Johnson Date Date Date No.

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.		
	5716	227 580		221 864		
T.P.	5558	229 863	3 275	224 305		
T.P.	5620	232 399	3084	226 779		
T.P.	5498	233 782	4115	228 284		
T.B.M. 34-15A			2846	230 936	T.B.M. 34-15A	EL = 230.987

76298 S & E #307—7-55

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Do not extend notes this side of this line. P. BEND LANDSLIDE

STATION	B. S.	H. I.	F. S.	ELEV.	LINES # 2 & 1	10-9-58
TBM. 34-15A	2986	233 973		230987		
T.P	4117	232 453	5637	228336		
T.P.	3518	230 347	5624	226829		
T.P.	3275	227 622	6000	224347		
T.P.	2812	224 717	5717	221905		
T.P.	2445	220 107	7055	217662		
T.P.	2707	216 602	[illegible]	213895		
T.P.	3947	213 693	6856	209746		
BM 30-13	3753	211 740	5706	207987		
T.P.	11495	214 760	8475	[illegible]		
T.P.	11678	226 055	0380	214380		
T.P.	11515	236 599	0974	225084		
T.P.	10414	246 769	0244	236355		
T.P.	11073	257 317	0525	246244		
T.P.	11161	268 061	0417	256900		
T.P.	9094	276 219	0936	267125		
T.P.	11347	286 315	1253	274966		
T.P.	11013	296 929	0397	285916		
T.P.	11247	307 069	1107	295822		
T.P.	8448	314 342	1175	305894		
SHI ELDS			3994	310348		

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 0021-54 Division No. 10 F. B. 2316 Pg. 171
Date ____ Date ____ Survey of PORT BEND LANDSLIDE
X-Sec. No. ____ Notes Chkd. R. GOSS Checked ____ Survey by LIND Notes V.A. Date 10-9-58
Date ____ Date ____ Map No. ____ Index C. Johnson Date ____

76298 S & E #307—7-55

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F. B. 2318 Pg. 192 Job No. 00214 Division No. 10 Notes Red. Plotted
Survey of PORT. BEND LAND SLIDE Date 10-9-58 Date No. Profile
Survey by LIND Notes V.A. Notes Chkd. R. GOSS Checked No. X-Sec.
Indexed K. C. Johnson Date Date Date

STATION	B. S.	H. I.	F. S.	ELEV.
SHIELDS	8182	318 530		310 348
T.P.	8753	322 918	4 385	314 245
T.P.	4936	320 688	7246	315 752
T.P.	7610	326 381	1917	318 771
STA A-4			4119	322 262
STA A-3	10230	335 008	1603	324 778
T.P.	11 177	343 464	2781	332 227
T.P.	11 501	353 695	1210	342 194
T.P.	11704	364 230	1169	352 526
R-1	6650	368 494	2390	361 840
T.P.	0901	361 237	8152	360 338
T.P.	0590	350 209	11620	349 617
B.M. 50-12			6169	344 040
T.P.	11133	360 933	0409	349 806
T.P.	11 785	372 279	0442	360 491
T.P.	10724	382 504	0499	371 780
T.P.	10 678	392 492	0690	381 814
D-2			10607	381 885
T.P.	11624	403 386	0730	391 762
T.P.	11781	414 744	0423	402 963
T.P.			0470	414 274

76L298 S & E #307 9-54

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Line 241

STATION	B. S.	H. I.	F. S.	ELEV.		
	9694	423968		414274		
T.P.	8656	432109	0515	423453		
T.P	7093	438875	0327	431782		
D-1			3710	435165		
C-1	0404	430450	8829	430046		
T.P.	0949	421667	9730	420720		
T.P	4859	419837	6691	414978		
B-1			5349	414488		
T. P.	2769	417211	5395	414442		
B-1-B	5210	421206	1215	415996		
T.P.	6685	425751	2140	419066		
T.P	11420	434536	2635	423116		
T.P.	11195	444890	0841	433695		
B-1-C	10730	453081	2539	442351		
T.P.	11129	462669	1541	451540		
T.P.	11380	472225	1824	460845		
B-1-D			1709	470516	B-1-D	EL = 470.475
		LINE	#1			
B-1-D	2521	472996		470475	B-1-D	EL = 470.475
T.P.	1318	462713	11601	461395		
T.P.			11630	451083		

Profile Notes Red. ____ Plotted ____ Job No. 60-21-64 Division No. 10 F. B. 2318 Pg. 193
No. ____ Date ____ Date ____ Survey of PORT BEND LANDSLIDE
X-Sec. Notes Chkd. C. R. GOSS Checked ____ Survey by LIND Notes V.9 Date 10-9-58
No. ____ Date ____ Date ____ Map No. ____ Index No. C. Johnson Date ____

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F. B. 2318 Pg 194 | Job No. 00216 Division No. 10 Notes Red. Plotted
Survey of PORT BEND LANDSLIDE Date 10-9-58 Date No. X-Sec.
Survey by LIND Notes V.A. Checked C. R. GOSS Notes Date No.
Indexed C. Johnson Date Date Profile

STATION	B. S.	H. I.	F. S.	ELEV.		
	0845	451928		451083		
T.P	0649	440589	11988	439940		
T.P.	0275	429709	11155	429434		
T.P.	1480	419770	11419	418290		
T.P.	4497	412550	11711	408059		
T.P.	3741	410167	6130	406426		
T.P.	4165	408149	6183	403984		
P-B-#9	3871	408031	3989	404160	✓	
T.P	6164	410707	3488	404543		
T.P.	6503	413452	3758	406949		
P.I.#5			4926	408526	✓	
T.P.	6011	415569	3894	409558		
	0826	412397	3992	411577		
T.B.M.#30	1410	406756	7057	405340	✓	
T.P.	5740	405407	7083	399667		
T.P.	6169	407856	3720	401687		
P.I.#4	6822	410929	3749	404107	✓	
	10229	420667	0491	410438		
	6530	425343	1854	418813		
	5882	426086	5139	420204		
			4439	421647		

76298 S & E #307—7-55

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Line 24+1

STATION	B. S.	H. I.	F. S.	ELEV.
	4404	426054		421647
G-7-RM#1			4404	421647
S.P.HILLSG-7			5302	420749
G-7-R.M.#2			4287	421764
T.P.	0718	416501	10268	415783
T.P.	1127	407566	10062	406439
T.P.	0312	398098	9780	397786
T.P	0736	387574	11255	386843
T. P.	3205	382010	8774	378805
P.I.#3	0220	373160	9070	372940
T.P.	0740	362650	11250	361910
T.P	0991	351854	11787	350863
P.I.#2	2661	343325	11190	340664
P.I.#1			7761	335644 *
		BEGIN SIDE LINE		
	1629	337193		335644 *
T.P.	0385	326769	10809	326384
T.P.	0632	316422	10979	315790
T.P.	0820	305917	11325	305097
T.P.	1160	295488	11589	294328
T. P.			9767	285724

Profile Notes Red. Plotted Job No. Division No. 12 F. B. 2318 Pg. 185
No. Date Date Survey of EAST LYND LAND SLIDE
X-Sec. Notes Chkd. R. GOSS Checked Survey by LIND Notes K.B. Date 10-9-36
No. Date Date Map No. Indexed C. Johnson Date

76298 S & E #307—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.		
	8951	294672		285721		
H-7A ECC #7			6485	288187		H 7A Ecc #1
H-7A			6267	288405		
	END SIDE LINE					
	0669	336233		335564	*	
T.P.	1030	325461	11802	324431		
T.P.	0992	314832	11621	313840		
T.P.	0381	303243	11970	302862		
T.P.	0745	292611	11377	291866		
B.C.			1554	291057		
	2768	283390	11989	280622		
P.B. #10	1198	280747	3841	279549		
T.P.	0352	269762	11337	269410		
T.P.	0408	259696	10474	259288		
T.P.	0377	249014	11054	248[illegible]		
T.P.	0732	238338	11413	237606		
T.P.	0645	227891	11092	227246		
T.P.	1284	217440	11735	216156		
W.F. #1			6973	210467		
T.P.	0424	206129	11735	205705		
T.P.	1142	195816	11455	194674		

F. B. 2318 Pg. 196 Job No. 0021.64 Division No. 10 Notes Red. Plotted Profile
Survey of PORT. BEND LANDSLIDE Date 10-7-58 Date No. X-Sec.
Survey by LIND Notes V.A. Notes Chkd. C. R. GOSS Checked
Indexed C. Johnson Date Date Date No.

76298 S & E #307—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.		Line 2+1
T.P.		195.816				
T.P.	0.295	186.023	10.089	185.727		
T.P.	1.468	176.023	11.407	174.615		
T.B.M. #31			8.973	167.050	T.B.M. #31	El. 167.050

Profile Notes Red. ____ Plotted ____ Job No. ____ Division No. ____ F. B. ____ Pg. ____
No. ____ Date ____ Date ____ Survey of ____
X-Sec. Notes Chkd. C. R. GOSS Checked ____ Survey by ____ Notes ____ Date ____
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson Date ____

76298 S & E #307—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.	PORT. BELO LANDSLIDE 10-17-58
B.M. 50-9	11750	1011153		999403	B.M. 50-9, El= 999.403
T.P	1323	1000784	11692	999461	
T.P	1150	990184	11750	989034	
T.P	0280	979794	10670	977514	
T.P.	0527	968731	11590	968204	
T.P.	0530	958226	11041	957690	
T.B.M. #11	2349	949587	10982	947238	
T.P.	1089	940917	9699	939888	
STA. Z-1			5550	935427	
T.P.	0830	931464	10343	930634	
T.P.	0965	922434	9995	921469	
T.P.	0823	911728	11529	910905	
T.P.	0709	901460	10977	900751	
T.P.	0568	890497	11531	889929	
T.P.	0433	879468	11462	879035	
T.P.	0860	868548	11780	867688	
BM. 50-10	5468	863576	10440	858108	
T.P.	1380	854568	10388	853188	
T.P.	1141	844830	10879	843689	
T.P.	0612	833630	11812	833018	
T P			11879	821754	

Profile
Notes Red. _____ Plotted _____ Job No. 60216.4 Division No. 10 F. B. 25118 Pg. 14
No. _____ Date _____ Date _____ Survey of L.S.L. Landslide
X-Sec. Notes Chkd. K. GOSS Date _____ Checked _____ Survey by _____ Notes V.A. Date 10-17-58
No. _____ Date _____ Date _____ Map No. _____ Indexed C. Johnson Date 10-21-58

76298 S & E #307—7-55

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
	0760	822511		821751		
T.P.	0629	811 682	11458	811053		
T.P.	1229	802 059	10852	800830		
T.P.			6889	795170		
T.P.	0745	790842	11962	790097		
T.P.	8011	787435	11418	779424		
T.B.M. #12			10313	777122		
T.P.	1440	782 308	6567	780868		
T.P.	1188	772 332	11164	771144		
T.P.	0888	761 647	11573	760759		
T.P.	1398	751386	11659	749988		
T.P.	0647	743445	8588	742798		
T.P.	0500	732495	11450	731995		
T.P.	0568	721901	11162	721333		
T.P.	0629	711 652	10878	711023		
T.P.	0950	701 414	11188	700464		
T.P.	0679	690 365	11728	689686		
T.P.	0687	679 450	11602	678763		
T.B.M. #13			3540	675910		
T.P.	0968	669 117	11301	668149		
T.P.	0773	658 601	11289	657828		
B.M. 50-11			11118	647483	B.M. 50-11	EL: 647.509

F. B. 2318 Pg. 200 0021.64 Job No. Division No. 10 Notes Red. Plotted Profile
Survey of PORT BEND LANDSLIDE Date 10-17-58 Date No. X-Sec.
Survey by LIND Notes V.A. Notes Chkd. R. Gose Checked
Indexed K. C. Johnson Date Date Date No.

76298 S & E #307—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.	P.B. LANDSLIDE	LINES 5 & 4
B.M. B-1D	0941	471 416		470475	[illegible]	
T.P.	1620	462419	10617	460799		
T.P.	6826	458327	10918	451501		
T.P.	0556	448944	9939	448388		
B.M. B-1C	1301	443620	6625	442319		
T.P.	1070	434680	10010	433610		
T.P.	2475	425507	11648	423032		
T.P.	1317	416192	10632	414875		
P.T. #1			1355	414837		
T.P.	0528	405278	11442	404750		
P.T. #2 AUX.	1525	397188	9615	395663 *		
	BEGIN SIDE LINE					
S.B. #1	1390	390895	7683	389505		
S.B. #2	0857	384070	7682	383213		
T.P.	0682	373502	11250	372820		
T.P.	1028	363467	11063	362439		
S.B. #3			10648	352819		
	END SIDE LINE					
P.T. #2 AUX.	1304	396967		395663 *		
P.T. #3	0450	385606	11811	385156		
T.P.			11209	374397		

Profile Notes Red. ____ Plotted ____ Job No. 8021.64 Division No. 10 F. B. 2318 PG. 201
No. ____ Date ____ Date ____ Survey of PORT. BEND LANDSLIDE
X-Sec. Notes Chk. C. R. GOSS Checked ____ Survey by [illegible] Notes V.A. Date 11-5-58
No. ____ Date ____ Date ____ Map No. ____ Index [illegible] 11-6-58

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F. B. 2318 Pg. 202 Job No. 0021.64 Division No. 10 Notes Red. Plotted
Survey of PORT BEND LANDSLIDE Date 11-5-58 Date X-Sec. No.
Survey by LUND Notes HENDERSON Notes Chkd. C. R. GOSS Checked Date Profile No.
Indexed L. C. Johnson Date Date

STATION	B. S.	H. I.	F. S.	ELEV.		
T.P.	1618	376 0157		3743971		
P.T. #4	0265	369 395	6885	369130	*	
BEGIN SIDE LINE						
T.P.	0212	358957	10650	358745		
T.P.	0828	348 675	11110	347847		
T.P.	0599	338 890	10384	338 291		
H-2	0651	329566	9975	328915		
T.P.	2508	321 706	10368	319198		
H-4			9812	311894		
END SIDE LINE						
P.T. #4	11413	380 543		369130	*	
T.P.	7405	387204	0744	379799		
T.P.	5548	391 735	1017	386187		
T.P.	7203	396252	2686	389049		
WEST FIX			2460	393792		
END SIDE LINE						
P.T. #4	0605	369 735		369 130	*	
T.P.	0838	359 223	11350	358385		
T.P.	0900	349244	10879	348344		
P.T #5	0991	341 138	9097	340147		
T.P.			11231	329907		

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STATION	B. S.	H. I.	F. S.	ELEV.		
T.P.	0748	330655		329907		
T.P.	0224	319441	11438	319217		
P.T. 6-AUX2			6945	312496		
T.P.			11705	307736	*	
	BEGIN SIDE LINE					
T.P.	6184	320365	5260	314181		
I-1			2678	317687		
T.P.	0491	309444	11412	308953		
T.P.	1374	299255	11563	297881		
T.P.	6793	295002	11046	288209		
I-2			8938	286064		
I-3			11635	283367		
T.P.	11262	302539	3725	291277		
BLAKESLEY			0340	302199		
	END SIDE LINE					
T.P.	0778	308514		307736	*	
L.-1			0268	308246		
T.P.	1048	297997	11565	296949		
T.P.	0200	287077	11120	286877		
T.P.	0632	278548	9161	277916		
P.T. #7			8008	270540		

Profile Notes Red. ____ Plotted ____ Job No. 0021.64 Division No. 10 F. B. 2318 Pg. 203
No. ____ Date ____ Date ____ Survey of PORT SAND LANDSLIDE
X-Sec. Notes Chkd. F. R. GOSS Checked ____ Survey by LWP Notes V.A. Date 11-5-58
No. ____ Date ____ Date ____ Map No. ____ Index K. C. Johnson

76298 S & E #307—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.		
P.T. #7	1566	272106		270540		
T.P.	0809	261283	11632	260474		
T.P.	0421	251811	9893	251390		
T.P.	0940	241662	11089	240722		
T.P.	0722	231211	11173	230489		
T.P.	0932	220441	11702	219509		
T.P.	0930	210637	10734	209707		
B.M. – C	11709	215691	6655	203982		
T.P.			11402	199235 *		
	BEG. SIDE LINE					
B.M.C	11709	215691		203982		
STA. K-7			2280	213411		
	END. SIDE LINE					
T.P.	0230	199465		199235 *		
B.M. 34-17A	5867	199304	5968	193497		
T.P.	1474	196943	9895	195469		
T.P.	6060	196613	6390	190553		
T.P.	3762	199599	0776	195837 *		
	BEG SIDE LINE					
T.P.	0251	188173	11677	187922		
T.P.	0834	177649	11358	176815		

F. B. 2318 Pg. 204 Job No. 0021.64 Division No. 10 Notes Red. Plotted Profile
Survey of PORT BEND LANDSLIDE Date 11-5-58 Date No. X-Sec.
Survey by LIND Notes V. ANDERSON Notes Chk. C. R. GOSS Checked
Indexed C. Johnson Date Date Date No.

76298 S & E #307—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.		
		177 649				
T.P.	0375	166 521	11 503	166 146		
T.P.	0430	155 598	11 353	155 168		
T.P.	0421	145 140	10 879	144 719		
T.P.	0 802	136 715	9 227	135 913		
T.B.M. #25			11 896	124 819	END SIDE LINE	
T.P.	6240	202 077		195 837 *	pg. 204 - 4th LINE BOX PG.	
T.P.	0 603	206 066	6614	195 463		
B.M. #"D"			7532	198 534		
T.P.	11 805	217 224	0 697	205 419 *		
	BEG. SIDE LINE					
T.P.	11 883	227 968	1 142	216 082		
T.P.	[illegible]	239 065	0 446	227 519		
STA J-1A			[illegible]	235 105		
	END SIDE LINE					
T.P.	11 544	212 963		205 419 *		
STA J-2			9 393	207 570		
T.P.	11 286	225 670	2 573	214 390		
STA. J-3	10 917	229 041	7 552	218 124		
STA J-4			9 246	219 795		
T.P.	1 726	219 577	11 190	217 851		

Profile Notes Red. ____ Plotted ____ Job No. [illegible] Division No. 10 F. B. [illegible] Pg. [illegible]
No. ____ Date ____ Date ____ Survey of PORT BEND LANDSLIDE
X-Sec. Notes Chk'd. [illegible] Checked ____ Survey by [illegible] Notes [illegible] Date 11-5-58
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson

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STATION	B. S.	H. I.	F. S.	ELEV.		
		219 577				
T.P.	3597	212 027	11 147	208 430		
RADIAL #2			7 [illegible]	204 030		
T.P.	8390	209 865	10 552	201 475		
d-5			8770	201 095		
T.P.	4677	206 184	8358	201 507		
T.B.M. # 15			7 599	198 585		
T.P.	6339	209 580	2943	203 241		
BM-50-13	4940	212 903	1 [illegible]	207 963		
T.P.	6068	215 680	3 291	209 612		
T.P.	6660	[illegible]	2 782	212 898		
T.P.	6851	224 481	[illegible]	[illegible]		
T.P.	5643	227 932	[illegible]	222 [illegible]		
T.P.	[illegible]	[illegible]	3 225	224 707		
T.P.	[illegible]	[illegible]	[illegible]	227 417		
T.P.	[illegible]	[illegible]	[illegible]	[illegible]		
B.M. 34-15A			[illegible]	230 [illegible]	[illegible]	230.787
			END OF RUN			

F. B. 2318 Pg. 206 Job No. 002164 Division No. 10 Notes Red. Plotted Profile
Survey of P. BAND LAND SLIDE Date Date No.
Survey by LINO Notes LINO Notes Chk. C. R. GOSS Checked X-Sec.
Indexed [illegible] Date Date No.

76298 S & E #307—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.	P.B. LANDSLIDE	LINES # 2 & 1
B.M. 34-15A	3116	234103		230987	B.M. 34-15-A	EL. = 230.987
T.P.	3981	232316	5768	228335		
T.P.	2987	230433	4870	227440		
T.P.	3120	227860	5693	224740		
T.P.	2278	224600	5538	222322		
T.P.	1908	219575	6933	217667		
T.P.	3114	216050	6639	212930		
T.P.	3193	212841	6402	209648		
B.M. - 50-13	2479	210479	4841	208000		
T.P.	11621	214899	7201	203278		
T.P.	11260	225647	0512	214387		
T.P.	11168	236265	0550	225097		
T.P.	10828	246449	0644	235621		
T.P.	11786	257665	0570	245879		
T.P.	11483	267970	1178	256487		
T.P.	10454	277591	0833	267137		
T.P.	11295	288507	0379	277212		
T.P.	11170	297096	2581	285926		
T.P.	11694	307525	1265	295831		
T.P.	8535	314438	1622	305903		
SHIELDS			4081	310357		

Profile Notes Red. ____ Plotted ____ Job No. 50-21-64 Division No. 10 F. B. 2318 Pg. 207
No. ____ Date ____ Date ____ Survey of PORT. BEND LANDSLIDE
X-Sec. Notes Chkd. ____ Checked ____ Survey by [illegible] Notes V.A. Date 11-6-58
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson 11-13-58

76298 S & E #307—7-55

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F. B. 2318 Pg. 2.08 | Job No. 8021.64 | Division No. 10 | Notes Red. | Plotted | No. | Profile
Survey of PORT. BEND LANDSLIDE | Date 11-4-58 | Date | No. | X-Sec.
Survey by LIND | Notes V. ANDERSON | Notes Chkd. | Checked
Indexed K. C. Johnson | Date | Date | No.

STATION	B. S.	H. I.	F. S.	ELEV.		
SHIELDS	8038	318395		310357		
T.P.	5320	323106	3609	314786		
G-1	10402	326158	7350	315756		
A-4			3910	322248		
A-3	10425	335090	1493	324665		
T.P.	10697	342795	2992	332098		
T.P.	11723	353496	1022	341773		
T.P.	11850	364296	1050	352446		
RADIAL-1	6030	367776	2550	361746		
T.P.	0688	358956	9508	358268		
T.P.	5880	355484	9354	349606		
B.M. 50-12			11588	343896		
T.P.	11256	360828	5914	347572		
T.P.	11742	371942	0625	366200		
T.P.	10928	382412	0458	371484		
T.P.	10814	392280	0946	381466		
D-2			10774	381506		
T.P.	11658	40 3/2 054	0884	391396		
T.P.	9896	41 1/2 377	0573	40 2/2 481		
T.P.	11138	42 3/2 283	0232	41 2/2 145		
T.P.			0905	42 2/2 378		

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STATION	B. S.	H. I.	F. S.	ELEV.		
T.P.	11347	43~~2~~3725		42~~1~~2378		
T.P.	6030	43~~6~~7685	2070	43~~0~~1655		
C-1	0480	43~~0~~1293	6872	42~~9~~30813	(NOTE: D-1 DESTROYED BY SLIDE)	
T.P.	1197	42~~1~~2696	9794	42~~0~~1499		
T.P.	4840	41~~9~~20489	7047	41~~4~~5649		
B-1			5297	41~~4~~5192	Use his elevations - Do not use redelevations - Obvious error in copying either backsight or foresight.	
T.P.	6312	42~~0~~1513	5288	41~~4~~5201		
B.1-B	5590	[illegible]	4835	41~~5~~6678		
T.P.	10625	42~~5~~6548	5590	41~~4~~5923		
T.P.	11790	43~~4~~5879	2459	42~~5~~4089		
T.P.	10009	44~~3~~4675	1213	43~~3~~4666		
B.1-C	8278	45~~0~~1633	1320	44~~2~~3355		
T.P.	6898	45~~5~~6053	2478	44~~8~~9155		
T.P.	11032	46~~2~~3565	3520	45~~1~~2533		
T.P.	11282	47~~2~~3115	1732	46~~0~~1833		
B-1-D			1605	47~~0~~1510	STA B-1-D, EL = 470.475	
B-1-D	2940	473415		470475	STA B-1-D, EL =	470.475
T.P.	0846	452478	11783	461632		
T.P.	0687	451773	11392	451082		
T.P.	0684	440622	11575	439938		

Profile Notes Red. ____ Plotted ____ Job No. 0021.64 Division No. 10 F. B. 2315 Pg. 209
No. ____ Date ____ Date ____ Survey of PORT BEND LANDSLIDE
X-Sec. Notes Chkd. ____ Checked ____ Survey by LIND Notes V.A. Date 11-6-58
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson Date 11-13-58

76298 S & E #307—7-55

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F. B. 2318 Pg. 210 | Job No. 10021 64 | Division No. 10 | Notes Red. | Plotted | No.
Survey of PORT. BEND LANDSLIDE | Date 11-6-58 | Notes | Chkd | Checked | X-Sec. No.
Survey by LLND | Notes V. ANDERSON | Date | Date
Indexed R. C. Johnson | Date | Date
Profile

STATION	B. S.	H. I.	F. S.	ELEV.		
		420 622				
TP	0653	430 088	11192	429434		
T.P.	0649	418 1371	11600	418288		
T.P.	4265	412 015	11138	407757		
T.P.	3707	410 130	5593	406423		
T.P.	3402	407 954	6073	404057		
P.B. # 9	4174	408 511	3826	404177		✓
T.P.	6187	410 708	3798	404510		
T.P.	6338	413 273	3773	406934		
P.I. # 5			4778	408508		✓
T.P.	6015	413 521	3765	407756		
T.P.	0959	412 611	4000	411652		
T.B.M.#30	1234	406 648	7200	405414		✓
TP.	5621	405 101	7628	399473		
TP.	6192	407 564	3432	401664		
P.I. # 4	6297	410 383	3775	406608		✓
TP.	11679	419778	22782	408074		
T.P.	5447	424 774	09769	418603		
T.P.	5780	425 974	4600	420174		
T.P.	4358	425 860	4478	421504		
P. M# 1			4220	421 640		✓

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STATION	B. S.	H. I.	F. S.	ELEV.		
		423.680				
S.P. Hills G-7			5.172	418.508	✓	
R.M. # 2			4.102	419.578	✓	
T.P.	1.020	423.536	1.162	418.516		
T.P.	0.901	422.744	1.723	418.843		
T.P.	0.548	393.100	1.350	392.552		
T.P.	0.936	383.305	1.557	382.369		
T.P.	3.072	386.133	6.203	383.061		
P.I. #3	0.683	373.599	7.174	372.916	✓	
T.P.	0.651	362.538	1.724	361.887		
T.P.	0.226	351.829	10.923	351.603		
T.P.	1.250	344.538	9.546	343.288		
P.I. # 2			3.702	340.836	✓	
P.I. # 2	1.235	337.162	4.909	335.927	*	✓
	330.253		6.915			
T.P.	0.339	327.684	10.817	327.345		
T.P.	0.672	317.425	10.931	316.753		
T.P.	0.260	303.324	11.364	303.064		
T.P.	0.456	295.747	8.035	295.291		
T.P.	8.339	295.021	9.065	286.682		
B.M. #2			6.667	288.354	✓	

Use his elevations - Error in copying backsight or foresight.

Profile Notes Red. Plotted Job No. Division No.
No. Date Date Survey of
X-Sec. Notes Chkd. Checked Survey by Notes
No. Date Date Map No. Indexed Date
F. B. Pg.

76298 S & E #307—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.		
		296 021				
S.P. Hills H-74			6652	288 [illegible]	✓	
	END SIDE LINE					
P.I. #1	0700	336 227		335 527	* ✓	
T.P.	0878	325 281	11824	324403		
T.P.	0828	314 639	11 470	313 811		
T.P.	0763	304 464	10 938	303 701		
T.P.	0551	294 653	10 362	294 102		
B.C.			3 623	291 [illegible]	✓	
T.P.	1955	285 516	11 092	283 521		
P.B. # 10	1592	281 124	5984	279 532	✓	
T.P.	0785	270 088	11 821	269 303		
T.P.	0193	[illegible]	10 [illegible]	259 [illegible]		
T.P.	0329	248 949	10 844	248 620		
T.P.	0317	237 842	11 424	237 525		
T.P.	0694	227 234	11 302	226 540		
T.P.	0755	217 850	10 159	217 075		
W.F. # 1	[illegible]	[illegible]	7377	210 453	✓	
T.P.	0503	207 039	11 294	206 536		
T.P.	0222	196 410	10 851	196 188		
T.P.	0479	185 101	11788	184 622		

F. B. 2318 PG. 212 Job No. [illegible] Division No. 10 Notes Red. Plotted Profile
Survey of P.B. [illegible] Date Date No.
Survey by [illegible] Notes [illegible] Notes Chkd. Checked X-Sec.
Indexed K. C. Johnson Date Date Date No.

76298 S & E #307—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.		
		185 101				
T.P.	0345	183 343	11763	173 338	✓	
[illegible]			6661	167644	[illegible]	EL = 167.550
					11-7-58 P.O. LANDSLIDE LINE #3	
T.B.M 34-15-A	0383	231 370 ✓		230.987 ✓	T.B.M. # 34-15 A	EL = 230.987
T.P.	1391	222 391 ✓	10370	221000 ✓		
T.P.	0801	211 2224 ✓	10968	211 423 ✓		
K-13	2981	201 735 ✓	10470	201 754 ✓		
T.P.	1110	194 449 ✓	11390	193 339 ✓		
K-12			2312	192 137 ✓		
T.P	0988	184 278 ✓	11154	183 290 ✓		
K-11			2898	181 380 ✓		
K-10A	0794	173 549 ✓	11523	172755 ✓		
K-10 B			3850	169699 ✓		
K-10			5757	167792 ✓		
	5548	169 060 ✓	10031	163518 ✓	K-9A	
K-9B			7130	161936 ✓		
K-9	2840	162 182 ✓	9730	159330 ✓		
K 8-A.			4337	157845 ✓		
K 8-B			6655	155527 ✓		

Profile Notes Red. Plotted Job No. Division No.
No. Date Date Survey of
X-Sec. Notes Chkd. Checked Survey by Notes Date
No. Date Date Map No. Indexed C. Johnson

F. B. 2-33/5 Pg. 2-3

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F. B. 2318 Pg. 2/4 Job No. 8021.64 Division No. 10 Notes Red. Plotted
Survey of PORT. BEND LANDSLIDE Date 11-7-58 Date No. X-Sec.
Survey by K.L.K.P. Notes V. ANDERSON Notes Chkd. Checked
Indexed C. Johnson Date Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.		
H.I.		162182				
T.P.	0792	151564	11410	150772		
T.P.	0632	140915	11281	140283		
T.P.	8848	138506	11257	12-9658		*
	BEGIN SIDE LINE					
K-5			2469	136037		
	END SIDE LINE					
T.P.	1371	131029		129658		**
T.P.	0670	120131	11568	119461		
W-4			11060	109071		
T.P.	4580	113240	11471	108660		
W-3			2504	110736		
K-5-AUX	0720	102494	11466	101774		
T.P.	0556	92007	11041	91453		
K-4			8880	83129		
T.P.	1536	81872	11673	80336		
K-A			2230	79642		
K-A-B			9022	72850		
T.P.	0614	71135	11351	70521		
K-B			7832	63303		

76298 S & E #307—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.		
H.I.		71135				
T.P.	3203	64370	9968	61167		
T.B.M.-28			4608	59762		
K-C			7520	56850		
K-3-A			7600	56770		
T.P.	3738	57329	10779	53591		
T.P.	0738	47446	10621	46708		
T.P.	5151	42187	10410	37036		
K-E			6948	35239		
T.B.M. 27 AUX 2			7118	35069		
	1506	34851	8842	33345		
	0802	25319	10334	24517		
	5290	22927	7682	17637		
TBM #26-B			7240	15687		
TBM #26-C			5240	17687		
T.B.M #26	5980	22267	6640	16287		
TBM #26-D			5552	16715		
T.B.M #26-E			2710	19557		
T.B.M. #26-A			3138	19129		
T.P.	5548	20785	7030	15237		
T.P.			9191	11594		

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 0021.64 Division No. 10 F. B. 2318 Pg. 215
Date ____ Date ____ Survey of P.B. LANDSLIDE
X-Sec. No. ____ Notes Chkd. ____ Checked ____ Survey by LIVO Notes V.A Date 11-7-58
Date ____ Date ____ Map No. ____ Index [illegible] C. Johnson

F. B. 2318 Pg. 2/6 | Job No. 2021.64 Division No. 10 Notes Red. Plotted
Survey of P.B. LANDSLIDE Date 11-7-58 Date
Survey by LIND Notes V. ANDERSON Notes Chkd. Checked
Indexed [redacted] C. Johnson Date Date Date

Profile No. X-Sec. No.

76298 S & E #307—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.		
T.P	3820	15414		11594		
P.B. #1			7820	7594		
T.P.	6582	19828	2168	13246		
P.B. #2-A			5758	14070		
T.P.	3541	11925	11444	8384		
P.B. #3			7050	4875		
T.P	5222	8098	9052	2873		
P.B. #5-A			7327	0768		
T.P.	2385	6518	3962	4133		
T.P	4837	8265	3090	3428		
P.B. #6-A	8110	8460	7915	0350		
T.P.	9655	14625	3490	4970		
P.B. #7			2838	11787		
T.P	2862	9737	7750	6875		
T.P.	4558	10572	3723	6014		
P.B.-8			2592	7980	EL = 7.994	

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STATION	B. S.	H. I.	F. S.	ELEV.		
					11-7-58 P. B. LANDSLIDE LINE 60 (UPPER CRENSHAW)	
B.M 50-9	9907	100 [illegible]		[illegible] 403	B.M. 50-9 ADJ. EL= [illegible]	
T.P.	0274	999 739	9845	[illegible] 465		
T.P.	0523	989 559	10 703	989 032		
T.P.	0612	980 128	10 043	[illegible]		
T.P.	0478	968 678	11 [illegible]	[illegible] 200		
T.P.	0595	958 280	10 993	957 685		
T.B.M. #11	1550	948 710	[illegible]	947 240		
T.P.	0880	940 768	8902	[illegible]		
[illegible] Z			[illegible]	[illegible]		
T.P.	0576	931 210	10 134	930 634		
T.P.	0812	922 280	9742	921 468		
T.P.	0533	[illegible] 442	11 371	910 909		

Profile Notes Red. ____ Plotted ____ Job No. ____ Division No. ____ F. B. ____ Pg. 217
No. ____ Date ____ Date ____ Survey of ____
X-Sec. Notes Chkd. ____ Checked ____ Survey by ____ Notes ____ Date ____
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson

76298 S & E #307—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.		
		911 442				
T.P.	0699	901 455	10 683	900 757		
T.P.	0344	891 [illegible]	11 51[illegible]	88 [illegible]		
T.P.	0640	879 687	[illegible]	87 [illegible]		
T.P.	0700	868 467	11 920	86 7767		
B.M. 50-1.0	3705	861 839	10 333	858 134		
T.P.	2192	855 400	8 625	853 214		
T.P.	0637	844 [illegible]	11 [illegible]	8 [illegible]		
T.P.	0292	833 [illegible]	[illegible]	[illegible]		
T.P.	0238	822 014	11 553	821 774		
T.P.	0346	[illegible]	11 [illegible]	81 [illegible]		
T.P.	0322	799 921	[illegible]	[illegible]		
Y- 4			4 [illegible]	795 184		
T.P.	0248	788 [illegible]	11 724	788 197		
T.B.M. #12			[illegible]	[illegible]		
T.P.	0342	781 24[illegible]	7 [illegible]	780 8[illegible]		
T.P.	0322	771 [illegible]	10 [illegible]	771 172		
T.P.	0628	761 41[illegible]	10 709	760 787		
T.P.	0271	750 21[illegible]	11 39[illegible]	7[illegible]		
T.P.	0867	739 724	11 [illegible]	738 857		
T.P.	0911	729 132	11 563	728 221		

F. B. 2318 Pg. 218 Job No. 0024.64 Division No. 10 Notes Red. Plotted Profile
Survey of [illegible] Date Date No. X-Sec.
Survey by [illegible] Notes [illegible] Notes Chkd. Checked
Indexed [illegible] Date Date No.

76298 S & E #307—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.		
		729 132				
T.P.	0543	717 786	[illegible]	717 243		
T.P.	1054	707 143	11 697	706 089		
T.P.	0913	696 436	11 650	695 493		
T.P.	0502	685 406	11 532	684 904		
T.O.M. # 13	0275	676 227	9 454	675 952		
T.P.	0813	669 005	8 035	668 192		
T.P.	1287	659 156	11 136	657 869		
B.M. 50-11			11 630	647 526	B.M. 50-11	EL = 647 507
				END	OF RUN	LENGTH 1 MILE.
					11-10-58	"P-" LINE
B.M. 34-18	1870	170 552		168 682	B.M. 34-18	EL = 168.682
	2317	162 577	10 292	160 260		
STA P-3	6361	164 411	4527	158 050		
T.P.	6239	166 681	3 969	160 442		
T.P.	6351	168 619	4 413	162 268		
STA. P-2			5 195	163 424		
T.P.	[illegible]	171 425	2 993	165 626		
T.O.M. #31			4355	167 070	T.O.M. #31	EL = 167.070

Profile Notes Red. ____ Plotted ____ Job No. ____ Division No. ____ F. B. ____ PG. 17
No. ____ Date ____ Date ____ Survey of ____
X-Sec. Notes Chkd. ____ Checked ____ Survey by ____ Notes ____ Date ____
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ C. Johnson

76298 S & E #307—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.	P.B. LANDSLIDE 12-5-58, Upper Creashaw
B.M. #50-9	11 902	1011305		999.403	B.M. #50-9 El= 999.403
T.P.	0714	1000 178	11 841	999464	
T.P.	0417	989 453	11 142	989 036	
T.P.	0297	979 813	9 437	979 514	
T.P.	0341	968 538	11 616	968 197	
T.P.	[illegible]	958 [illegible]	[illegible]	[illegible]	
[illegible]	1939	949 178	[illegible]	[illegible]	
T.P.	0972	940 567	9 293	931 885	
[illegible]			5 444	935 413	
T.P.	1208	931 838	[illegible]	930 [illegible]	
T.P.	1191	922 655	10 374	921 464	
T.P.	[illegible]	911 [illegible]	11 748	910 [illegible]	
T.P.	0872	901 629	[illegible]	900 757	
T.P.	0746	890 689	11 687	889 942	
T.P.	0611	879 654	[illegible]	[illegible]	
T.P.	0788	868 552	11 893	867 764	
B.M. 50-10	[illegible]	862 [illegible]	10 416	858 136	
T.P.	1340	854 [illegible]	[illegible]	853 218	
T.P.	0857	844 580	10 807	843 721	
T.P.	0280	833 324	11 536	833 044	
T.P.	0293	822 432	11 185	822 139	

Profile Notes Red. ____ Plotted ____ Job No. [illegible] Division No. 10 F. B. [illegible] Pg. [illegible]

No. ____ Date ____ Date ____ Survey of P.B. Land Slide

X-Sec. Notes Chkd. ____ Checked C. R. GOSS Survey by [illegible] Notes [illegible] Date [illegible]

No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson Date 12-12-58

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F. B. 2318 Pg. 222 Job No. 00-21.04 Division No. 16 Notes Red Date Notes Chkd. Date Notes Date
Survey of Profile No. X-Sec. No.
Survey by C. Johnson Plotted Date Checked C. R. GOSS Date
Indexed

STATION	B. S.	H. I.	F. S.	ELEV.		
		822 43				
T.P.	1315	811 02	1.704	810 52		
T.P.	0587	801 45	1.059	800 53		
SHA Y- 4			6.662	795 19		
T.P.	1.886	790 77	2.573	790 11		
T.P.	3463	785 21	11.317	779 40		
T.B.M. 50-11			5.261	777 15		
T.P.	2.824	777 35	10.713	774 79		
T.P.	0445	771 62	6.208	771 19		
T.P.	0.385	771 10	10.531	760 79		
T.P.	0431	760 45	11.102	750 03		
T.P.	0.201	754 16	11.515	743 65		
T.P.	0.232	728 41	26.432	728 22		
T.P.	5.288	717 97	11.167	717 29		
T.P.	0.703	707 92	11.352	706 22		
T.P.	0564	696 60	11.453	696 15		
T.P.	0.227	685 14	11.113	685 03		
T.B.M. 50-11	0.813	676 99	9.254	675.86		
T.P.	0.741	665 86	8.572	665 12		
T.P.	0.521	658 38	11.903	657 80		
B.M. 50-11			10.292	647 46	B.M. 50-11 EL = 647.509	

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STATION	B. S.	H. I.	F. S.	ELEV.	P.B. LANDSLIDE LINE #2 12-8-58
34-15A B.M.	2602	233589		230987	B.M. 34-15A EL = 230.987
T.P.	4054	232410	5261	228328	
T.P.	3451	230276	5585	226825	
T.P.	3180	227538	5117	224358	
T.P.	2471	225542	6462	221071	
T.P.	2515	225037	7543	219774	
T.P.	2629	225273	7768	219411	
T.P.	3947	226578	5624	220631	
B.M. 50-13	3431	224942	5939	221511	
T.P.	11493	224775	5103	220282	
T.P.	9529	225872	7404	219437	
T.P.	11635	226729	07717	225099	
T.P.	11539	247736	03709	236027	
T.P.	11475	226768	22557	245475	
T.P.	12203	226034	01734	236034	
T.P.	11634	278164	07933	237131	
T.P.	11814	289076	00963	277202	
T.P.	11586	300324	03553	265743	
T.P.	11815	307675	24771	277858	
T.P.	9345	314133	00863	303810	
SHIELDS			3795	310338	

Profile Notes Red. Plotted Job No. 0021-63 Division No. 10 F. B. Pg. 223
No. X-Sec. Date Date Survey of PARKGROUND BLVD. LANDSLIDE
No. Notes Chkd. Checked C. R. GOSS Survey by LIND Notes V.H. Date 12-8-58
Date Date Map No. Index R. C. Johnson 12-12-58

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.		
SHIELDS	8311	318 649		310 338		
T.P.	3448	322 685	4412	314237		
G-1	4928	320662	6951	315734		
T.P.	11029	329777	1914	318748		
A-4			7555	322222		
A-3	8623	333132	5268	324509		
T.P.	10168	342092	1208	331924		
T.P.	10916	352556	0452	341640		
T.P.	11633	363965	0224	352332		
RADIAL 1	3450	365061	2354	361611		
T.P.	0254	354547	10768	354293		
B.M. 50-12			10835	343712		
T.P.	11823	365827	0543	354004		
T.P.	11224	376674	0377	365450		
T.P.	11878	388142	0410	376264		
D-2			7057	381035		
T.P.	11430	399242	0330	387812		
T.P.	11474	410531	0185	399057		
T.P.	11221	421163	0587	409942		
T.P.	11507	432247	0423	420740		
T.P.			0732	431515		

F. B. 2318 Pg. 224 Job No. Division No. 10 Notes Red Plotted Profile
Survey of P.B. LANDSLIDE Date 12-8-58 Date No.
Survey by LIND Notes V. ANDERSON Notes Chkd. Checked C. R. GOSS X-Sec.
Indexed A. C. Johnson Date Date No.

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Profile Notes Red. Plotted Job No. Division No.
X-Sec. Date Date Survey of
Notes Chkd. Checked C. R. COSS Survey by Notes Date
Date Date Map No. Index

STATION	B. S.	H. I.	F. S.	ELEV.		
T.P.	5171	436 680		421 545		
C-1	0637	430268	7[illegible]	422571		
T.P.	1422	421 676	9954	420 254		
T.P.	4750	411 045	7381	414 295		
B-1			5178	413 867		
T.P.	2750	416 [illegible]	6117	413 943		
B-1-B T.P.			1537	414 313		
	10456	426 035	11100	415 571		
T.P.	11652	430 068	5679	422 356		
T.P.	11216	414 906	10378	413 630		
B-1-C	11835	[illegible]	2502	442 341		
T.P.	11226	467 [illegible]	[illegible]	[illegible]		
T.P.	11571	411 333	1925	[illegible]		
B-1-D			1876	470 451	B-1-D EL. 470.475	
					LINE #1	12-8-58
5-1-D	2922	473 397		470 475	B-1-D EL. 470.475	
T.P.	2843	465 025	11215	462 182		
T.P.	1730	455 694	11061	453 964		
T.P.	2454	447 181	10767	444 727		
T.P.	0344	440 272	7253	439 928		
T.P.			10852	429 429		

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

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STATION	B. S.	H. I.	F. S.	ELEV.		
T.P	0397	429817		429420		
T.P.	0715	418993	11539	418278		
T.P	4709	412433	11269	407724		
T.P	3982	410397	6023	406410		
T.P	4196	408244	6342	404046		
P.B. #9	4294	408425	4113	404131		
T.P	6517	411033	3909	404516		
T.P	6766	413692	4107	402926		
P.I. #5			5196	408496		
T.P	6324	415867	4159	409533		
T.P.	1986	413530	4322	411544		
T.O.M. #30	1093	406402	8221	405309		
T.P	5768	405243	6927	399475		
T.P	6227	407868	3602	401641		
P.I. #4	6576	410656	3788	404080		
T.P	10657	421085	3228	410428		
T.P	6468	425268	2285	418800		
T.P	5975	426152	5091	420177		
T.P	5859	426715	5296	420856		
R.M. #1			5078	421637		
G-7			5976	420739		

F. B. 2318 PG. 226 Job No. 0021.64 Division No. 10 Notes Red. Plotted Profile
Survey of PORT. BEND LANDSLIDE Date 12-8-58 Date No.
Survey by LIND Notes V. ANDERSON Notes Chkd. Checked C. R. GOSS X-Sec.
Indexed A. C. Johnson Date Date Date No.

76L-298 S & E #307—1-56

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
H.I.		426715				
R.M. #2			4959	421754		
T.P.	1124	416531	11308	415407		
T.P.	2767	409629	[illegible]	406862		
T.P.	0566	404415	5780	403847		
T.P.	0376	393741	11050	373365		
T.P.	1220	[illegible]	11363	382378		
T.P.	1617	[illegible]	6549	377049		
P.I. #3			5757	[illegible]		
T.P.	0956	368128	[illegible]	[illegible]		
T.P.	0579	357659	[illegible]	357080		
T.P.	0209	[illegible]	11532	[illegible]		
P.I. #2			[illegible]	[illegible]		
P.I. #1	1232	336756	[illegible]	335526 *		
	BEGIN SIDE LINE					
T.P.	0302	326664	10416	[illegible]		
T.P.	1028	316771	[illegible]	315751		
T.P.	0554	305616	[illegible]	305062		
T.P.	0912	295207	11321	294295		
T.P.	9161	294850	9518	285687		
S.P. H1265 H-7A ECC.1			6696	288154		

Profile Notes Red. ____ Plotted ____ Job No. [illegible] Division No. 10 F. B. [illegible] Pg. [illegible]
No. ____ Date ____ Date ____ Survey of [illegible]
X-Sec. Notes Chkd. ____ Checked C. R. GOSS Survey by [illegible] Notes [illegible] Date [illegible]
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson

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STATION	B. S.	H. I.	F. S.	ELEV.		
H.I.		294 850				
S.P. HILLS H-7A			6470	288 380		
	END SIDE LINE					
P.I. #1	0762	336 288		[illegible]	*	
T.P	1178	325 565	11 881	[illegible]		
T.P.	0665	[illegible]	[illegible]	31 3[illegible]		
T.P	0674	303 523	11 578	302 841		
T.P	0488	[illegible]	11 93[illegible]	[illegible]		
B.C.			1035	291 [illegible]		
T.P.	1731	283 380	[illegible]431	281 649		
P.B #10	1592	281 140	383[illegible]	[illegible]		
T.P.	0785	270 104	11 821	269 319		
T.P.	0193	259 480	10 817	259 287		
T.P	0329	248 965	10 844	248 63[illegible]		
T.P.	0317	237 858	11 42[illegible]	237 541		
T.P.	0694	227 250	11302	226 556		
T.P	0755	217 846	10159	217 091		
W.F. #1			7377	210 46[illegible]		
T.P.	0503	207055	11294	206552		
T.P.	0222	196426	10851	196204		
T.P.			11788	184638		

F. B. 2318 Pg. 228 Job No. 0021.64 Division No. 10 Notes Red. Plotted Profile
Survey of PORT BEND LANDSLIDE Date 12-8-58 Date No.
Survey by LIND Notes V. ANDERSON Notes Chkd. Checked C. R. GOSS X-Sec.
Indexed K. C. Johnson Date Date Date No.

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.		
T.P.	0479	185 117		184638		
T.P.	0345	173 709	11 753	173364		
T.B.M. #31			6669	167045	T.B.M. #31 EL = 167.050	
					P.B. LANDSLIDE - LINE #3 12-9-58	
T.B.M. 34-15A	0419	231 406		230987	T.B.M. 34-15A EL = 230.987	
T.P.	1086	221 838	10654	220752		
T.P.	0647	213 182	9303	212535		
K-13	2216	203 980	11 413	201764		
T.P.	0593	193 941	10 637	193348		
K-12			1796	192145		
T.P.	0716	184 016	10 641	183300		
K-11			2629	181387		
K-10A	0333	173 146	11 258	172758		
K-10B			3 444	169702		
K-10			5 610	167536		
K-9A	5717	169 240	9623	163522		
K-9B			7288	161952		
K-9			9894	159346		

Profile Notes Red. ____ Plotted ____ Job No. 002164 Division No. 10 F. B. 7318 Pg. 229
No. ____ Date ____ Date ____ Survey of POST LAND LANDSLIDE
X-Sec. Notes Chkd. ____ Checked C. R. GOSS Survey by ____ Notes ____ Date 12-9-58
No. ____ Date ____ Date ____ Map No. ____ Indexed C. JOHNSON Date ____

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STATION	B. S.	H. I.	F. S.	ELEV.		
H.I.		169240				
K-8A	0873	158737	11376	157864		
K-8B.			3193	155544		
T.P.	1190	150660	9267	149470		
T.P.	0287	139208	11237	138921		
T.P.	10338	138727	10819	128389	*	
	BEGIN SIDE LINE					
K-5			2675	136052		
	END SIDE LINE					
T.P.	0594	128983		128389	*	
T.P.	0754	118519	11218	117765		
W-3			7775	110744		
W-4			9468	109051		
T.P.	0642	107998	11163	107356		
K-5AUX.			6212	101783		
T.P.	0516	97643	11471	96527		
T.P.	0295	86521	10817	86226		
K-4			3598	82923		
K-A			7133	79388		
T.P.	0496	76409	10608	75913		
K-A B			3802	72607		

F. S. 2318 Pg. 230 Job No. 0021.64 Division No. 10 Notes Red. Plotted Profile
Survey of PORT. BEND LANDSLIDE Date 12-9-58 Date C. R. GOSS No. X-Sec.
Survey by LIND Notes V. ANDERSON Notes Chkd. Checked No.
Indexed C. Johnson Date Date Date No.

76L-298 S & E #307—1-56

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STATION	B. S.	H. I.	F. S.	ELEV.		
H.I.		76 409				
T.P.	1153	75 864	8625	67713		
K-B			5953	69912		
T.B.M.28	0934	60 622	9177	59 688		
K-C			3871	56 751		
K-3A			4514	56 608		
T.P.	0207	52 553	6276	52346		
T.P.	1518	43 857	10214	42339		
K-E					COVERED BY ROAD GRADING	
T.B.M. 27AUX2	1572	56 173	8756	55 101		
T.P.	0581	24921	11833	24340		
T.P.	4771	22 710	7182	17731		
T.B.M. 26-B			7110	15600		
T.B.M. 26-C			5027	17683		
T.B.M.26	6567	22 844	6433	16277		
T.B.M. 26-D			6130	16714		
T.B.M. 26-E			3130	19714		
T.B.M. 26-F			3527	19247		
T.P.	3957	19 471	11317	15525		
T.P.	3320	14693	8106	11373	*	
	BEGIN SIDE LINE					

Profile Notes Red. Plotted Job No. Division No. 10
No. X-Sec. Date Date Survey of F. B.
Date Notes Chkd. Date Checked C. R. GOSS Survey by Notes Date
Date Map No. Index C. Johnson Date Pg.

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F. B. 2318 Pg. 232 — Job No 6021.64 — Division No. 10 — Notes Red. — Plotted — Profile
Survey of PORT HUENEME LANDSLIDE — Date 12-9-58 — Date — C. R. GOSS — No. — X-Sec.
Survey by LAND — Notes LANDERSON — Notes Chkd. — Checked — No.
Indexed K. C. Johnson — Date — Date — Date

STATION	B. S.	H. I.	F. S.	ELEV.	
H. I.		14693			
P.B. #1			7077	7616	
		END SIDE LINE			
T.P.	6588	17701		11373	X
T.P.	2312	18226	2017	15914	
P.B. #2A			5917	14309	
T.P.	1696	17771	10145	8081	
P.B. #3	2244	17137	7884	4813	
T.P.	5150	19184	3103	4034	
P.B. #5A			8404	10780	
T.P.	4632	19964	3851	5333	
T.P.	4300	17854	6480	3485	
T.P.	5955	17393	6217	11438	
P.B. #6A			7030	10363	
T.P.	9545	13423	3515	3878	
P.B. #7			1620	11803	
T.P.	7014	11411	10488	3923	
T.P.	4814	8517	6320	3622	
T.P.	7911	12265	3763	4754	
P.B. #8			4673	7592	P.B. #8 EL = 7.994

76L298 307 8-53

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12-10-58

STATION	B. S.	H. I.	F. S.	ELEV.	P.B. LANDSLIDE-LINES 5 & 4	
B.M. B-1D	0643	471118		470475	B.M. B-1D EL=	470.475
T.P.	1892	462691	10319	460799		
T.P.	1272	452774	11189	451502		
B-1C	2231	444557	10448	442326		
T.P.	0534	434151	10940	433617		
T.P.	4301	426645	11807	422344		
T.P.	0698	415348	11995	414650		
P.T. #1			0737	414611		
T.P.	0622	406388	9582	405766		
P.T. #2 AUX	0239	395863	10764	395624	*	
	BEGIN SIDE LINE					
S.B. #1	0413	389893	6383	389480		
S.B. #2			6674	383219		
T.P.	0574	379734	10733	379160		
T.P.	0813	369042	11505	368229		
T.P.	1944	359422	11564	357478		
S.B. #3			6588	352834		
	END SIDE LINE					
P.T. #2 AUX	0526	396150		395624	*	
P.T. #3	0499	385576	11073	385077		
T.P.			11261	374315		

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 00 21 64 Division No. 10 F.B. 2318 PG. 233
X-Sec. No. ____ Date ____ Date ____ Survey of PORT BEND LANDSLIDE
Notes Chkd. ____ Checked C. R. GOSS Survey by LIND Notes V.A. Date 12-10-58
Date ____ Date ____ Map No. ____ Indexed C. Johnson Date 12-12-58

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F. B. 2318 Pg. 234 Job No. 002.1.64 Division No. 10 Notes Red. Plotted
Survey of PORT. BEND LANDSLIDE Date 12-10-58 Date X-Sec. No.
Survey by LIND Notes V. ANDERSON Notes Chkd. Checked C. R. GOSS
Indexed K. C. Johnson Date Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.		
T.P	1178	375493		374315		
P.T. #4	0466	369507	6457	369041	*	
	BEGIN SIDE LINE					
T.P.	0483	359110	10874	358633		
T.P.	0248	347985	11379	347737		
T.P	0421	338587	9819	338166		
H-2	0757	329537	9807	328795		
T.P.	1825	320923	10453	317098		
H-4			9112	311811		
	END SIDE LINE					
	BEGIN SIDE LINE					
P.T. #4	11615	380650		369041	*	
T.P	9065	388714	10071	379649		
T.P	5575	391746	2543	386171		
T.P.	7707	396766	2687	389059		
W. FIX			2973	393793		
	END SIDE LINE					
P.T. #4	0360	369401		369041	*	
T.P	0515	358803	11113	358288		
T.P	0709	348876	10636	348167		
P.T. #5			8835	340041		
T.P.			11264	337612		

76298 S & E #307—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.		
T.P.	0369	337 981		337612		
T.P.	1521	328 119	11383	326598		
T.P.	1636	320 328	9477	318642		
P.T. 6-AUX-2	6450	318 804	7974	312354	*	
	BEGIN SIDE LINE					
T.P.	6091	320 164	4731	314073		
I-#1			2534	317633		
T.P.	0413	310 038	10559	309625		
T.P.	0384	299 705	10717	299321		
T.P.	6874	295 215	11364	283341		
I-#2			9060	286 155		
I-#3			11726	283489		
T.P.	11185	302 558	3842	291373		
BLAKESLEY			0215	302343		
	END SIDE LINE					
P.T. 6-AUX-2	0329	312 683		312354	*	
B.M.-L-1			4607	308076	L-1	
T.P.	2554	303884	11353	301330		
T.P.	0743	297 563	7064	296 820		
	0561	287272	10852	286711		
			9457	277815		

Profile Notes Red. ____ Plotted ____ Job No. 60 21 64 Division No. 10 F. B. 2318 Pg. 235
No. ____ Date ____ Date ____ Survey of PORT BEND LANDSLIDE
X-Sec. Notes Chkd. ____ Checked C. R. GOSS Survey by LIND Notes V.H. Date 12-10-58
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson Date ____

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F. B. 2318 Pg. 236 | Job No. 0021.64 | Division No. 10 | Notes Red. | Plotted | Profile
Survey of PORT HUENEME LANDSLIDE | Date 12-10-58 | No. | X-Sec.
Survey by LIND | Notes K. ANDERSON | Notes Chkd. | Checked C. R. GOSS
Indexed K. C. Johnson | Date | Date | No.

STATION	B. S.	H. I.	F. S.	ELEV.		
T. P.	0330	278 145		277 815		
P.T. # 7	0603	271 014	7734	270 411		
T.P.	0266	260582	10698	260314		
T.P.	0573	250248	10907	249675		
T.P.	0376	238 981	11643	238605		
T.P.	0386	227947	11420	227561		
T.P.	0838	217943	10843	217105		
T.P.	0665	207 766	10842	207 101		
B.M.-C	12005	215950	3815	203 951	*	
		BEGIN SIDE LINE				
K-1			2543	213 413		
		END SIDE LINE				
BM-C	0267	204 218		203 951	*	
T.P.	2157	195935	10440	193778		
BM 34-17A	5817	199283	2469	193466		
T.P.	3121	198144	4260	195023		
T.P.	8372	198014	8502	189642		
T.P.	5940	202357	1597	196417	*	
		BEGIN SIDE LINE				
T.P.	0711	191863	11205	191 152		
T.P.			11225	180638		

76L298 S & E #307 9-54

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STATION	B. S.	H. I.	F. S.	ELEV.
	1052	181690		180 638
T. P.	1163	170931	11922	169768
T. P	0801	162231	9501	161430
T. P.	0988	151406	11813	150418
T. P	1527	141602	11331	140075
T. P.	1588	133642	9548	132054
T.B.M. #25			8712	124930
	END SIDELINE			
	4866	201283		196417*
T. P.	11498	206841	5940	195343
B.M- D			8272	198569
T. P.	10840	216570	1111	205730*
	BEGIN SIDELINE			
T. P.	11820	227715	0675	215895
T. P	11753	239092	0376	227339
J-1A			4180	234912
	END SIDELINE			
	10636	216366		205730*
J-1 T. P.			9055	207311
	11899	226016	2249	214117
J-3			8152	217864

Profile Notes Red. Plotted Job No. Division No. 10
No. Date Date Survey of
X-Sec. Notes Chkd. Checked C. R. COSS Survey by Notes Ck. Date
No. Date Date Map No. Indexed Date

F. B. 3313 Pg. 37

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STATION	B. S.	H. I.	F. S.	ELEV.		
	7455	225 319		217 864		
J-4			5724	219 595		
T.P.	1031	215 192	11158	214 161		
RADIAL 2			11230	203 962		
T.P.	0405	208 022	7575	207 617		
J-5			7027	200995		
T.P.	5171	206 543	6650	201 372		
T.B.M - #15			8024	198 519		
T.P	6688	209 960	3271	203 272		
BM 50-13	4753	212750	1963	207 997		
T.P.	6318	215967	3101	209 649		
T.P.	7152	220 092	3027	212940		
T.P.	6998	224 670	2420	217672		
T.P.	5812	228 147	2335	222335		
T.P.	5598	230 347	3398	224 749		
T.P	5648	232488	3507	226840		
T.P.	5890	234 238	4140	228 348		
BM 34-15A			3235	231003	BM 34-15A EL 230.987	

F.B. 2318 Pg. 238 Job No. 002164 Division No. 10 Notes Red. Plotted Profile
Survey of PORTUGUESE BEND LANDSLIDE Date Date No. X-Sec.
Survey by LIND Notes T.C.P. Notes Chkd. Checked C. R. GOSS
Indexed C. Johnson Date Date No.

76L298 S & E #307 9-54

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12-10-58

STATION	B. S.	H. I.	F. S.	ELEV.	P. B. LANDSLIDE	"P" LINE
T.B.M #31	3633	170 683		167 050		
T.P	3519	167837	6365	164 318		
P-2			4440	163397		
T.P.	4178	166423	5592	162245		
T.P.	3780	164 203	6000	160 423		
P-3	4282	162310	6175	158028		
T.P.	11596	171835	2071	160239		
BM. 34-18			3177	168658	BM 34-18 EL. 168.682	

Profile Notes Red. ____ Plotted ____ Job No. 002164 Division No. 10 F. B. 2318 Pg. 239
No. ____ Date ____ Date ____ Survey of PORTUGUESE BEND LANDSLIDE
X-Sec. Notes Chkd. ____ Checked C. R. GOSS Survey by LIND Notes T.C.P. Date 12-10-58
No. ____ Date ____ Date ____ Map No. ____ Indexed C. John Date

76298 S & E #307—7-55

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	F.B. LAND SURVEY LINE #7 12-28-58
B-1D	2780	473255		470475	B-1D EL. 470.475
T. P.	0430	461982	11703	461552	
T. P.	0542	451628	10896	451086	
T. P.	0566	440453	11741	439887	
T. P.	0795	430210	11038	429415	
T. P.	1523	419797	11936	418274	
T. P.	4039	412355	11481	408316	
T. P.	4164	410537	5982	406373	
T. P.	3907	408082	6362	404175	
P. B. #9	4257	408385	[illegible]	404123	
T. P.	6074	410386	4073	404312	
T. P.	6350	413668	3068	407318	
P.I. #5					UNABLE TO LOCATE - ROAD RESURFACED
P.I. #5A			5240	408428	SET SPK & TIN FLUSH
T. P.	6379	416284	3763	409905	
T. P.	0333	409669	6948	409336	
T.B.M. #30			4360	405309	
T. P.	4261	404692	9238	400431	
P.I. T. P. 1	6571	407803	3460	401232	
					UNABLE TO LOCATE - ROAD RESURFACED
P.I. #4A			3854	403949	SET SPK & TIN FLUSH

Profile Notes Red. Plotted Job No. CC 2164 Division No. 10 F. B. 2373 Pg. 54
No. Date Date Survey of PARCEL MAP NO. 2164 BEND LAND SURVEY 12-28-58
X-Sec. Notes Chkd. Checked C. R. COSS Survey by L/ND Note T.C.P. Date
No. Date Date Map No. Indexed C. Johnson Date 1-23-59

76298 S & E #307—7-55

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F. B. 2318 Pg. 242 | Job No. 002164 | Division No. 10 | Notes Red. | Date | Plotted | Date | No.
Survey of PORTUGUESE BEND LANDSLIDE | Notes Chkd. | Date | Checked C. R. GOSS | Date | X-Sec. | No.
Survey by LAND | Notes T.C.P.
Indexed C. Johnson | Date

STATION	B. S.	H. I.	F. S.	ELEV.		
	6949	410898		403947		
T. P.	11450	419218	3130	407768		
T. P.	7502	425323	1397	417821		
T. P.	5751	425854	5220	420103		
T. P.	4043	426327	3570	422284		
R.M.-#1			4698	421629	✓	
S.P. HILLS G-7			5596	420731	✓	
R.M.-#2			4578	421749	✓	
T. P.	1056	416421	10962	415365		
T. P.	1328	406485	11264	405157		
T. P.	0780	396637	10628	395857		
T. P.	1248	386840	11045	385592		
T. P.	3475	381655	8660	378180		
P.I.#3	0857	373784	8728	372927	✓	
T. P.	1527	363423	11888	361896		
T. P.	0680	353563	10540	352883		
T. P.	2337	344897	11003	342560		
P.I.#2					UNABLE TO LOCATE - ROAD RE-SURFACED	
P.I.#2A			4745	340152	SET SPK & T/N FLUSH	
P.I.#1			9346	335551	X	

76298 S & E #307—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.		
P.I. #1	1232	336 783		335551		
T.P.		BEGIN SIDELINE				
T.P.	0322	326 689	10416	326367		
T.P.	1028	316 804	10913	315776		
T.P.	0554	305 641	11717	305087		
T.P.	0912	295 232	11321	294320		
T.P.	9161	294 875	9518	285714		
HTA ECC. 1			6696	288179		
SP. Hills H. TA.			6470	288405		
		END SIDELINE				
	1201	336 752		335551		
T.P.	1110	327 340	10522	326239		
T.P.	0382	317 133	10589	316751		
T.P.	0460	306 653	10940	306193		
T.P.	0751	296 937	10467	296 186		
B.C. T.P.	0896	284 733	11101	285836		
B.B. #10	1202	280 770	7164	279568		

Profile Notes Red. Plotted Job No. Division No. 10
No. Date Date Survey of
X-Sec. Notes Chkd. Checked C. R. COSS Survey by Notes Date
No. Date Date Map No. Indexed C. Job Date
F. B. 2318 Pg. 24

76298 S & E #307—7-55

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F. B. 2718 Pg. 244 | Job No. 802164 Division No. 10 Notes Red. Plotted
Survey of PORT. BEND LANDSLIDE Date 12-22-58 Date C. R. GOSS No. X-Sec.
Survey by LIND Notes T.C. PETERSON Notes Chkd. Checked No.
Indexed Date Date Date

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
H.I.		280 770 ✓				
T.P.	0 837	270 175 ✓	11 432	269 338 ✓		
T.P.	0558	259867 ✓	10864	259311 ✓		
T.P.	0594	249253 ✓	11210	248659 ✓		
T.P.	0827	239582 ✓	10498	238755 ✓		
T.P.	0943	228 961 ✓	11564	228 018 ✓		
T.P.	0338	217471 ✓	11828	217133 ✓		
✓ W.F. #1			6961	210510 ✓	✓	
T.P.	0533	207115 ✓	10889	206582 ✓		
T.P.	0270	196505 ✓	10880	196235 ✓		
T.P.	0425	185082 ✓	11848	184657 ✓		
T.P.	0962	174349 ✓	11695	173387 ✓	✓	
T.B.M. #31			7278	167071 ✓	T.B.M. #31 EL. 167.050	
		END OF RUN				

76298 S & E #307—7-55

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1-12-59

STATION	B. S.	H. I.	F. S.	ELEV.	P- BEND LAND SLIDE	LINE # 2
BM-34-15	3 2 2 3	2 3 4 2 1 0		2 3 0 1 6 7	BM 34-15 # 3 EL = 230.167	
T.P.	1 5 8 2	2 3 0 8 1 3	0 1 0 7	2 2 9 4 3 1		
T.P.	2 7 2 4	2 3 0 [illegible]	0 4 3 1	2 2 [illegible]		
T.P.	2 [illegible]	[illegible]	[illegible]	[illegible]		
T.P.	[illegible]	[illegible]	[illegible]	[illegible]		
T.P.	2 3 6 0	2 2 0 9 8 3	[illegible]	[illegible]		
T.P.	3 0 5 3	[illegible]	2 4 4 7	[illegible]		
T.P.	3 7 1 7	2 1 0 2 5 0	[illegible]	[illegible]		
BM 3 0 = 13	3 4 3 6	[illegible]	0 2 5 3	[illegible] 0 0 3		
[illegible]	1 7 1 3	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	1 1 2 7	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible] 0 1		
[illegible]	1 1 5 3 4	[illegible]	[illegible]	[illegible] 3 2 4		
[illegible]	1 1 6 1 5	2 7 0 4 0 2	[illegible]	[illegible] 7 6		
T.P.	1 1 2 1 3	2 7 9 0 7 3	3 2 0 7	[illegible] 1 2 0		
T.P.	1 1 2 7 1	[illegible]	1 6 2 0	2 1 1 2 1 1		
T.P.	1 1 5 9 0	2 9 7 5 7 1	2 1 2 1	2 8 5 9 8 1		
T.P.	[illegible]	3 0 7 5 8 7	1 5 1 8	2 7 5 8 8 9		
[illegible]	7 4 5 2	3 1 4 7 0 5	0 3 3 4	3 0 7 2 5 3		
T.P.			5 0 3 9	3 0 9 6 6 1		

Profile Notes Red Plotted Job No. Division No. F. B. Pg.
No. Date Date Survey of
X-Sec. Notes Chkd. Checked C. R. GOSS Survey by
No. Date Date Map No. Index C. Johnson Date
Notes Date

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STATION	B. S.	H. I.	F. S.	ELEV.		
	5321	314 988		301 667		
SHIELDS	7958	318 296	4650	310 338		
T. P.	8895	323 665	3526	314 770		
G-1	5712	321 447	7930	315 735		
T. P.	10991	329 741	2697	317 750		
A-4	4252	326 466	7537	[illegible]		
A-3	9101	333 470	2097	324 369		
T. P.	11828	343 606	1692	331 778		
T. P.	11871	353 394	2083	[illegible]		
T. P.	11533	363 763	[illegible]	[illegible]		
RADIAL 1	4587	366 077	2273	361 410		
T. P.	1300	[illegible]	11865	354 212		
B.M. 50-12			11991	[illegible]		
T. P.	[illegible]	[illegible]	[illegible]	[illegible]		
T. P.	11960	377 053	1591	365 093		
T. P.	10400	386 281	1172	375 881		
D-2			5660	380 621		
T. P.	[illegible]	397 256	0561	[illegible]		
T. P.	11550	408 445	[illegible]	[illegible]		
T. P.	11773	418 920	1298	407 147		
T. P.			0245	[illegible]		

F. B. 2318 PG. 246 Job No. 0021.04 Division No. 10 Notes Red. Plotted
Survey of Pontiac Pond Lined Date Date No.
Survey by [illegible] Notes T.C.P. Notes Chkd. Checked C. R. GOSS X-Sec.
Indexed C. Johnson Date Date Date No.

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STATION	B. S.	H. I.	F. S.	ELEV.		
	7016	425 691		418 675		
T. P.	[illegible]	[illegible]	2 30[illegible]	[illegible]		
T. P.	6047	437426	1447	431 379		
C-1	1545	430 866	8105	429 321		
T. P.	1710	421 691	10 665	419 981		
T. P.	5142	419 068	7765	413 926		
B-1			5545	413 523		
T. P.	4563	418 21[illegible]	5414	413 654		
B-1B			3228	414 9[illegible]		
T. P.	10930	426 362	2785	415 432		
T. P.	11127	433 469	4020	422 312		
T. P.	11470	443 514	1425	4[illegible]		
BM B-1C	11838	454 161	1191	442 323		
T. P.	11226	[illegible]	2666	[illegible]		
T. P.	[illegible]	[illegible]	1925	[illegible]		
BM B-1D			1816	470 4[illegible]	[illegible]	[illegible]
			[illegible]	[illegible]		

Profile No. ____ Notes Red. ____ Plotted ____ Job No. ____ Division No. ____ F. B. ____ Pg. ____

X-Sec. No. ____ Date ____ Date ____ Survey of ____

Notes Chkd. ____ Checked C. R. GOSS Survey by ____ Notes ____ Date ____

Date ____ Date ____ Map No. ____ Indexed C. Johnson Date ____

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STATION	B. S.	H. I.	F. S.	ELEV.	P.B. LANDSLIDE	LINE #3 1-16-59
T.B.M.34-15A	0823	231810		230987	T.B.M. 34-15A EL=	230.987
T.P.	0647	221398	11057	220751		
T.P.	0621	213148	8827	212527		
K-13	2613	204367	11394	201754		
T.P.	0702	194038	11031	193336		
K-12			1907	192131		
T.P.	0803	184058	[illegible]	183285		
K-11			[illegible]	181374		
K-10A	3074	175815	11347	172741		
K-10B			6128	169657		
K-10			8313	167503		
T.P.	3788	168634	10969	164846		
K-9A			5122	163512		
K-9B			6703	161731		
K-9	0568	159895	9307	159327		
K-8A			2054	157841		
K-8B			4374	155521		
T.P.	0313	151078	9130	150765		
T.P.	0239	140320	10797	140281		
T.P.	0831	130486	10865	129655	*	
T.P.			11021	119457	* -	

F. B. 2318 PG. 248 Job No. 0021.64 Division No. 10 Notes Red. Plotted Profile
Survey of Portuguese Bend Landslide Date 1-16-59 Date No.
Survey by Lind Notes Lind Notes Chkd. Checked C. R. GOSS X-Sec.
Indexed C. Johnson Date Date Date No.

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STATION	B. S.	H. I.	F. S.	ELEV.	P. BEND LANDSLIDE	LINE 3 1-16-59
	BEGIN SIDE LINE					
T.P	10445	140100		129655	*	
K-A			4375	136025		
	END SIDE LINE					
T.P.	0323	[illegible]		[illegible]	*	
W-4	4563	113251	[illegible]	108988		
W-3			2536	110715		
K-5 AVX	[illegible]	101982	11476	[illegible]		
	0269	91198	11052	[illegible]		
STA. K-A			8528	82640		
T.P.	0211	80015	11394	79804		
T.P			0932	79083	K-A.	
STA K-A			7710	72305	K-AB	
STA K-AB	0690	70696	10007	70006		
STA K-B			8259	62437		
T.B.M. #28	0685	60257	11125	59571		
K-C			3654	56603		
K-3A			3876	56363		
T.P	0275	52582	7953	52306		
T.P.	3018	45429	10171	42411		
T.B.M. 27AVX2			10353	35076		

Profile Notes Red. ____ Plotted ____ Job No. CC2164 Division No. 10 F. B. 2318 Pg. [illegible]
No. ____ Date ____ Date ____ Survey of POSTUGUESE BEND LANDSLIDE
X-Sec. Notes Chkd. ____ Checked C. R. COSS Survey by LIND Notes V.B.A. Date 1-16-59
No. ____ Date ____ Date ____ Map No. ____ Index C. JOHNSON 1-23-59

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STATION	B. S.	H. I.	F. S.	ELEV.		
TBM 27AUX2	0895	35974		35076		
T.P.	0304	24685	11593	24381		
T.P.	5692	23123	7254	17431		
T.B.M. 26-B			7690	15433		
T.B.M. 26-C			5443	17683		
T.B.M. 26	6731	22938	6916	16207		
TBM 26-D			6270	16668		
TBM 26-E			3025	19913		
TBM 26-A			3478	19460		
T.P.	4064	19758	7244	15694		
T.P	2918	12947	9729	10029	*	
BEGIN		SIDE	LINE			
P.B. #1			5357	7590		
END		SIDE	LINE			
T.P.	6873	16902		10029	*	
T.P.	2185	18633	0454	16448		
P.B.-2A			3988	14645		
T.P.	3228	11614	10247	8386		
P.B.-3			6776	4838		POOR CONDITION
T.P.	8704	9803	10515	1099		
P.B. #5-A			9047	0756		

F. B. 2318 Pg. 250

Job No. 0021.64 Division No. 10 Notes Red. Plotted Profile

Survey of PORTUGUESE BEND LANDSLIDE Date 1-16-59 Date No. X-Sec.

Survey by LIND Notes V.B. ANDERSON Notes Chkd. Checked C. R. GOSS

Indexed C. Johnson Date Date Date No.

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STATION	B. S.	H. I.	F. S.	ELEV.		
H.I.		9803				
T.P.	4913	8821	5895	3908		
T.P.	3862	6078	6605	2216		
P.B. #6-A			5751	0327		
T.P.	11177	13532	3723	2355		
P.B. #6			1770	1762	P.B. #7?	
T.P.	4667	10124	8075	5457		
T.P.	6067	10035	6156	3968		
P.B. #8			2075	7960	P.B. #8 EL = 7.994	

Profile Notes Red. ____ Plotted ____ Job No. 002104 Division No. 10 F. B. 2316 Pg. 257
No. ____ Date ____ Date ____ Survey of PORTUGUESE BEND HANDSLIDE
X-Sec. Notes Chkd. ____ Checked C. R. GOSS Survey by LIND Notes VB 9 Date 1-16-59
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson Date ____

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F. B. 2318 Pg. 252 Job No. 2002.14 Division No. 10 Notes Red. Plotted
Survey of PORTUGUESE BEND LANDSLIDE Date Date No.
Survey by LIND Notes V. G. ANDERSON Notes Chkd. Checked C. R. GOSS
Indexed C. Johnson Date Date Date

Profile X-Sec. No.

UPPER CREEK SHAW

R.B. LANDSLIDE LINE 50 1-16-59

STATION	B. S.	H. I.	F. S.	ELEV.	
B.M. 50-9	11309	1010712		999,403	BM 50-9 EL= 999,403
T.P.	0952	1000414	11250	999462	
T.P.	1385	990422	11377	989037	
T.P.	0377	979895	10904	979518	
T.P.	0741	968941	11695	968200	
T.P.	0276	957966	11251	957690	
T.B.M.# 11	1834	949080	10720	947246	
T.P.	0254	940143	9191	939889	
Z-1			4723	935420	
T.P.	1020	931651	9512	930631	
T.P.	0690	922160	10181	921470	
T.P.	0922	911840	11242	910918	
T.P.	0730	901496	11074	900766	
T.P.	0858	890977	11377	890119	
T.P.	1135	880301	11811	879166	
T.P.	0320	869140	11481	868820	
BM 50-10	3802	861951	10991	858149	
T.P.	0618	851349	11220	850731	
T.P.	0682	840433	11598	839751	
T.P.	0347	829467	11313	829120	
T.P.			11504	817963	

76298 S & E #307—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.		
T. P.	1291	819254		817963		
T. P.	0660	811209	8705	810549		
T. P.	0928	800557	11580	799629		
Y-4			5357	795200		
T. P.	0198	790325	10430	790127		
T. P.	7086	786563	10848	779477		
T.B.M. #12			9380	777183		
T. P.	2424	777487	11500	775063		
T. P.	0530	771737	6280	771207		
T. P.	1118	761933	10922	760815		
T. P.	1038	751100	11871	750062		
T. P.	0620	739849	11871	739229		
T. P.	1570	733647	7772	732077		
T. P.	0645	723080	11212	722435		
T. P.	0742	712345	11477	711603		
T. P.	0668	701819	11194	701151		
T. P.	0683	690709	11793	690026		
T. P.	0672	679531	11850	678859		
T.B.M. #13			3520	676011		
T. P.	0699	669373	10857	668674		
T. P.	0954	658892	11435	657938		
B.M. 50-11			11298	647594	BM 50-11 EL. 647.509	

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 002163 Division No. 10 F. B. 2318 Pg. 253

X-Sec. No. ____ Date ____ Date ____ Survey of [illegible]

Notes Chkd. ____ Checked C. R. GOSS Survey by [illegible] Notes [illegible] Date [illegible]

Date ____ Date ____ Map No. ____ Indexed C. Johnson Date ____

76298 S & E #307—7-55

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LOS ANGELES COUNTY ENGINEER
700 Los Angeles County Engineering Bldg.

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.

F. B. 2318 Pg. 254 Job No. 002.64 Division No. 10 Notes Red. Plotted
Survey of PORTUGUESE BEND LANDSLIDE Date 1-19-59 Notes Chkd. Checked C. R. GOSS
Survey by LIND Notes V. B. ANDERSON Date Date
Indexed C. Johnson Date Date

Profile No. X-Sec. No.

STATION	B. S.	H. I.	F. S.	ELEV.	P.B. LANDSLIDE LINES 5 & 4 1-19-59
STA B-1D	1302	471777		470.475	STA B-1D 470.475
T.P.	0987	461783	10991	460776	
T.P.	2365	453874	10214	451509	
B-1C	1494	445916	11552	441228	
T.P.	0391	434004	10223	433613	
T.P.	3362	425707	11657	422345	
T.P.	1767	417154	10320	415387	
P.T. #1			2.817	414337	
T.P.	0633	406233	11554	405600	
P.T. 2 AUX	1597	397171	10657	395574	+
	BEGIN SIDE LINE				
S.B. #1	0758	396222	7707	388465	
S.B. #2			6977	383245	
T.P.	0726	379903	11039	379183	
T.P.	1018	367818	11103	366800	
S.B. #3	1202	359505	11515	358303	
			6644	352861	SB-3
	END SIDE LINE				
P.T. 2 AUX.	0333	375909		375574	**
P.T. #3	0540	385522	10927	384982	
T.P.			9998	375524	

76298 S & E #307—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.		
T. P.	0413	375737 ✓		375524 ✓		
P.T. #4	0888	369827 ✓	6998	368133 ✓ *		
	BEGIN SIDE LINE					
T. P.	0493	358996 ✓	11524	358503 ✓		
T. P.	0332	347948 ✓	11380	347616 ✓		
T. P.	0329	338356 ✓	9921	338027 ✓		
H-2	0733	329362 ✓	9727	328629 ✓		
T. P.	1628	320618 ✓	10317	318990 ✓		
H-4			8[illegible]	311719 ✓		
	BEGIN SIDE LINE					
P.T. #4	11753	380694 ✓		368937 ✓ *		
T. P.	8261	387932 ✓	1023	379671 ✓		
T. P.	5814	391959 ✓	1787	386145 ✓		
T. P.	7217	396294 ✓	2882	389077 ✓		
W. FIX			2475	393819 ✓		
	END SIDE LINE					
P.T. #4	0656	369595 ✓		368939 ✓ *		
T. P.	0343	358521 ✓	11419	358176 ✓		
T. P.	0917	347984 ✓	11454	347067 ✓		
P. T. #5			8064	339920 ✓		
T. P.	0589	338085 ✓	10488	337496 ✓		

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 0021-64 Division No. 10 F. B. 2[illegible] Pg. 255
Date ____ Date ____ Survey of PORTUGUESE BEND LANDSLIDE
X-Sec. No. ____ Notes Chkd. ____ Checked C. R. GOSS Survey by [illegible] Notes [illegible] Date 1-19-59
Date ____ Date ____ Map No. ____ Indexed C. Johnson Date ____

76298 S & E #307—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.		
H.I.		338 085				
T.P.	0409	327415	11079	327006		
T.P.	2436	318 403	11443	315967		
P.T. #6AUX.2	6467	318 659	6211	312192	*	
	BEGIN SIDE LINE					
T.P.	5166	319619	4206	314453		
I-1			2053	317566		
T.P.	0451	309940	10130	309489		
T.P.	0518	299738	10720	299220		
T.P.	6978	295196	[illegible]	[illegible]		
I-2			9275	285921		
I-3			11867	283329		
T.P.	11268	302389	4015	291181		
BLAKESLEY			0160	302229		
	END SIDE LINE					
P.T. #6AUX.2	0226	312418		312192	*	
B.M.-L			4535	307883		L-1
T.P.	0562	301373	11607	300811		
T.P	0747	291959	10161	291212		
T.P.	0695	281210	11447	280512		
P.T #7	0495	270771	10934	270276		

F. B. 2318 PG. 256 Job No. 0021.64 Division No. 10 Notes Red. Plotted Profile
Survey of PORTUGUESE BEND LANDSLIDE Date 1-19-59 Date C. R. GOSS No. X-Sec.
Survey by LIND Notes V.B. ANDERSON Notes Chkd. Checked Date No.
Indexed C. Johnson Date

76298 S & E #307—7-55

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STATION	B. S.	H. I.	F. S.	ELEV.		
H. I.		270771				
T.P.	0456	260 578	10629	260 142		
T.P.	0725	250268	11055	249540		
T.P.	0713	239 215	11700	238502		
T.P.	0177	227 659	11733	227482		
T.P.	0597	217 666	10590	217 059		
T.P.	2400	209474	10592	207074		
"B.M.-C"	11957	215883	5548	203 926*		
K-1			2 473	213 410		
	1084	205 010		203 926*		
T.P.	1491	195 426	11075	193 935		
BM. 34-17A	5788	199 238	1976	193450		
T.P.	2370	197 160	4448	194 790		
T.P.	11166	200502	7824	189336		
T.P.	5002	201 233	4271	196231		
T.P.	11857	207 081	6009	195224		
B.M.-D					UNABLE TO LOCATE	
T.P.	11822	217 310	1593	205488*	BEGIN SIDELINE	
T.P.	11648	227 315	1643	215 667		
T.P.			0202	227 113		

Profile No. ____ Notes Red. ____ Plotted ____ Job No. ____ Division No. ____ F. B. ____ Pg. ____
X-Sec. No. ____ Date ____ Date ____ Survey of ____
Notes Chkd. ____ Checked C. R. GOSS Survey by ____ Notes ____ Date ____
Date ____ Date ____ Map No. ____ Indexed ____ Date ____

76298 S & E #307—7-55

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F. B. 2318 Pg. 58 | Job No. 2021.64 | Division No. 10 | Notes Red. | Plotted | No. | Profile

Survey of PORTUGUESE BEND LANDSLIDE | Date | Notes Chkd. | Date | Checked C. R. GOSS | Date | No. | X-Sec.

Survey by LAND Notes T.C.P. | Date

Indexed C. Johnson | Date

STATION	B. S.	H. I.	F. S.	ELEV.		
	11677	238790		227113		
J-1A			4100	234690		
		END SIDELINE				
	10932	216420		205488		
J-1			9413	207007		
T. P.	11820	225623	2617	213803		
J-3	6115	223691	8047	217576		
J-4			4336	219355		
T. P.	0445	213186	10950	212741		
RADIAL 2			9262	203924		
T. P.	1893	209416	5613	207513		
J-5			8518	200898		
T. P.	6101	207347	8170	201246		
T.B.M.-15			8922	198425		
T. P.	8021	211471	3891	203456		
B.M. 50-13	4863	212864	3476	208001		
T. P.	6544	216978	2430	210434		
T. P.	6233	219168	4043	212935		
T. P.	7124	223121	3171	215997		
T. P.	6637	227555	2203	220918		
T. P.			3198	224357		

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STATION	B. S.	H. I.	F. S.	ELEV.		
	5974	230331		224357		
T.P.	5733	232570	3494	226837		
T.P.	5620	233963	4227	228343		
B.M. 34-15A			2962	231001	B.M. 34-15A EL. 230.987	

END FIELD BOOK

CONT. TO F.B. 2363-167

Profile Notes Red. ____ Plotted ____ Job No. ____ Division No. 10 F. B. 2318 PG. 2459
No. ____ Date ____ Date ____ Survey of [illegible]
X-Sec. Notes Chkd. ____ Checked C. R. GOSS Survey by [illegible] Notes [illegible] Date [illegible]
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson