10-63	6268.20	HAWTHORNE	Blvd.	SD.	No.	682	BENCH LEVELS.	B.M.s	7-32
10-63	"	"	"	"	"	"	CENTERLINE NOTES.	C/L	33-64
	"	"	"	"	"	"	Pages 65 to 72 left open.		
10-63	"	"	"	"	"	"	LOCATION OF IMPROVEMENTS.	TOPO.	73-96
11-63	"	"	"	"	"	"	CROSS SECTIONS.	X- Sec.	97-196

Microfilmed Feb. 86

Survey of
JN Tape Std °F
Surveyed by
Notes Date
Indexed

Ck'd by
Work

F.B. Pg.

Storm Drain # 682

Notes Ck'd by	Survey of Hawthorne Blvd	F. B. 2583 Pg. 5
Map No.	JN 6268.20 Tape 0209 Std 68 °F	
Office Work	Surveyed by D. Sappell	
Checked	Notes D.S. Date 10-7-63	
Date	Indexed C. J. GAIN NOV 22 '63	

JN. 6268.20

HAWTHORNE BLVD

STORM DRAIN #682

See Index PG 6

BENCH LEVELS	7 - 32	
CENTER LINE	33 - 64	(65 - 72 open)
LOC OF IMP.	73 - 96	
CROSS-SEC.	97 - 196	

Sappell
Foulger
Lieber
Dupuis
Yamamoto

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4[illegible] LOS ANGELES COUNTY ENGINEERING BLDG.
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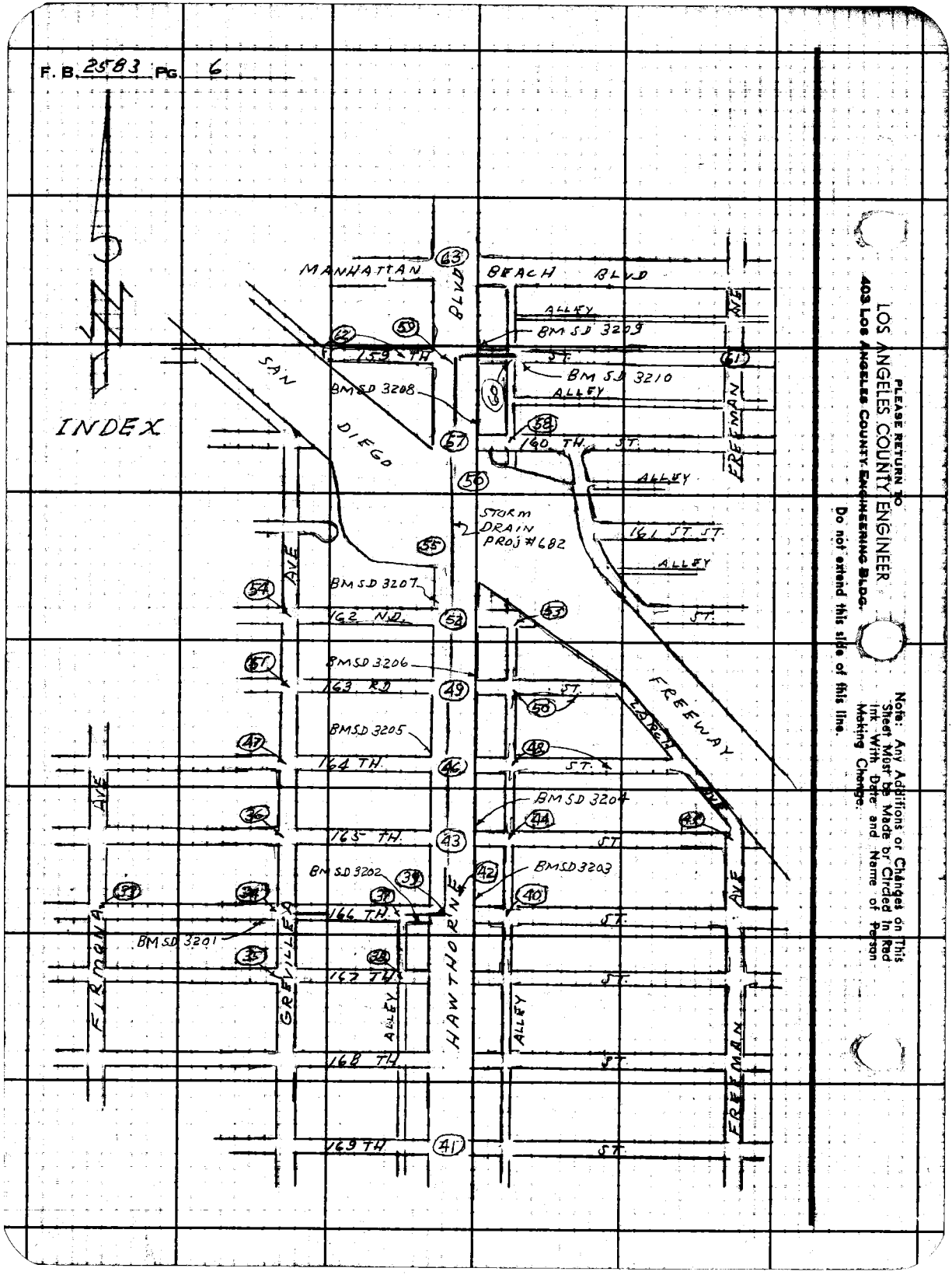
76E3095 CE #310 6-62

F. B. 2583 PG. 6



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NOTES RED. _____ JOB NO. 0301.02 SURVEY OF Hawthorne Blvd S.D #682 F.B. 2583 PG. 7

DATE _____ SURVEY BY D. Sappell

NOTES CHKD. W. R. WAGNER NOTES BY D. Foulger DATE 10-7-63

DATE _____ INDEXED E. J. GALLI DATE OCT 11 '63

DESCRIPTION	J.N. 0301.02 2.01 HAWTHORNE BLVD STORM DRAIN PROJ # 682 BENCH LEVELS
ADJ. ELEV.	Zeiss Level # 26000 LOVAR Rods 15 & 16
3RD RUN	
2ND RUN	
DIFF.	
1ST RUN	Sappell Foulger Lieber Dupuis Yamamoto
B.M.	

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76S420 353 3-51

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JOB NO. 0301.02 SURVEY OF Hawthorne Blvd
SURVEY BY D. Fowler DATE 10-7-63
NOTES BY D. Fowler DATE 10-7-63
INDEXED C. J. GALL DATE
NOTES RED. DATE
NOTES CHKD. DATE

Storm Drain # 682

F.B. 2583 Pg. 8

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
Fnd. BM. 55-3-2	87.477 ✓				87.477	B.M. 55-3-2 (Torrance B.M. 3-2) F.B. 2447 pg. 196, 1960 adjust. EL. 87.477, in the City of Torrance at Hawthorne Ave & 182nd St, in the S.E. cor., 101.5' S of the south end of the C.R. & 3' E. of the face of the E. curb. A Co. Eng'r. B.M. brass cap MOM. marked "55, Tor. 3-2," set in conc. in a well & protected by a cast iron cover marked "Co. Engr. MOM."
+	7.700		7.611			
⊼	95.177	+4.271	+4.268	+4.267		
−	3.429		3.343			
T.P.	91.748					T.P.
+	7.645		7.567			
⊼	99.393	+2.105	+2.105	+2.103		
−	5.540		5.462			
T.P.	93.853					T.P.
+	4.380		4.200			
⊼	98.233	−1.828	−1.829	−1.830		
−	6.208		6.029			
T.P.	92.025					T.P.
+	2.670		2.762			
⊼	94.695	−2.250	−2.250	−2.252		
−	4.920		5.012			
T.P.	89.775					T.P.

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	89.775					T.P.
+	5.051		4.910			
⊼	94.826	+0.108	+0.109	+0.107		
−	4.943		4.801			
T.P.	89.883					T.P.
+	5.725		5.560			
⊼	95.608	+0.890	+0.890	+0.889		
−	4.835		4.670			
T.P.	90.773					T.P.
+	7.431		7.610			
⊼	98.204	+4.827	+4.827	+4.826		
−	2.604		2.783			
T.P.	95.600					T.P.
+	4.180		4.318			
⊼	99.780	−5.005	−5.005	−5.006		
−	9.185		9.323			
T.P.	90.595					T.P.
+	3.150		3.328			
⊼	93.745	−2.918	−2.921	−2.922		
−	6.068		6.249			
T.P.	87.677					T.P.
+	5.743		5.852			
⊼	93.420	+1.140	+1.139	+1.138		
−	4.603		4.713			
T.P.	88.817					T.P.

NOTES RED. _____ JOB NO. 0301.02 SURVEY OF Storm Drain # 682 Hawthorne Blvd
DATE _____ SURVEY BY D. Sappell
NOTES WHITE WAGNER NOTES BY D. Foulger DATE 10-7-63
DATE _____ INDEXED C. J. GALLI DATE _____

F.B. 2583 PG. 9

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JOB NO. 0301.02 SURVEY OF Storm Drain #682 Hawthorne Blvd
SURVEY BY D. Sappell
NOTES BY D. Foulger DATE 10-7-62
INDEXED E. J. GALM DATE
NOTES RED. DATE
NOTES CHKD. DATE
F.B. 2587 PG. 10

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	88.817					T.P.
+	5.192		5.328			
⊼	94.009	-0.208	-0.209	-0.211		
−	5.400		5.537			
End BM 55-3-1	88.609				88.586	B.M. 55-3-1 (Torrance B.M. 3-1) 1960 adj. EL. 88.586, F.B. 2447-195, in the City of Torrance, Hawthorne Ave & 174th St., on the S.E. Cor., 3.5' E. of the E. face of the curb ~~& 75.0' S. Wly of a W'ly cor. of a Mobil gas station Bldg.~~, a Co. Engr. B.M. Brass cap Mon. marked "55-Tor. 3-1", set in conc. 10" below the surface in a well & protected by a cast iron cover marked "County Engineer Monument" (75' S. of S. end C.R., S.E. Cor.)
+	5.603		5.681			
⊼	94.212	+0.420	+0.421			
−	5.183		5.260			
T.P.	89.029					T.P.
+	6.559		6.744			
⊼	95.588	+2.336	+2.339			
−	4.223		4.405			
T.P.	91.365					T.P.
+	5.528		5.368			
⊼	96.893	+0.683	+0.684			
−	4.845		4.684			
T.P.	92.048					T.P.

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NOTES RED _____ JOB NO. 03641.12 SURVEY OF Storm Drain #682
DATE _____ SURVEY BY J. Sarpell
NOTES WHRD. WAGNER NOTES BY D. Fouliac DATE 10-8-63
DATE _____ INDEXED B. LEAU DATE _____

F.B. 2583 PG. 11

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	92.048					T.P.
+	4.980		5.140			
Π	97.028	-1.800	-1.800			
−	6.780		6.940			
T.P.	90.248					T.P.
+	2.974		3.120			
Π	93.222	-3.326	-3.323			
−	6.300		6.443			
T.P.	86.922					T.P.
+	2.432		2.570			
Π	89.354	-5.351	-5.350			
−	7.783		7.920			
T.P.	81.571					T.P.
+	3.220		3.339			
Π	84.791	-4.180	-4.179			
−	7.400		7.518			
T.P.	77.391					T.P.
+	3.730		3.542			
Π	81.121	-0.130	-0.128			
−	3.860		3.670			
T.P.	77.261					T.P.
+	2.994		3.120			
Π	80.255	-1.611	-1.609			
−	4.605		4.729			
T.P.	75.650					T.P.
+	1.759		1.835			
Π	77.409	-4.341	-4.340			
−	6.100		6.175			
T.P.	71.309					T.P.

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725 LOS ANGELES COUNTY ENGINEERING BLDG.

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JOB NO. 0301.02 SURVEY OF Storm Drain #682 Hawthorne Blvd
SURVEY BY D. Jewell
NOTES BY D. Fowler DATE 10-8-63
INDEXED E. J. GALLI DATE
NOTES RED. DATE
NOTES CHKD. DATE

F.B. 2583 PG. 12

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	71.309					T.P.
+	4.652		4.493			
⊼	75.961	-1.135	-1.135			
-	5.787		5.628			
T.P.	70.174					T.P.
+	6.380		6.483			
⊼	76.554	+1.580	+1.573			
-	4.800		4.910			
T.P.	71.754					T.P.
+	5.638		5.532			
⊼	77.392	+0.218	+0.215			
-	5.420		5.317			
T.P.	71.972					T.P.
+	5.280		5.169			
⊼	77.252	-0.402	-0.402			
-	5.682		5.571			
T.P.	71.570					T.P.
+	4.417		4.615			
⊼	75.987	-0.610	-0.610			
-	5.027		5.225			
(Feet) B.M. SD 3201	70.960				70.937	B.M. SD 3201 EL. 70.937, F.B. 2583-12
+	5.282		5.567			W. 166th St. & Grevillea Ave, S.W. Cor.
⊼	76.242	-1.053	-1.054			61' W. of W. end C.R., Bt. spk. in curb.
-	6.335		6.621			
T.P.	69.907					T.P.
+	5.252		5.120			
⊼	75.159	-0.403	-0.400			
-	5.655		5.520			
T.P.	69.504					T.P.

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	69.504					T.P.
+	5.357		5.474			
⊼	74.861	-0.004	-0.006			
−	5.361		5.480			
(set) B.M. SD3202	69.500				69.477	B.M. SD.3202 EL. 69.477 F.B. 2583-1B Hawthorne Blvd & W. 166th St., S.W. Cor. 50' W. of W. end C.R. Bt. spk. in curb.
+	4.568		4.715			
⊼	74.068	-3.000	3.000			
−	7.568		7.715			
(set) B.M. SD3203	66.500				66.477	B.M. S.D. 3203 EL. 66.477 F.B. 2583-1B Hawthorne Blvd & W. 166th St N.E. Cor. 36' N. of N. end C.R. Bt. spk. in curb.
+	3.000		3.178			
⊼	69.500	-2.905	-2.906			
−	5.905		6.084			
(set) B.M. SD3204	63.595				63.572	B.M. S.D. 3204 EL. 63.572 F.B. 2583-1B Hawthorne Blvd & 165th St. (N.E. Cor.) 50' N. of N. end C.R., Bt. spk in curb
+	5.430		5.614			
⊼	69.025	-0.518	-0.516			
−	5.948		6.130			
T.P.	63.077					T.P.
+	4.608		4.768			
⊼	67.685	-1.516	-1.516			
−	6.124		6.284			
(set) B.M. SD.3205	61.561				61.538	B.M. S.D. 3205 EL. 61.538 F.B. 2583-1B Hawthorne Blvd & 164th St. N.W. Cor. 34' N. of N. end C.R., Bt. spk. in curb.
+	5.730		5.564			
⊼	67.291	-1.588	-1.586			
−	7.318		7.150			
T.P.	59.973					T.P.

NOTES RED. _____ JOB NO. 0301.02 SURVEY OF Storm Drain #682 Hawthorne Blvd
DATE _____ SURVEY BY D. Sappell
NOTES CHKD. W. D. WAGNER NOTES BY D. Foulger DATE 10-8-63
DATE _____ INDEXED E. J. GALLI DATE _____

F.B. 2583 PG. 13

76S420 353 3-51

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	59.973					T.P.
+	4.174		4.340			
π	64.147	-1.994	-1.997			
− (set)	6.168		6.337			
BM.SD3206	57.979				57.956	B.M. SD 3206 EL. 57.956 F.B. 2583-14 Hawthorne Blvd. & W. 163rd St. (N.E. cor.), 45' N. of N. end C.R. Bt. spk. in curb.
+	5.595		5.720			
π	63.574	-0.949	-0.949			
−	6.544		6.669			
T.P.	57.030					T.P.
+	4.540		4.603			
π	61.570	-1.320	-1.321			
− (set)	5.860		5.924			
BM.SD3207	55.710				55.687	B.M. SD 3207 EL. 55.687 F.B. 2583-14 Hawthorne Blvd & W. 162nd St. (N.W. cor.) 48.5' N. of N. end C.R., Bt. spk. in curb.
+	4.875		5.026			
π	60.585	-1.320	-1.318			
−	6.195		6.344			
T.P.	54.390					T.P.
+	5.323		5.236			
π	59.713	-0.220	-0.219			
−	5.543		5.455			
T.P.	54.170					TP.
+	6.934		7.055			
π	61.104	+0.343	+0.342			
−	6.591		6.713			
T.P.	54.513					TP.

JOB NO. 0301.02 SURVEY OF Storm Drain #682 Hawthorne Blvd NOTES RED.
SURVEY BY D. Sappell DATE
NOTES BY D. Foulger DATE 10-8-63 NOTES CHKD.
INDEXED E. J. GALLI DATE DATE

F.B. 2583 PG. 14

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	54.513					T.P.
+	5.103		5.225			
π	59.616	-0.215	-0.216			
−	5.318		5.441			
(Set) B.M. SD3208	54.298				54.275	B.M. S.D. 3208 EL. 54.275 F.B. 2583-15 Hawthorne Blvd. & W. 160th St. (N.E. Cor.) 45' N. of the N. end C.R., Bt. spk. in curb.
+	4.860		4.945			
π	59.158	-0.500	-0.500			
−	5.360		5.445			
T.P.	53.798					
+	3.538		3.350			
π	57.336	-2.706	-2.705			
−	6.244		6.055			
(Set) B.M. SD3210	51.092				51.069	B.M. S.D. 3210 EL. 51.069 F.B. 2583-15 159th St. & First Alley E. of Hawthorne Blvd, (S.E. Cor.) 23' E. of E. end C.R., Bt. spk. in curb.
+	6.190		6.358			
π	57.282	+3.191	3.194			
−	2.999		3.164			
(Set) B.M. SD3209	54.283				54.260	B.M. S.D. 3209 EL. 54.260 F.B. 2583-15 Hawthorne Blvd. & W. 159th St. (N.E. Cor.) 5' N. of N. end C.R. Fnd. screw in lead in curb, at center of catch basin
+	5.675		5.768			
π	59.958	+0.540	+0.540			
−	5.135		5.228			
T.P.	54.823					TP.
+	4.860		4.928			
π	59.683	+1.878	+1.879			
−	2.982		3.049			
T.P.	56.701					TP.

NOTES RED. _____ JOB NO. 0301.02 SURVEY OF Storm Drain #682 Hawthorne Blvd
DATE W. D. WAGNER SURVEY BY D. Sappell
NOTES CHKD. _____ NOTES BY D. Foulger DATE 10-8-63
DATE _____ INDEXED R. J. GALLI DATE _____

F.B. 2583 PG. 15

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	56.701					T.P.
+	3.220		3.363			
⊼	59.921	-2.477	-2.476			
−	5.697		5.839			
T.P.	54.224					T.P.
+	4.295		4.400			
⊼	58.519	-1.585	-1.583			
−	5.880		5.983			
T.P.	52.639					T.P.
+	4.503		4.315			
⊼	57.142	-1.712	-1.713			Note: See Pages 27-31 of FB 2583
−	6.215		6.028			for check of this circuit.
(Fd) B.M. 24	50.927				50.904	B.M. 24 EL. 50.999 F.B. 2521-8
						Hawthorne Blvd & 156th St.
+	5.688		5.823			(N.W. Cor.) B. spk. in curb, 0.4 ft.
⊼	56.615	+1.403	+1.402			W. of W. end C.R.
−	4.285		4.421			
T.P.	52.330					T.P.
+	5.272		5.383			
⊼	57.602	+0.372	+0.375			
−	4.900		5.008			Note: See Explanation for B.M. 24 above.
(Fd) B.M. SD 3001	52.702				52.679	B.M. S.D. 3001 EL. 52.771 F.B. 2521-8
						Hawthorne Blvd & 154th St. (S.E. Cor.)
+	5.069		4.941			Nail in lead, 1 ft. S. of S. end C.R.
⊼	57.771	-0.044	-0.043			
−	5.113		4.984			
T.P.	52.658					T.P.

JOB NO. 0301.02 SURVEY OF Storm Drain # 682 Hawthorne Blvd NOTES RED.
SURVEY BY D. Sappell DATE
NOTES BY D. Faulger DATE 10-8-63 NOTES CHKD.
INDEXED R. J. GALLI DATE DATE

F.B. 2583 PG. 16

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	52.658					T.P.
+	4.260		4.360			
π	56.918	-0.653	-0.650			
−	4.913		5.010			
T.P.	52.005					T.P.
+	4.554		4.441			
π	56.559	-1.076	-1.078			
−	5.630		5.519			
Fnd. B.M. 24	50.929				50.904	B.M. 24 EL. 50.999, F.B. 2521-8 Hawthorne Blvd & 156th St. (N.W. cor.) Bt. spk in curb, 0.4 ft. W. of W. end C.R.
+	6.333		6.162			
π	57.262	+1.782	+1.780			
−	4.551		4.382			
T.P.	52.711					T.P.
+	5.662		5.550			
π	58.373	+1.244	+1.246			
−	4.418		4.304			
T.P.	53.955					T.P.
+	4.898		4.798			
π	58.853	-0.614	-0.614			
−	5.512		5.412			
T.P.	53.341					T.P.
+	7.298		7.428			
π	60.639	+2.942	+2.940			
−	4.356		4.488			
T.P.	56.283					T.P.
+	3.352		3.428			
π	59.635	-1.248	-1.244			
−	4.600		4.672			
T.P.	55.035					T.P.

NOTES RED. _____ JOB NO. 0301.02 SURVEY OF Storm Drain # C82 Hawthorne Blvd
DATE _____ SURVEY BY D. Sappell
NOTES CHKD. W. D. WAGNER NOTES BY D. Foulger DATE 10-9-63
DATE _____ INDEXED B. J. GALLI DATE _____

F.B. 2583 PG. 17

769420 353 3-51

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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

JOB NO. 0381.02 SURVEY OF Storm Drain # 682 Hawthorne Blvd
SURVEY BY J. Sapell
NOTES BY J. Fuller DATE 10-2-63
INDEXED E. J. GALLI DATE
NOTES RED. DATE
NOTES CHKD. DATE

F.B. 2583 PG. 18

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	55.035					T.P.
+	4.920		4.842			
⊼	59.955	-0.758	-0.757			
−	5.678		5.599			
(Fd) B.M. SD3209	54.277				54.260	B.M. S.D. 3209 EL. 54.260 F.B. 2583-15 Hawthorne Blvd & 159th St. (N.E. Cor) 5' N. of N. end C.R., Fd. screw in lead in curb, at ctr. of catch basin.
+	2.749		2.631			
⊼	57.026	-3.190	-3.192			
−	5.939		5.823			
(Fd) B.M. SD3210	51.087				51.069	B.M. SD 3210 EL. F.B. 2583-15 159th St. & First Alley E. of Hawthorne Blvd. (S.E. Cor.) 23' E. of E. end C.R., Bt. Spk. in curb.
+	5.739		5.839			
⊼	56.826	+2.871	+2.868			
−	2.868		2.971			
T.P.	53.958					T.P.
+	5.028		5.128			
⊼	58.986	+0.345	+0.343			
−	4.683		4.785			
(Fd) B.M. SD3208	54.303				54.275	BM. SD 3208 EL. 54.275 F.B. 2583-15 Hawthorne Blvd & W. 160th St. (N.E. Cor.) 45' N. of N. end C.R., Bt. Spk. in curb.
+	5.343		5.229			
⊼	59.646	+0.512	+0.514			
−	4.831		4.715			
T.P.	54.815					T.P.
+	5.875		6.007			
⊼	60.690	-0.308	-0.306			
−	6.183		6.313			
T.P.	54.507					TP.

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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.	54.507					T.P.
+	5.582		5.715			
⊼	60.089	+0.939	+0.940			
−	4.643		4.775			
T.P.	55.446					T.P.
+	4.877		4.710			
⊼	60.323	+0.260	+0.260			
(Fd.)	4.617		4.450			
BM. SD 3207	55.706				55.687	B.M. S.D. 3207 EL. 55.687 F.B. 2583-14 Hawthorne Blvd & W. 162nd St (N.W. cor.) 48.5 N. of N. end C.R. Bt. spk. in curb.
+	5.915		6.029			
⊼	61.621	+2.042	+2.041			
−	3.873		3.988			
T.P.	57.748					T.P.
+	5.621		5.669			
⊼	63.369	+0.231	+0.229			
(Fd.)	5.390		5.440			
BM. SD 3206	57.979				57.956	BM. SD 3206 EL. 57.956 F.B. 2583-14 Hawthorne Blvd & W. 163rd St. (N.E. cor.) 45' N. of N. end C.R. Bt. spk. in curb.
+	7.244		6.915			
⊼	65.223	+3.613	+3.613			
−	3.631		3.302			
T.P.	61.592					T.P.
+	4.172		4.042			
⊼	65.764	−0.039	−0.036			
(Fd.)	4.211		4.078			
B.M. SD 3205	61.553				61.538	BM. SD. 3205 EL. 61.538 F.B. 2583-13 Hawthorne Blvd & W. 164th St. (N.W. cor) 45' N. of N. end C.R. Bt. spk. in curb.

NOTES RED. _____ JOB NO. 0301.02 SURVEY OF Storm Drain #682 Hawthorne Blvd
DATE _____ SURVEY BY D. Sappell
NOTES CHKD. W. B. WAGNER NOTES BY D. Foulger DATE 10-9-63
DATE _____ INDEXED C. J. GALLI DATE _____

F.B. 2583 PG. 17

JOB NO. 0301.02 SURVEY OF Storm Drain #682 Hawthorne Blvd NOTES RED.
SURVEY BY D. Sappell DATE
NOTES BY D. Foulger DATE 10-9-63 NOTES CHKD.
INDEXED R. J. GALLI DATE DATE

F.B. 2583 PG. 20

765420 353 3-51

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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
(Fd) BM.SD3205	61.553				61.538	BM SD 3205 61.538 PG 13 & 19
+	6.239		6.329			
⊼	67.792	+2.760	+2.758			
−	3.479		3.571			
T.P.	64.313					T.P.
+	4.497		4.282			
⊼	68.810	−0.728	−0.728			
−	5.225		5.010			
(Fd) BM.SD3204	63.585				63.572	B.M. S.D. 3204 EL. 63.572 F.B. 2583-13 Hawthorne Blvd. & W. 165th St. (N.E. cor.) 50' N. of N. end. C.R. Bt. spk. in curb
+	6.130		5.969			
⊼	69.715	+1.949	+1.950			
−	4.181		4.019			
T.P.	65.534					T.P.
+	5.089		5.189			
⊼	70.623	+0.960	+0.961			
−	4.129		4.228			
(Fd) BM.SD3203	66.494				66.477	B.M. SD 3203 EL. 66.477 F.B. 2583-13 Hawthorne Blvd. & W. 166th St. (N.E. cor.) 36' N. of N. end C.R. Bt. spk. in curb.
+	7.703		7.782			
⊼	74.197	+2.171	+2.171			
−	5.532		5.611			
T.P.	68.665					T.P.
+	5.561		5.641			
⊼	74.226	+0.838	+0.840			
−	4.723		4.801			
(Fd) B.M.SD3202	69.503				69.477	B.M. SD. 3202 EL. 69.477 F.B. 2583-13 Hawthorne Blvd & W. 166th St. (S.W. cor.) 50' W. of W. end C.R. Bt. spk. in curb.

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
B.M. SD 3202	69.503				69.477	BM SD 3202 PG 13 & 20
+	5.109		5.213			
⊼	74.612	+0.064	+0.062			
−	5.045		5.151			
T.P.	69.567					TP
+	5.714		5.809			
⊼	75.281	+0.372	+0.369			
−	5.342		5.440			
T.P.	69.939					TP
+	6.088		6.159			
⊼	76.027	+1.027	+1.029			
−	5.061		5.130			
(Fd) B.M. SD 3201	70.966				70.937	B.M. S.D. 3201 EL. 70.937 F.B. 2583-12
+	5.039		5.163			W. 166th St. & Greveillea Ave
⊼	76.005	+0.855	+0.854			(SW. cor.) 61' W. of W. end C.R.
−	4.184		4.309			Bt. spk. in curb.
T.P.	71.821					TP
+	6.416		6.182			
⊼	78.237	+0.432	+0.433			
−	5.984		5.749			
T.P.	72.253					TP
+	5.060		5.188			
⊼	77.313	−0.592	−0.593			
−	5.652		5.781			
T.P.	71.661					TP
+	5.070		5.199			
⊼	76.731	−0.445	−0.442			
−	5.515		5.641			
T.P.	71.216					TP

NOTES RED. JOB NO. 0301.02 SURVEY OF Storm Drain #682 Hawthorne Blvd
DATE SURVEY BY D. Sappell
NOTES CHKD. W. D. WAGNER NOTES BY D. Foulger DATE 10-9-63
DATE INDEXED J. GALLI DATE

F.B. 2583 PG. 21

765420 353 3-51

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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. 030102 SURVEY OF Storm Drain #602 Hawthorne Blvd
SURVEY BY D. Faulger D. Sapacil
NOTES BY D. Faulger DATE 10-10-62
INDEXED E. J. GALLI DATE
NOTES RED. DATE
NOTES CHKD. DATE

F.B. 2583 Pg. 22

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	71.216					T.P.
+	4.335		4.434			
⊼	75.551	-0.064	-0.065			
−	4.399		4.499			
T.P.	71.152					T.P.
+	6.125		6.008			
⊼	77.277	+1.878	+1.878			
−	4.247		4.130			
T.P.	73.030					T.P.
+	6.901		7.009			
⊼	79.931	+1.470	+1.468			
−	5.431		5.541			
T.P.	74.500					T.P.
+	5.678		5.547			
⊼	80.178	+1.936	+1.935			
−	3.742		3.612			
T.P.	76.436					T.P.
+	6.425		6.539			
⊼	82.861	+3.998	+3.998			
−	3.427		2.541			
T.P.	79.434					T.P.
+	7.308		7.365			
⊼	86.742	+3.825	+3.822			
−	3.483		3.543			
T.P.	83.259					T.P.
+	6.262		6.342			
⊼	89.521	+2.285	+2.283			
−	3.977		4.059			
T.P.	85.544					T.P.

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	85.544					T.P.
+	7.030		7.149			
Π	92.574	+3.769	+3.771			
−	3.261		3.378			
T.P.	89.313					T.P.
+	6.798		6.727			
Π	96.111	+2.829	+2.831			
−	3.969		3.896			
T.P.	92.142					T.P.
+	5.170		5.238			
Π	97.312	+0.248	+0.249			
−	4.922		4.989			
T.P.	92.390					T.P.
+	4.312		4.402	4.235		
Π	96.702	−1.456	−1.450	−1.449		
−	5.768		5.852	5.684		
T.P.	90.934					TP
+	4.533		4.610	4.435		
Π	95.467	−1.240	−1.235	−1.234		
−	5.773		5.845	5.669		
T.P.	89.694					T.P.

NOTES RED. _____ JOB NO. 0201.62 SURVEY OF Storm Drain #6.82 Hawthorne Blvd
DATE _____ SURVEY BY S. Farrell
NOTES CHKD. W. D. WAGNER NOTES BY S. Faulper DATE 10-10-63
DATE _____ INDEXED C. J. GALLI DATE _____

F.B. 2783 PG. 23

765420 353 3-51

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	89.694					T.P.
+	4.328		4.242			
π	94.022	-1.089	-1.085			
−	5.417		5.327			
(Rd) B.M. 55-3-1	88.605				88.586	BM. 55-3-1 (Torrance B.M. 3-1) 1960 adj EL. 88.586', F.B. 2447-195, In the City of Torrance, Hawthorne Ave & 174th St., on the S.E. cor., 3.5' E. of the E. face of the curb. ~~& 75.2' S.W'ly of a W'ly cor. of a Mobil gas station bldg.~~ A.Co. Eng'r. B.M. brass cap. Mon. marked "55-Tor. 3-1," set in conc. 10" below the surface in a well & protected by a cast iron cover marked "County Engineer Monument" (75' S. of S. end C.R., S.E. cor.)
+	5.323		5.231			
π	93.928	-0.182	-0.181			
−	5.505		5.412			
T.P.	88.423					TP
+	4.905		4.743			
π	93.328	-1.289	-1.287			
−	6.194		6.030			
T.P.	87.134					TP
+	7.061		7.161			
π	94.195	+4.981	+4.981			
−	2.080		2.180			
T.P.	92.115					TP

JOB NO. 0301.02 SURVEY OF Storm Drain #682 Hawthorne Blvd NOTES RED. DATE
SURVEY BY D. Fauger (Repeat) NOTES CHKD. DATE
NOTES BY D. Fauger DATE 10-10-62
INDEXED C. J. GALLI DATE

F.B. 2883 Pg. 24

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NOTES RED. _____ JOB NO. 0301.02 SURVEY OF Storm Drain #682 Hawthorne Blvd
DATE _____ SURVEY BY D. Farrell
NOTES W. C. WAGNER NOTES BY D. Fauliec DATE 10. 10. 63
DATE _____ INDEXED E. J. GALL DATE _____

F.B. 2583 PG. 25

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	92.115					T.P.
+	7.452		7.591			
π	99.567	+2.823	+2.823			
−	4.629		4.768			
T.P.	94.938					T.P.
+	3.309		3.402			
π	98.247	−2.947	−2.947			
−	6.256		6.349			
T.P.	91.991					T.P.
+	3.630		3.710			
π	95.621	−1.972	−1.972			
−	5.602		5.682			
T.P.	90.019					T.P.
+	5.372		5.481	5.334		
π	95.391	+0.323	+0.329	+0.327		
−	5.049		5.152	5.007		
T.P.	90.342					T.P.
+	3.881		3.732			
π	94.223	+0.016	+0.019			
−	3.865		3.713			
T.P.	90.358					T.P.
+	5.263		5.042			
π	95.621	+1.240	+1.237			
−	4.023		3.805			
T.P.	91.598					T.P.
+	6.349		6.444			
π	97.947	+2.447	+2.450			
−	3.902		3.994			
T.P.	94.045					T.P.

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
T.P.	94.045					T.P.
+	5.229		5.349			
⊼	99.274	+0.239	+0.239			
−	4.990		5.110			
T.P.	94.284					T.P.
+	2.423		2.299			
⊼	96.707	−4.159	−4.159			
−	6.582		6.458			
T.P.	90.125					T.P.
+	4.199		4.273			
⊼	94.324	−2.652	−2.655			
−	6.851		6.928			
B.M. 55-3-2	87.473				87.477	B.M. 55-3-2 (Torrance B.M. 3-2) F.B. 2447 pg. 196, 1960 adjusted EL. = 87.477, in the City of Torrance at Hawthorne Ave & 182nd St., in the S.E. cor., 101.5' S. of the S. end of the C.R. & 3' E. of the face of the E. curb. A Co. Eng'r. B.M. brass cap Mon. marked "55 Tor. 3-2," set in conc. in a well & protected by a cast iron cover, marked "County Engineer Monument,"

JOB NO. 0301.02 SURVEY OF Storm Drain #1682 Hawthorne Blvd NOTES RED.
SURVEY BY D. Sappell DATE
NOTES BY J. Foulger DATE 10-10-63 NOTES CHKD.
INDEXED C. J. GALLI DATE DATE

F.B. 2583 PG. 26

Storm Drain # 682

NOTES RED. _____ JOB NO. 0301.02 SURVEY OF Hawthorne Blvd

DATE _____ SURVEY BY D. Sappell

NOTES CHKD. W. D. WAGNER NOTES BY D. Foulger DATE 10-24-63

DATE _____ INDEXED R. J. GALLI DATE OCT 28 '63

F. B. 2583 PG. 27

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

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DESCRIPTION	ADJ. ELEV.	3RD RUN	2ND RUN	DIFF.	1ST RUN	B.M.
J.N. 0301 02						
HAWTHORNE BLVD STORM DRAIN						
PROJ # 682						
ADDITIONAL BENCH LEVELS						
CHECK BETWEEN PRECISE						
BM 55-3-1 and BM 55-4-2						
	ZEISS LEVEL 26000					
	LOVAR Rods 15 & 16					
						Sappell
						Foulger
						Lieber
						Dupuis
						Yamamoto

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JOB NO. 0301.02 SURVEY OF Storm Drain #682 Hawthorne Blvd NOTES RED. DATE
SURVEY BY D. Zappell NOTES CHKD. DATE
NOTES BY D. Fougler DATE 10-24-63
INDEXED E. J. GALLI DATE

F.B. 2583 Pg. 28

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
(Fd) BM 55-3-1	88.586					BM 55-3-1, (Torrance BM 3-1) 1960 adj El. 88.586 F.B. 2447-195, In the city of Torrance, Hawthorne Ave & 174TH ST., on the S.E. cor., 3.5' E. of the E. face of the curb. ~~S 75° W. 5.00' from the W'ly cor. of Mobile Gas station~~, A. Co Engr. BM. Brass cap mon. - mkd "55 TOR 3-1", set in conc. 10" below the surface in a well prot. by a cast iron cover mkd. "County Engineer Monument" (75' S. of S. end C.R., S.E. cor.
+	5.997		5.907			
π	94.583	+0.674	+0.672			
−	5.323		5.235			
T.P.	89.260					T.P.
+	5.187		5.335			
π	94.447	+1.192	+1.190			
−	3.995		4.145			
T.P.	90.452					T.P.
+	5.752		5.890			
π	96.204	+1.508	+1.508			
−	4.224		4.382			
T.P.	91.980					T.P.
+	2.904		3.140			
π	94.884	-2.941	-2.940			
−	5.845		6.080			
T.P.	89.039					T.P.
+	0.833		0.998			
π	89.872	-7.436	-7.432			
−	8.269		8.430			
T.P.	81.603					T.P.

76S420 353 3-51

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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.	81.~~583~~ 603					T.P.
+	0.329		0.452			
⊼	81.9~~71~~ 31	-5.615	-5.615			
−	5.943		6.067			
T.P.	75.988					T.P.
+	4.628		4.751			
⊼	80.~~596~~ 616	-0.334	-0.335			
−	4.962		5.086			
T.P.	75.~~634~~ 654					T.P.
+	4.365		4.453			
⊼	~~79.999~~ 80.019	-0.998	-0.998			
−	5.363		5.451			
T.P.	74.~~636~~ 656					T.P.
+	4.656		4.580			
⊼	79.~~292~~ 313	-0.826	-0.823			
−	5.480		5.403			
T.P.	73.~~812~~ 832					T.P.
+	5.309		4.950			
⊼	79.~~121~~ 141	-0.833	-0.831			
−	6.142		5.781			
T.P.	72.~~879~~ 899					T.P.
+	5.128		5.259			
⊼	78.~~107~~ 127	-0.467	-0.470			
−	5.595		5.729			
T.P.	72.~~533~~ 533					T.P.
+	4.154		4.268			
⊼	76.~~666~~ 686	-1.778	-1.779			
−	5.932		6.047			
T.P.	~~70.734~~ 754					

NOTES RED. _____ JOB NO. 0301.02 SURVEY OF Storm Drain #682 Hawthorne Blvd.
DATE _____ SURVEY BY D. Sappell
NOTES CHKD. W. D. WAGNER NOTES BY D. Foulger DATE 10-24-63
DATE _____ INDEXED C. J. GALLI DATE _____

F.B. 2583 Pg. 29

F. B. 2583 PG. 30

JOB NO. 0301.02 SURVEY OF Storm Drain #602 Hawthorne Blvd NOTES RED. _____

SURVEY BY D. Sappell DATE _____

NOTES BY D. Foulger DATE 10-24-63 NOTES CHKD. _____

INDEXED [redacted] J. GAIN DATE _____ DATE _____

768420 353 3-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
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.	70.754					T.P.
+	5.281		5.421			
⊼	76.035	-0.969	-0.970			
−	6.250		6.391			
T.P.	69.785					T.P.
+	5.332		5.435			
⊼	75.117	-1.122	-1.125			
−	6.454		6.560			
T.P.	68.663					T.P.
+	5.130		5.233			
⊼	73.793	-1.150	-1.151			
−	6.280		6.384			
T.P.	67.513					T.P.
+	5.188		5.246			
⊼	72.701	-0.952	-0.952			
−	6.140		6.198			
T.P.	66.561					T.P.
+	3.415		3.520			
⊼	69.976	-4.027	-4.024			
−	7.442		7.544			
T.P.	62.534					T.P.
+	4.265		4.184			
⊼	66.799	-2.197	-2.196			
−	6.462		6.380			
T.P.	60.337					T.P.

76S420 353 3-51

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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.	60.~~317~~ 337					T.P.
+	4.631		4.690			
⊼	64.~~948~~ 968	-1.780	-1.779			
−	6.411		6.469			
(Fd) BM. 55-4-2	58.~~557~~ 557				58.531	BM 55-4-2 (Torrance B.M. 4-2) 1960 adj El. 58.531, In the city of Torrance at Prairie Ave & Redondo Beach Blvd, 300.0 FT. E. of the ℄ of Prairie Ave, 48.2 FT. S. of the ℄ of Redondo Beach Blvd, 88.0 FT. N.E'ly of the N.E. cor. of the Leanse Auto Supply Bldg. & 10.0 FT. back of the cb. A. co. Engr B.M. brass cap mon. mkd "55 TOR. 4.2" set in conc. 10 inches below the surf. in a well & prot. by a cast iron cover mkd "County Engineer Monument"

NOTES RED. _____ JOB NO. 0301.02 SURVEY OF Storm Drain #682 Hawthorne Blvd.
DATE _____ SURVEY BY D. Sappell
NOTES CHKD. W. D. WAGNER NOTES BY D. Foulger DATE 10-24-63
DATE _____ INDEXED B. J. GALLI DATE _____

F.B. 2583 PG. 31

F. B. 2583 PG. 32

JOB NO. _____ SURVEY OF _____ NOTES RED. _____

SURVEY BY _____ DATE _____

NOTES BY _____ DATE _____ NOTES CHKD. _____

INDEXED C. J. GALLI DATE _____ DATE _____

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

Do not extend notes this side of this line

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725 LOS ANGELES COUNTY ENGINEERING BLDG.

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768420 353 3-51

NOTES RED. _____ JOB NO. _____ SURVEY OF _____

DATE _____ SURVEY BY _____

NOTES CHKD. _____ NOTES BY _____ DATE _____

DATE _____ INDEXED _____ DATE _____

F. B. PG.

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

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LOS ANGELES COUNTY SURVEYOR
725 LOS ANGELES COUNTY ENGINEERING BLDG.

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B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
						PGS 65 - 72
						LEFT OPEN

76S420 353 3-51

F. B. Pg.

JOB NO. _____ SURVEY OF _____ NOTES RED. _____
SURVEY BY _____ DATE _____
NOTES BY _____ DATE _____ NOTES CHKD. _____
INDEXED _____ DATE _____ DATE _____

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
			PGS 65 - 72		LEFT OPEN.	

Do not extend notes this side of this line

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725 LOS ANGELES COUNTY ENGINEERING BLDG.

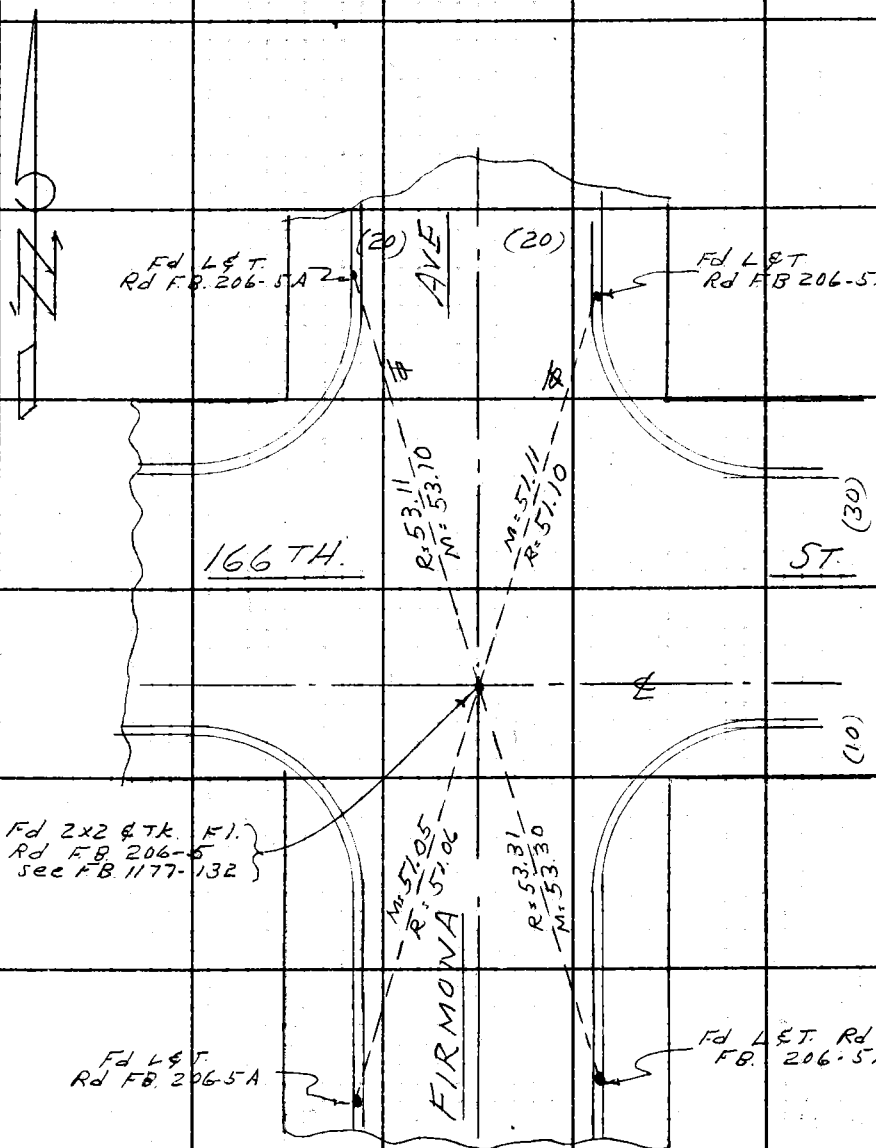
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

765420 353 3-51

Storm Drain #682

Notes Ck'd by G. E. BARR	Survey of Hawthorne Blvd		F. B. 2583 PG. 33
Map No.	JN 6268.20 Tape 0202 Std 68 °F		
Office Work	Surveyed by D. Sappell		
Checked	Notes D.S. Date 10-16-63		
Date	Indexed C. J. GALLI NOV 22 '63		

W.S. 25 C-3



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

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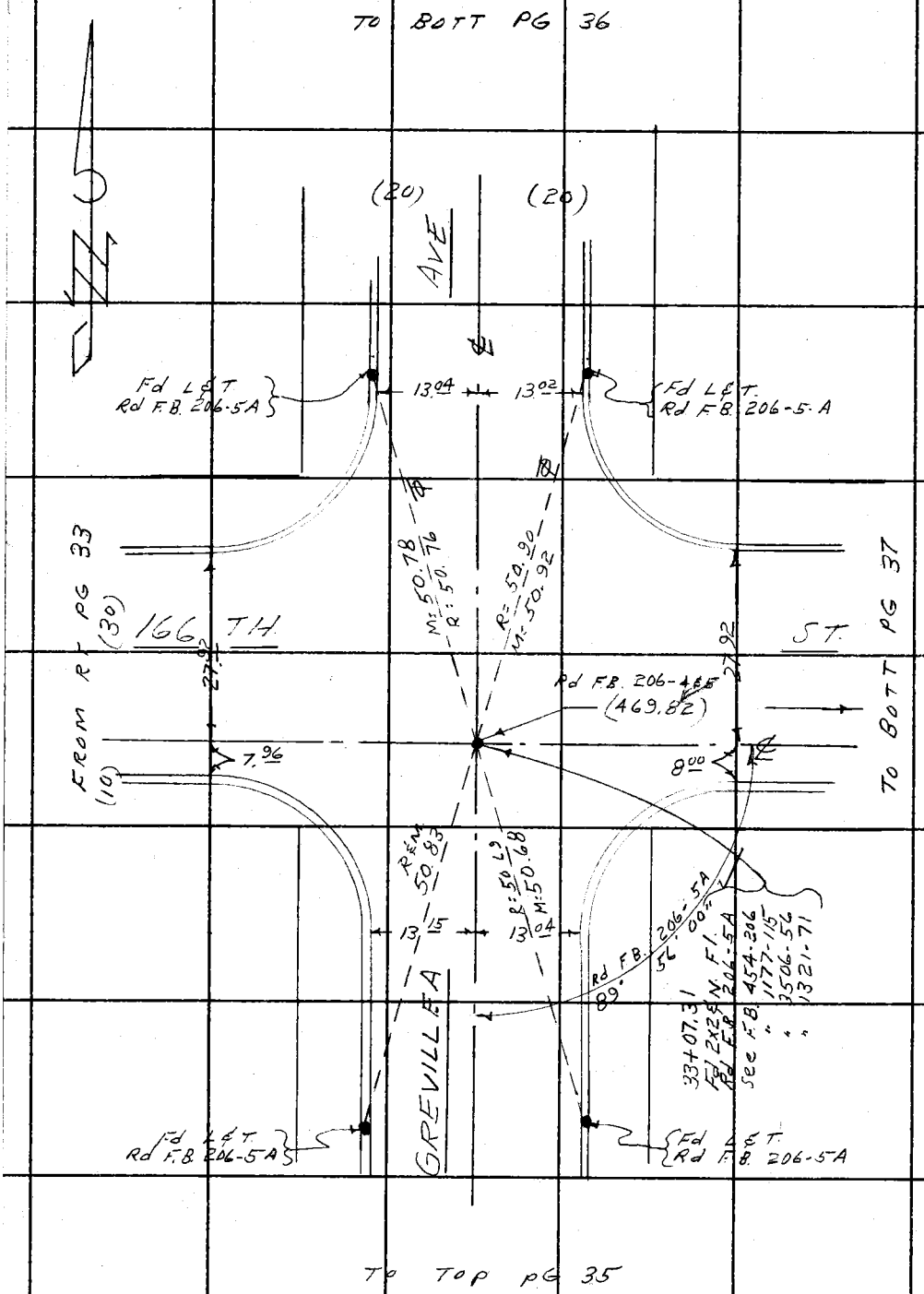
PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F3095 CE # 310 2-61

F. B. 2583 PG. 34



W.S. 25, C-3.

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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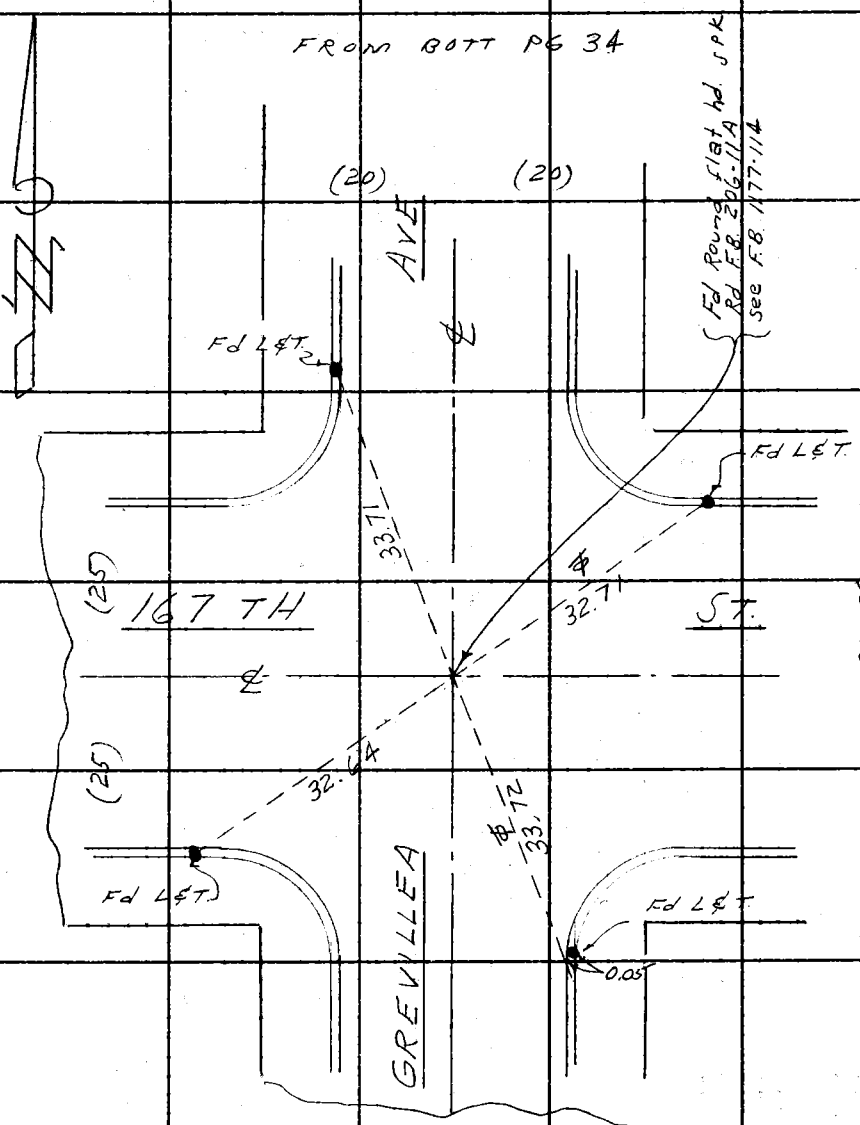
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Storm Drain #602

Notes Ck'd by G. E. BARR	Survey of Hawthorne Blvd	F. B. 25-63	PG. 35
Map No.	JN 6268.20 Tape 0209 Std 68 °F		
Office Work	Surveyed by D. Jappen		
Checked	Notes S.S. Date 10-16-63		
Date	Indexed C. J. GALLI		

WS.25, C-3



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

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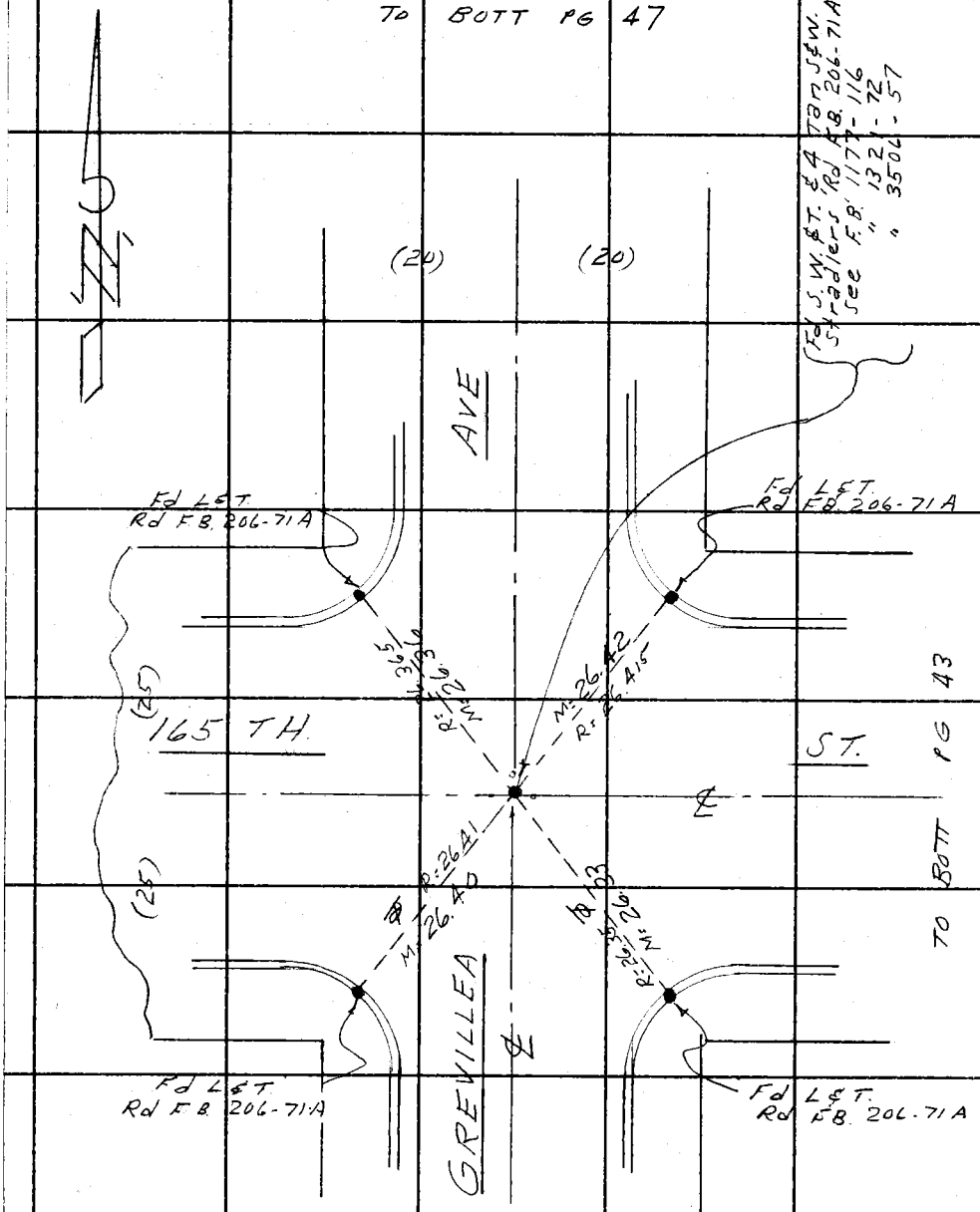
LOS ANGELES COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F3088 CE # 310 2-61

F. B. 2583 PG 36

TO BOTT PG 47



FROM TOP PG 34

WS 25 C-3.

LOS ANGELES COUNTY ENGINEER
403 Los Angeles County Engineering Bldg.

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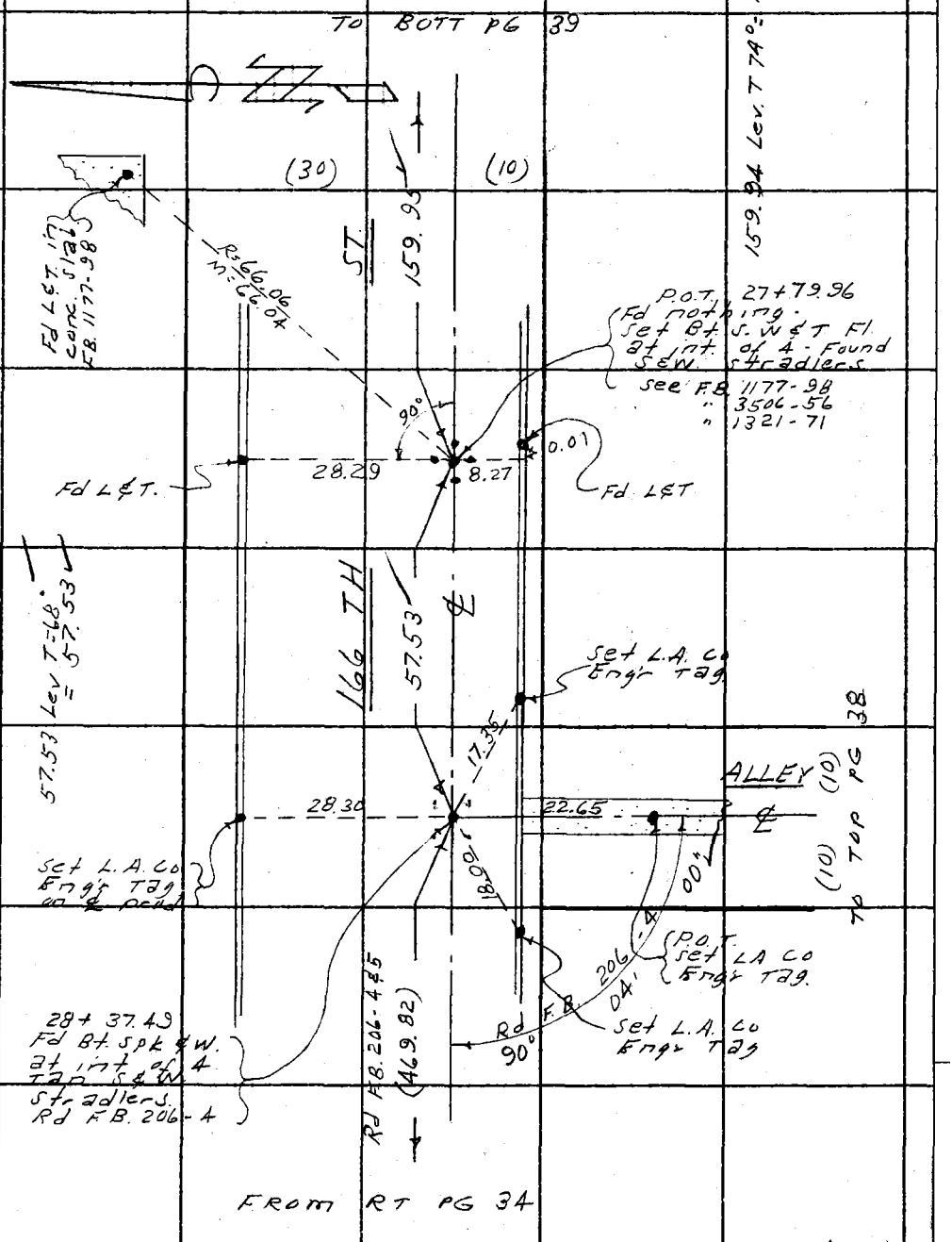
Note: Any Additions or Changes on This Sheet Must Be Made or Circled in Red Ink With Date and Name of Person Making Change.

Storm Drain #682

Notes Ck'd by G. E. BARR	Survey of Hawthorne Blvd
Map No.	JN 626820 Tape 0209 Std 68 °F
Office Work	Surveyed by D. Sappen
Checked	Notes D.S. Date 10-17-63
Date	Indexed C. J. GALLI

F. B. 2583 Pg. 37



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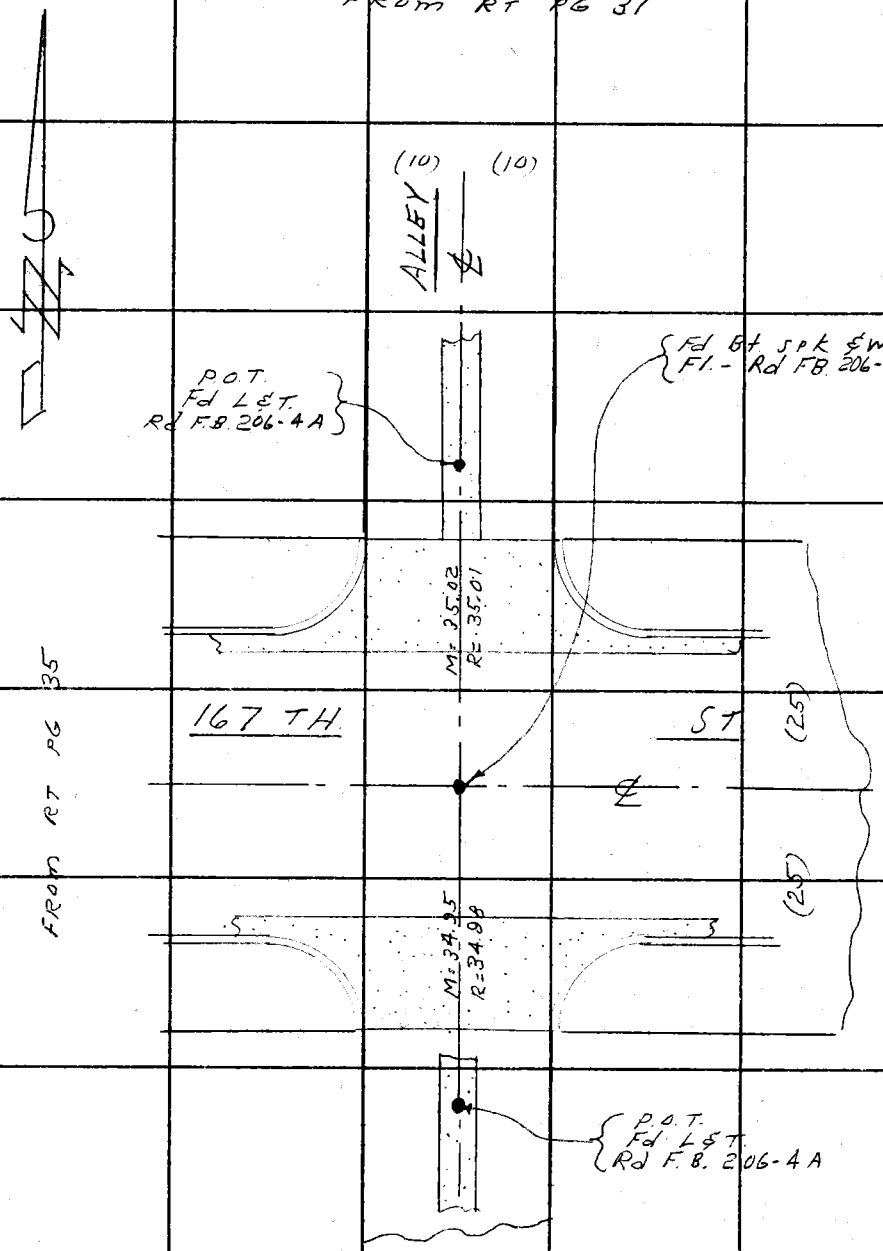
LOS ANGELES COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F309S CE # 310 3-61

F. B. 2583 PG. 38

FROM RT PG 37



FROM RT PG 35

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403 Los Angeles County Engineering Bldg.

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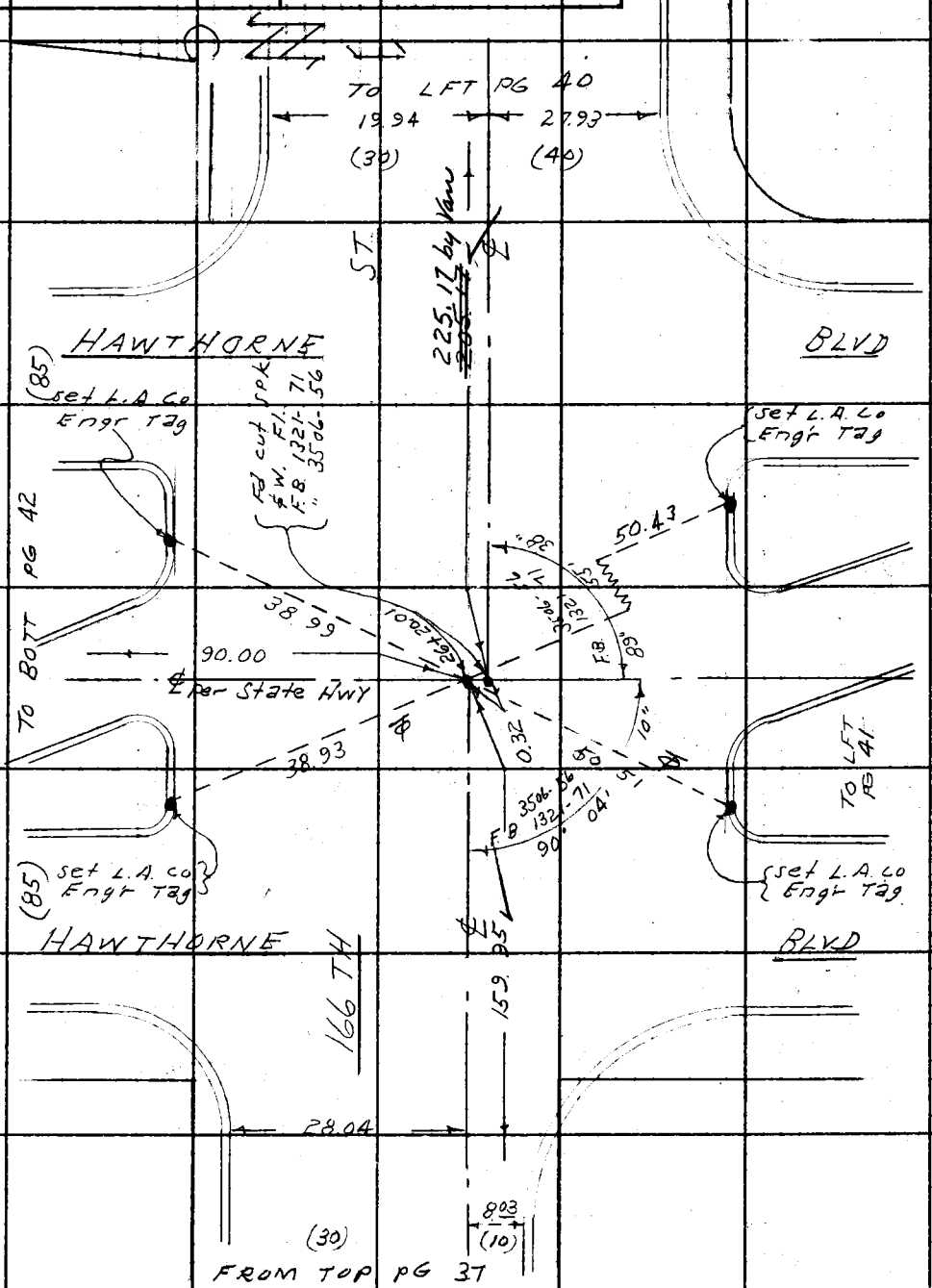
Storm Drain H 602

Notes Ck'd by G. E. BARR	Survey of Hawthorne Blvd	F. B. 2583 PG. 39
Map No.	JN 6268.20 Tape 0209 Std 68 °F	
Office Work	Surveyed by D. Sappell	
Checked	Notes D.S. Date 10-17-63	
Date	Indexed C. J. GALLI	

W.S. 25, C-3



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

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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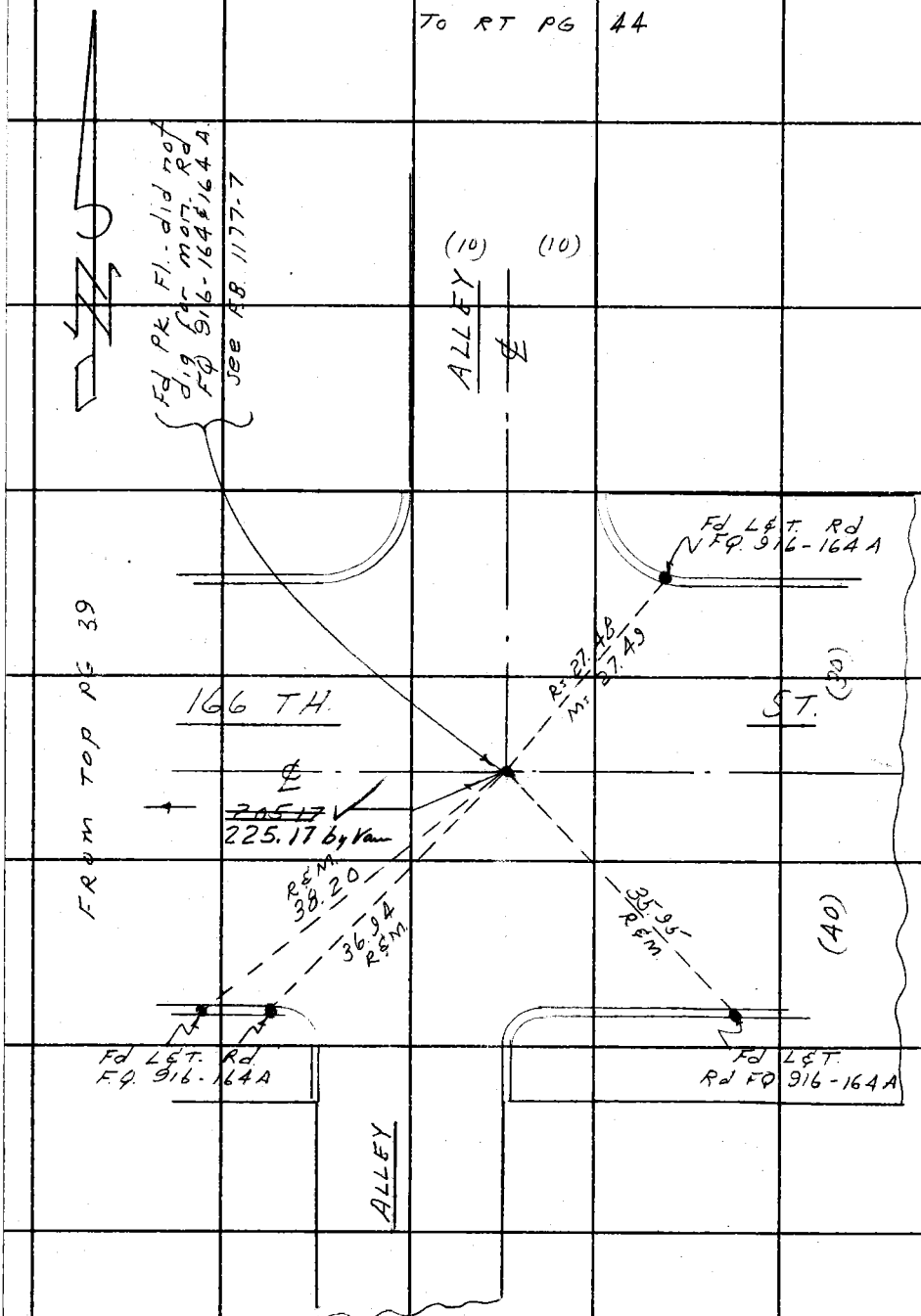
76F3085 CE # 310 3-61

F. B. 2583 PG 40

To RT PG 44



FROM TOP PG 39

~~205.16 Lev T 74° 205.17~~ ✓

225.16 Lev T=74= 225.17 by Van

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403 Los Angeles County Engineering Bldg.
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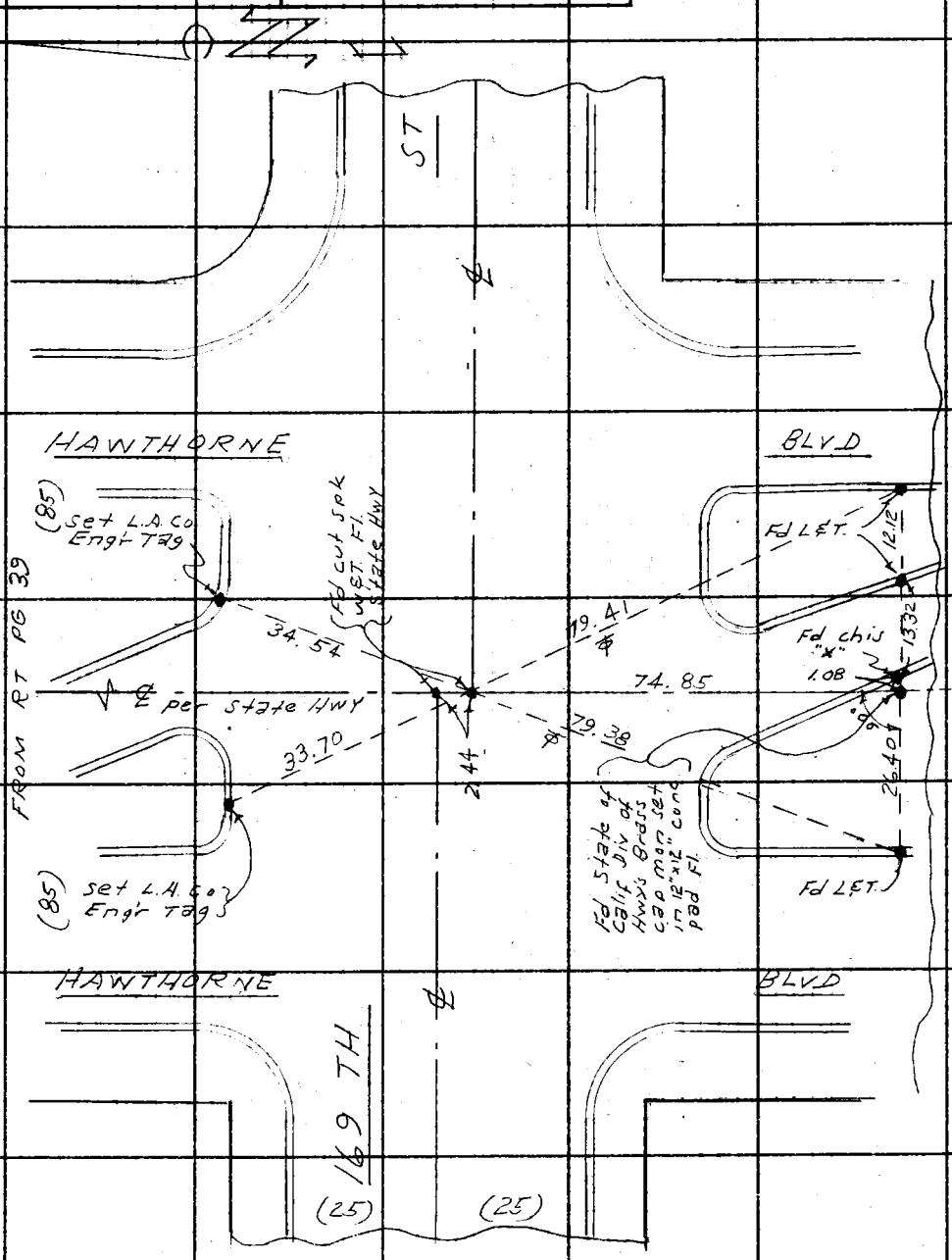
Storm Drain #682

Notes Ck'd by G. E. BARR	Survey of Hawthorne Blvd	F. B. 2583	PG. 41
Map No.	JN 6268.20 Tape 0209 Std. 68 °F		
Office Work	Surveyed by D. Sappell		
Checked	Notes D.S. Date 10-18-63		
Date	Indexed C. J. GALLI		

W.S.25, C-3



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

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F3085 CE # 310 2-61

F. B. 2583 PG 42

TO RT PG 43

FROM LFT PG 39

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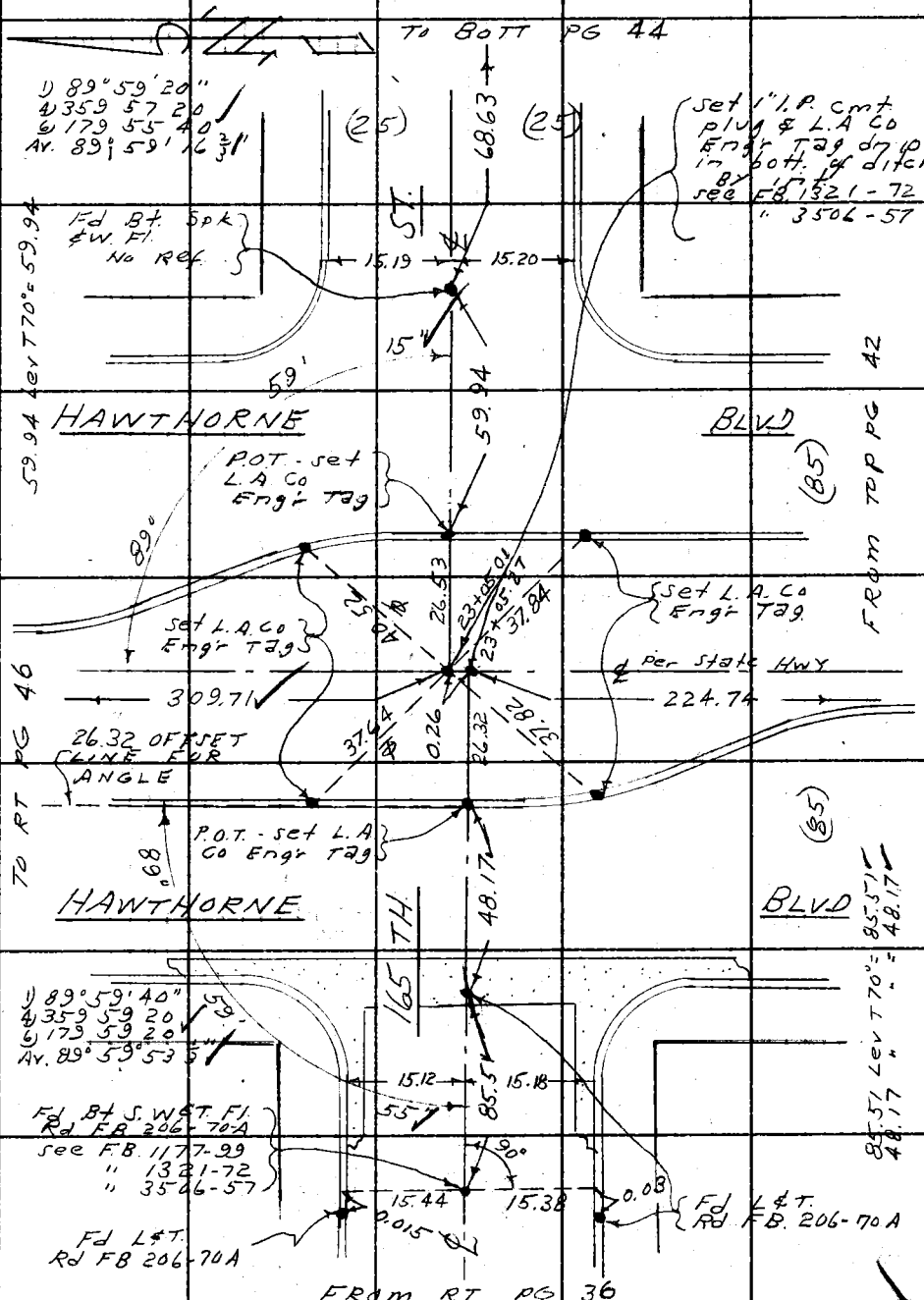
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Storm Drain # 682

Notes Ck'd by G. E. BARR	Survey of Hawthorne Blvd	F. B. 2583 PG. 43
Map No.	JN 6268.20 Tape 0209 Std 68 °F	
Office Work	Surveyed by D. Sappell	
Checked	Notes D.S Date 10-18-63	
Date	Indexed C. J. GALLI	

W.S. 25, C-3



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 this side of this line.

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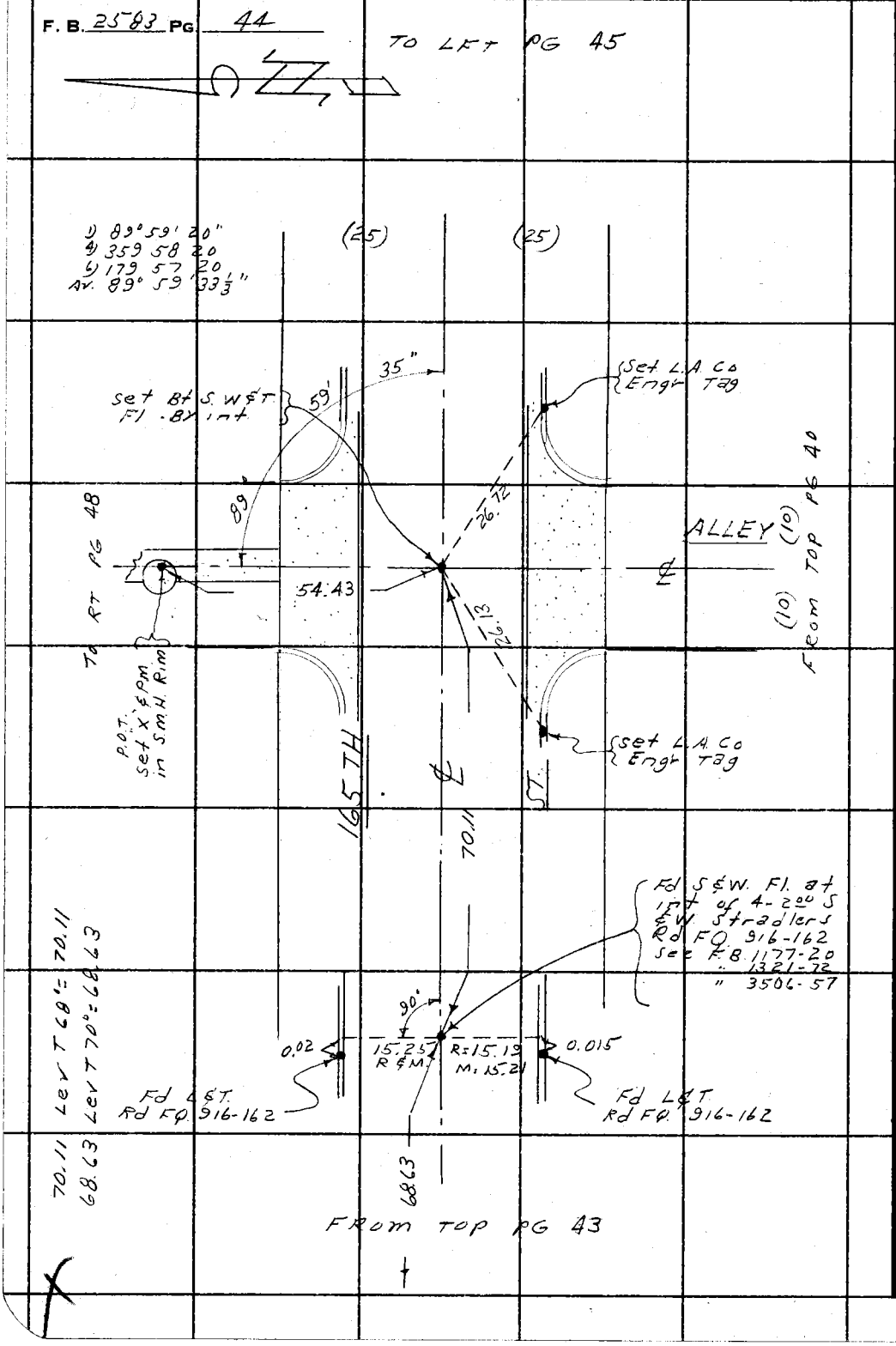
LOS ANGELES COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F3095 CE # 310 2-61

F. B. 2583 PG. 44



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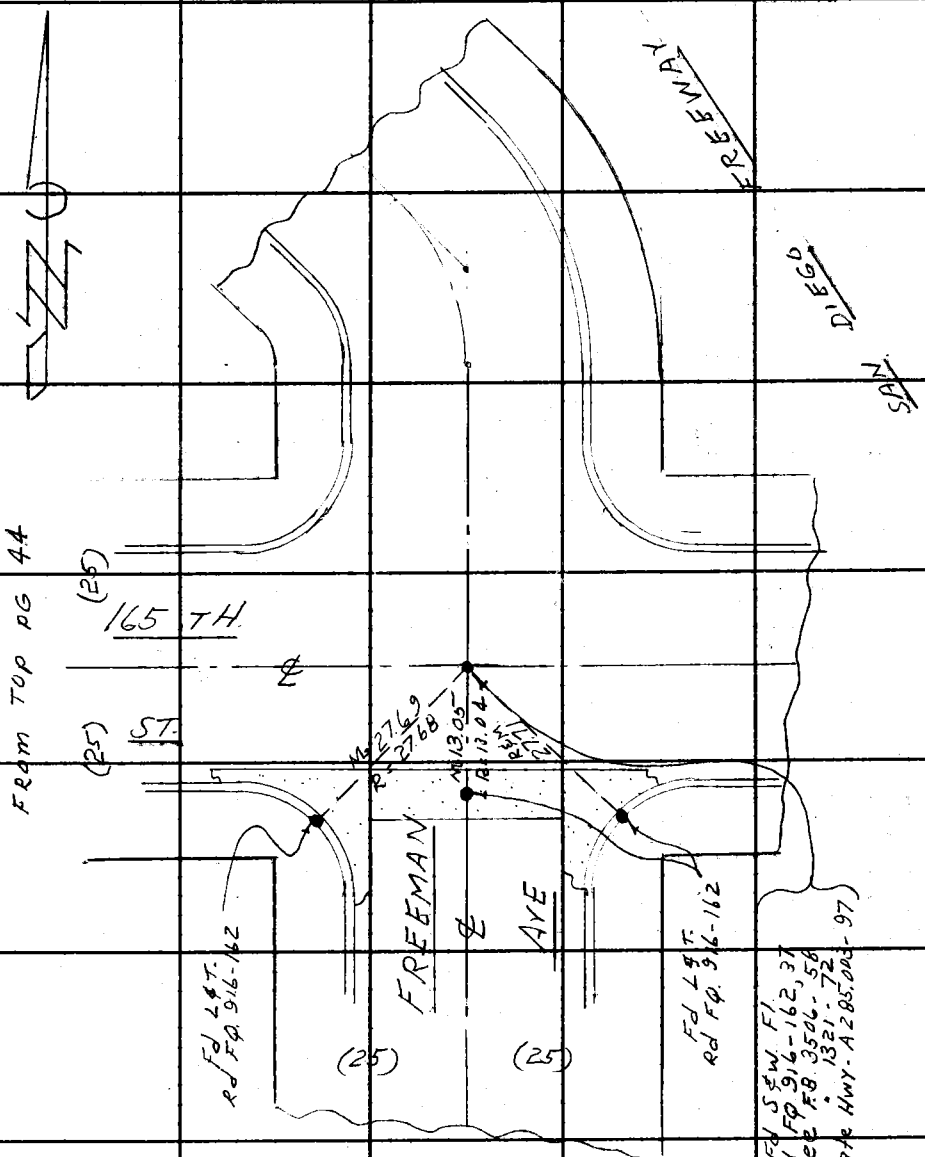
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Storm Drain #682

Notes Ck'd by G. E. BARR	Survey of Hawthorne Blvd	F. B. 2583 PG. 45
Map No.	JN 6268.20 Tape 0209 Std 68 °F	
Office Work	Surveyed by D. Sappell	
Checked	Notes D.S. Date 10-21-63	
Date	Indexed C. L. GALLI	

W.S 25, D-3

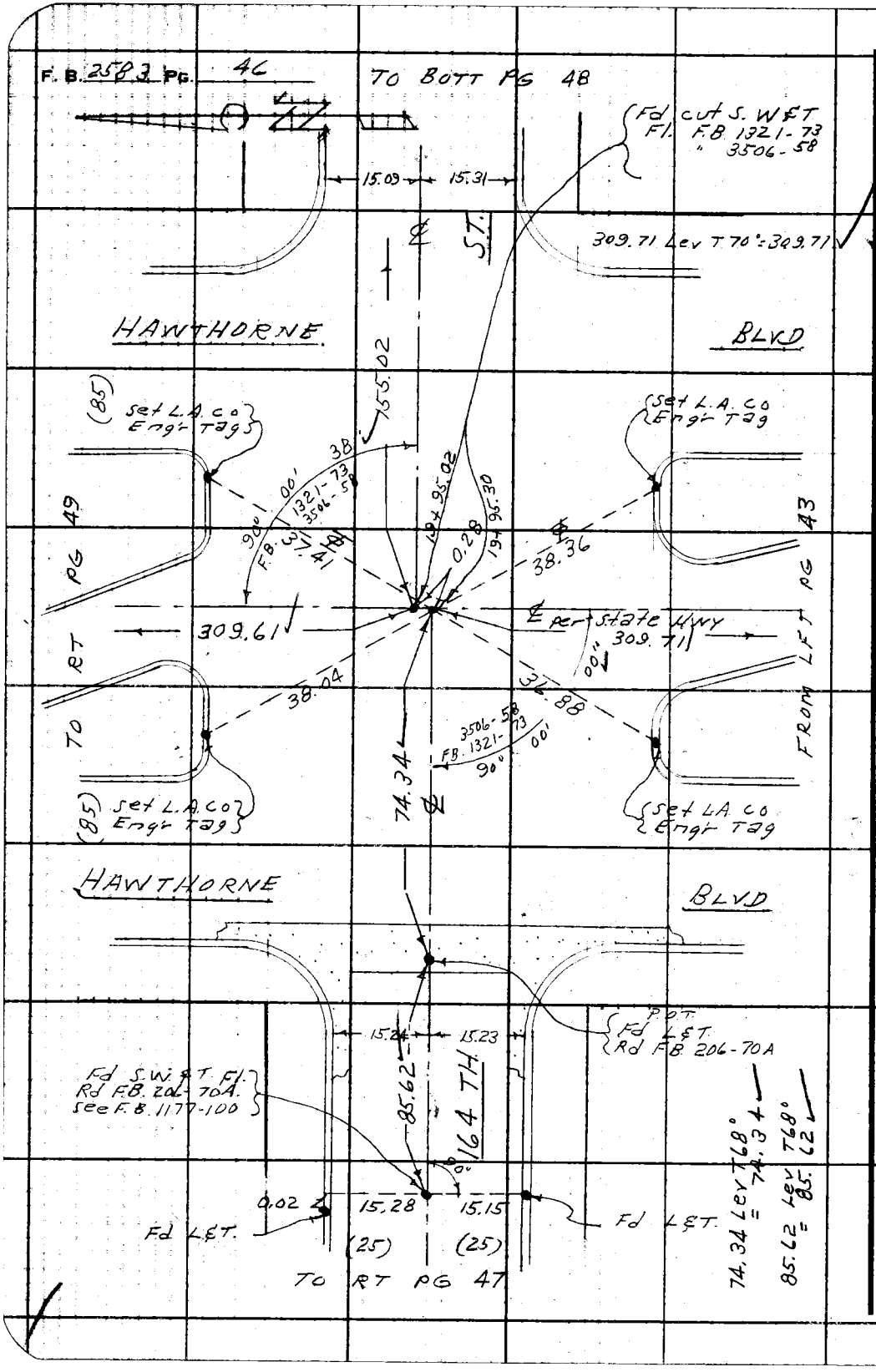


Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Do not extend this side of this line.

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F309S CE #310 6-62



W.S. 25, C-3

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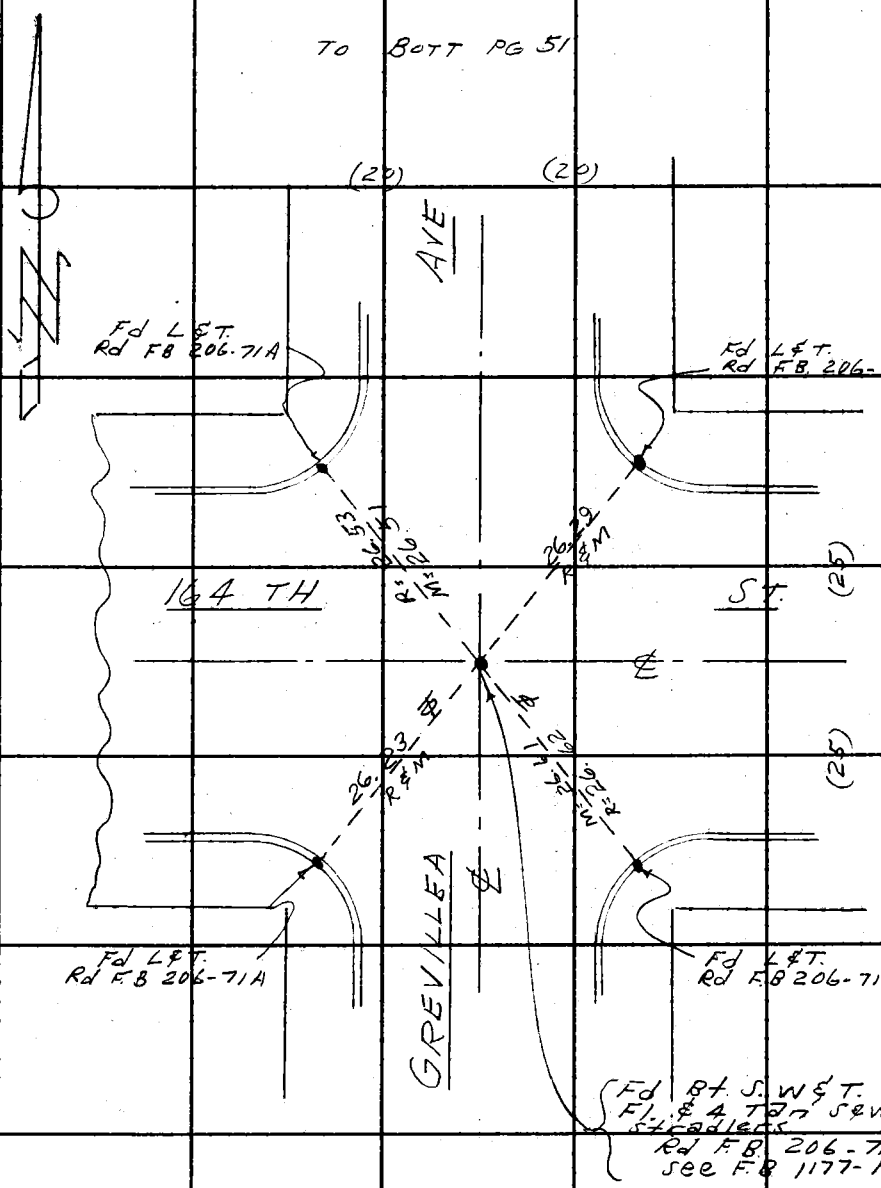
storm Drain #682

Notes Ck'd by G. E. BARR	Survey of Hawthorne Blvd	F. B. 2583 PG. 47
Map No.	JN 6268.20 Tape 0209 Std 62 °F	
Office Work	Surveyed by D. Sappell	
Checked	Notes D.S. Date 10-21-63	
Date	Indexed E. J. GALLI	

W.S 25 C-3



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

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403 LOS ANGELES COUNTY ENGINEERING BLDG.
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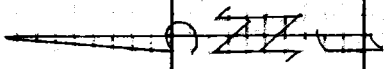
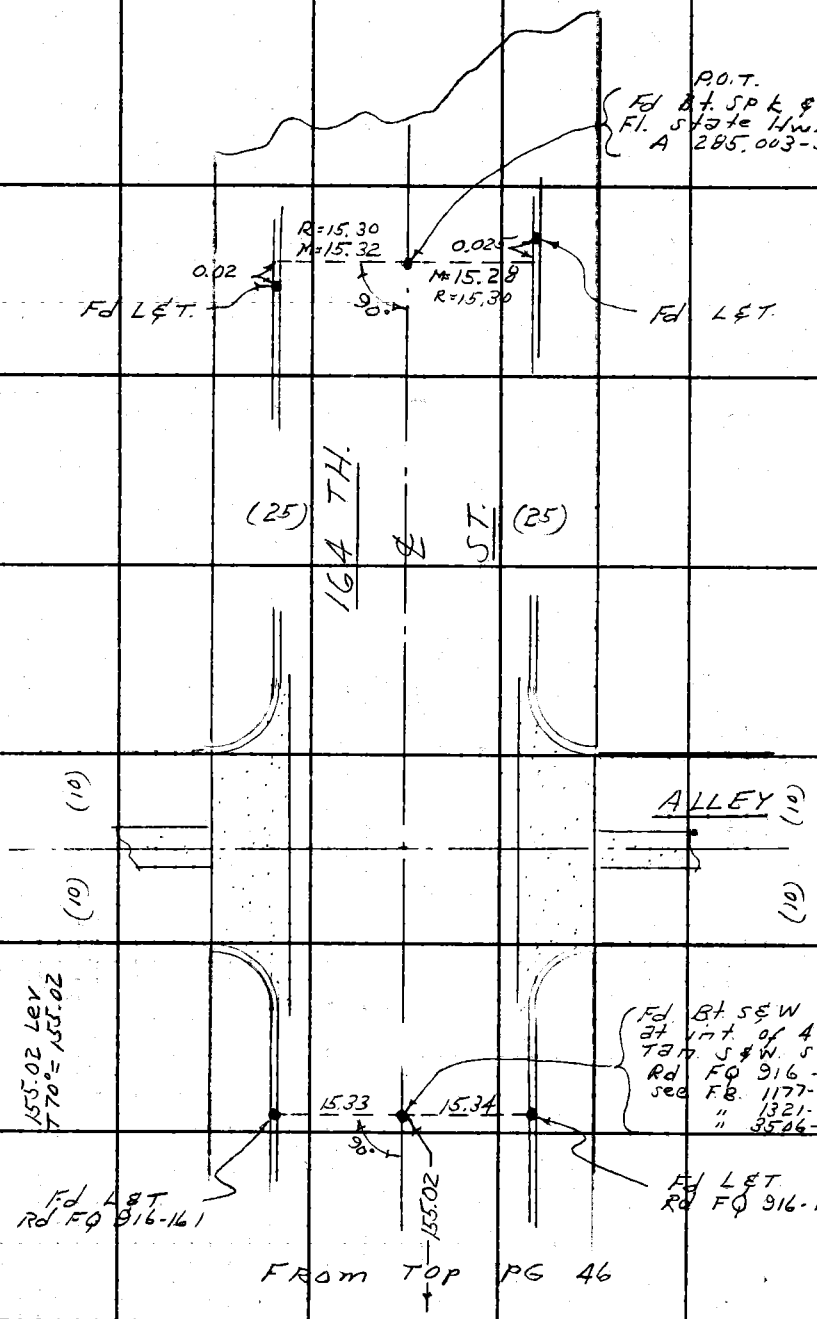
76F3095 CE #310 6-62

F. B. 2583 PG. 48





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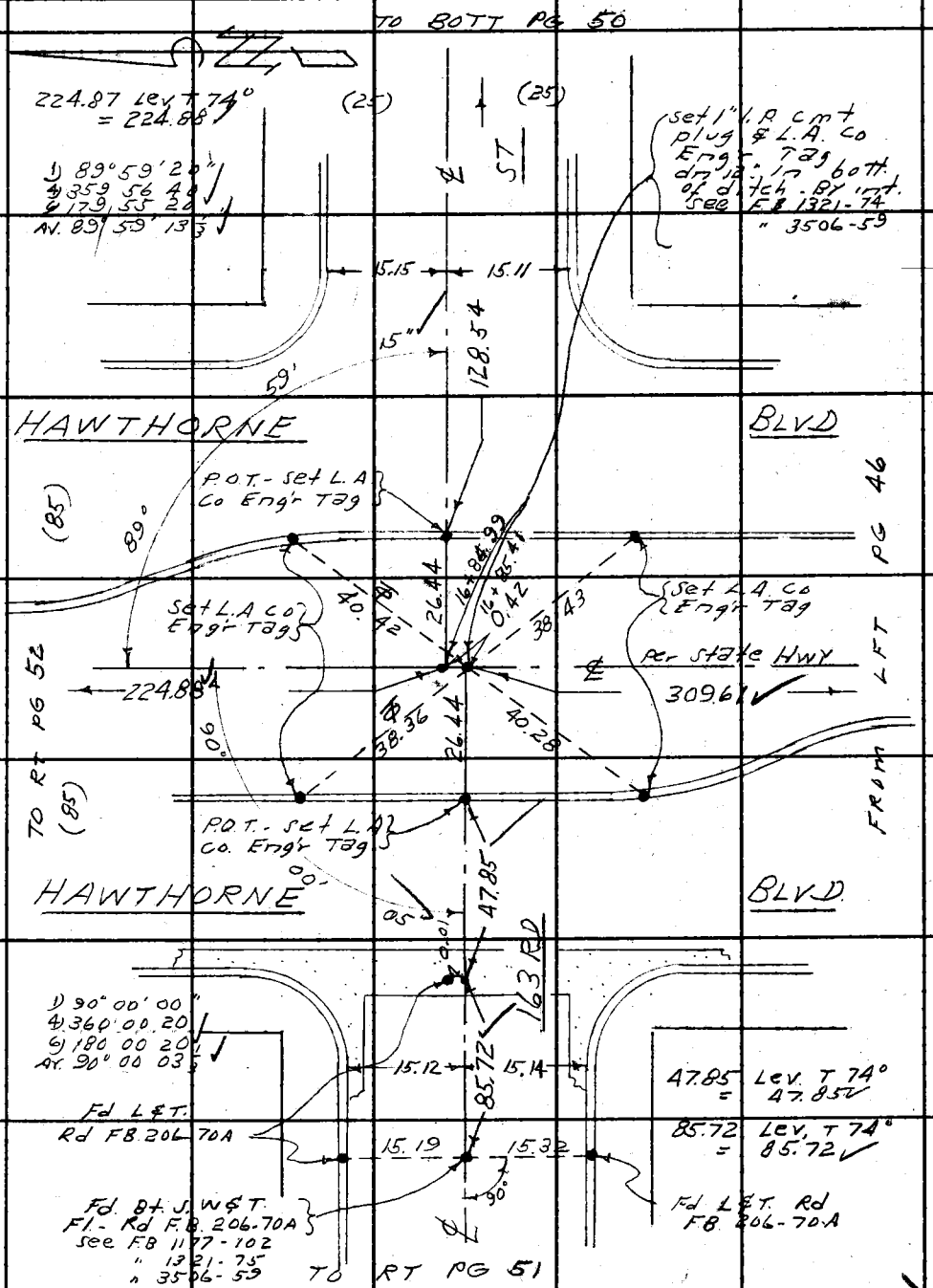
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Storm Drain #682

Notes Ck'd by G. E. BARR	Survey of Hawthorne Blvd	F. B. 2583 PG. 49
Map No.	JN 6268.20 Tape 0209 Std 68 °F	
Office Work	Surveyed by D. Sappell	
Checked	Notes D.S. Date 10-21-63	
Date	Indexed C. J. GALLI	

309.61 Lev T 70° = 309.61



WS.25, C-3

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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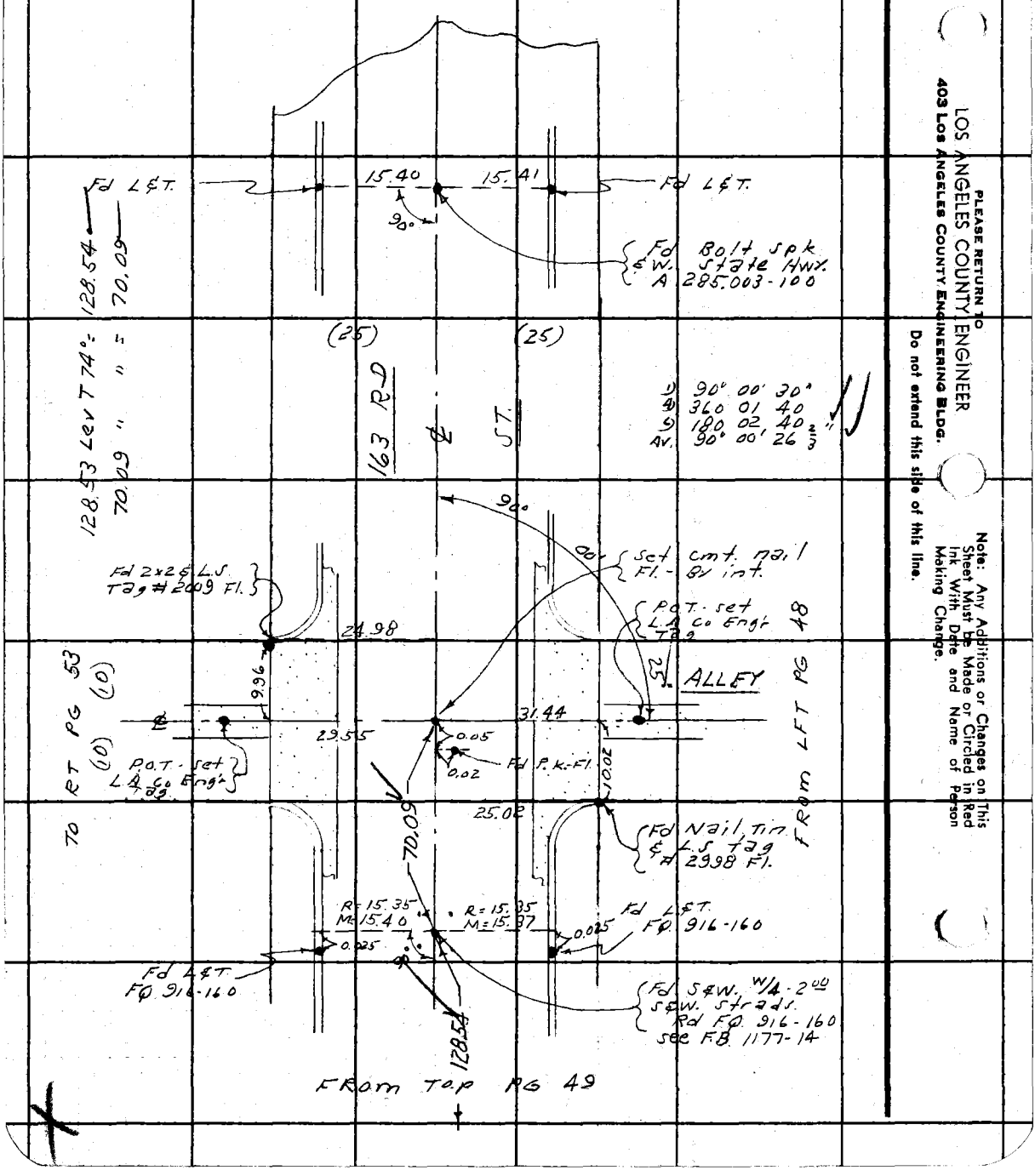
76F3095 CF #310 6-62

F. B. 2583 PG. 50



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403 Los Angeles County Engineering Bldg.
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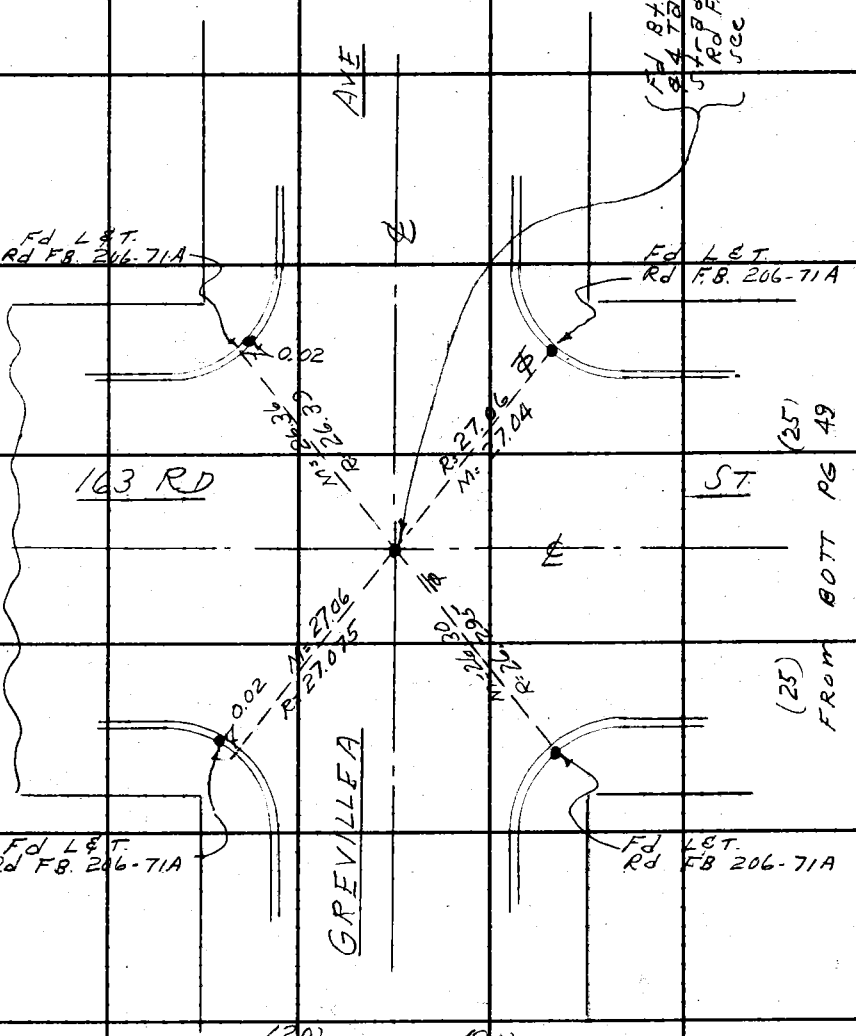
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink, With Date and Name of Person Making Change.

Storm Drain #682

Notes Ck'd by G. E. BARR	Survey of Hawthorne Blvd
Map No.	JN 626820 Tape 0209 Std 68 °F
Office Work	Surveyed by D. Sappell
Checked	Notes D.S Date 10-22-63
Date	Indexed G. J. GALLI

F. B. 2583 PG. 51

W.S.25, C-3



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

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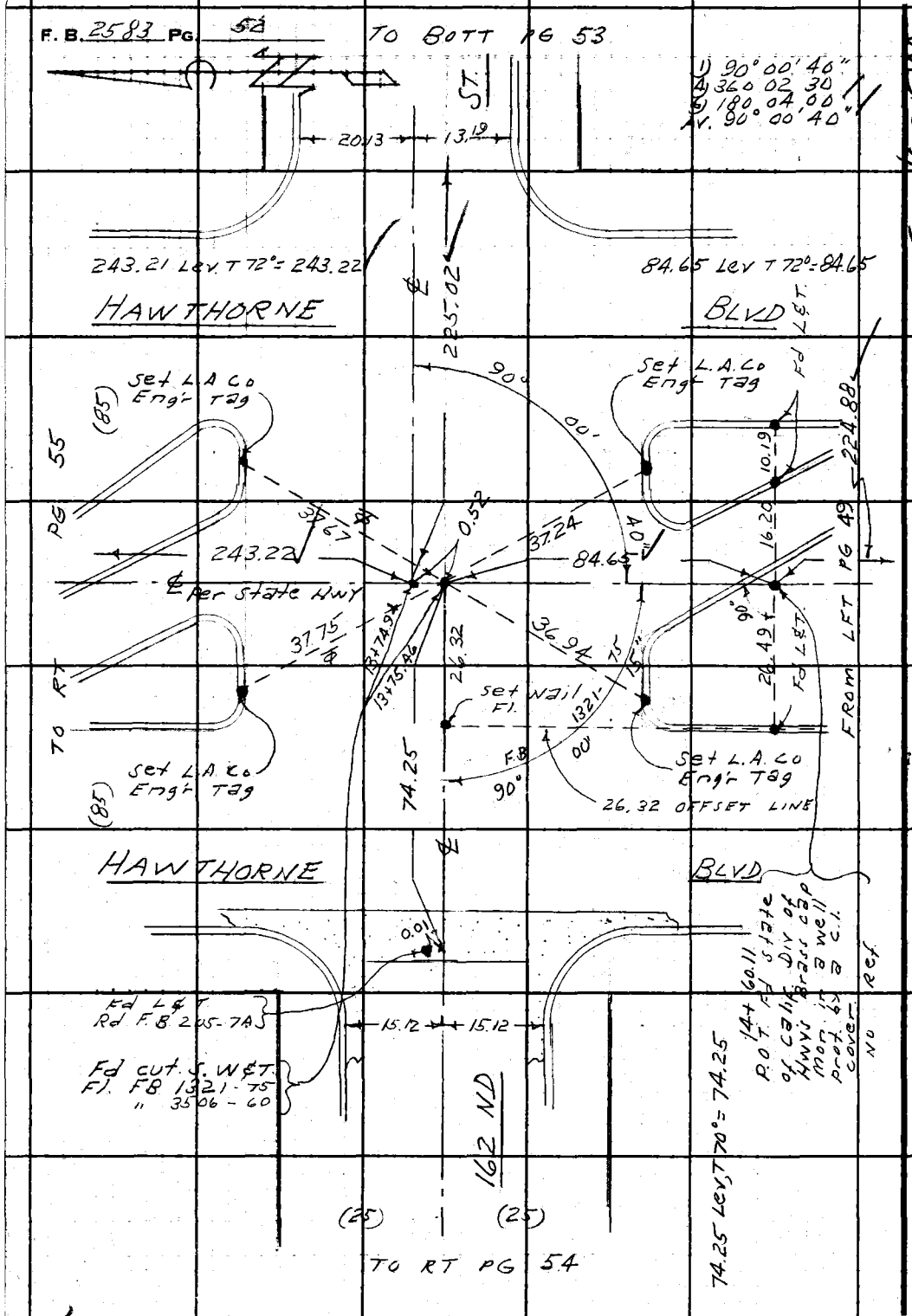
LOS ANGELES COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F3095 CE #3 10 6-62



W.S. 25, C-3

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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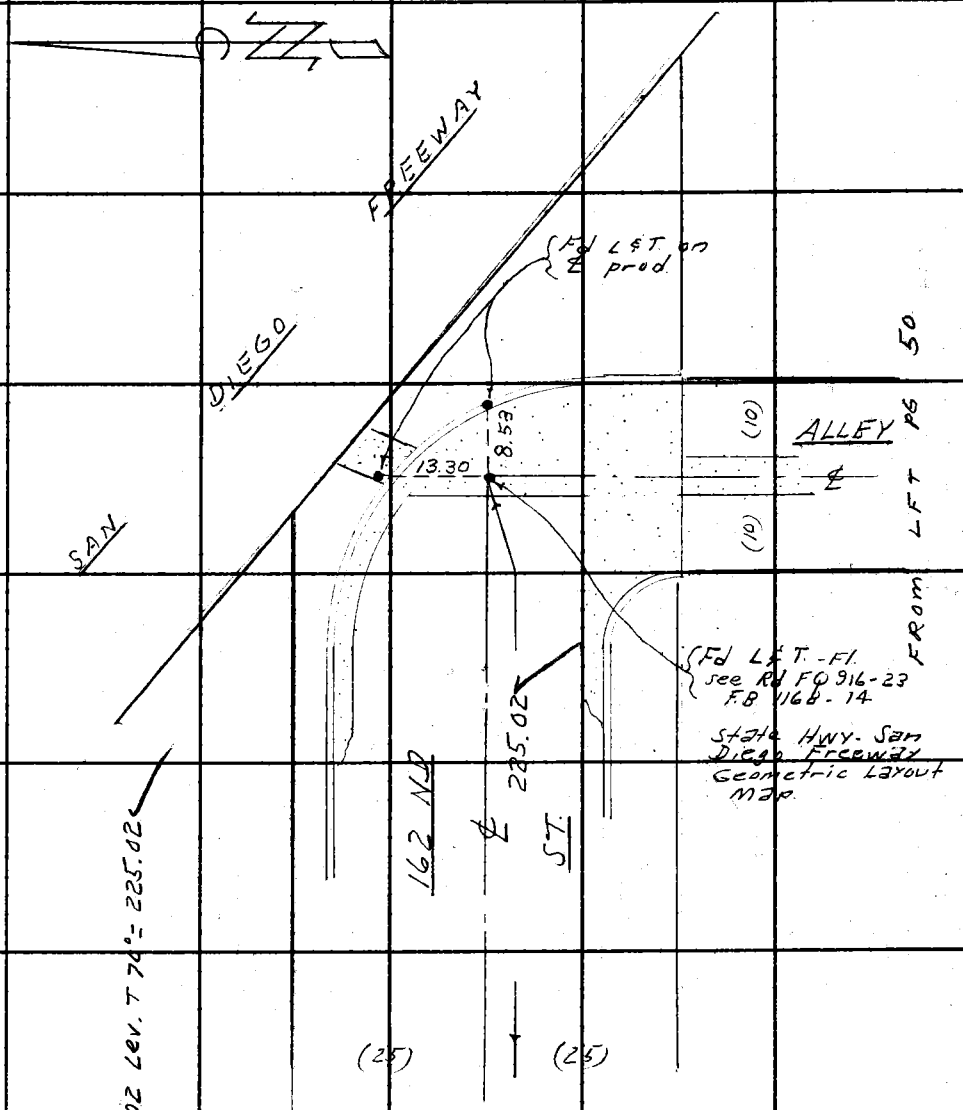
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Storm Drain # 682

Notes Ck'd by G. E. BARR	Survey of Hawthorne Blvd
Map No.	JN 626820 Tape 0209 Std 68 °F
Office Work	Surveyed by D. Sappell
Checked	Notes D.S. Date 10-22-63
Date	Indexed C. J. GALLI

F. B. 2583 PG. 53

W.S. 25, C-3



FROM TOP PG 52

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

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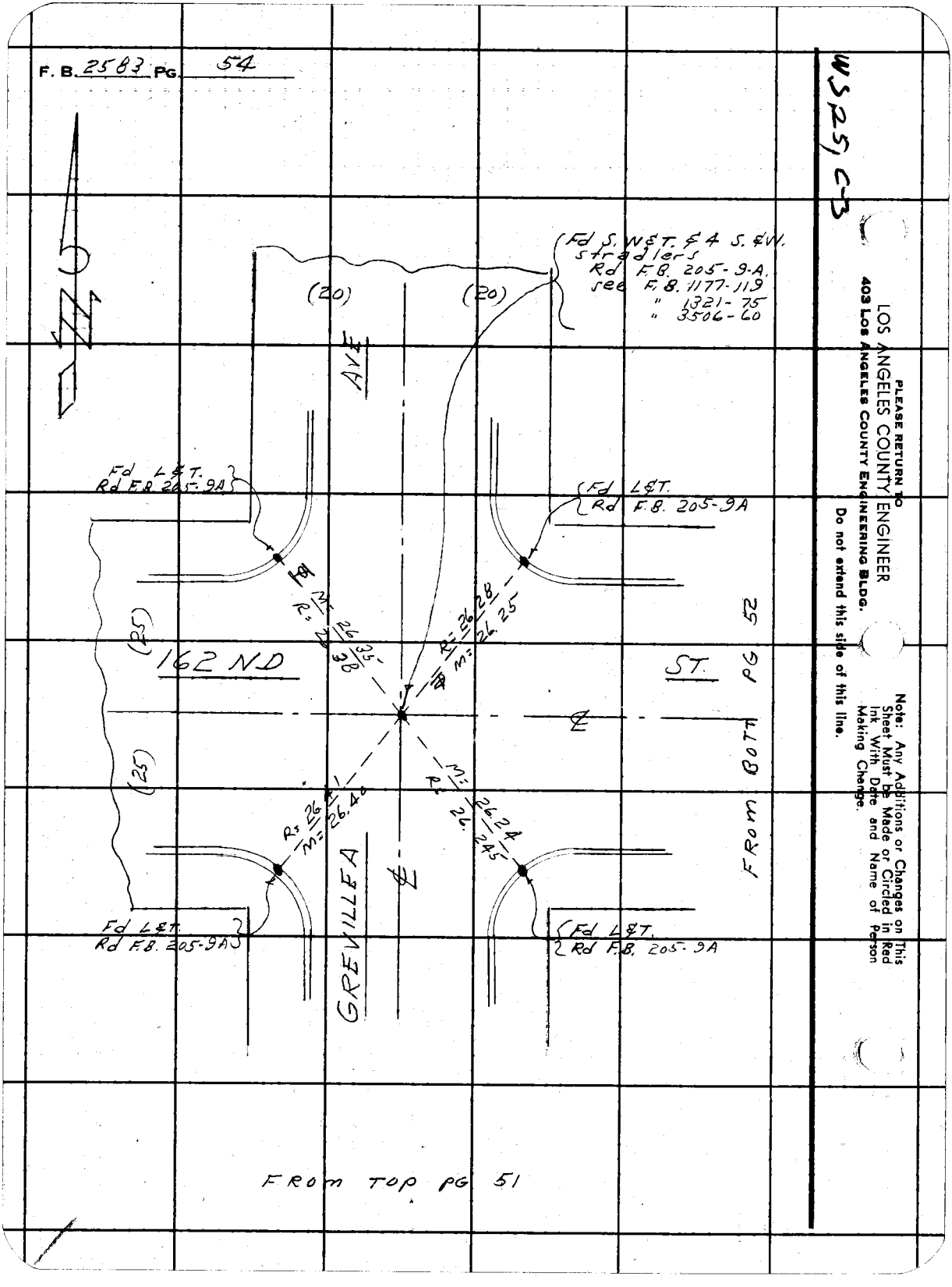
PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F3085 C.E. #310 6-62

F. B. 2583 PG. 54

WS 251 C-3



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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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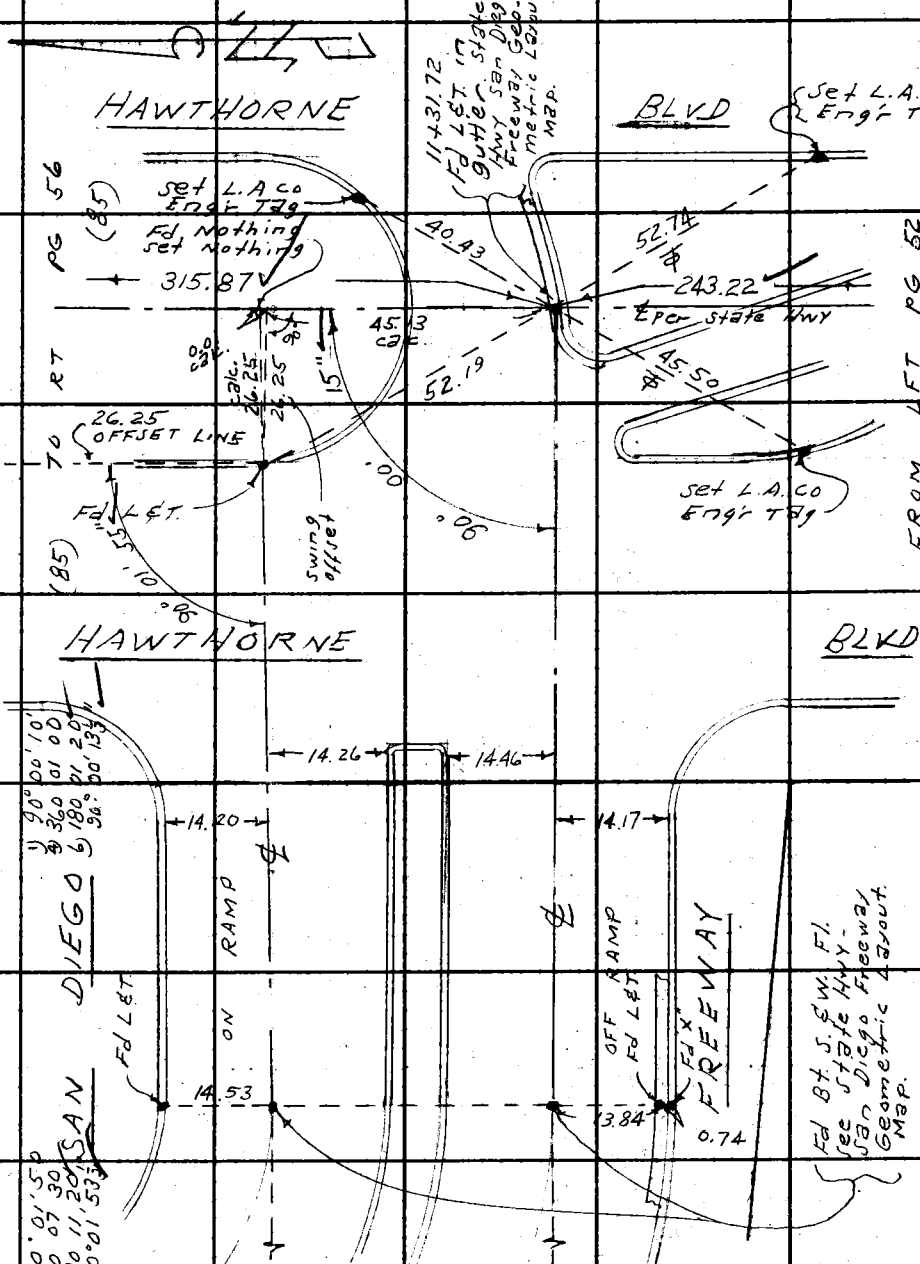
Note: Any Additions or Changes on This Sheet Must Be Made or Circled in Red Ink With Date and Name of Person Making Change.

Storm Drain #682

Notes Ck'd by G. E. BARR	Survey of Hawthorne Blvd
Map No.	JN 6268.20 Tape 0209 Std 68 °F
Office Work	Surveyed by D. Sappell
Checked	Notes D.S. Date 10-22-63
Date	Indexed J. GALLI

F. B. 2583 PG. 55

WS25, C-3



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

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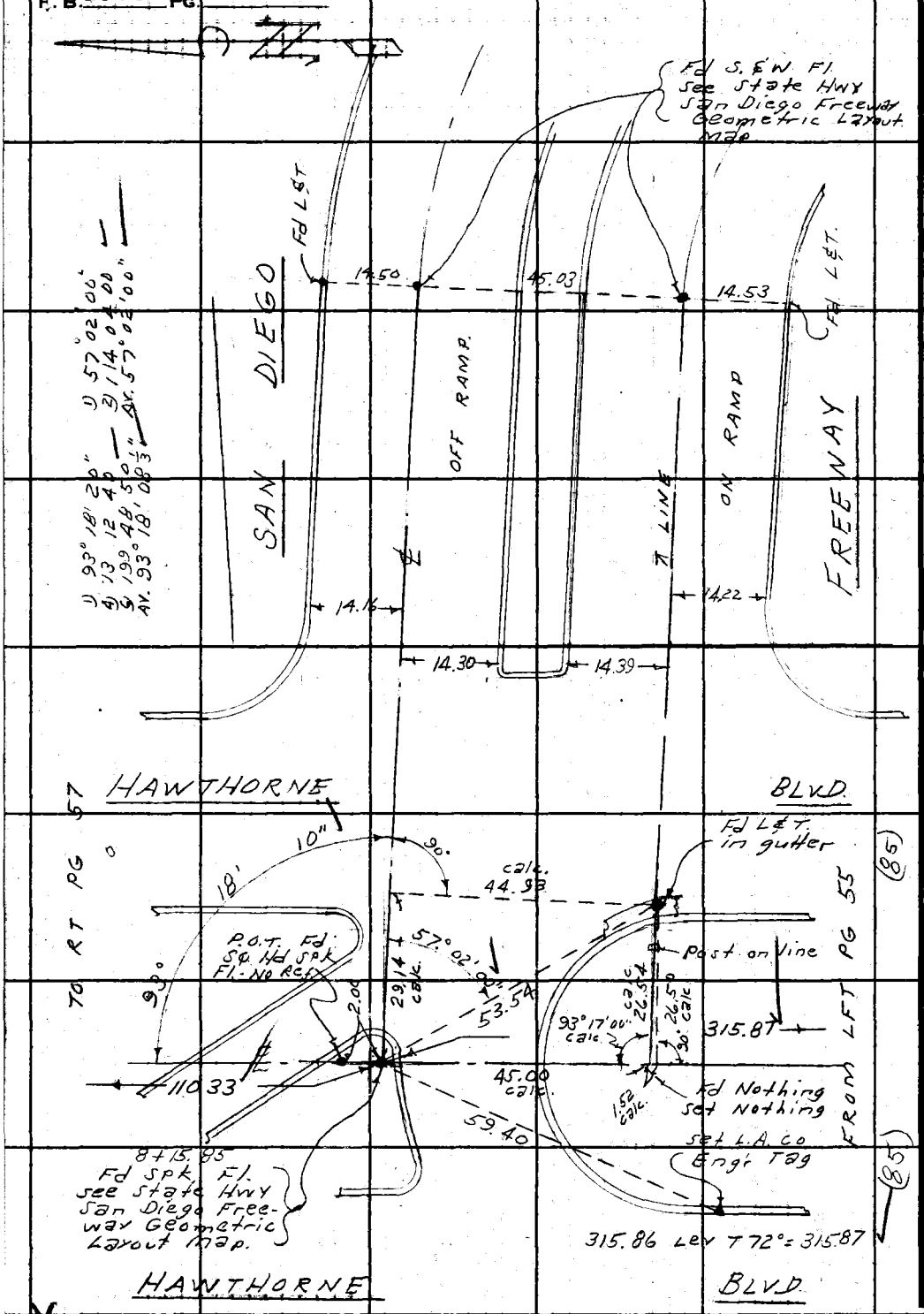
Do not extend this side of this line.

76F309S C.E. #310 6-62

F. B. 2583 PG. 56



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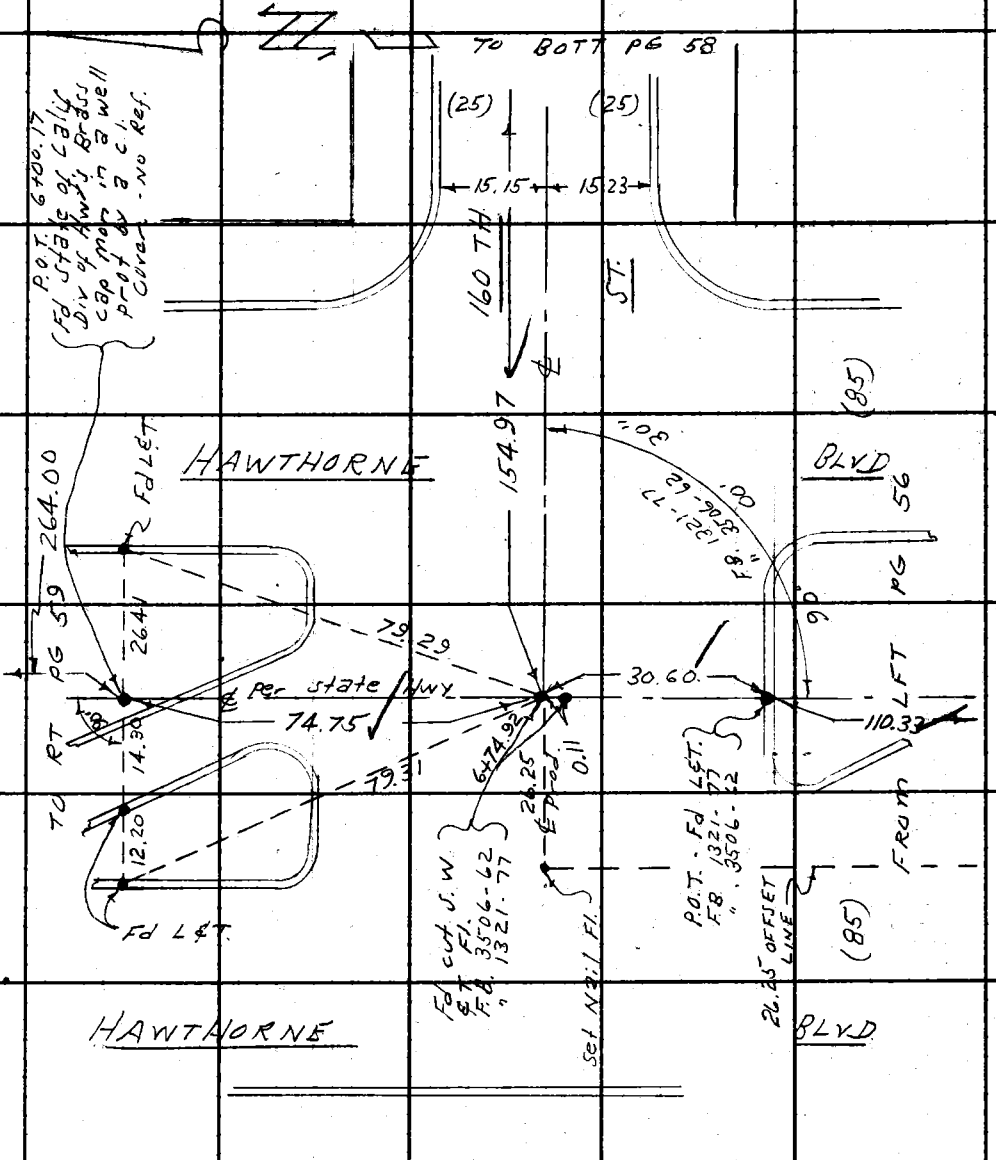
Storm Drain #682

Notes Ck'd by G. E. BARR	Survey of Hawthorne Blvd	F. B. 2583 PG. 57
Map No.	JN 6268 20 Tape 0209 Std 68 °F	
Office Work	Surveyed by D. Sappell	
Checked	Notes D.S. Date 10-23-63	
Date	Indexed C. J. GALLI	

W, S, 25, C-3



74.75 Lev T 68° = 74.75
30.60 " " = 30.60
110.33 " T 72° = 110.33

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

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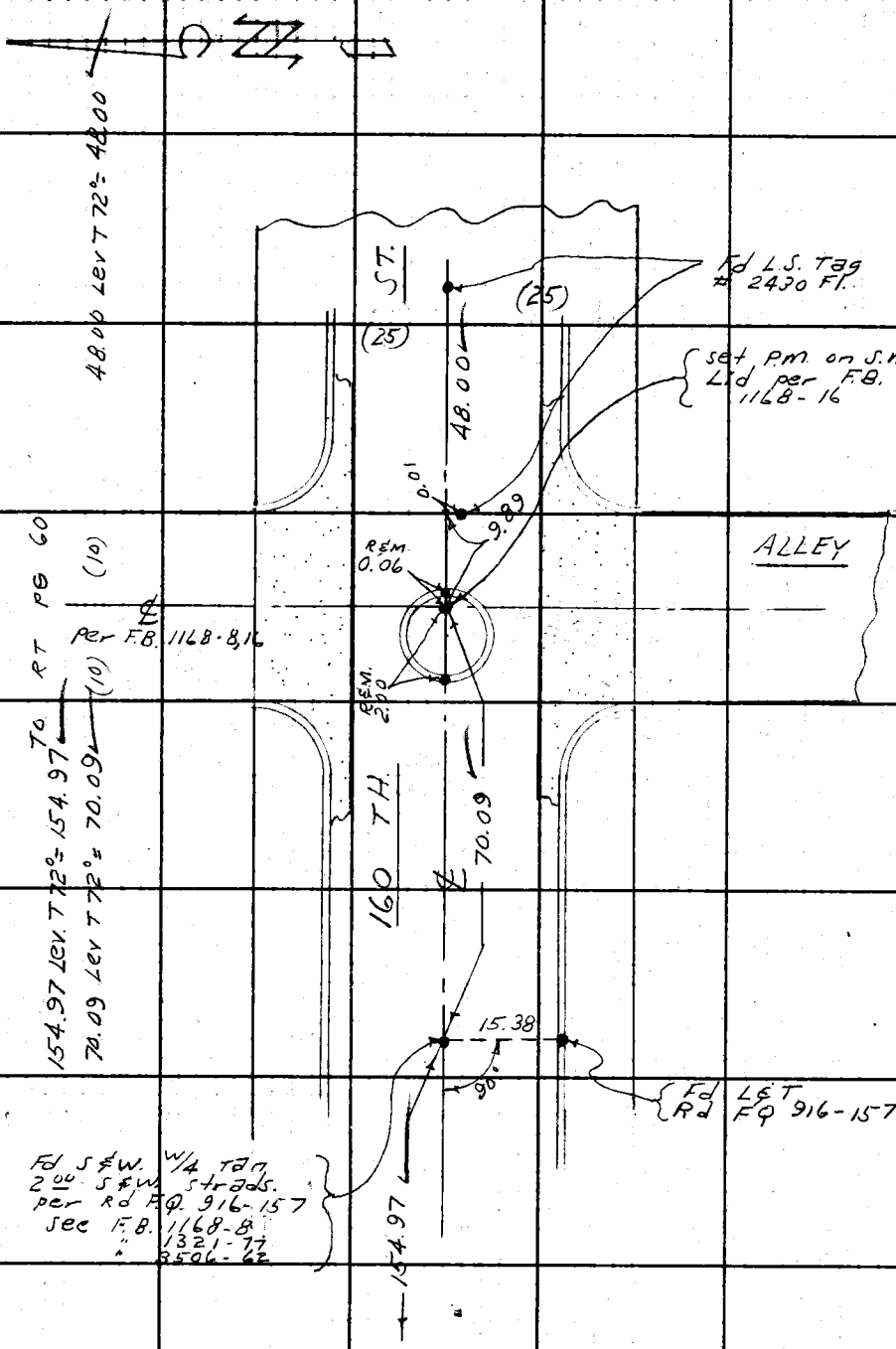
76E3095 CE #310 6-62

F. B. 2583 PG. 58

W S 25 C-3



FROM TOP PG 57

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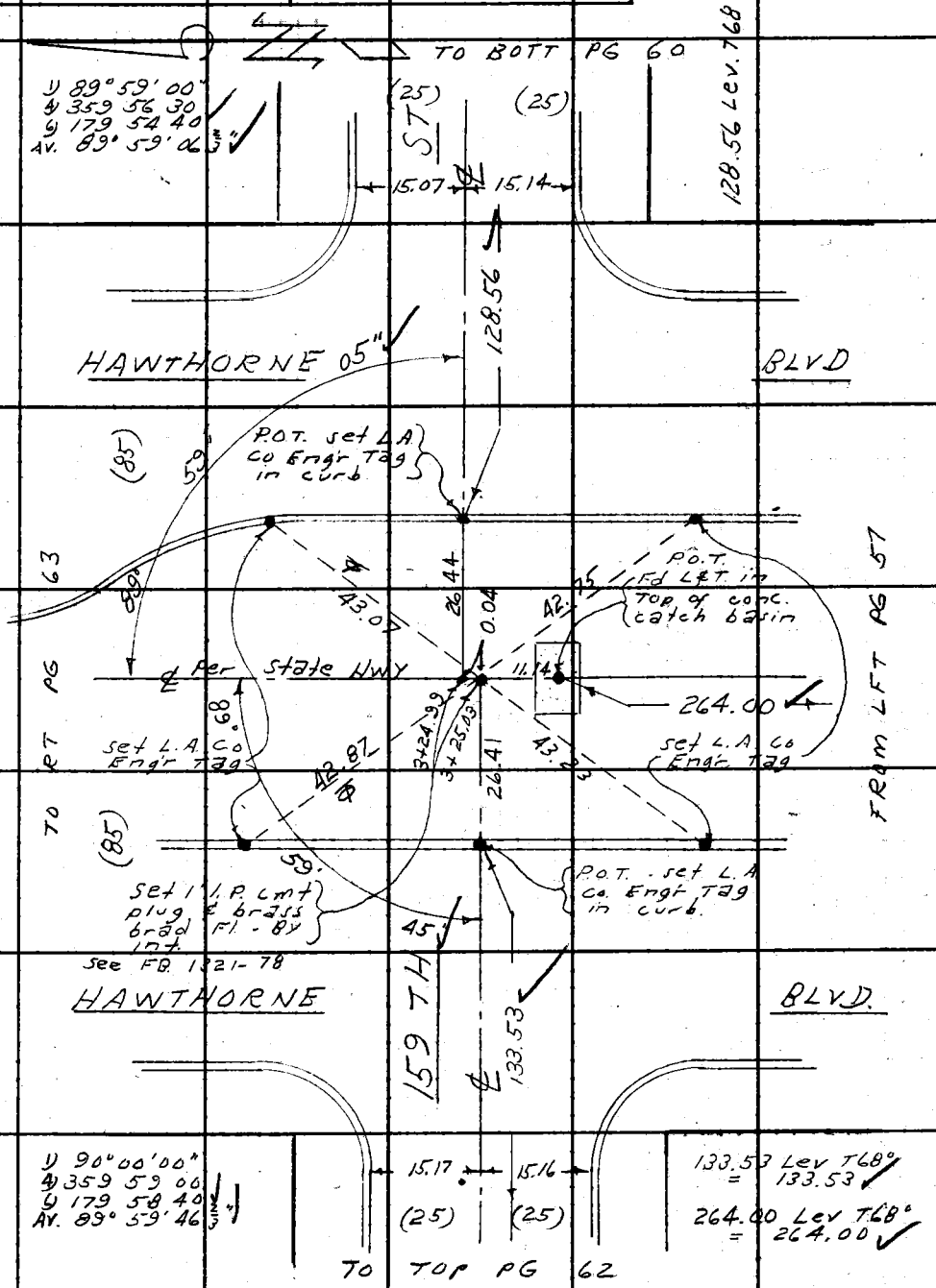
Storm Drain #682

Notes Ck'd by G. E. BARR	Survey of Hawthorne Blvd	F. B. 25 3 Pg. 59
Map No.	JN 6268 20 Tape 0209 Std 68 °F	
Office Work	Surveyed by D. Sappell	
Checked	Notes DS Date 10-23-63	
Date	Indexed C. J. GALLI	

W325, C-3



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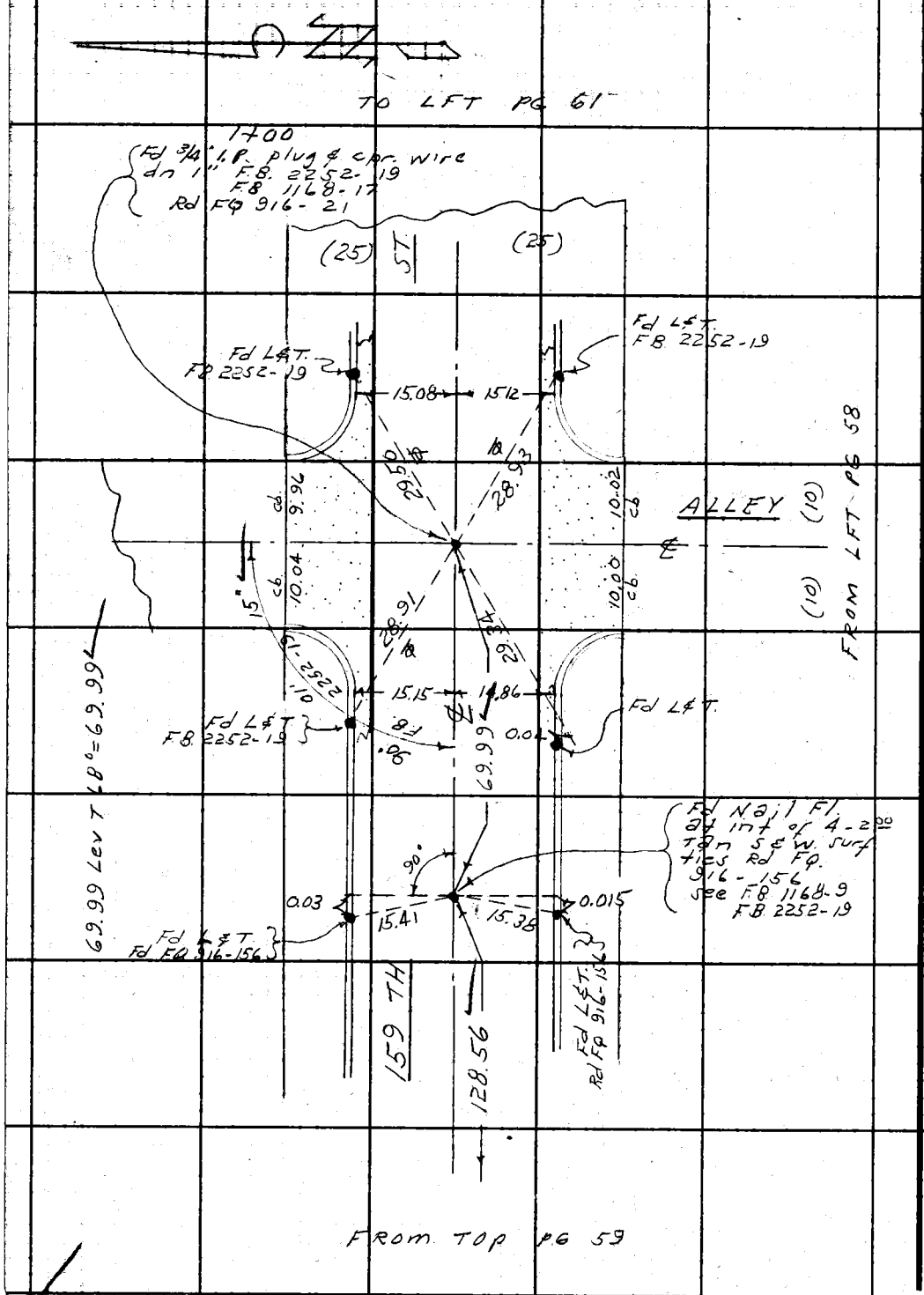
76F309S C.E. #310 6-62

F. B. 2583 PG. 60



W.S. 25, C-3

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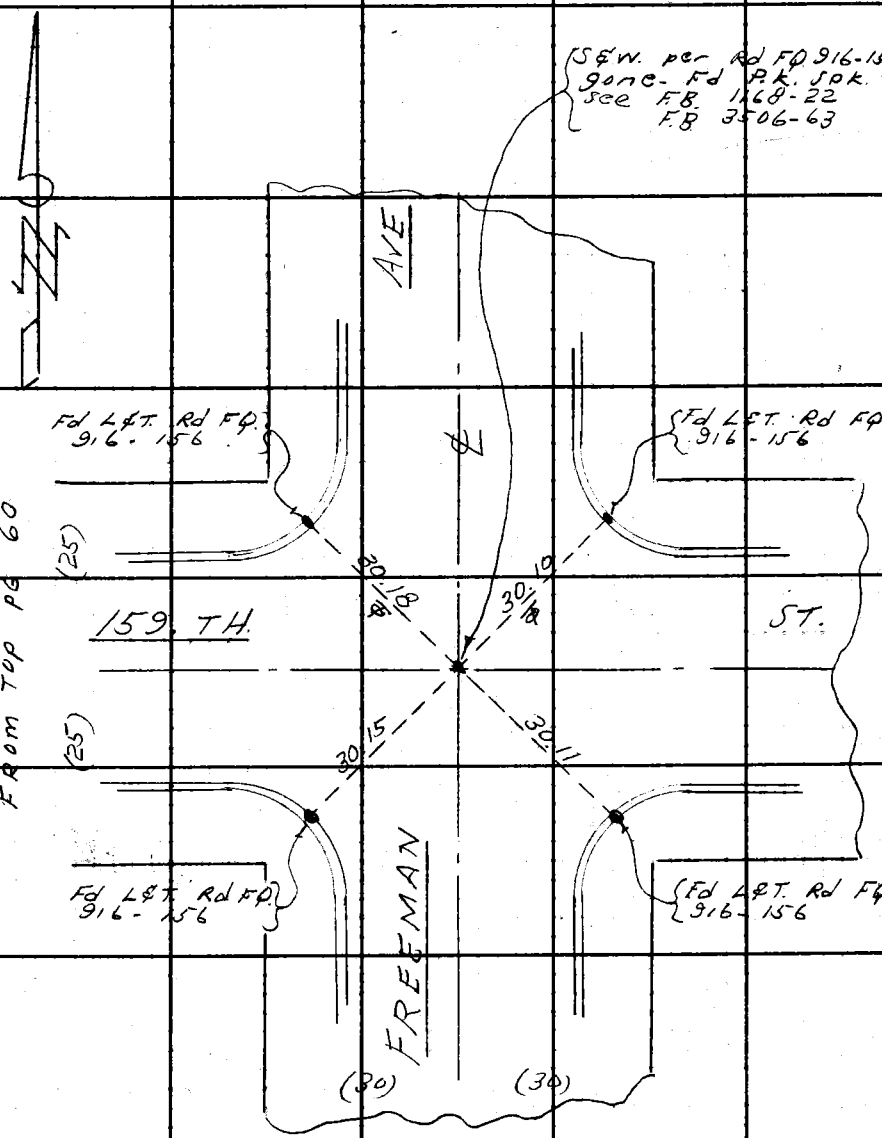
Storm Drain #682

Notes Ck'd by G. E. BARR	Survey of Hawthorn Blvd
Map No.	JN 6268.20 Tape 0209 Std 68 °F
Office Work	Surveyed by D. Sappell
Checked	Notes D.S Date 10-24-63
Date	Indexed C. J. GALLI

F. B. 2583 Pg. 61

W.S. 25, D-3



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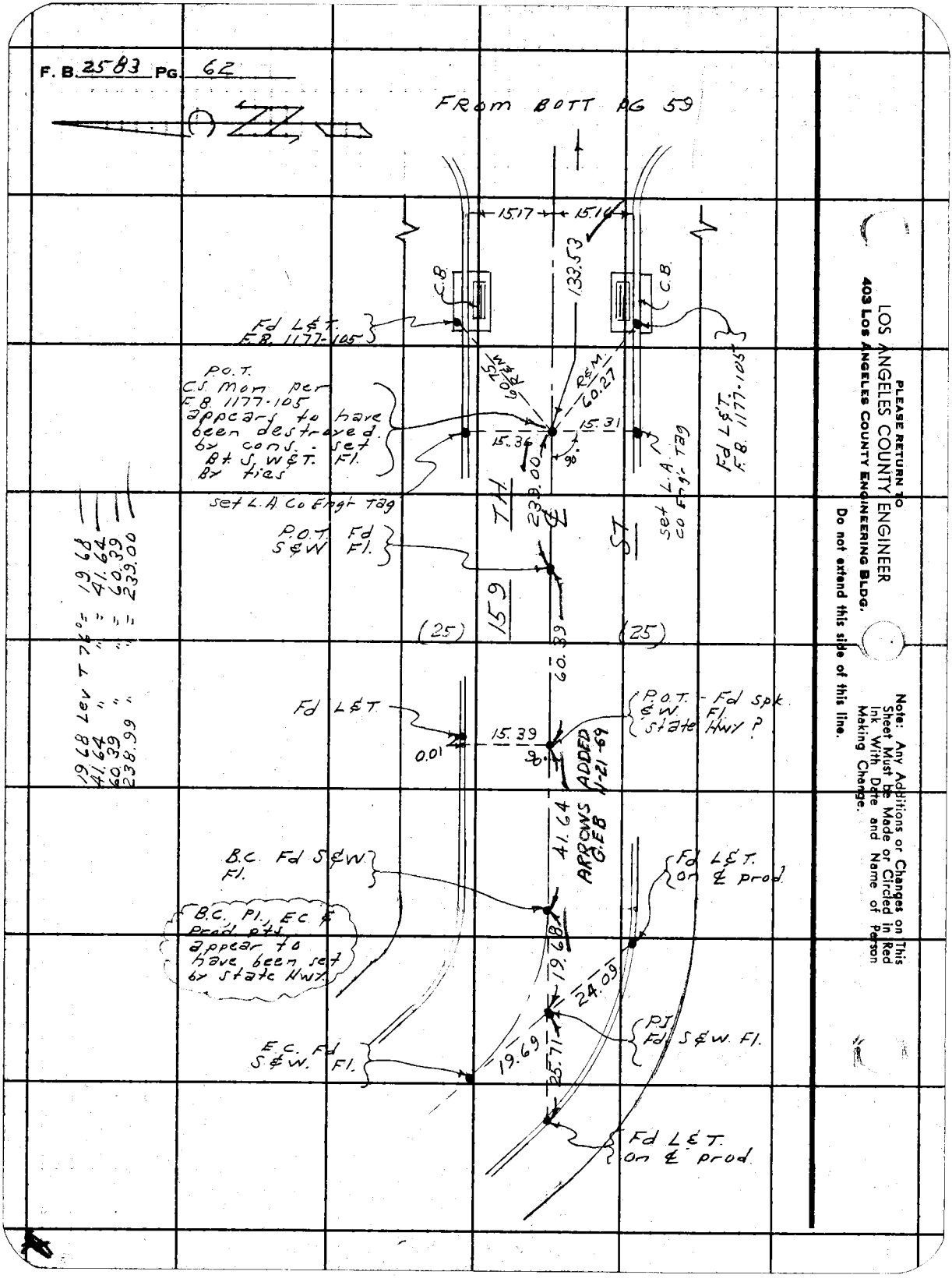
76E3095 C.E. #330 6-62

F. B. 2583 PG. 62



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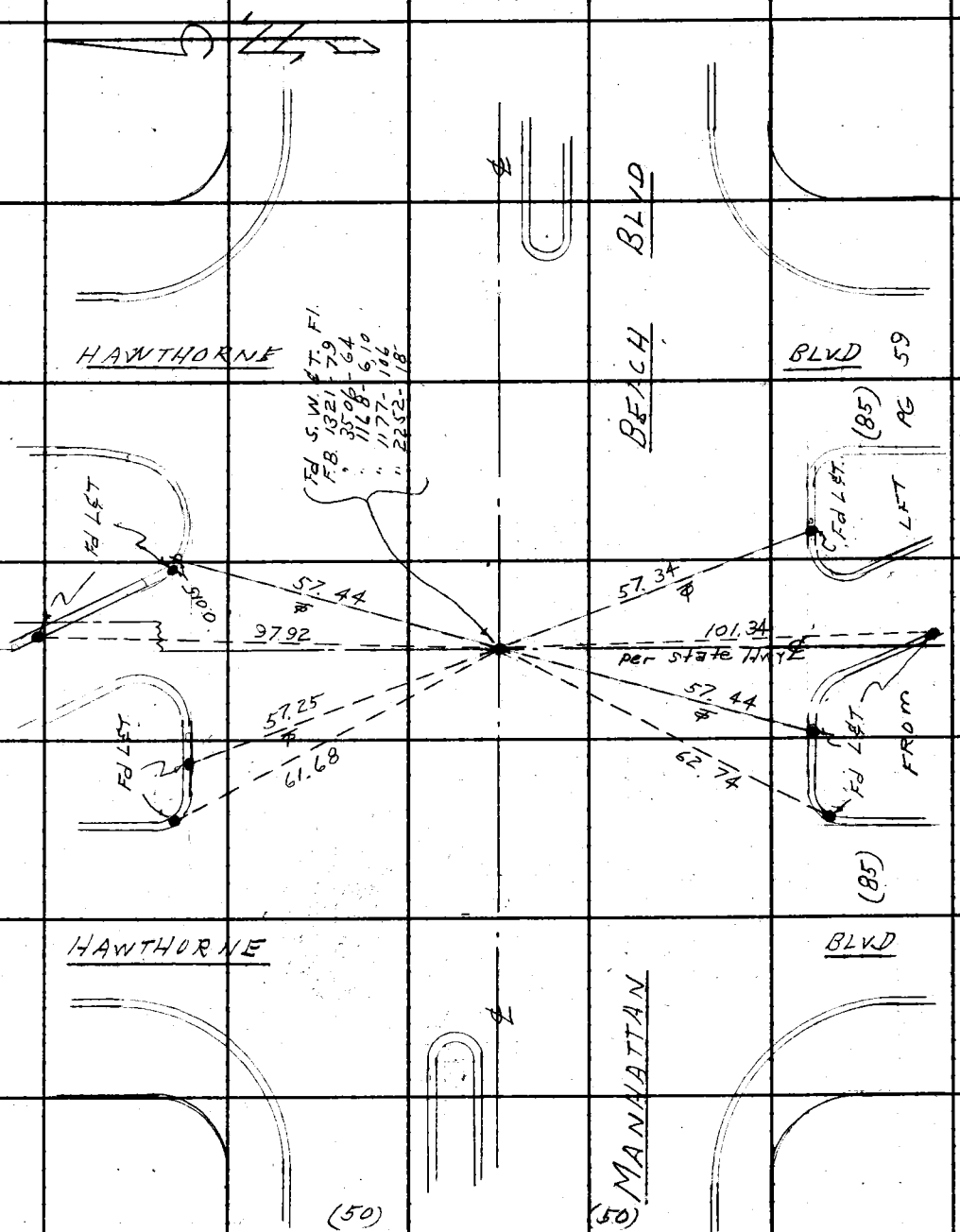
Storm Drain # 682

Notes Ck'd by G. E. BARR	Survey of Hawthorne Blvd	F. B. 2583 PG. 63
Map No.	JN 6268.20 Tape 0209 Std 68 °F	
Office Work	Surveyed by D. Sappell	
Checked	Notes D.S. Date 10-24-63	
Date	Indexed C. J. GALLI	

W.S. 25, C-3



PG 59

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

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76F3095 C.E. #310 6-62

F. B. 2583 PG. 64

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Storm Drain #682

Notes Ck'd by	Survey of Hawthorne Blvd	F. B. 2583 PG. 73
Map No.	JN 6268.20 Tape Std °F	
Office Work	Surveyed by D. Seppel	
Checked	Notes D. Foulger Date 10-28-63	
Date	Indexed C. J. GALLI NOV 22 63	

J.N. 6268.20

HAWTHORNE BLVD.

STORM DRAIN PROJ #682

LOC. OF IMP.

Sappell
Foulger
Lieber
Dupuis
Yamamoto

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76F3095 C.E. #310 6-62

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403 LOS ANGELES COUNTY ENGINEERING BLDG.

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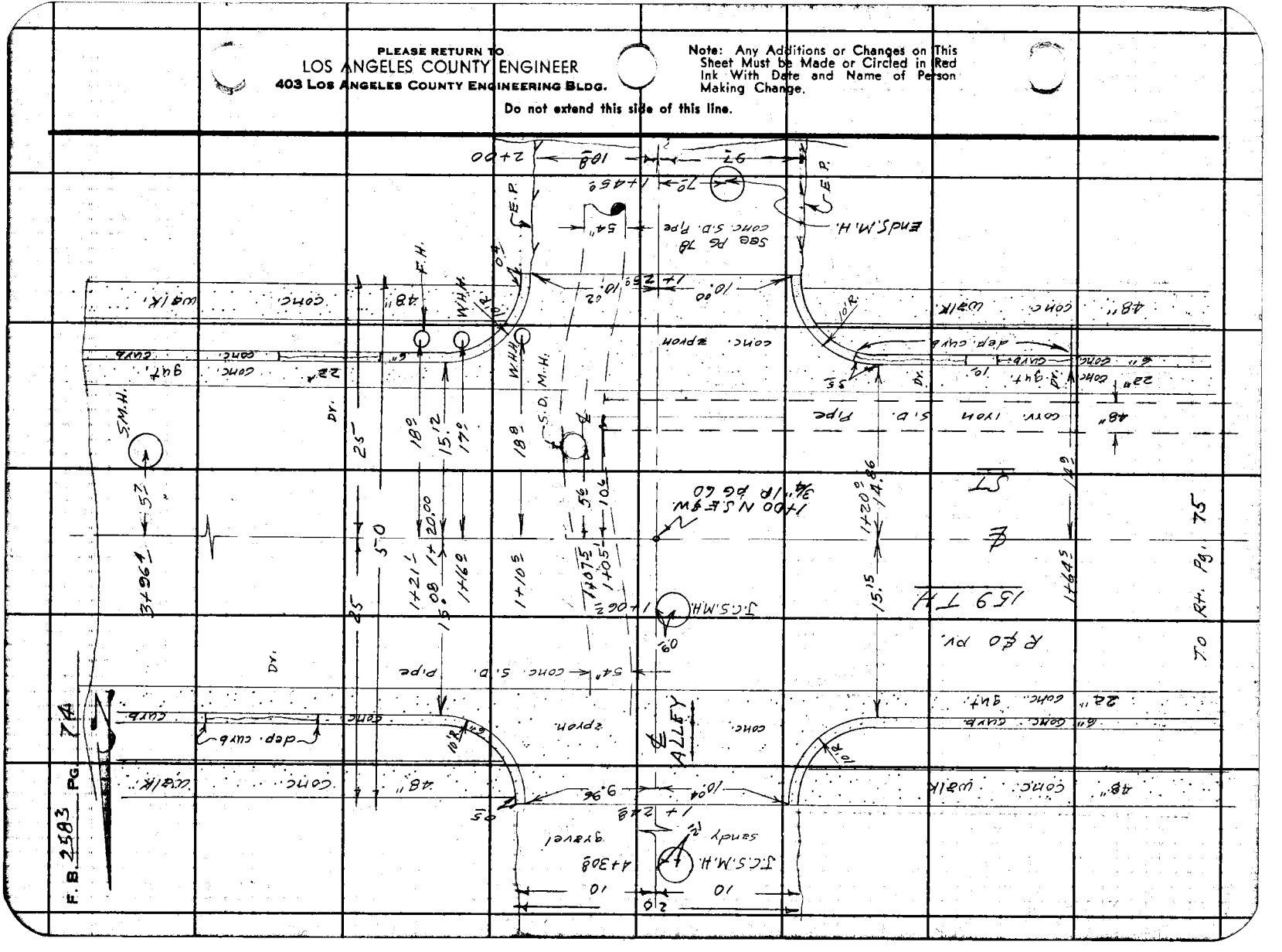
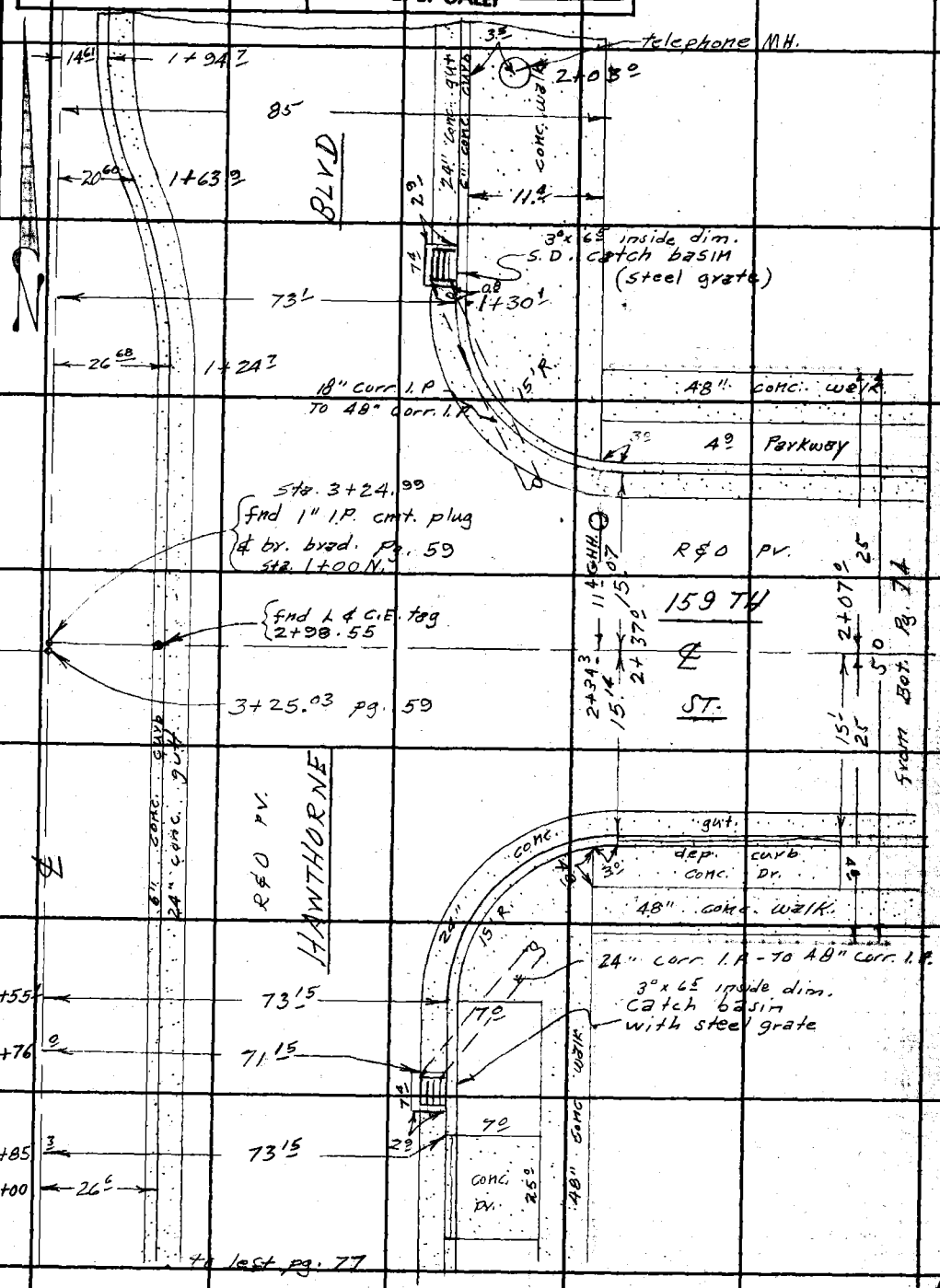


Storm Drain #682

Notes Ck'd by	Survey of Hawthorne Blvd
Map No.	JN 6268.20 Tape Std °F
Office Work	Surveyed by D. Sappel
Checked	Notes D. Faulger Date 10-28-63
Date	Indexed C. J. GALLI

F. B. 2583 PG. 75



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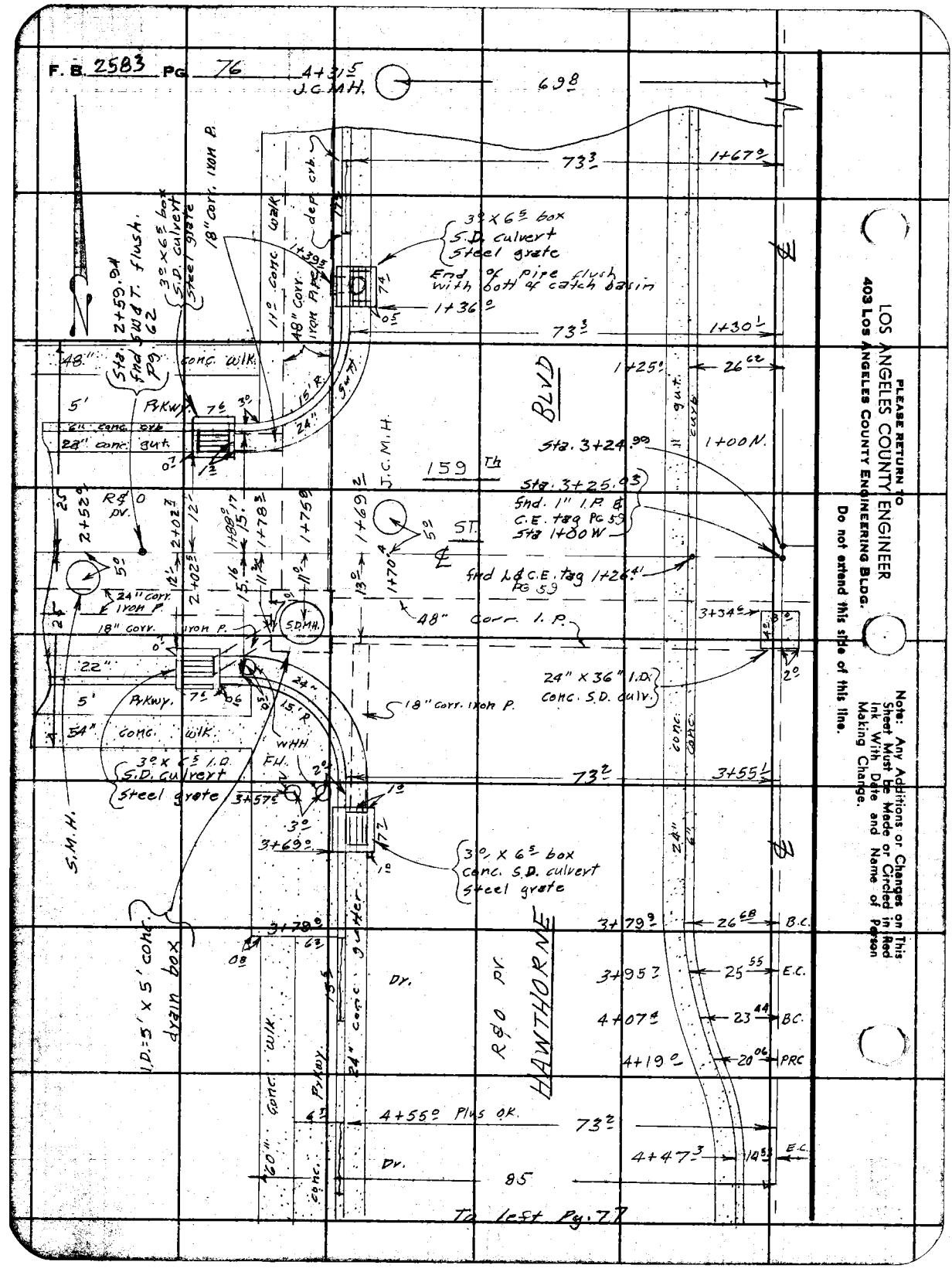
PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F3095 CE #310 8-62


F. B. 2583 PG. 76
4+31.5 J.C.M.H.
69.8
73.3
1+67.0
3° x 6.5 box
S.D. culvert
Steel grate
End of pipe flush with bott of catch basin
1+36.0
73.3
1+30.1
18" corr. iron P.
dep. crb.
11° conc. walk
48" corr. iron pipe
1+39.5
Sta. 2+59.94 fnd SW & T. flush. Pg. 62
3° x 6.5 box S.D. culvert Steel grate
48" conc. wlk.
5' Prkwy.
6" conc. crb
28" conc. gut.
15' R.
24"
gut.
BLVD
1+25.0
26.62
gut.
curb
Sta. 3+24.99
1+00 N.
159 Th
J.C.M.H.
Sta. 3+25.03
fnd. 1" I.P. & C.E. tag PG 59
Sta 1+00 W
ST.
fnd L & C.E. tag 1+26.4' PG 59
R & O pv.
2+52.0
2+02.7
1+88.17
1+78.3
1+75.9
1+69.2
1+70.4
24" corr. iron P.
18" corr. iron P.
S.D.M.H.
48" corr. I.P.
3+34.6
22"
5' Prkwy.
54" conc. wlk.
24"
15' R.
WHH
FH.
24" x 36" I.D. conc. S.D. culv.
18" corr. iron P.
3° x 6.5 I.D. S.D. culvert Steel grate
3+57.5
73.2
3+55.1
3+69.0
3° x 6.5 box conc. S.D. culvert Steel grate
S.M.H.
I.D.=5' x 5' conc. drain box
3+78.0
3+79.9
26.68
B.C.
3+95.7
25.55
E.C.
4+07.4
23.44
BC.
4+19.0
20.06
PRC
Dr.
R & O pv.
HAWTHORNE
24" conc. gutter
60" conc. wlk.
Prkwy.
4+55.0 Plus OK.
73.2
4+47.3
14.53
E.C.
Dr.
85
To left Pg. 77
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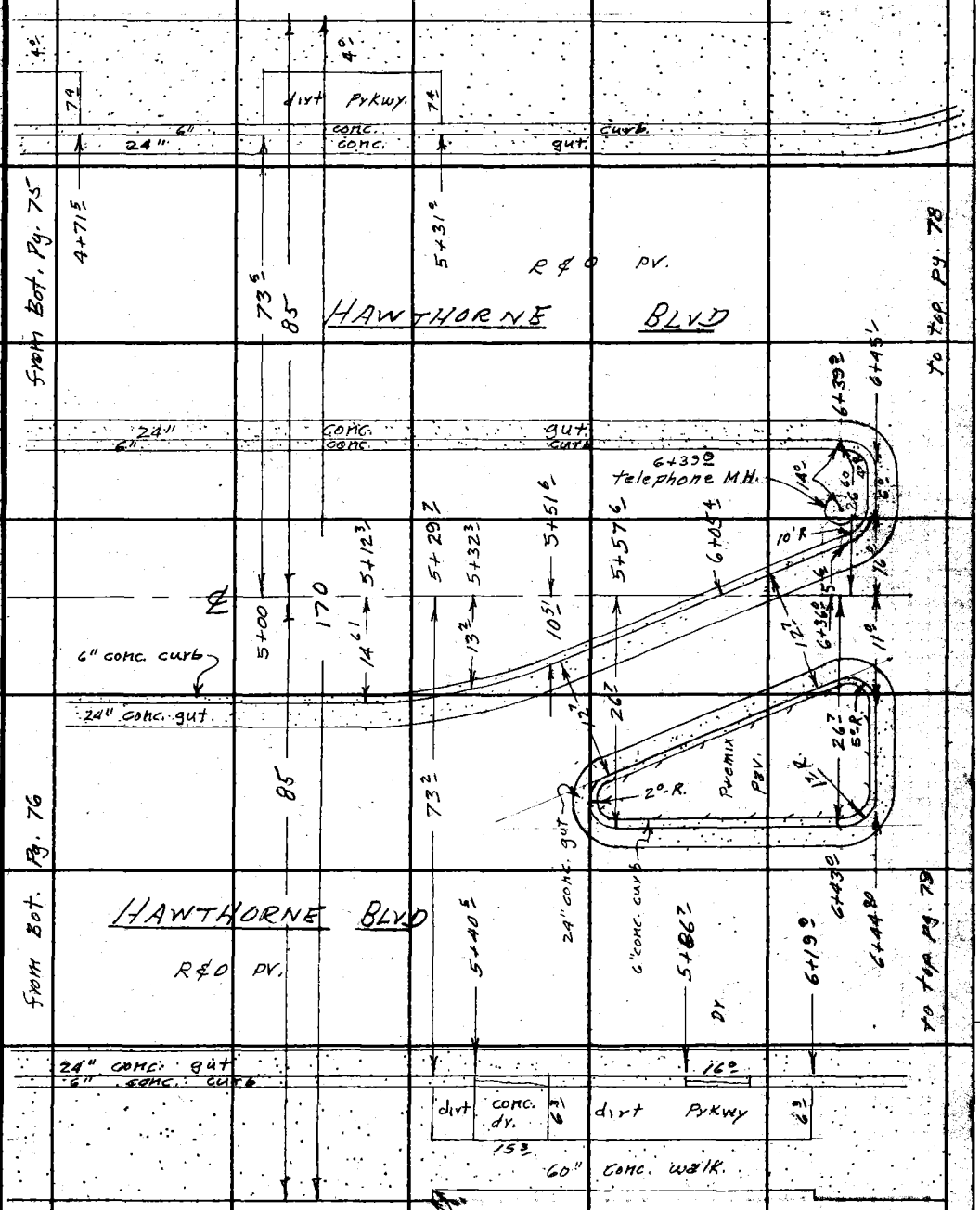
Notes Ck'd by	Survey of Hawthorne Blvd	F. B. 2583 Pg. 77
Map No.	JN 6268.20 Tape Std °F	
Office Work	Surveyed by D. Sappell	
Checked	Notes D. Foulger Date 10-29-63	
Date	Indexed C. J. GALLI	



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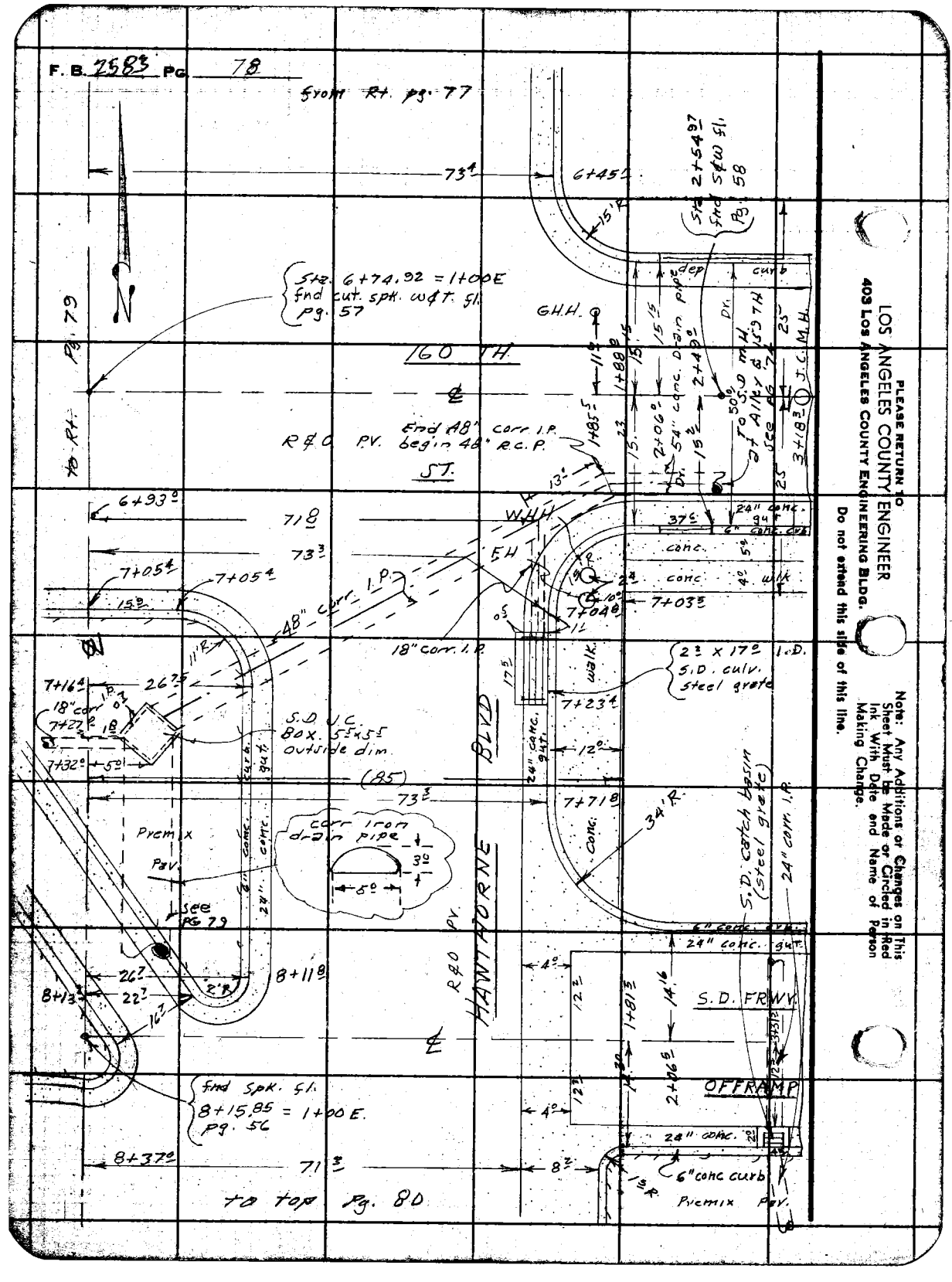
PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F3095 CE #310 6-62


F. B. 2583 Pg. 78
from Rt. pg. 77
73⁴
6+45
15'R
Sta. 2+54.97 fnd S&W fl. Pg. 58
Sta. 6+74.92 = 1+00E fnd cut. spk. w&T. fl. pg. 57
GHH
160 TH
℄
R&O PV.
End 48" corr. I.P. begin 48" R.C.P.
ST.
to Rt. Pg. 79
6+93
71⁸
73³
WHH
EH
7+05⁴
7+05⁴
48" corr. I.P.
18" corr. I.P.
7+04⁸
7+03⁵
2³ x 17⁰ I.D. S.D. culv. steel grate
7+16⁴
26⁷⁵
18" corr. I.P.
7+27
7+32
S.D. J.C. Box. 5⁵x5⁵ outside dim.
(85)
73³
7+71⁸
7+23⁴
24" conc. gut.
12⁰
BLVD
HAWTHORNE
R&O PV.
Premix Pav.
corr. iron drain pipe
3⁰
5⁰
see PG 79
34'R
S.D. catch basin (steel grate)
24" corr. I.P.
6" conc. curb
24" conc. gut.
8+11⁸
8+13
26⁷
22⁷
16⁷
S.D. FRWY.
OFFRAMP
fnd spk. fl. 8+15.85 = 1+00E. pg. 56
8+37⁰
71³
8²
6" conc curb
Premix Pav.
to top Pg. 80
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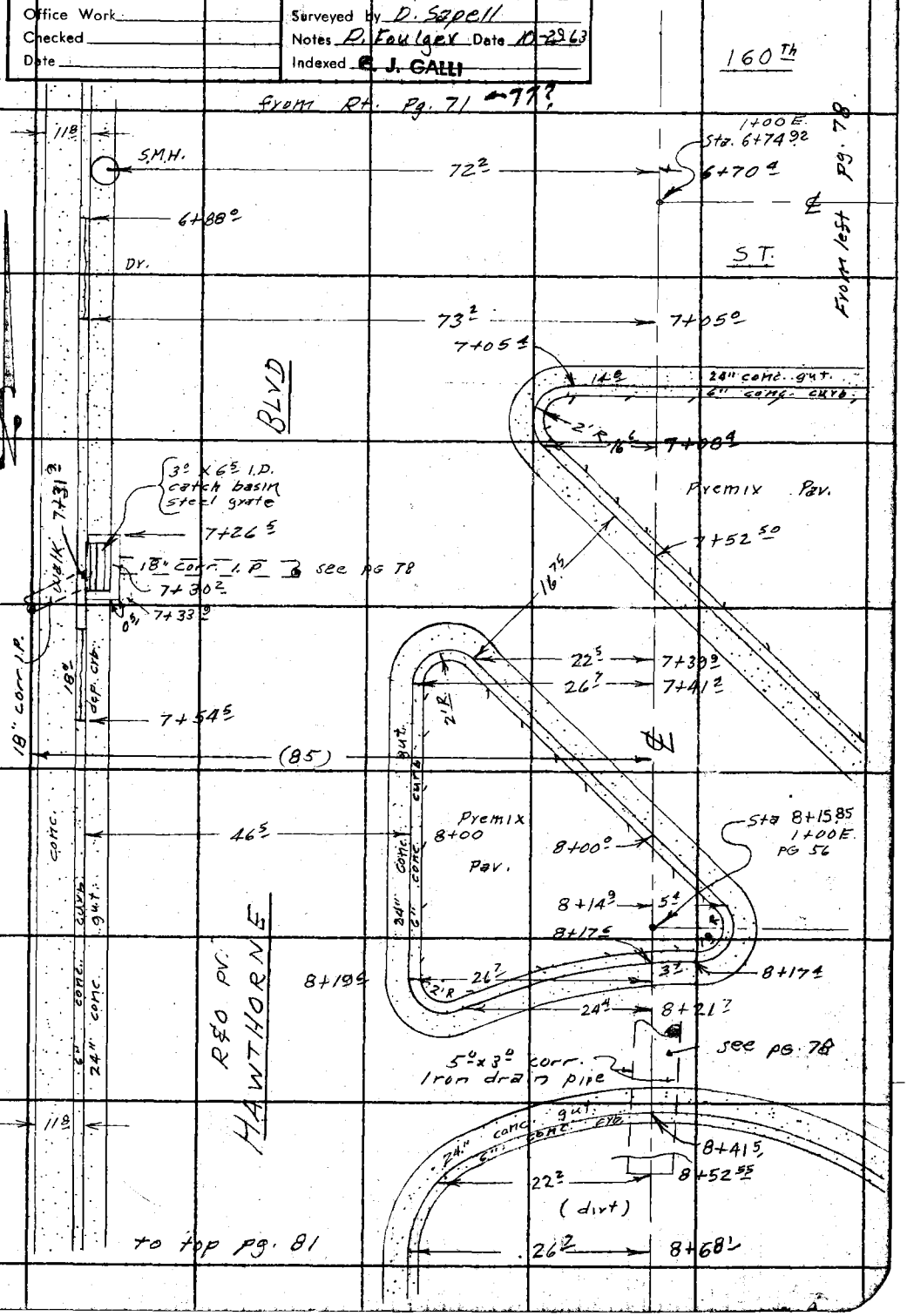
Storm Drain # 682

Notes Ck'd by	Survey of Hawthorne Blvd
Map No.	JN 6268.24 Tape Std °F
Office Work	Surveyed by D. Sapell
Checked	Notes P. Foulger Date 10-29-63
Date	Indexed C. J. GALLI

F. B. 2583 PG. 73



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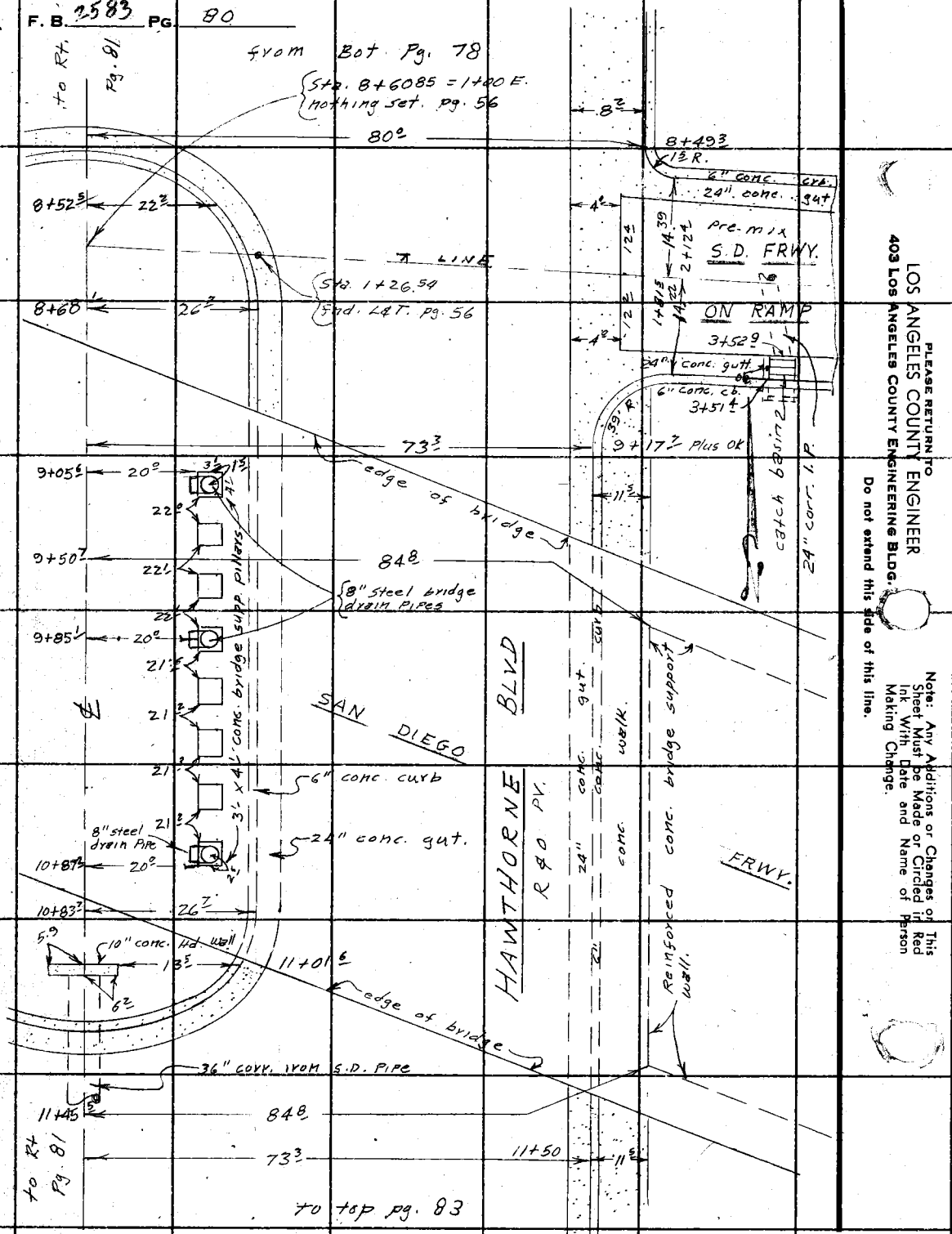
76F3095 CE # 310 1-61

F. B. 2583 PG. 80



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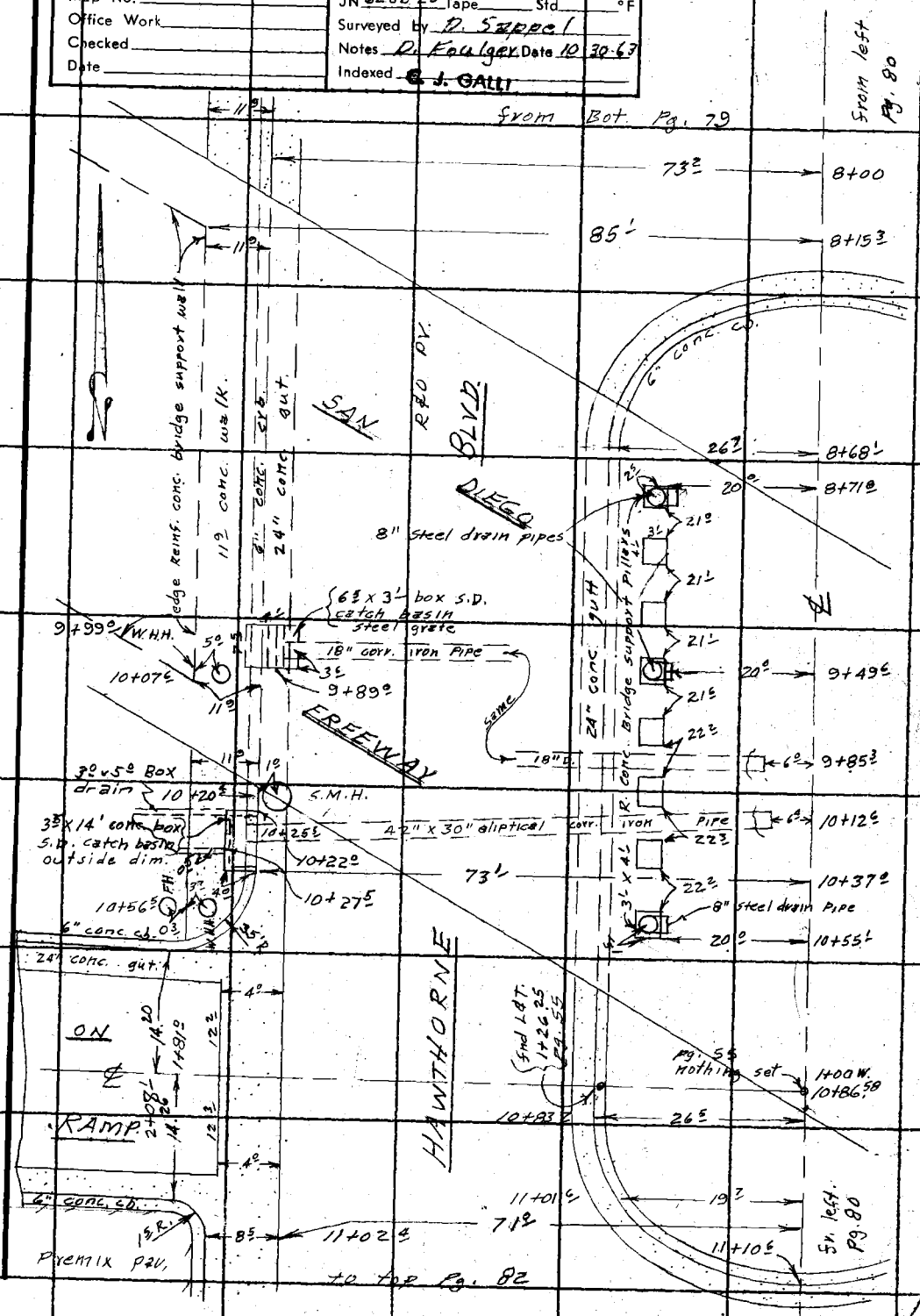
Storm Drain #682

Notes Ck'd by	Survey of Hawthorne Blvd
Map No.	JN 626820 Tape Std °F
Office Work	Surveyed by D. Szpecl
Checked	Notes D. Foulger Date 10-30-63
Date	Indexed C. J. GALLI

F. B. 2583 Pg. 81



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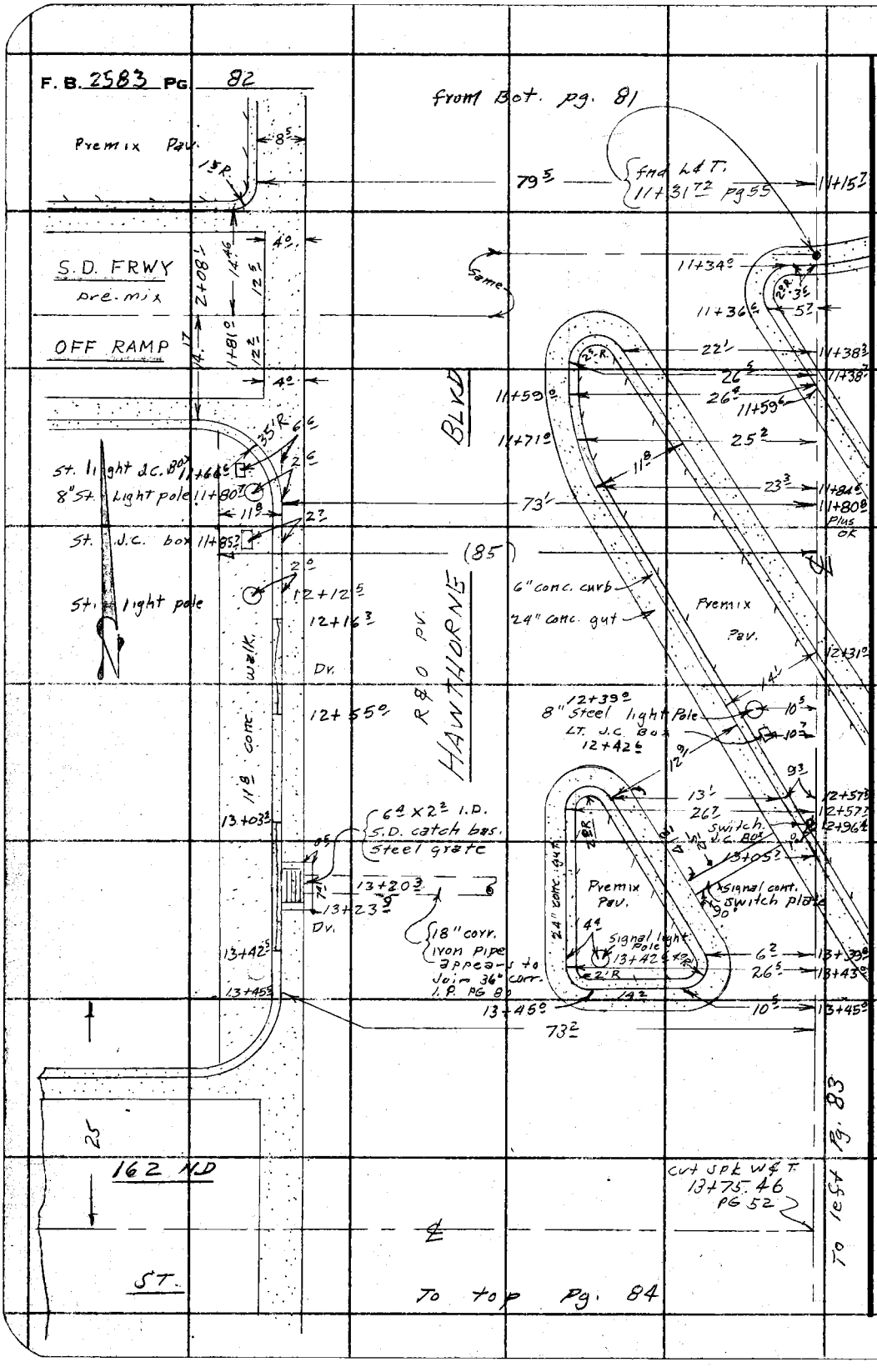
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F3088 CE # 310 1-61



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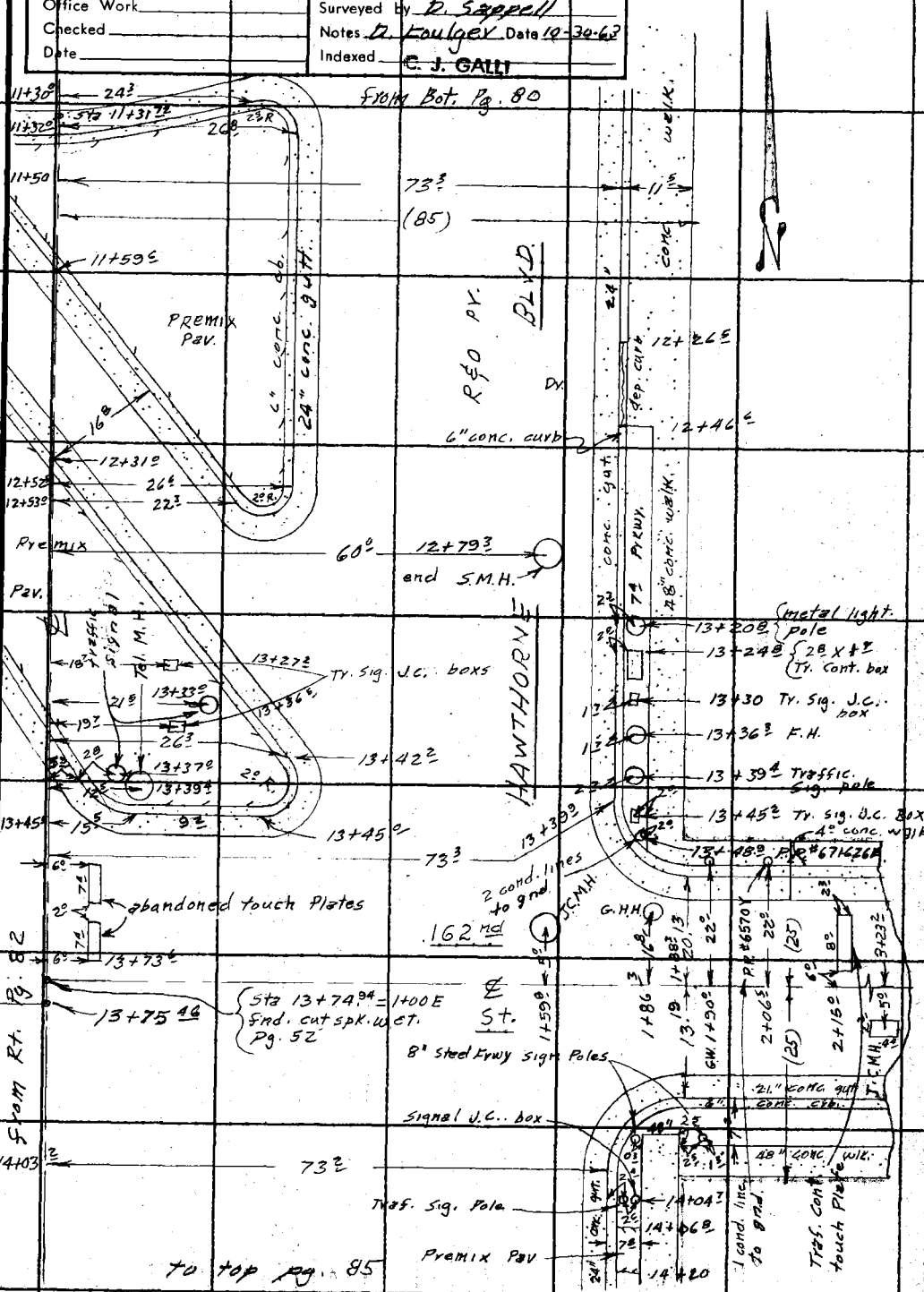
Storm Drain # 682

Notes Ck'd by	Survey of Hawthorne Blvd
Map No.	JN 6268.20 Tape Std °F
Office Work	Surveyed by D. Sappell
Checked	Notes D. Coulger Date 10-30-63
Date	Indexed C. J. GALLI

F. B. 2583 PG. 83



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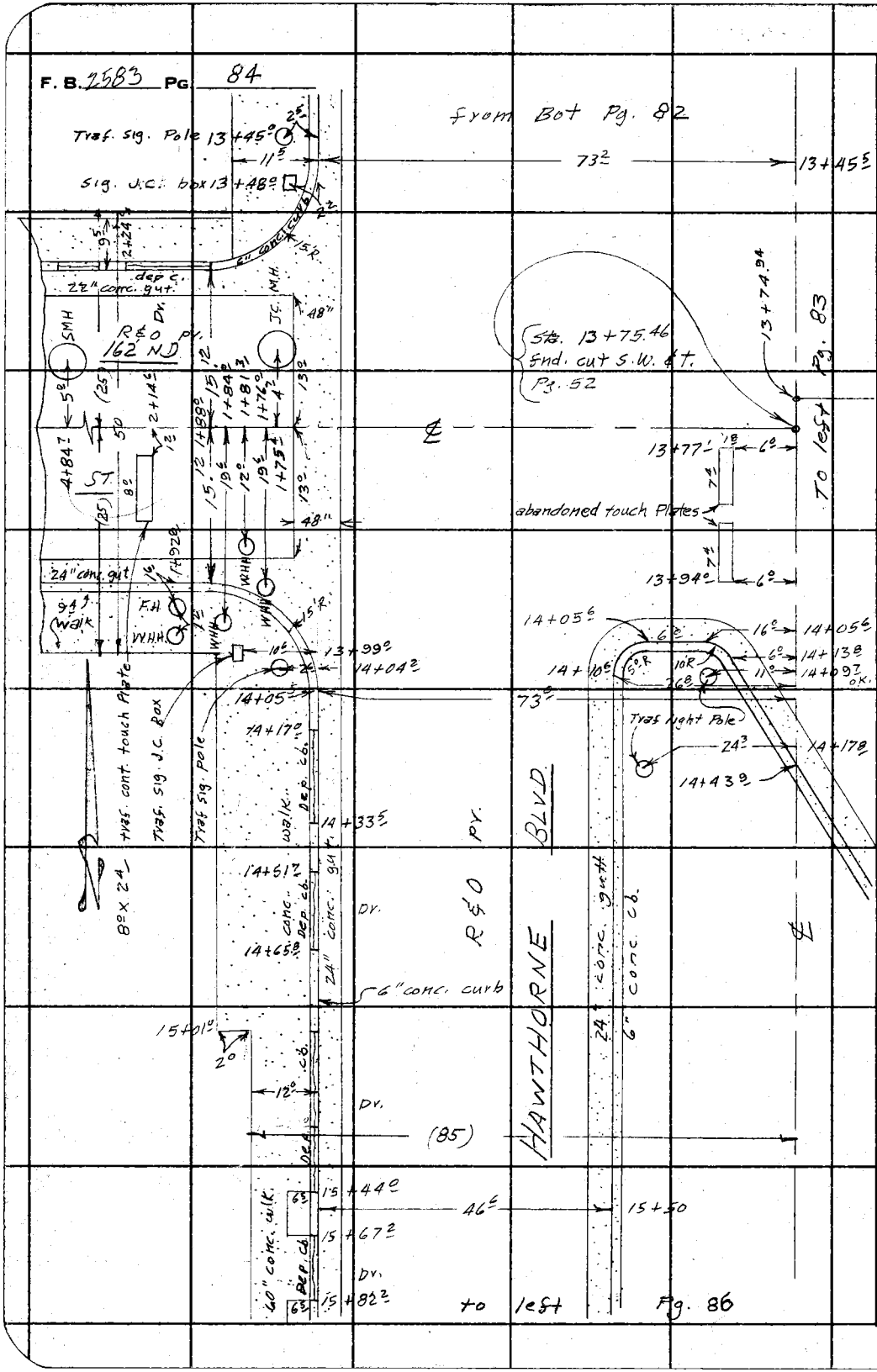
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F3095 CE # 310 3-61



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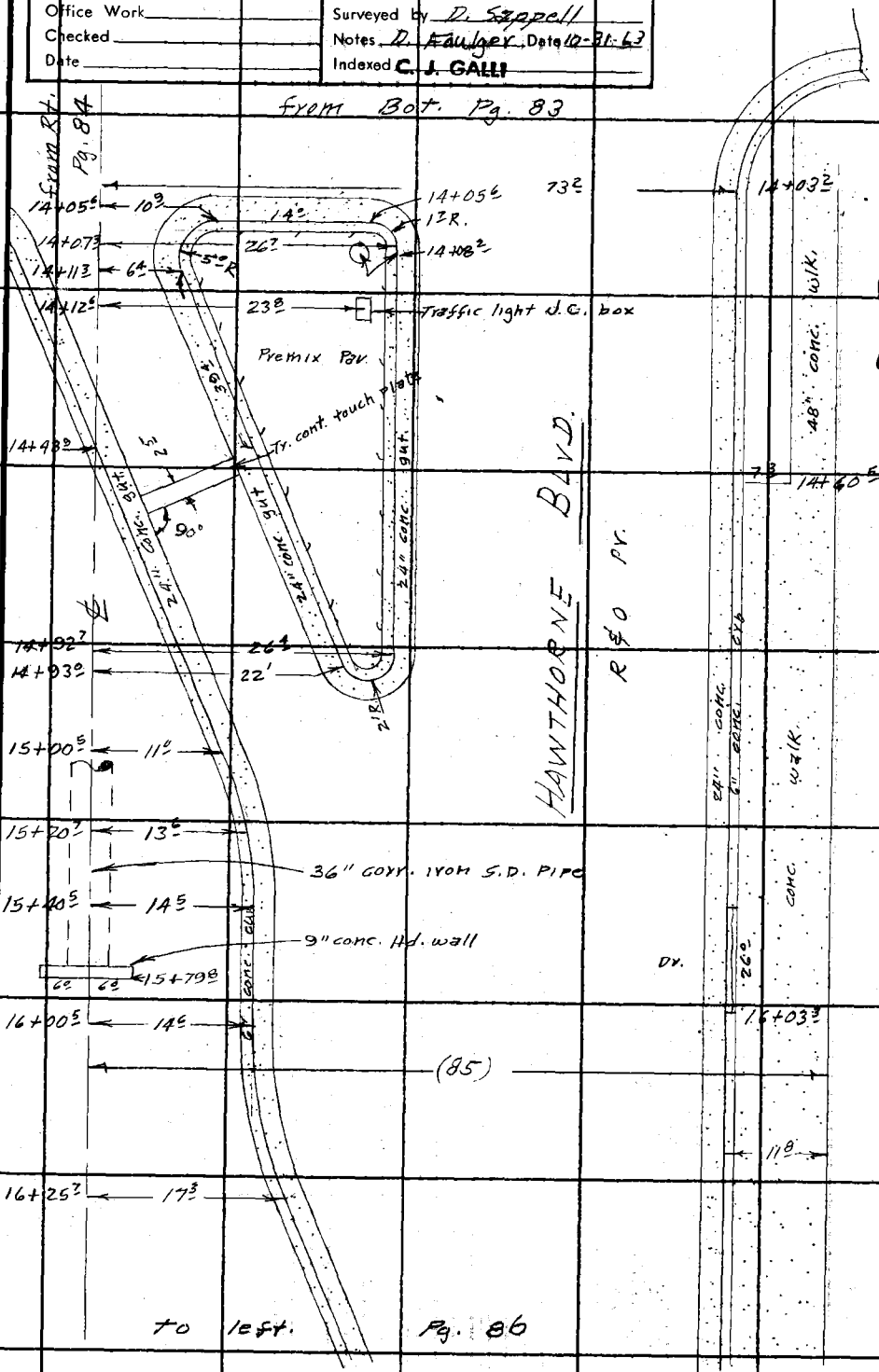
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Storm Drain #682

Notes Ck'd by	Survey of Halethorne Blvd
Map No.	JN 6262 20 Tape Std °F
Office Work	Surveyed by D. Szapell
Checked	Notes D. Faulger Date 10-31-63
Date	Indexed C. J. GALLI

F. B. 2583 Pg. 85



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

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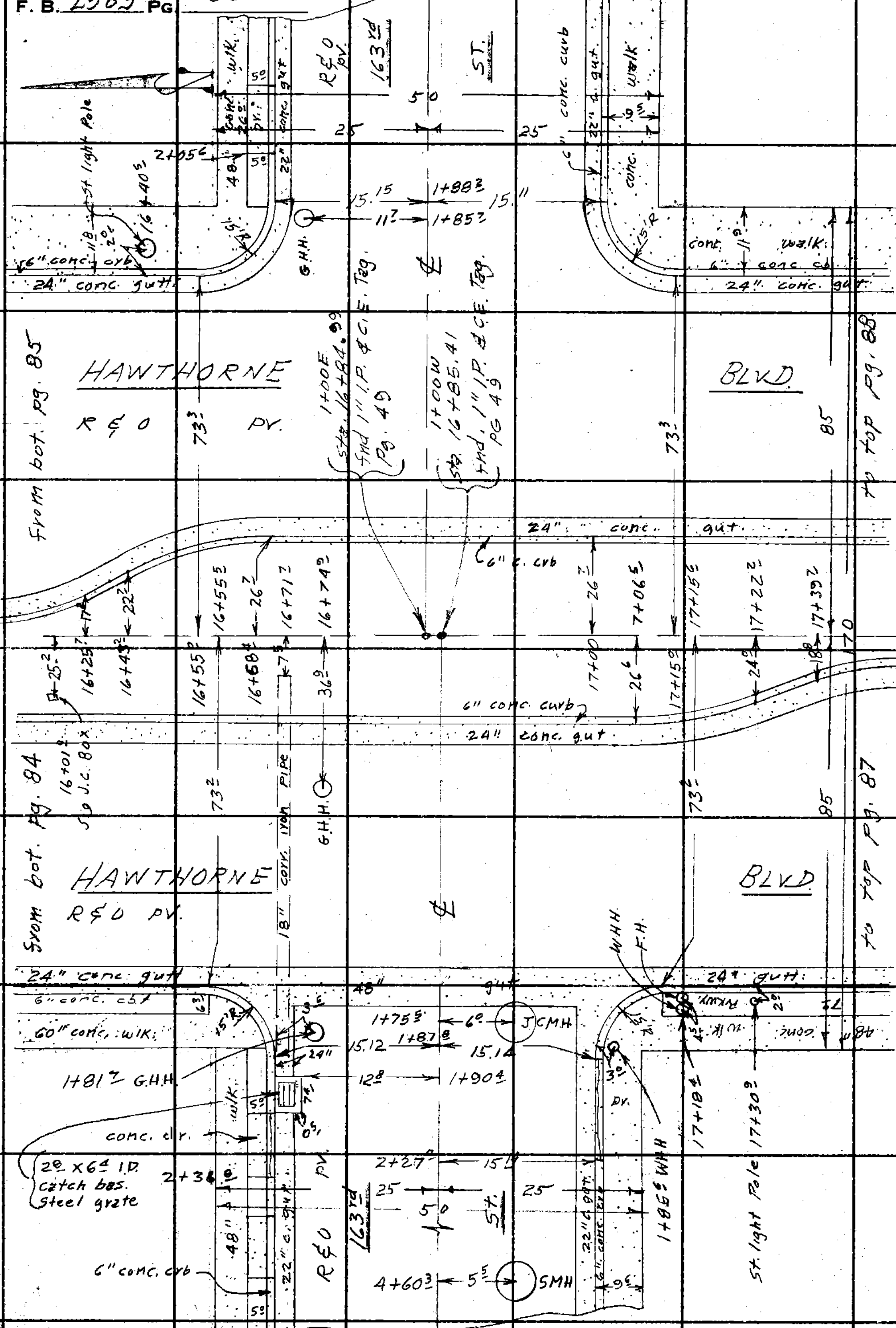
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F3098 CE # 310 4-61

F. B. 2583 PG. 86



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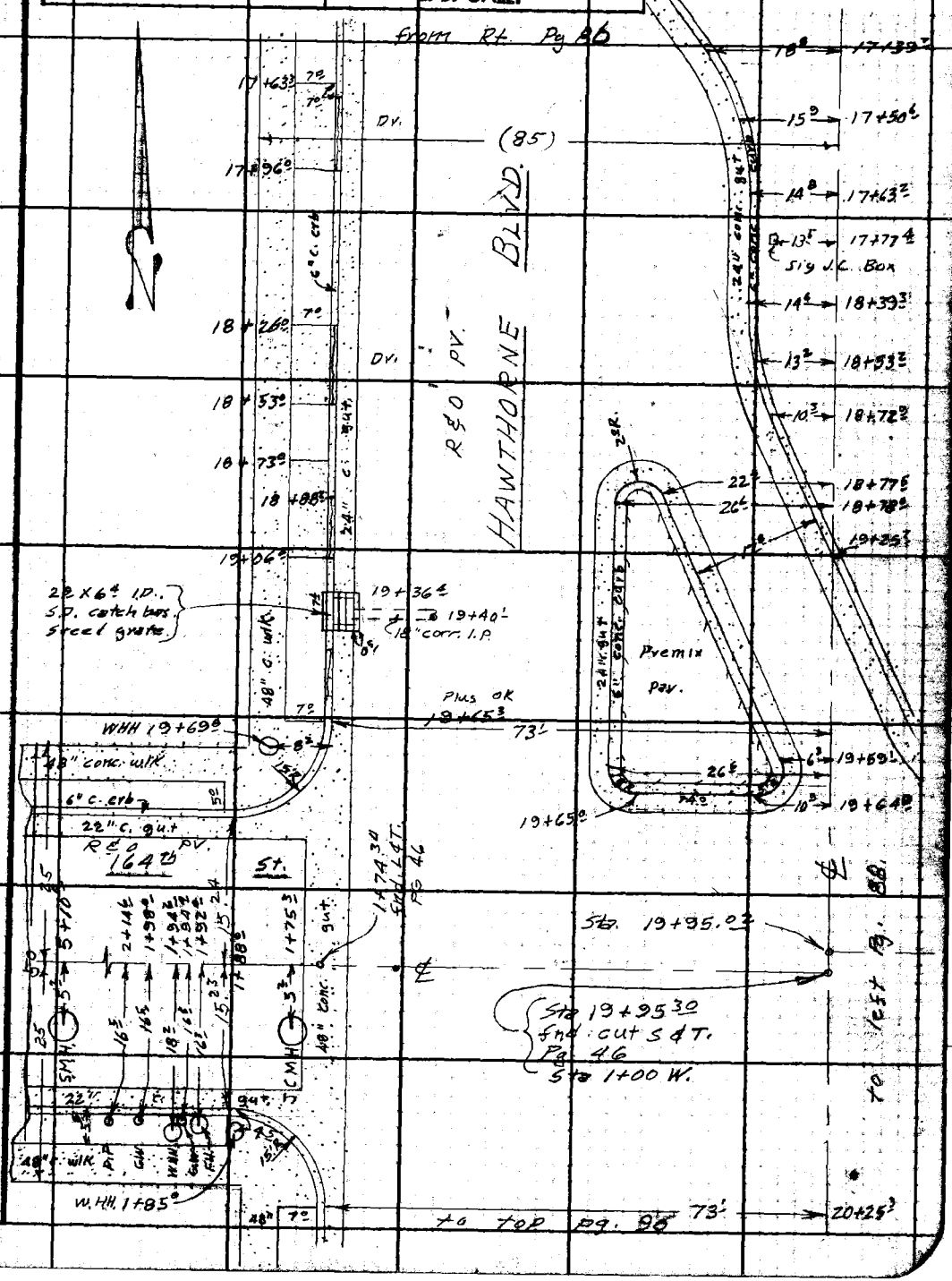
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

15.12

Storm Drain # 682

Notes Ck'd by	Survey of Hawthorne Blvd
Map No.	JN 6268.20 Tape Std °F
Office Work	Surveyed by D. Zappel
Checked	Notes D. Foulger Date 10-63
Date	Indexed ~~C. J. GALLI~~

F. B. 5583 PG. 87

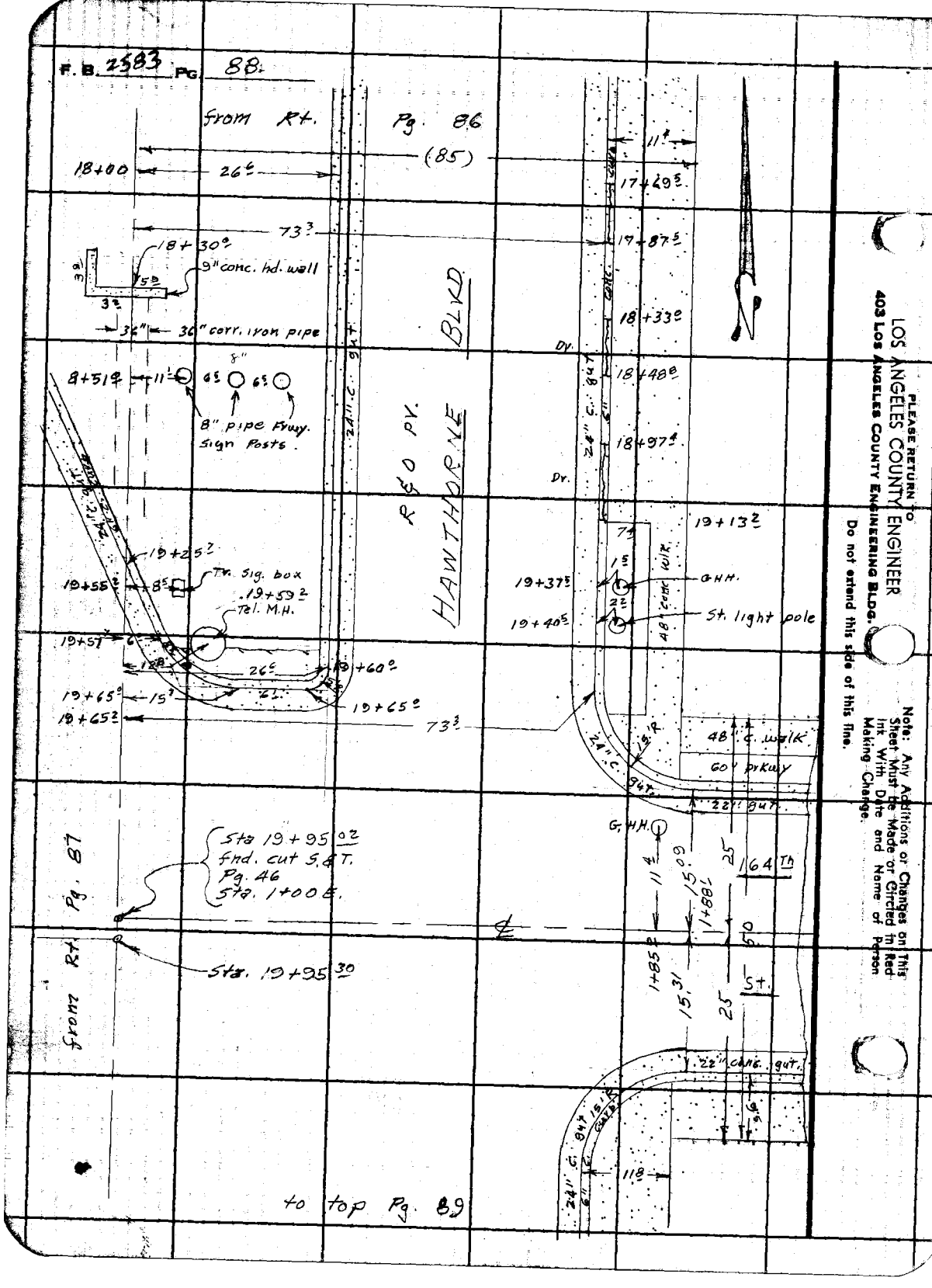


Note: Any Additions or Changes on this Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Do not extend this side of this line.

PLEASE RETURN TO
LOS ANGELES COUNTY ENGINEER
403 LOS ANGELES COUNTY ENGINEERING BLDG.

F. B. 2583 PG. 88



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403 Los Angeles County Engineering Bldg.

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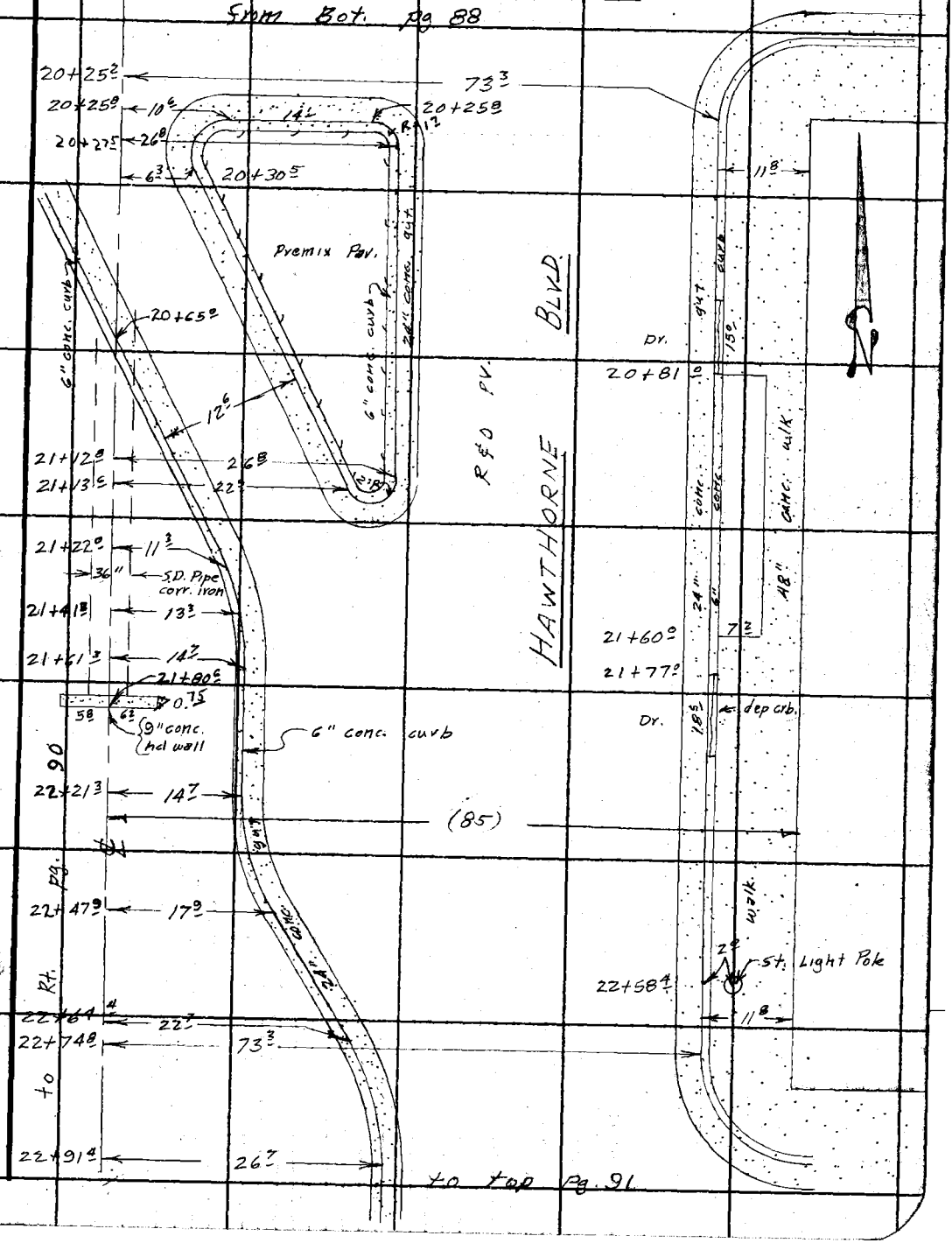
Do not extend this side of this line.

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

Storm Drain #682

Notes Ck'd by	Survey of Hawthorne Blvd.
Map No.	JN 6268.20 Tape Std °F
Office Work	Surveyed by D. Sappell
Checked	Notes D. Foulger Date 11-1-63
Date	Indexed E. J. GALLI

F. B. 2583 PG. 89



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

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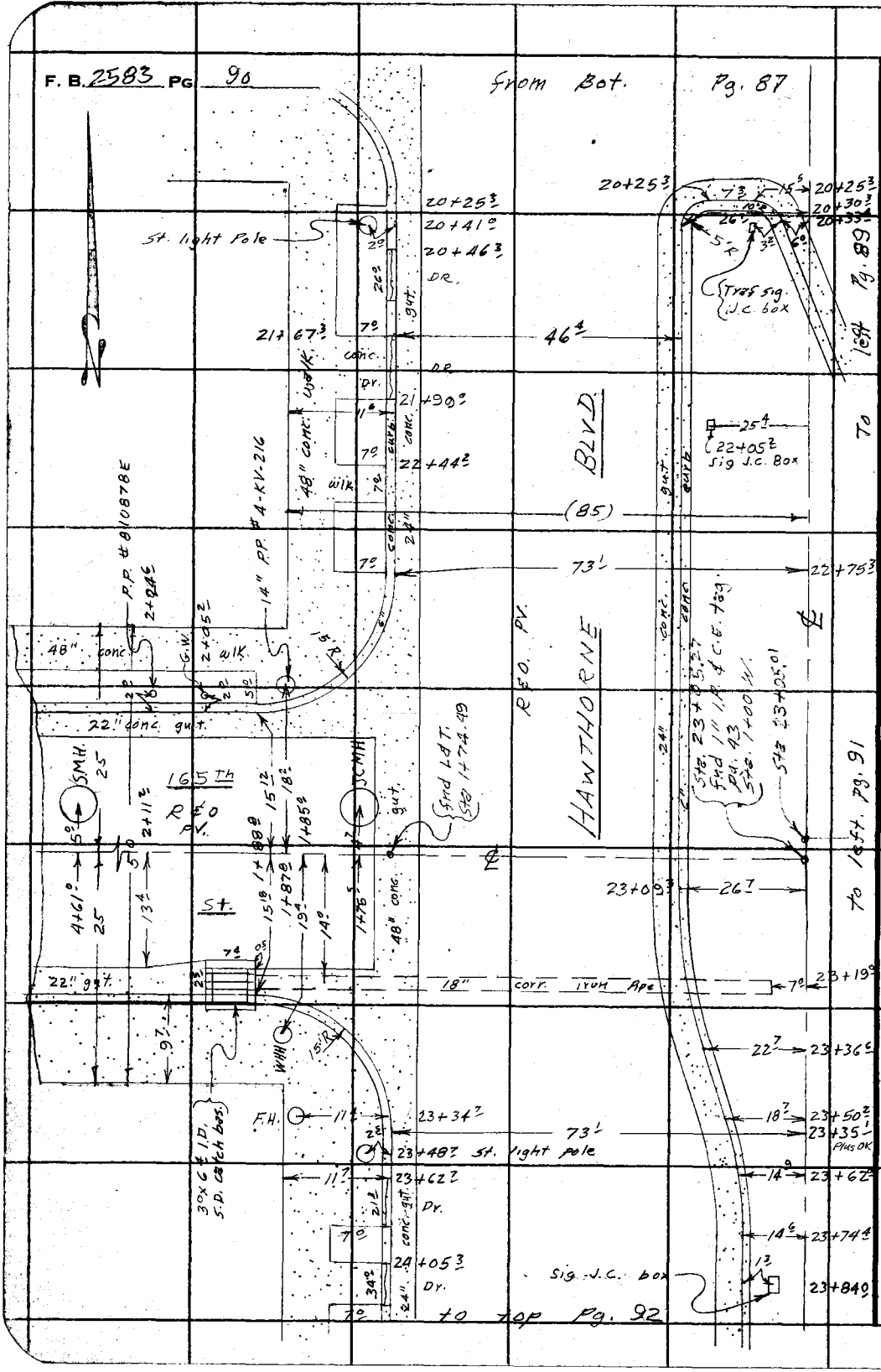
403 LOS ANGELES COUNTY ENGINEERING BLDG.

76F3085 CE # 310 2-61

F. B. 2583 PG 90



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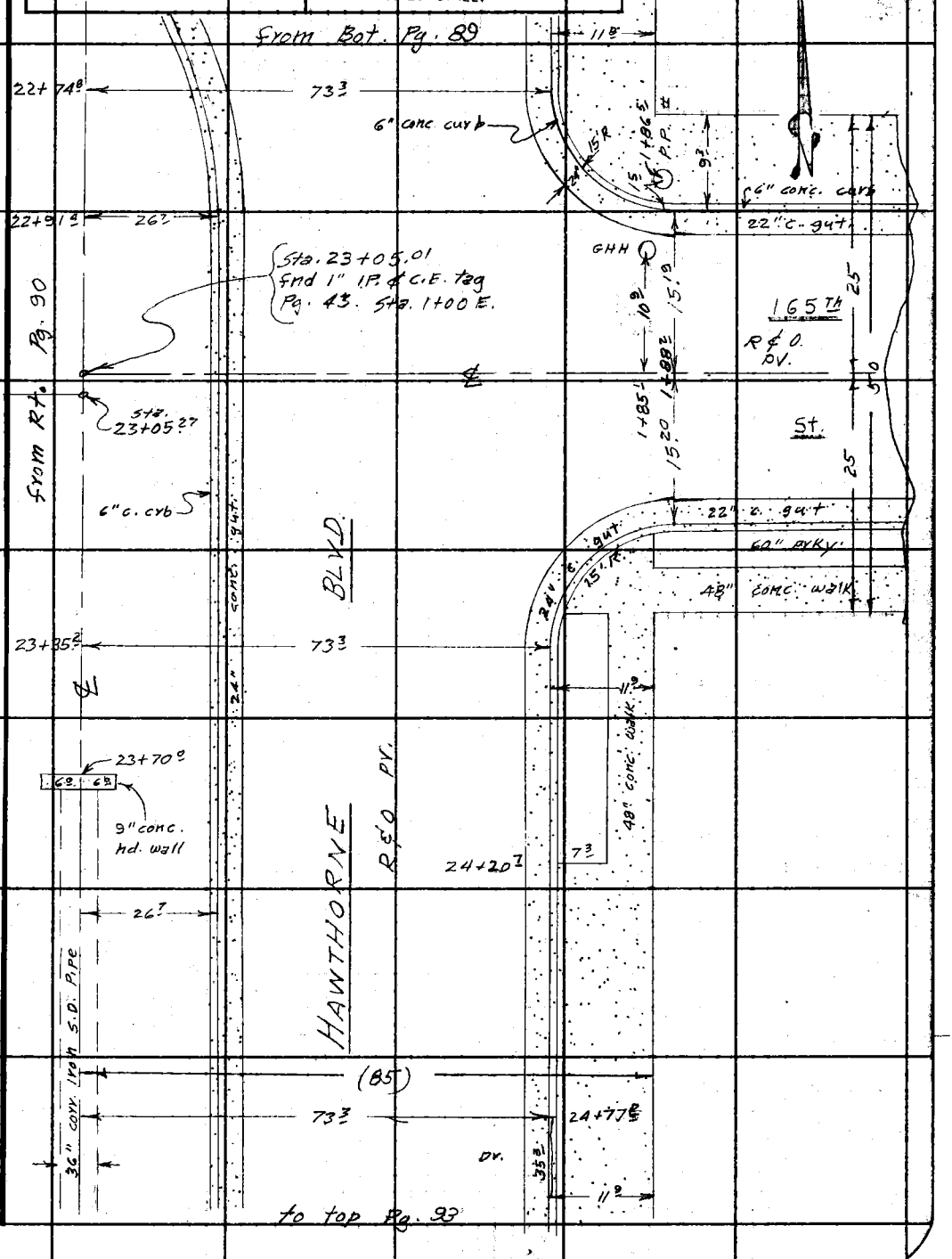
Storm Drain #682

Notes Ck'd by	Survey of Hawthorne Blvd
Map No.	JN 6268.20 Tape Std °F
Office Work	Surveyed by D. Sappell
Checked	Notes D. Fouliger Date 11-4-63
Date	Indexed R. J. GALLI

F. B. 2583 PG. 91



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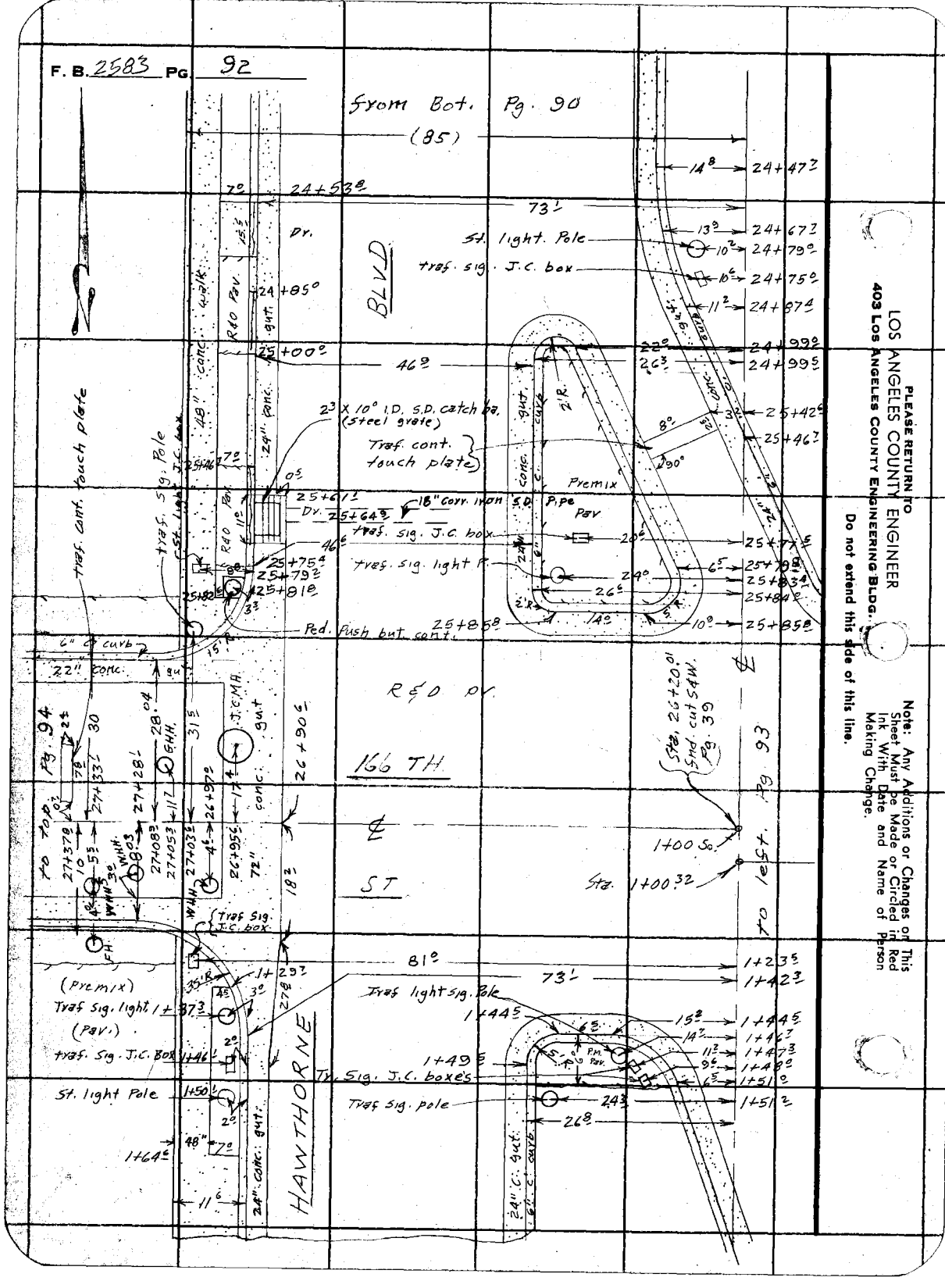
76F3095 CE # 310 1-81

F. B. 2583 PG. 92



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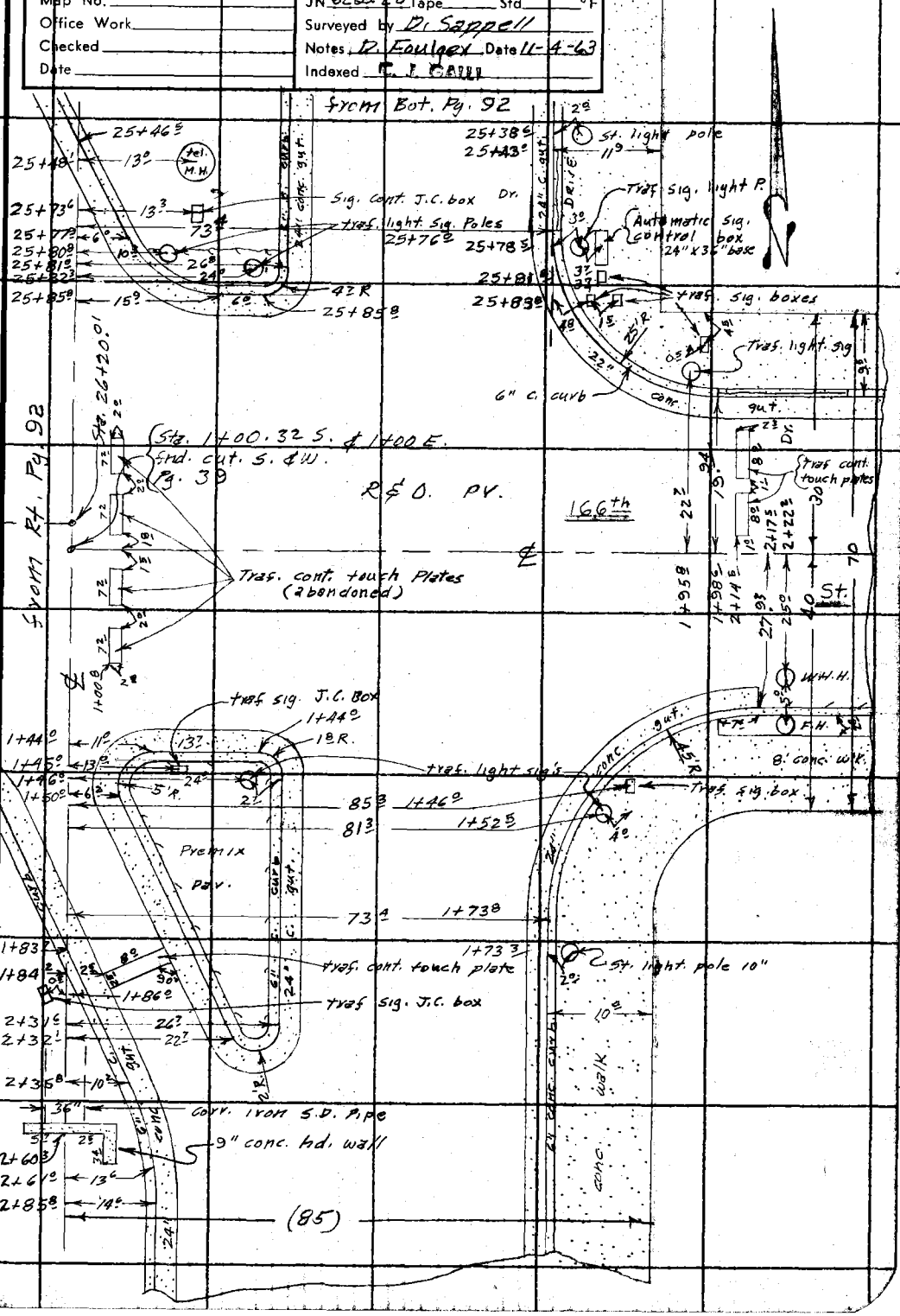
Storm Drain #682

Notes Ck'd by	Survey of Hawthorne Blvd.
Map No.	JN 6268 20 Tape Std °F
Office Work	Surveyed by D. Sappell
Checked	Notes D. Foulger Date 11-4-63
Date	Indexed T. J. Gallu

F. B. 2583 PG. 93



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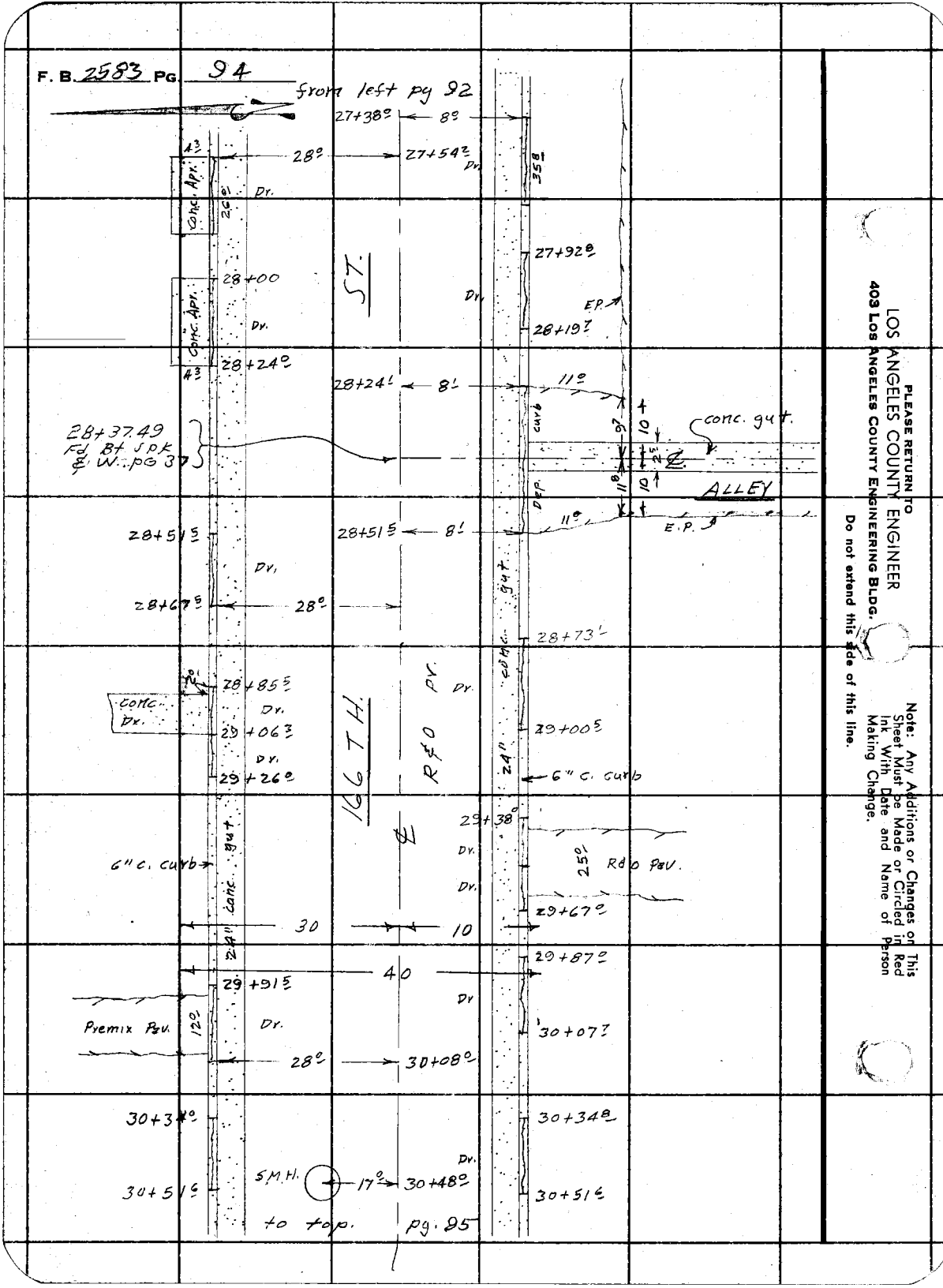
T9F3025 CE # 310 2-61

F. B. 2583 PG. 94



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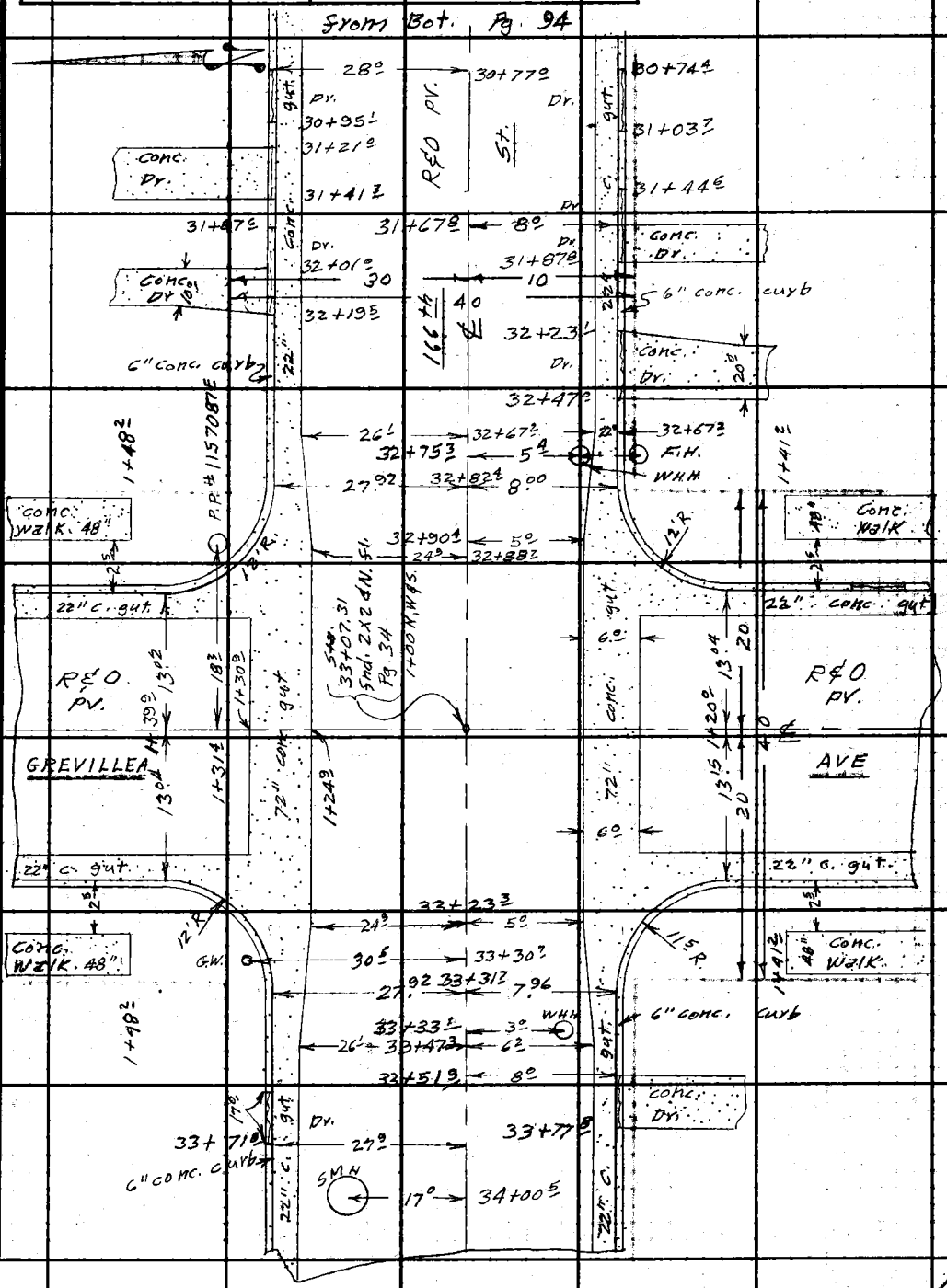
Storm Drain #682

Notes Ck'd by	Survey of Hawthorne Blvd	F. B. 2583 Pg. 95
Map No.	JN 6268.20 Tape Std °F	
Office Work	Surveyed by D. Sappell	
Checked	Notes D. Faulger Date 11-5-63	
Date	Indexed E. J. GALLI	

From Bot. Pg. 94



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76F3085 CF #310 6-62

F. B. 2583 PG. 96

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Profile No.	Notes Red	Plotted	Job No. 6268.20	Division No. 11	F.B. 2583 Pg. 97
	Date	Date	Survey of Hawthorne Blvd. SD # 682		
X-Sec. No.	Notes Chkd.	Checked	Survey by Sappell Notes D.S. Foulger	Date 11-6-63	
	Date	Date	Map No.	Indexed ~~R. J. CALLI~~	Date NOV 22 63

J.N 6268.20

HAWTHORNE BLVD.

STORM DRAIN. PROJ № 682

CROSS-SECTIONS

STATION	B.S.	H.I.	F.S.	ELEV.
				Note: Lenker rod used.

Sappell
Foulger
Lieber
Dupuis
Yamamoto

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76-L296 CE 307 3-61

76-L298 CE 307 3-61

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STATION	B.S.	H.I.	F.S.	ELEV.		
BM SD 3210				51 07	BM SD 3210 El. 51.069 FB 2583-15 159 TH ST & First Alley E of Hawthorne Blvd, S.E cor. 23' E of E end C.R., Bt Spk in curb.	
1+00	going N., S, E & W. (going East)				PG 60 & 74 LT & N.	℄ int 159 TH & Alley ℄ 159 TH. RT & S.
1+05¹ E.	51.12	YIM El.	-6 60	44 52		10⁴ inv. 48" corr. I.P.
1+07⁵ E.	51.12	YIM El.	-7 20	43 92		5⁶ inv. 54" conc. pipe.
1+07⁹				51 12		5⁶ W. YIM S.D.M.H.
1+30	"			51 02		℄
				50 84		7⁵ W/4
				50 70		13³ Ed gutt.
				50 54		15¹ "
				51 17		15¹ Top cb.
				50 90	7⁵ W/4	
				50 70	13³ Ed gutt	

F.B. 2583 Pg. 98 Job No. C268.20 Division No. 11 Notes Red Plotted Profile
Survey of Hawthorne Blvd - S.D #682 Date Date No. X-Sec.
Survey by Sappell Notes D.S. & D. Foulger Notes Chkd. Checked
Indexed E. J. GAIN Date Date Date No.

76-L298 CE 307 3-61

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STATION	B.S.	H.I.	F.S.	ELEV.	LT & N.	℄ 159 TH	RT & S.
1+30	East			50 50	15' gutt.		
				51 12	15' Top cb.		
		Flow to East.					
3+96.4	"					5' S.M.H.	
				50 10	W. Rim		
				50 10	E. "		
		50.10-	11.23=	38.87	inv. 21" Inlet W.	Meas. 9.48 Diam 1.75 Rod 11.23	
		50.10-	11.27=	38.83	inv. 21" outlet E.		9.52 1.75 11.27
		End Sec. to East.					
	Going N. from ℄ int 159 TH ST & Alley						
					LT & W.	℄ Alley	RT & E.
1+06.2	North				0.9' J.C.M.H.		
				51 24	N. Rim		
				51 24	E. "		
		51.24-	11.98=	39.26	inv. 21" inlet N.	Meas. 10.23 Diam 1.75 Rod 11.98	
		51.24-	12.05=	39.19	inv. 21" outlet E'ly		10.30 1.75 12.05
1+13.3	"			51 01		℄ Ed gutt.	
1+15.1	"			50 79		℄ F/L "	

Profile No. ____ Notes Red ____ Plotted ____ Job No. 6268.20 Division No. 11 F.B. 2583 Pg. 99
Date ____ Date ____ Survey of Hawthorne Blvd. - S.D. #682
X-Sec. No. ____ Notes Chkd. ____ Checked ____ Survey by Sappell Notes DS & Foulger Date 11-6-63
Date ____ Date ____ Map No. ____ Indexed E. J. GALLI Date ____

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STATION	B.S.	H.I.	F.S.	ELEV.	LT & W.	℄ Aller	RT & E
1+24.8	North.			51.43		℄	Ed gutt.
				51.46	gutt.	10'	N. end C.R. N.E. cor
				51.63	Top cb	10	" " " "
				51.76	10 gutt -	N.	end C.R. N.W. cor.
				51.90	10 Top cb. -	"	" " " "
1+75	"			51.9		℄	
				51.8		10	P/L
				51.9	10 P/L		
2+75	"			52.6		℄	
				52.5		10	
				52.6	10 P/L		
4+30.8				——	1.2 J.C.M.H.		
				52.68	N Rim		
				52.68	W "		
				52.68	S "		
		52.68 -	13.27 =	39.41	Inv. 21" linlet N.	Meas 11.52 Diam 1.75 Rod 13.27	
		52.68 -	12.63 =	40.05	Inv. 12" " W.	11.63 1.00 12.63	
		52.68 -	13.25 =	39.43	Inv. 21" outlet S.	11.50 1.75 13.25	
	End	Sec	To	North			

F.B. 2583 PG. 100

Job No. 626820 Division No. 11 Notes Red ____ Plotted ____ Profile ____

Survey of Hawthorne Blvd - S.D. #682 Date ____ Date ____ No. ____

Survey by Sappell Notes D.S. & D. Foulger Notes Chkd. ____ Checked ____ X-Sec. ____

Indexed E. J. GARRY Date ____ Date ____ Date ____ No. ____

76-L298 CE 307 3-61

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STATION	B.S.	H.I.	F.S.	ELEV.		
Going S. from ℄ int 159 TH. ST. & Alley						
					LT & E.	℄ Alley RT & W.
1+07.5	South.			51 24		℄ "
1+13.0	"			51 00		℄ " Ed gutt.
1+15.0	"			50 85		℄ " F/L "
1+25.0	"			51 43		℄ " Ed. gutt.
				51 79	gutt.	10 S. end C.R. S.W. cor
				51 92	Top cb.	10 " " " " "
				51 51	10 gutt.	S. end C.R. S.E cor.
				51 61	10 Top cb.	" " " " "
1+45.0	"			—		7.0 End S.M.H.
				51 92	S. Rim	
S. vim El. 51.92 - 7.69 R=				44.23	inv. 8" outlet S.	meas 7.02 Diam 0.67 Rod 7.69.
1+75	"			51 73		℄
				51 83		10 P/L
				52 05	10 P/L	
2+75				52 30		℄
				52 70		10 P/L
				52 40	10	
End Sec To South.						

Profile No. ____ Notes Red ____ Plotted ____ Job No. C268.20 Division No. 11 F.B. 2583 Pg. 101
Date ____ Date ____ Survey of Hawthorne Blvd - S.D. #682
X-Sec. No. ____ Notes Chkd. ____ Checked ____ Survey by Sappell Notes & Foulger Date 11-6-63
Date ____ Date ____ Map No. ____ Indexed ____ Date ____

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STATION	B.S.	H.I.	F.S.	ELEV.	LT & S.	℄ 159 TH	RT & N.
1+30	West			51 78		℄	
				51 70		7.5	W/4
				51 46		13.3	Ed gutt.
				51 26		15.1	"
				51 90		15.1	Top cb.
				51 60	7.5 W/4		
				51 45	13.1 Ed gutt.		
				51 24	14.9 "		
				51 34	14.9 depressed cb.		
1+70	"			52 58		℄	
				52 52		7.5	W/4
				52 30		13.2	Ed gutt.
				52 10		15	"
				52 75		15	Top cb.
				52 43	7.5 W/4		
				52 20	13.2 Ed gutt.		
				52 00	15 "		
				52 65	15 Top cb		
T.P.				52 56	T.P.		
2+27	"			53 80		℄	
				53 70		7.5	W/4
				53 49		13.3	Ed gutt.

F.B. 2583 PG. 102 Job No. 6268.20 Division No. 11 Notes Red ____ Plotted ____ Profile ____
Survey of Hawthorne Blvd - S.D. #682 Date ____ Date ____ No. ____
Survey by Sappell Notes D.S. & D. Foulger Notes Chkd. ____ Checked ____ X-Sec. ____
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STATION	B.S.	H.I.	F.S.	ELEV.	LT ℄ S.	℄ 159 TH.	RT ℄ N.
2+27				5328		15-1	gutt.
				5392		15-1	Top cb.
				5366	7 5	W/4	
				5344	13 3	Ed gutt.	
				5326	15-1	"	
				5333	15-1	depressed cb.	
2+37				5377		℄	
				5375		7 5	W/4
				5360		13 3	Ed gutt.
				5345		15-1	E end C.R. N.E. Cor. Hawthorne Blvd & 159TH
				5405		15-1	" " " " "
				5366	7 5	W/4	
				5351	13 3	Ed gutt.	
				5338	15-1	" - E end C.R. S.E. Cor.	
				5400	15-1	Top cb. - "	" " " "
2+52				5364		℄	cb. line - Hawthorne
2+75 2				5420		℄	W/4 "
2+96 4				5460		℄	Ed gutt. - island
2+98 4				5465		℄	" "
"				5519		℄	Top cb.
3+02 6				552		℄	Top brk.

Profile No. ____ Notes Red ____ Plotted ____ Job No. 6268.20 Division No. 11 F.B. 2583 Pg. 103
X-Sec. No. ____ Date ____ Notes Chkd. ____ Date ____ Checked ____ Date ____ Survey of Hawthorne Blvd. - S.D. #6
Survey by Sepoc 11 Notes Date 11-6-63
Map No. ____ Indexed ____ J. GALL Date ____

76-L298 CE 307 3-61

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STATION	B.S.	H.I.	F.S.	ELEV.	LT & S	℄ 159 TH. RT & N.
3+16.6				511		℄ bott brk.
3+24.99				504	PG 59 & 75	℄ int Hawthorne Blvd & 159 TH. from E.
BM SD 3209				5427	BMSD 3209 El. 54.260	FB 2583-15
				corr. 5426	Hawthorne Blvd & 159 TH ST, N.E. cor. 5' N. of N. end C.R., Fd screw in lead in cb. at ctr. of catch basin	
3+24.99 - 1+00 going N. along ℄ of Hawthorne Blvd						
					LT & W	℄ Hawthorne RT & E.
1+31.4	North.			5360		72.2 top steel gr.
	steel gr. El. 53.60 - 2.40 =			5120		72.2 INV. 18" corr. I.P.
1+34.6	"			507		℄
				511		5.0' bott. slope
				553		21.4 Top "
				5527		26.4 Top cb. - Island
				5472		26.4 gutt
				5470		28.4 Fd gutt.
				5432		50 ctr. pv.
				5380		70.2 Fd catch basin
				5364		73.1 Top iron grate
				5180		73.1 bott catch basin
				5425		73.1 To cb. & "

F.B. 2583 Pg. 104 Job No. 6268.20 Division No. 11 Notes Red ____ Plotted ____ Profile ____
Survey of Hawthorne Blvd - S.D. #682 Date ____ Date ____ No. ____
Survey by Sappell Notes D.S. & D. Foulger Notes Chkd. ____ Checked ____ X-Sec. ____
Indexed E. J. GALH. Date ____ Date ____ Date ____ No. ____

76-L296 CE 307 3-61

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STATION	B.S.	H.I.	F.S.	ELEV.	LT & W.	℄ Hawthorne RT&E
1+39.5	North			50 9		℄
				52 2	14.3 bott slope	
				54 4	20.6 Top "	
				54 20	26.6 Top cb. -	Island
				53 71	26.6 gutt.	
				53 65	28.6 Ed gutt.	
				53 15	49.9 ctr. pv.	
				52 49	70.8 Ed basin	(ctr.)
				52 30	73.3 Top iron grate	
	iron grate	El. 52.30	- 3.00=	49 30	73.3 {W. edge 18" corr. iron drain pipe & bott basin - (Note: end of pipe flush with bott of basin)	
				53 02	73.3 Top cb.	
1+63.9	"			51 2		℄ & Toe slope
"				52 5		7.5 brk in "
"				55 6		20.6 Top "
"				55 48		20.6 Top cb. P.R.C.
"				54 98		20.6 gutt.
1+79.5	"			51 7		℄
				52 1		3.5 bott slope
				55 5		11.9 Top "
				55 57		16.3 Top cb. - Island
				55 05		16.3 gutt.
				55 02		18.3 Ed gutt.
				54 58		50.0 ctr. pv.
				53 98		71.1 Ed gutt.

Profile No. ____ Notes Red ____ Date ____ Plotted ____ Date ____ Job No. 6268.20 Division No. 11 Survey of Hawthorne Blvd. S.D. #682 Survey by Sappell Notes D.S. & Foulger Date 11-7-63 Map No. ____ Indexed R. J. GALLI Date ____

X-Sec. No. ____ Notes Chkd. ____ Date ____ Checked ____ Date ____

F.B. 2583 Pg. 105

76-L298 CE 307 3-61

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STATION	B.S.	H.I.	F.S.	ELEV.	LT & W.	℄ Hawthorne RT & E.
1+79.5	North.			53.88		73.1 gutt
				54.47		73.1 Top cb.
				52.3	14.5 bott slope	
				54.6	22.5 Top "	
				54.48	26.6 Top cb. - Island	
				53.96	26.6 gutt	
				53.90	28.6 Ed gutt.	
				53.48	49.9 ctr. pv.	
				52.82	71.3 Ed gutt.	
				52.72	73.3 gutt.	
				53.32	73.3 Top cb.	
1+94.7	"			52.2		3.5 Toe slope
				55.7		11.0 Top "
				55.77		14.6 Top cb. - E.C.
				55.22		14.6 gutt
2+03.0	"			54.59	(Note: Lid welded shut)	77.1 Top T.M.H. Lid
2+79.5	"			54.9		℄ & bott slope
				56.3		8.3 Top "
				56.18		13.2 Top cb. - B.C.
				55.68		13.2 gutt.
				55.63		15.2 Ed gutt.

F.B. 2583 Pg. 106 Job No. 6268.20 Division No. 11 Notes Red Plotted Profile
Survey of Hawthorne Blvd - SD #682 Date Date No. X-Sec.
Survey by Sappell Notes D.S. & D. Foulger Notes Chkd. Checked No.
Indexed E. J. GALLI Date Date Date

76-L298 CE 307 3-61

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STATION	B.S.	H.I.	F.S.	ELEV.	LT & W.	℄ Hawthorne RT & E
2+79.5	North.			54.89		49.9 ctr. pv.
				54.38		71.1 Ed gutt.
				54.25		73.1 "
				54.35		73.1 Top cb. (dep)
				53.0	11.0 bott - slope	
				55.7	22.7 Top "	
				55.52	26.6 Top cb.	
				54.97	26.6 gutt.	
				54.93	28.6 Ed gutt.	
				54.50	49.9 ctr. pv.	
				53.87	71.3 Ed gutt.	
				53.77	73.3 gutt.	
				54.35	73.3 depressed cb.	
4+31.5				—	69.8 J.c.m.H.	
				55.17	W. Rim	
				55.17	S. "	
				55.17	E. "	
W. rim El.	55.17 −	13.52 =		41.65	inv. 8" inlet W.	Meas. 12.85 Diam 0.67 Rod 13.52
S.	" "	55.17 −	13.96 =	41.21	inv. 12" " S.	12.96 1.00 13.96
E.	" "	55.17 −	13.96 =	41.21	inv. 12" outlet E.	12.96 1.00 13.96

Profile No. ____ Notes Red ____ Plotted ____ Job No. 6268.20 Division No. 11 F.B. 2583 Pg. 107
X-Sec. No. ____ Date ____ Date ____ Survey of Hawthorne Blvd - S.D. #682
Notes Chkd. ____ Checked ____ Survey by Sappell Notes Dr. & Foulger Date 11-7-63
Date ____ Date ____ Map No. ____ Indexed E. J. GALLI Date ____

76-L298 CE 307 3-61

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STATION	B.S.	H.I.	F.S.	ELEV.		
3+25.03				50 4	PG 59 & 76	℄ int. Hawthorne Blvd. & 159 TH from W.
" "	=	1+00.	going	W.	along ℄ 159 TH ST TO W.	
					LT. & S.	℄ 159 TH. TO W. RT & N.
1+14.0	west			52 0		℄ bott slope
1+22.5				54 2		℄ Top "
1+26.6	"			54 10		℄ top cb - island
"				53 58		℄ gutt.
1+28.6	"			53 53		℄ Ed gutt.
1+49.9	"			52 99		℄ ctr. pv-Hawthorne
1+70	"			——		5.0 J.C.M.H.
				52 41	N Rim	
				52 41	S. "	
				52 41	W. "	
S. YIM EL.	52.41 —	9.82		42 59	inv. 12" inlet S. (OFFSET 1.0 W.)	meas. 8.82 Diam 1.00 Rod 9.82.
W YIM EL	52.41 -	9.63		42 78	inv. 8" inlet w/ix	8.96 0.67 9.63.
N YIM EL	52.41 -	9.90		42 51	inv. 12" outlet N. (OFFSET 1.0 E)	8.90 1.00 9.90.
1+75.8	+o.k.			52 23	11.0 S.D.M.H. ctr-lid	
1+69.2	MH EL. 52	23 - 5.70R=		46 53	13.0 Inv. 18" corr. l.P. from C.B.	

F.B. 2583 PG. 108 Job No. 6268.20 Division No. 11 Notes Red ____ Plotted ____ Profile ____
Survey of Hawthorne Blvd - S.D. #682 Date ____ Date ____ No. ____ X-Sec. ____
Survey by Sappell Notes D.S. & D. Foulger Notes Chkd. ____ Checked ____ No. ____
Indexed E. J. GAIN Date ____ Date ____ Date ____

76-L298 CE 307 3-61

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STATION	B.S.	H.I.	F.S.	ELEV.	LT ℄ S	℄ 159 TH.	RT ℄ N.
1+73.3	west	El. 52.23	- 7.20 =	45 03	11.0 inv. 48" corr. I.P.		
1+74.8	"	" "	- 7.20 =	45 03	9.0 " " "	"	
1+78.3	"	" "	- 6.00 =	46 23	11.2 inv. 18" corr. I.P. from catch basin		
1+78.3	"	" "	- 6.70 =	45 53	10.2 " 24" "	"	
1+95.4				51 85	- - - - - - - -	14.0 top steel grate	
1+95.4	west.	grate El 51.85 - 4.50 =		47 35		14.0 inv. 18" corr. iron drain pipe	
1+95.6				51 60	14.0 top steel grate		
1+95.6	"	grate El. 51.85 - 4.30		47 55	14.0 inv. 18" corr iron drain pipe		
1+98.8	"			52 33		℄	
				52 18		7.5 W/4	
				51 90		12.1 Ed basin	
				51 75		15.2 Top iron grate	
		51.75	- 4.00 =	47 75		15.2 both catch basin	
				52 42		15.2 Top cb.	
				52 12	7.5 W/4		
				51 90	12.1 Ed basin		
				51 59	15.2 Top iron grate		
		51.59	- 4.00 =	47 59	15.2 both catch basin		
				52 31	15.2 Top cb.		
2+38.8				52 09		℄	
				52 02		7.5 W/4	

Profile No. ____ Notes Red ____ Plotted ____ Job No. 6268.20 Division No. 11 F.B. 2583 Pg. 109
X-Sec. No. ____ Date ____ Date ____ Date ____ Survey of Hawthorne Blvd. - S.D. #682
Notes Chkd. ____ Date ____ Checked ____ Date ____ Survey by Sappell Notes D.J. Fowler Date 11-7-62
Map No. ____ Indexed R. J. GALLI Date ____

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STATION	B.S.	H.I.	F.S.	ELEV.	LT & S.	℄ 159 TH	RT & N.
2+38.8	west			5200		13.4	Ed gutt.
				5183		15.2	"
				5239		15.2	Top cb.
				5209	7.5 w/4		
				5190	13.4 Ed. gutt.		
				5173	15.2 "		
				5238	15.2 Top cb.		
2+52.0	"			——	5.0 S.M.H.		
				5211	E. Rim		
				5211	W. "		
		52.11-	8.97 =	43.14	•Inv. 8" inlet W.	meas. 8.30 Diam 0.67 Rod 8.97•	
		52.11-	9.09 =	43.02	•Inv. 8" outlet E.	8.42 0.67 9.09•	
3+38.8	"			5230		℄	
				5220		7.5 w/4	
				5211		13.4 Ed gutt.	
				5190		15.2 "	
				5255		15.2 Top cb.	
				5217	7.5 w/4		
				5196	13.4 Ed gutt.		

F.B. 2583 PG. 110 Job No. 6268.20 Division No. 11 Notes Red ____ Plotted ____ Profile ____
Survey of Hawthorne Blvd. S.D. #682 Date ____ Date ____ No. ____ X-Sec. ____
Survey by Sappell Notes D.S. & D. Foulger Notes Chkd. ____ Checked ____ No. ____
Indexed R. J. GAIL Date ____ Date ____ Date ____

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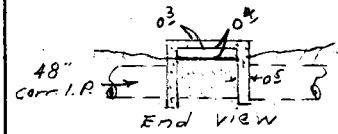
STATION	B.S.	H.I.	F.S.	ELEV.	LT ℄ S.	℄ 159 TH. RT ℄ N.
3+38.8				51.73	15.2 gutt	
				52.36	15.2 Top cb.	
		End	of	sec.	to west.	
	CONT.	S.	along	Hawthorne	Blvd	from 159 TH. ST. TO W
					LT ℄ E	℄ Hawthorne RT ℄ W
3+36.17				51.00		℄ Top ctr. catch
					basin 0.8 above grd.	
3+36.17		51.00	- 6.00 =	45.00		℄ inv. 48" corr. I.P.
						see pg 76
3+61.8				52.30		72.2 top steel grate
3+61.8	grate El.	52.30	- 5.50 =	46.80		72.2 inv. 18" corr. I.P.
3+65.1				50.6		℄ butt ditch
				52.1		12.0 brk in slope
				54.2		22.5 Top slope
				54.03		26.6 Top cb - island
				53.52		26.6 gutt.
				53.50		28.6 Ed "
				52.99		49.9 ctr. pv.
				52.37		70.2 Ed catch basin
				52.31		73.2 Top iron grate
		52.31	- 5.10 =	47.20		73.2 butt catch basin

Profile Notes Red ____ Plotted ____ Job No. 6268.20 Division No. 11
No. ____ Date ____ Date ____ Survey of Hawthorne Blvd. S.D. #682
X-Sec. Notes Chkd. ____ Checked ____ Survey by Sappell Notes Foulger Date 11-7-63
No. ____ Date ____ Date ____ Map No. ____ Indexed R. J. GALL Date ____

F.B. 2583 Pg. 111

76-L298 CE 307 3-61

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STATION	B.S.	H.I.	F.S.	ELEV.	LT & E.	℄ Hawthorne RT & W.
3 + 65.1				52 81		73.2 Top cb.
3 + 76.5	grate El. 53.30		-2.60	50 70	72.7 inv. 24" corr.	iron drain pipe
3 + 79.7				50 7		℄ - bott ditch
				50 8	7.7 bott slope	
				55 2	22.0 Top "	
				55 12	26.6 Top cb.	Island
				54 60	26.6 gutt	
				54 54	28.6 Ed gutt.	
				54 04	49.9 ctr. pv.	
				53 40	70.2 Ed catch	basin
				53 27	73.1 Top iron	grate
	gr. El.	53.27	2.10=	51 17	73.1 bott catch	basin
				53 95	73.1 Top cb.	
3 + 79.9				51 8		11.5 brk in slope
				54 2		22.0 Top "
				54 05		26.7 Top cb. - Island
				53 53		26.7 gutt. (B.C.)
4 + 00				51 0		℄ bott ditch
				52 0		10.0 brk in slope
				54 2		20.0 Top "
				54 14		24.9 Top cb.

F.B. 2583 Pg. 112 Job No. 626820 Division No. 11 Notes Red Plotted Profile
Survey of Hawthorne Blvd. S.D. #682 Date Date No. X-Sec.
Survey by Sappell Notes D.S. & D. Foulger Notes Chkd. Checked No.
Indexed [illegible] Date Date Date No.

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STATION	B.S.	H.I.	F.S.	ELEV.	LT ℄ E.	℄ Hawthorne RT ℄ W.
4+00				53 59		24^{9} gutt
				53 58		26^{9} Ed gutt
				53 02		49^{9} ctr. pv.
				52 40		71^{2} Ed gutt.
				52 30		73^{2} "
				52 87		73^{2} Top cb.
				51 1	8^{5} Toe slope	
				55 2	21^{3} Top "	
				55 12	26^{6} Top cb. -	Island
				54 60	26^{6} gutt.	
				54 54	28^{6} Ed gutt.	
				54 04	49^{9} ctr. pv.	
				53 47	71^{2} Ed gutt.	
				53 35	71^{2} gutt.	
				53 42	71^{2} depressed cb.	
4+47^{3}				51 4		℄ & bott slope
				54 5		10^{0} Top " E.C.
				54 41		14^{5} Top cb. "
				53 94		14^{5} gutt
				53 90		16^{5} Ed gutt.
5+00				51 6		℄
				51 9		2^{0} Toe slope

Profile No. ____ Notes Red ____ Plotted ____ Date ____ Job No. 6268.20 Division No. 11 Survey of Hawthorne Blvd - S.D. #682 Survey by Sappell Notes Ds & Foulger Date 11-7-63 Map No. ____ Indexed C. J. GALLI Date ____

X-Sec. No. ____ Notes Chkd. ____ Date ____ Checked ____ Date ____

F.B. 2583 Pg. 113

76-L298 CE 307 3-61

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STATION	B.S.	H.I.	F.S.	ELEV.	LT & E	℄ Hawthorne RT & W.
5+00				548		10^{5} Top slope
				5462		14^{6} Top cb.
				5408		14^{6} gutt.
				5402		16^{6} Ed "
				5330		50 ctr. pv.
				5266		71^{2} Ed gutt.
				5256		73^{2} "
				5315		73^{2} Top cb.
				516	10^{0} Toe Slope	
				524	14^{5} Brk in slope.	
				552	22^{0} Top "	
				5524	26^{6} Top cb.	
				5471	26^{6} gutt.	
				5461	28^{6} Ed gutt.	
				5420	50 ctr. pv.	
				5357	71^{5} Ed gutt.	
				5343	73^{5} gutt.	
				5403	73^{5} Top cb.	
$5+27^{2}$				520		℄ Toe slope.
$5+51^{6}$				548		6^{6} Top "
				5471		10^{5} Top cb. E.C.
				5422		10^{5} gutt.

F.B. 2583 Pg. 114 Job No. 6268.20 Division No. 11 Notes Red Plotted Profile
Survey of Hawthorne Blvd. S.D. #682 Date Date No. X-Sec.
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Indexed Date Date Date No.

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STATION	B.S.	H.I.	F.S.	ELEV.	LT ℄ E.	℄ Hawthorne RT ℄ W.
5+51.6				54 18		12.5 Ed. gutt.
				52 1	1.5 Toe slope from W.	
				51 9	10.8 " " " E.	
				55 3	22.5 Top "	
5+53.6				53 92		24.7 Ed. gutt.
5+55.6				53 91		24.7 gutt. - begin Island
"				54 38		24.7 M.C.R. Top cb. " "
5+83.6				55 0		℄ & Top slope
				53 3	7.0 bott. slope	
				53 5	14.0 " "	
				55 4	23.0 Top "	
BM SD 3208				54 26	BM SD 3208 El. 54.275 F.B. 2583 - 15	
				corr. 54 27	Hawthorne Blvd ℄ 160 TH ST, N.E cor.	
					45' N. of N. end	C.R. - Bt. spk in cb.
6+00				54 97		1.0 Top cb.
				54 47		1.0 gutt.
				54 42	(left turn Lane.)	3.0 Ed gutt.
				54 37		12.1 Ed gutt.
				54 32		14.1 "
				54 81		14.1 Top cb.
				54 54		26.8 Top cb.
				54 05		26.8 gutt.

Profile No. ____ Notes Red ____ Plotted ____ Job No. 6268.20 Division No. 11 F.B. 2583 Pg. 115
Date ____ Date ____ Survey of Hawthorne Blvd. S.D. #1682
X-Sec. No. ____ Notes Chkd. ____ Checked ____ Survey by Sappe 11 Notes D.S. Date 11-8-63
Date ____ Date ____ Map No. ____ Indexed E. J. GALL Date ____

76-L298 CE 307 3-61

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STATION	B. S.	H. I.	F. S.	ELEV.	LT & E.	℄ Hawthorne RT & W
6+00				54 01		28^{8} Ed gutt.
				53 57		50 ctr. pv.
				52 95		71^{3} Ed gutt.
				52 82		73^{3} "
				52 98		73^{3} depressed-cb.
				54 9	10^{0} brk.	
				55 5	22^{5} Top "	
				55 33	26^{7} Top cb.	
				54 79	26^{7} gutt	
				54 77	28^{7} Ed gutt.	
				54 30	50 ctr. pv.	
				53 76	71^{4} Ed gutt.	
				53 66	73^{4} "	
				54 24	73^{4} Top cb.	
6+36^{0}				54 60	3^{6} Ed gutt.	
				54 62	5^{6} "	
				55 13	5^{6} Top cb. N. end C.R. (S.W. cor. Island)	
6+39^{0}				55 30	12^{6} Top T.M.H Lid (Note: Lid welded shut.)	
6+39^{9}				55 33	26^{6} Top cb. N. end C.R. (S.E cor. Island)	
				54 80	26^{6} gutt.	
				54 77	28^{6} ed gutt.	

F. B. 2583 Pg. 116 Job No. 6268.20 Division No. 11 Notes Red Plotted Profile
Survey of Hawthorne Blvd. S.D #682 Date Date No. X-Sec.
Survey by Sappell Notes D.S. Notes Chkd. Checked
Indexed C. J. GATT Date Date Date No.

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STATION	B.S.	H.I.	F.S.	ELEV.	LT & E.	℄ Hawthorne RT & W.
6+39.4	+O.K.			54 66		4.5 Ed gutt.
				54 62	gutt	6.5 N. end C.R. (S.E. cor Island)
				55 17	Top cb.	6.5 " " " "
6+44.8				54 59	gutt.	11.0 W. end C.R. (S.E. cor Island)
				55 15	Top cb.	11.0 W. " " "
				54 30	gutt.	25.0 E " " (S.W. cor Island)
				54 81	Top cb.	25.0 E " " "
6+45.1				54 83	16.0 gutt.	E. end C.R. (S.W. cor. Island)
				55 37	16.0 Top cb.	" " " " " "
				54 88	22.0 gutt.	W. " " (S.E. cor Island)
				55 40	22.0 Top cb.	" " " " " "
				54 41	50 W/4	
				53 85	71.4 Ed gutt.	
				53 74	73.4 "	N. end C.R. N.E. cor. Hawthorne & 160 TH
				54 35	73.4 Top cb.	" " " " "
6+44.8				54 61		11.0 Ed gutt.
"				54 30		25.0 " "
6+45.1				54 85	16.0 Ed gutt.	
"				54 90	22.0 " "	
T.P.				54 27	T.P.	

Profile Notes Red ____ Plotted ____ Job No. 626820 Division No. 11 F.B. 2583 Pg. 117
No. ____ Date ____ Date ____ Survey of Hawthorne Blvd. S.D. # 682
X-Sec. Notes Chkd. ____ Checked ____ Survey by Sappell Notes DS Date 11-8-63
No. ____ Date ____ Date ____ Map No. ____ Indexed J. GALL Date ____

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STATION	B.S.	H.I.	F.S.	ELEV.	LT ℄ E.	℄ Hawthorne RT ℄ W
6+70.4						72.2 S.M.H.
				53.15	N. Rim	
				53.15	S "	
	N YIM EL.	53.15 −	9.40 =	43.75	inv. 12" outlet N.	Meas. 8.40 Diam 1.00 Rod 9.40
	S. YIM EL.	53.15 −	9.37 =	43.78	inv. 12" inlet S.	8.37 1.00 9.37
(Note: pipe changes from 12" to 10" between this M.H. & M.H at 10+20.4)						
6+74.92				54.77	PG 57 & 78	℄ int ℄ 160 TH ST. Hawthorne
" "	=	1400	going E.		along the ℄	of 160 TH ST.
					LT ℄ N.	℄ 160 TH RT ℄ S.
1+26.6	E.			54.86		℄
1+50.6	"			54.43		℄ ctr. pv. - Hawthorne
1+73.3	"			53.99		℄ cb line "
1+88.0	"			54.28		℄
				54.16		7.5 W/4
				53.86		13.4 Ed gutt.
				53.70	gutt.	15.2 E end C.R. SE Cor.
				54.34	Top cb.	15.2 " " " "
				54.08	7.5 W/4	
				53.74	13.3 Ed gutt	
				53.59	15.1 "	E end C.R. NE Cor.

Profile No. ____ Plotted ____ Date ____ Notes Red ____ Date ____ Notes Chkd. ____ Date ____
X-Sec. No. ____ Checked ____ Date ____

Job No. 6268.20 Division No. 11
Survey of Hawthorne Blvd - S.D. H 6.02
Survey by Sargent Notes DS & D. Foulger
Indexed B. J. GALLI Date ____

F.B. 2583 Pg. 118

76-L298 CE 307 3-61

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STATION	B.S.	H.I.	F.S.	ELEV.	LT ℄ N.	℄ 160 TH. RT ℄ S.
1+88°	E.			5423	15¹ Top cb.. E end C.R. N.E. cor.	
1+98°	"			5419		℄
				5417		7⁵ W/4
				5383		13⁴ Ed gutt.
				5364		15² "
				5428		15² Top cb.
				5400	7⁵ W/4	
				5366	13³ Ed gutt.	
				5352	15¹ "	
				5414	15¹ Top cb.	
2+38	"			5363		℄
				5361		7⁵ W/4
				5348		13⁴ Ed gutt.
				5333		15² "
				5339		15² depressed cb.
				5356	7⁵ W/4	
				5332	13³ Ed gutt.	
				5317	15¹ "	
				5327	15¹ depressed cb.	
		Flow	to	East.		

Profile No. ____ Notes Red ____ Plotted ____ Job No. 6268.20 Division No. 11 F.B. 2583 Pg. 119
X-Sec. No. ____ Date ____ Date ____ Survey of Hawthorne Blvd. S.D. #682
Notes Chkd. ____ Checked ____ Survey by Sappe 11 Notes Dr. & Foulger Date 11-8-63
Date ____ Date ____ Map No. ____ Indexed R. J. CAM. Date ____

76-L298 CE 307 3-61

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STATION	B. S.	H. I.	F. S.	ELEV.	LT & N.	℄ 160 TH	RT & S
3+18.3				——		℄ J.C.M.H.	
				52.96	N Rim		
				52.96	E. "		
N. rim EL.	52.96	—	7.69 =	45.27	inv. 8" inlet N.	meas 7.02 Diam 0.67 Rod 7.69	
E. rim EL.	52.96	—	7.77 =	45.19	inv. 8" outlet E		7.10 0.67 7.77
	sec.	cont.	S.	along	Hawthorne Blvd.		
						℄ Hawthorne	
					LT & E.		RT & W.
6+93.0				47.97	71.8 inv. 48" corr.	I.P.	
6+95.0				50.07	71.8 " 18" "	"	
7+03.4				54.73		14.8 Ed gutt.	
				55.01	15.9 Ed gutt.		
7+05.4				54.70		14.8 gutt.	
				55.15	Top cb.	14.8 E. end C.R. (N.W. cor. Island)	
				55.01	15.9 Gutt.		
				55.53	15.9 Top cb. - W. end C.R. (N.E. cor. Island)		
7+06.4				51.82	72.3 inv. 18" corr.	Iron drain	pipe

F.B. 2583 Pg. 120 Job No. 6268.20 Division No. 11 Notes Red Plotted Profile
Survey of Hawthorne Blvd. S.D. # 682 Date Date No.
Survey by Sappell Notes DS & D. Foulger Notes Chkd. Checked X-Sec.
Indexed E. J. GALLI Date Date Date No.

76-L298 CE 307 3-61

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STATION	B.S.	H.I.	F.S.	ELEV.	LT & E.	℄ Hawthorne RT & W.
7+15.2				55 50		℄ Top island
				55 46	26.7 Top cb.	
				54 96	26.7 gutt.	
				54 91	28.7 Ed gutt.	
				54 48	49.9 ctr. pv.	
				53 95	70.8 Ed catch basin	
				53 75	73.3 Top iron grate	
				51 95	73.3 bott catch basin	
				54 42	73.3 Top cb.	
7+30.2	+o.k.			55 47		℄ Top Island
				55 21		9.1 Top cb.
				54 67		9.1 gutt.
				54 67		9.5 Ed gutt.
				54 00		49.9 ctr. pv.
				53 30		70.7 Ed catch basin
	grate EL. 53.21 - 2.80			50 41		71.2 inv. 18" corr. I.P.
				53 21		73.2 Top iron Grate
	grate EL. 53.21 - 2.80			50 41		73.2 bott. catch basin
				53 85		73.2 Top cb.
7+ 27.7				50 17	2.6 inv. 18" corr. I.P. in drain conc. junction chamber.	

Profile No. ____ Notes Red ____ Plotted ____ Job No. 6268.20 Division No. 11
Date ____ Date ____ Survey of Hawthorne Blvd - S.D. - # 682
X-Sec. No. ____ Notes Chkd. ____ Checked ____ Survey by Sappell Notes Dr. & Foulger Date 11-8-63
Date ____ Date ____ Map No. ____ Indexed J. GALLI Date ____

F.B. 2583 Pg. 121

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F.B. 2583 Pg. 122 | Job No. 6268.20 | Division No. 11 | Notes Red ____ Plotted ____ Profile ____
Survey of Hawthorne Blvd. - S.D. #682 | Date ____ Date ____ No. ____
Survey by Sappell Notes D.S. & D. Faulger | Notes Chkd. ____ Checked ____ X-Sec. ____
Indexed R.J. Gatty | Date ____ Date ____ No. ____

STATION	B.S.	H.I.	F.S.	ELEV.	LT ℄ E.	℄ Hawthorne	RT ℄ W.
7+26.3	+o.k.			5007	7.0 inv. 48" corr. I.P. in S.D.J.C.		
7+29.8				5007	5.5 inv. 3'×5' corr.	I.P. in S.D.J.C.	
7+31.9	EL. 53.21	—	1.70 =	5151		73.3 inv. 18" corr. I.P.	
7+37.2				5469		24.8 Ed gutt.	
7+39.2				5472		24.8 gutt.	
7+39.2				5520		24.8 M.C.R. Top cb. (Begin Isl and)	
7+61.8				5498		℄	
				5496	0.7 Ed gutt.		
				5491	3.0 "		
				5539	3.0 Top cb. - Island		
				5559	26.7 " " "		
				5508	26.7 gutt.		
				5505	28.7 Ed gutt.		
				5454	49.9 ctr. pv.		
				5402	71.3 Ed gutt.		
				5389	73.3 "		
				5450	73.3 Top cb.		
7+94				5531		℄	gutt.
8+00				5587		℄	Top cb. - Island

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STATION	B.S.	H.I.	F.S.	ELEV.	LT & E	℄ Hawthorne RT & W
8+00				55 35		26.7 Top cb. - island
				54 84		26.7 gutt
				54 79		28.7 Ed gutt.
				54 18		49.9 ctr. pv.
				53 61		71.3 Ed gutt.
				53 45		73.3 "
				54 07		73.3 Top cb.
8+13.8				55 65	24.7 gutt.	
"				55 17	24.7 Top cb. - M.C.R. end Island	
8+14.9				55 99	5.4 Top cb. N.W. end C.R. (S.E. cor. Island)	
"				55 48	5.4 gutt "	" " " " "
				55 54	7.4 edge "	
8+15.8	Plus O.K.			55 10	24.7 edge gut.	
8+15.85				56 00	PG 56 & 78	℄ int. Hawthorne Blvd. & Freeway off Ramp
" "	= 1+00 going E'ly along the ℄ of OFF. Ramp.					
					LT. & N.	℄ Ramp RT. & S.
1+49.9	E'ly			54 73		℄ ctr. pv. - Hawthorne.
1+71.3	"			54 07		℄ Ed "X" gutt.
1+73.3	"			54 01		℄ F/L " "
1+75.3	"			54 09		℄ Ed " "
1+91.5	"			54 21		℄ 7.1 W/4
				54 20		12.3 Ed gutt
				54 18		14.3 "
				54 14		14.3 Top cb.
				54 63		

Profile No. ___ Notes Red ___ Plotted ___ Job No. 6268.20 Division No. 11 F.B. 2583 Pg. 123
X-Sec. No. ___ Date ___ Date ___ Survey of Hawthorne Blvd. - S.D. # 682
Notes Chkd. ___ Checked ___ Survey by Sappe II Notes DS & Foulger Date 11-8-63
Date ___ Date ___ Map No. ___ Indexed C. J. GALLI Date ___

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STATION	B. S.	H. I.	F. S.	ELEV.	LT & N.	℄ Ramp.	RT & S.
T.P.				54 80	T.P.		
2+16.5	E'ly			54 64		℄	
				54 64	7.1 w/4		
				54 66	12.2 Ed gutt		
				54 64	14.2 "		
				54 71	14.2 depressed cb		
2+56.5	"			55 59		℄	
				55 51		7.1	
				55 44		12.3	same as LFT
				55 28		14.3	
				55 77		14.3	
				55 64	7.1		
				55 64	12.2		
				55 69	14.2 same		
				56 13	14.2		
3+56.5	"			60 37		℄	
				59 92		7.1	
				59 62		12.3	same
				59 48		14.3	
				59 94		14.3	
				60 77	7.1 same		
				61 08	12.2		

F.B. 2583 PG. 124 Job No. 6268.20 Division No. 11 Notes Red Plotted Profile
Survey of Hawthorne Blvd. S.D. #682 Date Date No. X-Sec.
Survey by Sappell Notes D.S. & D. Foulger Notes Chkd. Checked
Indexed E. J. GAMM Date Date Date No.

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STATION	B.S.	H.I.	F.S.	ELEV.	LT & N.	℄ Ramp	RT & S.
3+56.5	E'ly			61 21	14.2 gutt.		
				61 65	14.2 Top cb.		
3+31.5	grate	EL. 58.40	- 720	51 20		12.3 inv. 24" corr. I.P. & bot. catch basin	
				?		15.3 inv. 24" corr. I.P.	
		cont	S.	along	the ℄ of Hawthorne Blvd.		
					LT. & E.	℄ Hawthorne	RT & W.
8+17.4				56 05	3.7 Top cb. W. end C.R. (S.E. cor. Island)		
				55 55	3.7 gutt.	" " "	
8 +19.6				55 40	(S.W. cor Island)	26.7 Top cb. - N. end C.R.	
				54 90	" " "	26.7 gutt.	
				54 86		28.7 Ed. gutt.	
8+21.7				55 40	(S.W. cor. Island)	24.4 Top cb. - E end C.R.	
				54 94	" " "	24.4 gutt.	
8+23.7				54 94		24.4 Ed gutt.	
8+39.5				55 08		℄ " "	
8+41.5				55 07		℄ gutt	
				55 59		℄ Top cb.	
8+46				55 6		℄ Top slope.	
8+52.6				50 12		℄ inv. 3°x5° corr. I.P.	
				55 7		13.0 Top slope	
				55 7	14.0 Top slope		

Profile No. ____ Notes Red ____ Plotted ____ Job No. 6268.20 Division No. 11 F.B. 2583 Pg. 125
X-Sec. No. ____ Date ____ Date ____ Survey of Hawthorne Blvd - S.D.H. 682
Notes Chkd. ____ Checked ____ Survey by Sappell Notes D.S. Date 11-8-63
Date ____ Date ____ Map No. ____ Indexed C. J. GALLI Date ____

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F.B. 2583 Pg. 126 | Job No. 626820 | Division No. 11 | Notes Red ____ Plotted ____ Profile No. ____
Survey of Hawthorne Blvd. S.D. #682 | Date ____ Date ____ X-Sec. No. ____
Survey by Sapell Notes D.S. | Notes Chkd. ____ Checked ____
Indexed [redacted] | Date ____ Date ____

STATION	B.S.	H.I.	F.S.	ELEV.		
8+60.85			PG 56 &	80	int ℄ Hawthorne & ⊼ Line	Freeway-on Ramp
" "	=	1+00	going	5'1Y	along ⊼ Line of	on Ramp
					LT & N.	⊼ Line RT & S.
1+50	5'1Y			54 86		⊼ Line w/4 Hawthorne
1+71 3	"			54 20		" " Ed "X" gutt.
1+73 3	"			54 14		" " F/L " "
1+75 3	"			54 19		" " Ed. " "
1+91 5	"			54 40	7 2 w/4	
				54 39	12 4 Ed gutt.	
				54 34	14 4 gutt	
				54 84	14 4 Top cb. - Island	
2+22 4	"			54 89		⊼ Line
				54 96		7 1 w/4
				54 81		12 2 Ed gutt
				54 67		14 2 "
				55 20		14 2 Top cb.
2+62 4	"			55 46		⊼ Line
				55 36		7 1
				55 27		12 2 same
				55 10		14 2
				55 59		14 2

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STATION	B.S.	H.I.	F.S.	ELEV.	LT & N.	⊼ Line (Ramp)	RT & S.
2+62.4	E'ly			55 55	7.2 w/4		
				55 72	12.4 Ed gutt.		
				55 67	14.4 "		
				56 18	14.4 Top cb.		
3+52.9	"			56 40			12.4 Top iron grate
		56.40 -	4.70 =	51 70			12.4 Inv. 24" corr. IP.
3+62.4	"			57 53		⊼ LINE	
				57 10			7.1
				56 71			12.2 same
				56 58			14.2
				57 06			14.2
				57 97	7.2		
				58 57	12.4		
				58 67	14.4 same		
				59 17	14.4		
		sec. cont		along ℄ of Hawthorne Blvd			
					LT & E.	℄ Hawthorne	RT & W
8+68.1				50 6		℄	bott ditch.
				50 6			5.4 Toe slope
				55 4			19.4 Top "
				55 53			26.7 Top cb. S. end C.R. Island
				55 00			26.7 gutt.
				54 97			28.7 Ed gutt.
TP.				55 55	TP.		

Profile Notes Red ____ Plotted ____ Job No. 6268.20 Division No. 11 F.B. 2583 Pg. 127
No. ____ Date ____ Date ____ Survey of Hawthorne Blvd - S.D. # 682
X-Sec. Notes Chkd. ____ Checked ____ Survey by Sappell Notes DS. Date 11-8-63
No. ____ Date ____ Date ____ Map No. ____ Indexed E. J. GALLI Date ____

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STATION	B.S.	H.I.	F.S.	ELEV.	LT ℄ E	℄ Hawthorne RT ℄ W
8+68.1				506	3.6 Toe slope	
				557	19.6 Top "	
				5589	26.7 Top cb.	S. end C.R. island
				5535	26.7 gutt	
				5532	28.7 Ed gutt.	
9+00				507		℄
				507		4.3 Toe slope
				557		19.2 Top "
				5569		26.7 Top cb.
				5516		26.7 gutt.
				5511		28.7 Ed gutt
				5447		49.9 ctr. pv.
				5390		71.1 Ed gutt
				5378		73.1 "
				5441		73.1 Top cb.
9+27.7				505		℄
				505	4.0 Toe slope	
				560	21.0 Top "	
				5591	26.7 Top cb.	
				5538	26.7 gutt.	
				5534	28.7 ed gutt.	

F.B. 2583 Pg. 128 Job No. 6268.20 Division No. 11 Notes Red Plotted Profile
Survey of Hawthorne Blvd. S.D. #682 Date Date No. X-Sec.
Survey by Sappell Notes D.S. Notes Chkd. Checked No.
Indexed C. J. GAIN Date Date Date

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STATION	B.S.	H.I.	F.S.	ELEV.	LT & E	℄ Hawthorne RT & S.
9+27.7				54.92	50 ctr. pv.	
				54.30	71.3 Ed gutt.	
				54.19	73.3 "	
				54.83	73.3 Top cb.	
9+85.3				50.8		℄
				50.88		{6.0 Toe slope & inv. 18" corr. l.p.
				55.9		19.4 Top slope
				55.94		26.7 " cb.
				55.40		26.7 gutt.
				55.37		28.7 Ed gutt.
				54.75		49.9 ctr. pv.
				54.14		71.1 Ed catch basin
				51.10		71.1 inv 18" corr. l.p.
				54.05		73.1 Top iron grate
				54.63		73.1 Top cb.
10+00				51.0		℄
				51.0	5.0 Toe slope	
				56.2	19.0 Top "	
				56.04	26.7 Top cb.	
				55.56	26.7 gutt.	
				55.49	28.7 Ed gutt.	

Profile Notes Red ____ Plotted ____ Job No. 6268.20 Division No. 11 F.B. 2583 Pg. 129
No. ____ Date ____ Date ____ Survey of Hawthorne Blvd - S.D. #682
X-Sec. Notes Chkd. ____ Checked ____ Survey by Sappell Notes DS Date 11-8-63
No. ____ Date ____ Date ____ Map No. ____ Indexed C. J. GALLI Date ____

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F.B. 2583 Pg. 130 Job No. 6268.20 Division No. 11 Notes Red ____ Plotted ____ Profile No. ____
Survey of Hawthorn Blvd. S.D. #682 Date ____ Date ____ X-Sec. No. ____
Survey by Sappell Notes D.S. Notes Chkd. ____ Checked ____
Indexed E. I. GALL Date ____ Date ____

STATION	B.S.	H.I.	F.S.	ELEV.	LT ℄ E	℄ Hawthorne RT ℄ W.
10+00				5504	50. ctr. pv.	
				5442	71^{3} Ed gutt.	
				5430	73^{3} "	
				5494	73^{3} Top cb.	
$10+12^{6}$				5043		6^{4} Toe slope ℄ inv. 30"x42" corr. I.P.
$10+20^{4}$						72^{1} S.M.H.
				5421	N Rim	
				5422	S. "	
		54.21 -	9.13 =	4508	inv. 10" outlet N.	meas. 8.30 Diam 0.83 Rod 9.13.
(Note: pipe changes from 10" to 12" between this M.H. ℄ M.H at sta. $6+70^{4}$)						
		5422 -	9.03 =	4519	inv. 10" inlet S.	8.20 0.83 9.03.
TP.				5436	TP.	
$10+25^{5}$				509		℄
				509		5^{0} Toe slope
				560		19^{4} Top "
				5602		26^{7} Top cb.
				5548		26^{7} gutt.
				5544		28^{7} Ed gutt.
				5489		49^{9} ctr. pv.

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STATION	B.S.	H.I.	F.S.	ELEV.	LT & E.	℄ Hawthorne RT & W.
10+25.5				54 31		71.1 Ed gutt
				54 17		73.1 gutt
				50 71		73.6 Bott catch basin & inv. 30"x42" corr. I.P.
				54 86		73.1 Top cb.
10+83.7				50 5		℄
				51 5		6.0 Toe slope
				56 1		20.0 Top "
				56 29		26.7 Top cb. (N. end CR. island)
				55 72		26.7 gutt. " "
				55 68		28.7 Ed gutt.
				51 8	3.5 Toe slope.	
				55 9	20 Top. slope	
				56 16	26.7 Top cb. N. end C.R. island.	
				55 61	26.7 gutt. " " " "	
				55 59	28.7 Ed. "	
				55 19	50 ctr. pv.	
				54 61	71.3 Ed gutt.	
				54 47	73.3 "	
				55 07	73.3 Top cb.	
10+86.58					PG 55 & 81	℄ int. Hawthorne & Freeway on Ramp
" "	= 1+00 going W. along the ℄ of Ramp					
					LT. & S.	℄ Ramp RT & N.
1+49.9	W			55 10		℄ ctr. pv. - Hawthorne
1+ 71.1	"			54 55		℄ Ed "x" gutt.
1+ 73.1	"			54 47		℄ F/L " "

Profile No. ____ Notes Red ____ Plotted ____ Job No. 626820 Division No. 11 F.B. 2583 Pg. 131
X-Sec. No. ____ Date ____ Date ____ Survey of Hawthorne Blvd. SD # 682
Notes Chkd. ____ Checked ____ Survey by Sappell Notes D.S. Date 11-8-63
Date ____ Date ____ Map No. ____ Indexed E. J. GANT Date ____

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STATION	B. S.	H. I.	F. S.	ELEV.	LT ℄ S.	℄ on Ramp	RT ℄ N.
1+75.1	W.			54 55		℄ Ed "X" gutt.	
1+91.0	"			54 68		℄	
				54 79	7.1 w/4		
				54 86	12.3 Ed gutt		
				54 81	14.3 "		
				55 30	14.3 Top cb.		
2+18.1	"			54 90		℄	
				54 77		7.1 w/4	
				54 70		12.2 Ed gutt.	
				54 64		14.2 "	
				55 16		14.2 Top cb.	
2+58.1	"			55 35		℄	
				55 16		7.1	
				55 02		12.2 same	
				54 85		14.2	
				55 34		14.2	
				55 85	7.1		
				55 63	12.3 same		
				55 68	14.3		
				56 13	14.3		

F.B. 2583 PG. 132
Job No. 6268.20 Division No. 11 Notes Red Plotted Profile
Survey of Hawthorne Blvd. S.D. # 682 Date Date No.
Survey by Sappell Notes D.S. Notes Chkd. Checked X-Sec.
Indexed C. J. GAIT Date Date Date No.

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STATION	B.S.	H.I.	F.S.	ELEV.	LT ℄ S.	℄ on Ramp RT ℄ N.
3+50 1	W.			57 84		℄ B.C.
				57 29		7 1 W/4
				56 77		12 2 Ed gutt.
				56 66		14 2 "
				57 15		14 2 Top cb.
				58 41	7 1	
				58 92	12 3 same	
				59 05	14 3	
				59 53	14 3	
		sec. cont. So. along ℄ of Hawthorne Blvd.				
						℄ Hawthorne Blvd.
					LT ℄ E.	RT ℄ W.
11+01 6				49 69		℄ inv. 36" corr. I.P.
				54 85		5 9 Top H.W. & gnd.
				56 2		11 0 top slope.
				54 85	6 2 Top Head wall & gnd.	
				56 3	12 0 Top slope.	
11+06 6				56 1		℄ Top slope
11+10 6				56 29		℄ Top cb.
				55 77		℄ gutt
11+12 6				55 78		℄ Ed gutt.

Profile No. ____ Notes Red ____ Plotted ____ Job No. 6268.20 Division No. 11 F.B. 2583 Pg. 133
X-Sec. No. ____ Date ____ Date ____ Survey of Hawthorne Blvd - SD #682
Notes Chkd. ____ Checked ____ Survey by Sappell Notes D.S. Date 11-12-63
Date ____ Date ____ Map No. ____ Indexed C. J. GALLI Date ____

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STATION	B.S.	H.I.	F.S.	ELEV.	LT & E.	℄ Hawthorne Rt & W.
11 + 32.0 + o.k.				5624	26.8 Top cb. - S. end C.R. Island N.E. cor.	
				5573	26.8 gutt.	" "
				5569	28.8 Ed gutt.	
11+31.72				5605	PG 55 & 82	℄ int Hawthorne & Freeway off Ramp & Ed gutt.
" " = 1+00 going W. along the ℄ of Ramp						
					LT & S.	℄ Ramp RT & N.
1+71.1	W.			5464		℄ Ed "X" gutt.
1+73.1	"			5453		℄ F/L " "
1+75.1	"			5458		℄ Ed " "
1+91.0	"			5494		℄
				5493		7.2 w/4
				5488		12.5 Ed gutt.
				5479		14.5 "
				5524		14.5 Top cb. - Island.
2+18.1	"			5550		℄
				5564	7.1 w/4	
				5573	12.2 Ed gutt.	
				5566	14.2 gutt.	
				5575	14.2 depressed cb.	
2+58.1	"			5685		℄
				5659		7.2 w/4

F.B. 2583 Pg. 134 Job No. 6268.20 Division No. 11 Notes Red Plotted Profile
Survey of Hawthorne Blvd S.D. # 682 Date Date No. X-Sec.
Survey by Sappell Notes D.S. Notes Chkd. Checked No.
Indexed C. J. GAUTT Date Date Date

76-L298 CE 307 3-61

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STATION	B.S.	H.I.	F.S.	ELEV.	LT ℄ S.	℄ off Ramp RT ℄ N.
2+58.1	W.			5644		12.5 Ed gutt.
				5634		14.5 "
				5680		14.5 Top cb.
				5705	7.1 w/4	
				5718	12.2 Ed gutt.	
				5723	14.2 "	
				5771	14.2 Top cb.	
3+50.1	"			6163		℄ B.C.
				6111		7.2
				6070		12.5 same
				6063		14.5
				6108		14.5
				6217	7.1	
				6263	12.2 same	
				6275	14.2	
				6328	14.2	
	sec cont along the ℄ of Hawthorne Blvd.					
					LT. ℄ E.	℄ Hawthorne RT ℄ W.
11+32.7				5605		℄ gutt.
				5654		℄ Top cb.
11+32.9	+ok			5612		3.6 Ed gutt.

Profile No. ____ Notes Red ____ Plotted ____ Job No. 6268.20 Division No. 11 F.B. 2583 Pg. 135
X-Sec. No. ____ Date ____ Date ____ Survey of Hawthorne Blvd. S.D. #682
Notes Chkd. ____ Checked ____ Survey by Sappell Notes D.S. Date 11-12-63
Date ____ Date ____ Map No. ____ Indexed ____ Date ____

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F.B. 2583 PG. 136 | Job No. 6268.20 | Division No. 11 | Notes Red ____ | Plotted ____ | Profile No. ____
Survey of Hawthorne Blvd. SD #682 | Date ____ | Date ____ | X-Sec. No. ____
Survey by Sapell | Notes D.S. | Notes Chkd. ____ | Checked ____
Indexed ____ | Date ____ | Date ____ | Date ____

STATION	B.S.	H.I.	F.S.	ELEV.	LT ℄ E	℄ Hawthorne	RT ℄ W.
11+34.0				56.10		3.6	gutt.
				56.59	(N.W. cor. Island)	3.6	Top cb. E. end c.R.
11+34.3				55.78		24.7	Ed gutt.
11+36.3				55.80		24.7	gutt. M.C.R. Begin Island
				56.30		24.7	Top cb.
11+36.6				56.65	(N.W. cor. Island)	5.7	Top cb. S. end c.R.
				56.15		5.3	gutt.
				56.12		7.7	Ed gutt.
11+90.8				56.21		℄	
				56.15		7.3	Ed gutt.
				56.19		9.3	"
				56.65		9.3	Top cb. Island
				56.54		21.9	" "
				56.05		21.9	gutt
				55.98		23.9	Ed "
				55.46		49.9	ctr. pv.
				54.86		71.1	Ed gutt.
				54.65		73.1	"
				55.29		73.1	Top cb.
				56.40	26.6 Top cb. Island.		
				55.90	26.6 gutt.		

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STATION	B. S.	H. I.	F. S.	ELEV.	LT ℄ E	℄ Hawthorne	RT ℄ W.
11+90.8				5584	28.6 Ed gutt.		
				5532	50 ctr. pv.		
				5476	71.3 Ed gutt.		
				5461	73.3 "		
				5522	73.3 Top cb.		
12+54.5				5606	24.6 gutt.	m.c.R. End island	
				5649	24.6 Top cb. "	" " "	
12+50.5	+ ok.			5604	24.6 Ed gutt.		
12+53.7	"			5602		24.7 Ed gutt.	
12+55.7	"			5602		24.7 gutt.	
				5653		24.7 Top cb. m.c.R. - Island	
12+79.3					60.0 End S.M.H.		
				5531	S Rim		
		55.31 -	6.32	4899	Inv. 8" outlet S.	meas. 5.65 Diam 0.67 Rod 6.32.	
12+90				5694		℄	
				5683		3.0 Top cb.	
				5634		3.6 gutt.	
				5632		5.0 ed. gutt.	
				5625		14.2 " "	
				5624		16.2 gutt.	

Profile Notes Red ____ Plotted ____ Job No. 626820 Division No. 11 F.B. 2583 Pg. 137
No. ____ X-Sec. ____ Date ____ Date ____ Survey of Hawthorne Blvd. S.D. #682
No. ____ Notes Chkd. ____ Checked ____ Survey by Sappe // Notes D.S. Date 11-12-62
Date ____ Date ____ Map No. ____ Indexed R. J. GALL Date ____

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STATION	B. S.	H. I.	F. S.	ELEV.	LT & E.	℄ Hawthorne RT & W
12+90				56 75		16^{2} Top cb.
				56 66		26^{8} " "
				56 16		26^{8} gutt.
				56 12		28^{8} Ed gutt.
				55 75		49^{9} ctr. pv.
				55 13		71^{1} Ed gutt.
				55 01		73^{1} "
				55 64		73^{1} Top cb.
				56 84	14^{0} Top cb.	
				56 32	14^{0} gutt.	
				56 30	16^{0} ed gutt	
				55 57	50 ctr. pv.	
				54 94	71^{3} Ed gutt.	
				54 81	73^{3} "	
				55 39	73^{3} Top cb.	
$13+20^{3}$				56 85		26^{5} Top cb.
				56 36		26^{5} gutt.
				56 32		28^{5} Ed gutt.
				55 87		49^{9} ctr. pv.
				55 30		71^{1} Ed catch basin
		55.30-	3.10	52 20		71^{1} inv. 18" corr. I.P.

F.B. 2583 Pg. 138 Job No. 6268.20 Division No. 11 Notes Red Plotted Profile
Survey of Hawthorne Blvd. S.D. #682 Date Date No. X-Sec.
Survey by Sappell Notes D.S. Notes Chkd. Checked
Indexed [illegible] J. GALL Date Date Date No.

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STATION	B.S.	H.I.	F.S.	ELEV.	LT & E.	℄ Hawthorne RT & W.
13+20^{3}				55 15		73^{1} Top iron grate
				55 22		73^{1} depressed cb.
13+30				55 68	50 ctr. pv.	
				55 10	71^{3} Ed gutt.	
				54 95	73^{3} "	
				55 54	73^{3} Top cb.	
BM SD 3207				55 69	BM SD 3207 El 55.687 FB 2583 - 14	
					Hawthorne Blvd & 162 nd St., N.W. cor.	
					48^{5} N. of N. end C.R. - Bt spk in cb.	
13+37^{0}				56 60	3^{9} Ed gutt.	
				56 58	5^{9} "	
				57 10	5^{9} Top cb. - N W'ly end C.R. (S.W. cor Island)	
13+39^{4}				57 00	12^{5} Top T.M.H. Lid.	
					NOTE: Lid welded shut.	
13+39^{8}				56 50		4^{2} Ed gutt.
				56 47		6^{2} gutt.
				57 00	(S.E. cor. Island)	6^{2} Top cb. N-W'ly end C.R.
13+42^{2}				56 75	26^{3} Top cb. - S.E. cor Island.	
				56 24	26^{3} gutt.	
				56 25	28^{5} ? Ed gutt.	

Profile No. ____ Notes Red ____ Plotted ____ Job No. 6268.20 Division No. 11 F.B. 2583 Pg. 139
X-Sec. No. ____ Date ____ Date ____ Survey of Hawthorne Blvd - S.D. Fl 682
Notes Chkd. ____ Checked ____ Survey by Sappell Notes D.S. Date 11-12-63
Date ____ Date ____ Map No. ____ Indexed ____ Date ____

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STATION	B.S.	H.I.	F.S.	ELEV.	LT & E	& Hawthorne RT & W.
13+45.0				5670		&
				5671		10.5 gutt.
				5722	(S.E. cor. Island)	10.5 Top cb. - W. end C.R.
				5660		24.7 gutt.
				5712	(S.W. cor. Island)	24.7 Top cb. - E. end C.R.
				5645	15.5 gutt.	
				5695	15.5 Top cb. - E. end C.R. (S.W. cor. Island)	
				5635	24.7 gutt	
				5686	24.7 Top cb. W. end C.R. (S.E. cor Island)	
13+47.0				5676		10.5 Ed gutt.
				5660		24.7 " "
				5650	15.5 Ed. gutt.	
				5635	24.7 " "	
13+74.94				5684	PG 52 & 84	Hawthorne & int & 162 ND ST TO E.
" "	= 1+00 going E. along the & of 162 ND TO E.					
					LT & N.	& 162 ND RT & S.
1+50	E.			5588		& w/4 Hawthorne
1+59.8	"				5.0 J.C.M.H.	
				5564	N Rim	
				5564	E. "	
				5566	W "	

F.B. 2583 Pg. 140 Job No. 626820 Division No. 11 Notes Red Plotted Profile
Survey of Hawthorne Blvd. S.D. #682 Date Date No. X-Sec.
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STATION	B.S.	H.I.	F.S.	ELEV.	LT ℄ N.	℄ 162 ND TO E.	RT ℄ S.
1+59 8	E.	55.64-	7.10=	48.54	inv. 8" inlet N.	meas. 6.43 Diam 0.67 Rod 7.10.	
		55.64-	7.08=	48.56	inv. 8" inlet E.		6.41 0.67 7.08.
		55.66-	7.21=	48.45	inv. 8" outlet W.	6.54 0.67 7.21.	
1+98 3	"			55 17		℄	
				55 02		6 6	W/4
				54 68		11 4	Ed gutt
				54 58		13 2	gutt
				55 24		13 3	Top cb
				55 10	10 W/4		
				54 64	18 3 Ed gutt		
				54 54	20 1 "		
				55 19	20 1 Top cb.		
		Flow		to	East.		
3+23 2	"					5 0 ctr.	Rectangular J.C. M.H.
				53 76	W. Rim		
				53 68	S. Rim		
		53.76-	4.57=	49.19	inv. 8" outlet W.	meas. 3.90 Diam 0.67 Rod 4.57.	3.63 0.67 4.30.
		53.68-	4.30=	49.38	inv. 8" inlet S.		

Profile Notes Red ____ Plotted ____ Job No. 6268.20 Division No. 11 F.B. 2583 Pg. 141
No. ____ Date ____ Date ____ Date ____ Survey of Hawthorne Blvd. S.D. #682
X-Sec. Notes Chkd ____ Checked ____ Survey by Sappell Notes D.S. Date 11-12-63
No. ____ Date ____ Date ____ Map No. ____ Indexed E. J. Gall Date ____

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STATION	B.S.	H.I.	F.S.	ELEV.		
13+75.46				56.86	PG 52 & 84	℄ int. Hawthorne & 162 Nd. St. to W.
" "	= 1+00 going W. along the ℄ of 162 ND. TO W.					
					LT & S.	℄ 162 ND RT & N.
1+49.9	W			56.34		℄ ctr. pv. Hawthorne
1+71	"			55.74		℄ Ed "X" gutt.
1+73	"			55.61		℄ F/L " "
1+75	"			55.73		℄ Ed " "
1+75.4	"					4.7 J.C. M.H.
				55.68	N Rim	
				55.65	E "	
				55.71	W "	
				55.69	S. "	
		55.68-	8.00=	47.68	inv. 10" outlet N.	Meas. 7.17 Diam 0.83 Rod 8.00
		55.65-	7.74=	47.91	inv. 8" inlet E.	7.07 0.67 7.74
		55.71-	7.57=	48.14	inv. 8" " W.	6.90 0.67 7.57
		55.69-	7.86=	47.83	inv. 10" " S.	7.03 0.83 7.86

F.B. 2583 Pg. 142 Job No. 6268.20 Division No. 11 Notes Red Plotted Profile
Survey of Hawthorne Blvd. S.D. #682 Date Date No. X-Sec.
Survey by Sappell Notes D.S. Notes Chkd. Checked
Indexed C. J. GALLI Date Date Date No.

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STATION	B.S.	H.I.	F.S.	ELEV.	LT ℄ S.	℄ 162 ND ST. TO W.	RT ℄ N.
1+98	W			5596		℄	
				5576		7.5	w/4
				5566		13.3	Ed gutt.
				5551		15.1	"
				5557		15.1	depressed cb.
				5596	7.5 w/4		
				5594	13.3 Ed gutt		
				5584	15.1 "		
				5629	15.1 Top cb.		
2+38°	"			5604		℄	
				5585		7.5	same as LT.
				5575		13.3	
				5556		15.1	
				5600		15.1	
				5601	7.5		
				5598	13.3 same		
				5586	15.1		
				5637	15.1		
3+38	"			5624		℄	
				5606		7.5	same
				5592		13.3	

Profile No. X-Sec. No. Notes Red Date Notes Chkd. Date Plotted Date Checked Date Job No. 6268.20 Division No. 11 Survey of Hawthorne Blvd. S.D. #682 Survey by Sappell Notes D.S. Date 11-12-63 Map No. Indexed Date

F.B. 2583 Pg. 143

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STATION	B.S.	H.I.	F.S.	ELEV.	LT & S.	℄ 162ND TO W. RT & N.
3+38.0				5574		15.1 Ed gutt
				5625		15.1 Top cb.
				5614	7.5 w/4	
				5606	13.3 Ed gutt.	
				5596	15.1 "	
				5658	15.1 Top cb.	
4+84.7						5.0 S.M.H.
				5654	E. Rim	
				5656	W. "	
		56.54-	7.29=	49.25	inv. 8" outlet E.	meas. 6.62 Diam 0.67 Rod 7.29
		56.56-	7.21=	49.35	inv. 8" inlet W	6.54 0.67 7.21
sec. cont. along ℄ Hawthorne Blvd						
					LT & E.	℄ Hawthorne RT & W.
14+03.6				5715		16.0 Ed gutt.
				5711		22.9 " "
				5700	10.9 Ed gutt.	
				5675	24.9 " "	
14+05.6				5712		℄
				5716		16.0 gutt.
				5767	(N.E. cor Island)	16.0 Top cb. - W end C.R.

F.B. 2583 PG. 144 Job No. 6268.20 Division No. 11 Notes Red ____ Plotted ____ Profile ____
Survey of Hawthorne Blvd. S.D. #682 Date ____ Date ____ No. ____
Survey by Jappell Notes D.S. Notes Chkd. ____ Checked ____ X-Sec. ____
Indexed ____ Date ____ Date ____ Date ____ No. ____

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STATION	B.S.	H.I.	F.S.	ELEV.	LT ℄ E.	℄ Hawthorne	RT ℄ W.
14+05.6				5710		22.9	gutt.
				5763	(N.W. cor. Island)	22.9	Top cb. - E end C.R.
				5701	10.9	gutt.	
				5749	10.9	Top cb. E end C.R. (N.W. cor Island)	
				5673	24.9	gutt.	
				5725	24.9	Top cb. W. end C.R. (N.E. cor. Island)	
14+07.3				5720	26.6	Top cb. S. " " (" " ")	
				5668	26.6	gutt.	
				5670	28.6	Ed gutt.	
14+10.6				5777	(N.W. cor. Island)	26.8	Top cb. S. end C.R.
				5725		26.8	gutt.
				5726		28.8	Ed gutt.
14+11.3				5707	4.4	Ed gutt.	
				5704	6.4	"	
				5754	6.4	Top cb. S end C.R. (N.W. cor Island)	
14+13.8				5715		4.0	Ed gutt
				5717		6.0	"
				5770	(N.E. cor Island)	6.0	Top cb. - S end C.R.
14+15.5				5671		49.9	ctr. pv.
				5614		71.0	Ed gutt
				5604		73	"
				5663		73	Top cb.

Profile Notes Red ____ Plotted ____ Job No. 6268 20 Division No. 11 F.B. 2583 PG. 145
No. ____ Date ____ Date ____ Date ____ Survey of Hawthorne Blvd. S.D. #682
X-Sec. ____ Notes Chkd. ____ Checked ____ Survey by Zappell Notes D.S. Date 11-12-63
No. ____ Date ____ Date ____ Map No. ____ Indexed E. J. Gall Date ____

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STATION	B. S.	H. I.	F. S.	ELEV.	LT ℄ E	℄ Hawthorne RT ℄ W.
14+15.5				5619	50 ctr. pv.	
				5566	71.2 Ed gutt.	
				5549	73.2 "	
				5610	73.2 Top cb.	
14+94.7				5748	24.4 gutt.	
				5794	24.4 Top cb. M.C.R. end island	
14+96.7				5745	24.4 Ed gutt.	
15+00				583		℄
				580		7.0 brk.
				588		20.0 Top brk.
				5859		26.8 Top cb.
				5810		26.8 gutt.
				5804		28.8 Ed gutt.
				5752		50 ctr. pv.
				5696		71 Ed gutt.
				5684		73 "
				5743		73 Top cb.
				5819	10.8 Top cb.	
				5767	10.8 gutt.	
				5764	12.9 Ed "	
				5701	50.0 ctr. pv.	

F.B. 2583 Pg. 146 Job No. 6268.20 Division No. 11 Notes Red Plotted Profile
Survey of Hawthorne Bnd. S.D. #682 Date Date No. X-Sec.
Survey by Sappell Notes D.S. Notes Chkd. Checked No.
Indexed E. J. Gaffe Date Date Date

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STATION	B.S.	H.I.	F.S.	ELEV.	LT & N.	℄ Hawthorne RT & W.
15+00				56 49	71² Ed gutt	
				56 40	73² "	
				57 00	73² Top cb.	
BM SD 3206				57 96	BM SD 3206 El. 57.956	FB 2583-14
					Hawthorne Blvd. &	163 RD ST., N.E. Cor.
					45' N. of N. end	C.R. - Bt Spk in cb.
15+79.8				54 58		℄ inv. 36" Corr. I.P.
				58 83		6° Top Head wall
				58 0		6° gnd.
				59 2		18.5 Top brk.
				58 82	6° Top Head wall & gnd.	
				58 7	9° Top brk.	
16+00				54 8		℄ bott ditch
				54 8		7.5 Toe slope
				59 4		17.8 Top "
				59 53		26.8 Top cb.
				59 00		26.8 gutt.
				58 99		28.8 Ed gutt
				58 48		50° ctr. pv.
				57 86		71.3 Ed gutt
				57 75		73.3 gutt.
				58 35		73.3 Top cb.

Profile No. ____ Notes Red ____ Date ____ Plotted ____ Date ____ Job No. 626820 Division No. 11 F.B. 2583 Pg. 147
X-Sec. No. ____ Notes Chkd. ____ Date ____ Checked ____ Date ____ Survey of Hawthorne Blvd. S.D. #682
Survey by Sappell Notes DJ & Fouke Date 11-12-63
Map No. ____ Indexed C. J. GALLI Date ____

76-L298 CE 307 3-61

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STATION	B.S.	H.I.	F.S.	ELEV.	LT & E	℄ Hawthorne RT & W.
16+00				55 5	3^{5} Toe slope	
				59 0	9^{5} Top "	
				59 13	14^{6} Top cb.	
				58 64	14^{6} gutt.	
				58 63	16^{6} Ed gutt.	
				57 93	50^{0} ctr. pv.	
				57 34	71^{2} Ed gutt.	
				57 22	73^{2} gutt.	
				57 39	73^{2} depressed cb.	
16+25^{7}				54 8		℄
				54 8	6^{0} Toe slope	
				59 5	13^{0} Top "	
16+45^{0}				54 8		℄
				54 8		7^{0} Toe slope
				60 1		19^{0} Top "
				59 96		26^{6} Top cb.
				59 46		26^{6} gutt.
				59 42		28^{6} Ed "
				58 90		50 ctr. pv.
				58 32		71^{2} Ed gutt.
				58 18		73^{2} "

F.B. 2583 Pg. 148 Job No. 6268.20 Division No. 11 Notes Red Plotted Profile
Survey of Hawthorne Blvd. S.D. #682 Date Date No.
Survey by Sappell Notes D.J. D. Faulger Notes Chkd. Checked X-Sec.
Indexed P. J. CALLI Date Date Date No.

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STATION	B.S.	H.I.	F.S.	ELEV.	LT ℄ E	℄ Hawthorne	Rt ℄ W.
16+45°				5877		73'	Top cb.
				552	7° Toe slope		
				598	16⁵ Top "		
				5944	23⁴ Top cb.		
				5891	23⁴ gutt.		
				5888	25⁵ Ed "		
				5830	50 ctr. pv.		
				5776	71³ Ed gutt.		
				5767	73³ "		
				5827	73³ Top cb.		
16+68⁴				551	7⁵ Toe slope		
				602	18° Top "		
				5958	26⁷ Top cb.		
				5912	26⁷ gutt		
				5910	28⁷ Ed "		
16+71⁷				5450		7⁵ inv. 18" corr. l.p.	
16+84.99				552	PG 49.℄ 86	Hawthorne Blvd ℄ int ℄ 163 RD ST. from E.	
" "	= 1400 going E. along the ℄ of					163 RD ST.	
					LT ℄ N	℄ 163 RD.	RT ℄ S.
1+ 07°				552		℄ Toe slope	
1+ 18⁸				604		℄ Top "	

Profile No. ____ Notes Red ____ Plotted ____ Job No. 62682.0 Division No. 11
X-Sec. No. ____ Date ____ Notes Chkd. ____ Date ____ Checked ____ Date ____ Survey of Hawthorne Blvd. Survey by Sapec 11 Map No. ____ Notes Put & Foulke Indexed ____ Date 11-13-63 C. J. GALL Date ____
F.B. 2583 Pg. 149

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STATION	B.S.	H.I.	F.S.	ELEV.	LT ℄ N.	℄ 163 RD. RT ℄ S.
1+26.7				59 77		℄ Top cb.
"				59 26		℄ gutt.
1+28.7				59 23		℄ Ed "
1+50				58 65		℄ w/4 Hawthorne
1+73.3				58 09		℄ cb. line "
1+88.3				58 26		℄
				58 22		7.5
				58 12		13.3 edge gut.
				57 99	gutt.	15.1 E. end CR. S.E. cor.
				58 59	Top cb.	15.1 " " " "
				58 13	7.5 w/4	
				57 95	13.3 Ed gutt	
				57 83	15.1 gutt. - E end C.R. N.E. cor.	
				58 50	15.1 Top cb. - " " " " "	
1+98.3				58 22		℄
				58 26		7.5 w/4
				58 11		13.3 Ed gutt.
				57 95		15.1 "
				58 60		15.1 Top cb.
				58 06	7.5 w/4	
				57 89	13.3 Ed gutt.	

F.B. 2583 Pg. 150

Job No. 6268.20 Division No. 11 Notes Red ____ Plotted ____ Profile ____

Survey of Hawthorne Blvd - S.D. # 682 Date ____ Date ____ No. ____

Survey by Sappell Notes D.S. & D. Foulger Notes Chkd. ____ Checked ____ X-Sec. ____

Indexed [illegible] Date ____ Date ____ Date ____ No. ____

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STATION	B.S.	H.I.	F.S.	ELEV.	LT & N.	℄ 163 RD	RT & S.
1+98.3				57 77	15' gutt.		
				58 40	15' Top cb.		
		Flow		to	East.		
16+85.41				55 2		℄ int. ℄ 163 RD. ST. TO W.	Hawthorne Blvd.
" "	= 1+00 going W. along the ℄ of 163 RD. ST.						
					LT. & S.	℄ 163 RD.	RT. & N.
1+07.0	W			55 2		℄	Toe slope
1+17.6	"			60 6		℄	Top "
1+26.6	"			60 38		℄	Top cb.
"				59 88		℄	gutt.
1+28.6	"			59 84		℄	Ed gutt.
1+50	"			59 27		℄	ctr. pv.-Hawthorne
1+71.2	"			58 74		℄	Ed "X" gutt.
1+73.2	"			58 60		℄	F/L " "
1+75.2	"			58 75		℄	Ed " "
1+75.5	"				6.0 J.C. M.H.		
				58 77	N. Rim		
				58 77	S. "		
				58 78	W. "		
N. rim EL 58.77 − 9.08 =				49 69	inv. 10" outlet N.		Meas. 8.25 Diam 0.83 Rod 9.08

Profile No. ____ Notes Red ____ Plotted ____ Job No. 6268.20 Division No. 11 F.B. 2583 Pg. 151
X-Sec. No. ____ Date ____ Date ____ Survey of Hawthorne Blvd. S.D. # 682
Notes Chkd. ____ Checked ____ Survey by Sappell Notes D.S. & Foulger Date 11-13-63
Date ____ Date ____ Map No. ____ Indexed C. J. GALLI Date ____

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STATION	B.S.	H.I.	F.S.	ELEV.	LT & S.	℄ 163 RD. RT & W.
S. Rm EL.	58.77 –	9.01 =	49 76	inv. 10" inlet S.		meas. 8.18 Diam 0.83 Rod 9.01.
W. Rm EL	58.78 –	8.94 =	49 84	inv. 8" inlet W.		8.27 0.67 8.94.
1+91° w	grate EL.	58.24 –	2.60	55 64		14° inv. 18" corr. I.P.
1+94¹				58 89		℄
				58 67		7⁵ w/4
				58 36		12⁸ Ed basin
				58 17		15¹ Top iron grate
				55 87		15¹ bott catch basin
				58 85		15¹ Top cb.
				58 99	7⁵ w/4	
				58 95	13³ Ed gutt.	
				58 90	15¹ "	
				58 98	15¹ depressed cb	
T.P.				58 99	T.P.	
2+34¹ w				58 98		℄
				58 74		7⁵ w/4
				58 46		13³ Ed gutt.
				58 29		15¹ "
				58 95		15¹ Top cb.

F.B. 2583 Pg. 152 Job No. 6268.20 Division No. 11 Notes Red Plotted Profile
Survey of Hawthorne Bnd. S.D. #682 Date Date No. X-Sec.
Survey by Sappell Notes D.S. & D. Foulger Notes Chkd. Checked Date No.
Indexed R.J. Gall Date Date

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STATION	B.S.	H.I.	F.S.	ELEV.	LT ℄ S.	℄ 163 RD	RT ℄ N.
2+34.1	W.			59 18	7.5 w/4		
				59 08	13.3 Ed gutt.		
				58 94	15.1 "		
				59 60	15.1 Top cb.		
3+34.1	"			59 21		℄	
				58 94		7.5	
				58 60		13.3 same	
				58 46		15.1	
				58 57		15.1 depressed cb	
				59 35	7.5		
				59 24	13.3 same		
				59 11	15.1		
				59 75	15.1		
4+60.3	"			— —	5.5 S.M.H.		
				59 60	E Rim		
				59 60	W. "		
	EL. 59	60 — 6	92 =	52 68	inv. 8" outlet E.	Meas. 6.25 Diam 0.67 Rod. 6.92	
	EL. 59	60 — 6	75 =	52 85	inv. 8" inlet W.		6.08 0.67 6.75
		End	Sec.	To	West.		
T.P.				60 33	T.P.		

Profile Notes Red ____ Plotted ____ Job No. 6268.20 Division No. 11 F.B. 2583 Pg. 153
No. ____ Date ____ Date ____ Survey of Hawthorne Bhd. S.D. # 682
X-Sec. Notes Chkd. ____ Checked ____ Survey by Sappell Notes D.S. & Foulger Date 11-13-63
No. ____ Date ____ Date ____ Map No. ____ Indexed C. J. GALLI Date ____

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STATION	B.S.	H.I.	F.S.	ELEV.	LT & E.	℄ Hawthorne RT & W.
17+06.5				55.6		℄
				55.5		6.3 Toe slope
				60.9		18.5 Top "
				60.58		26.6 Top cb.
				60.06		26.6 gutt.
				60.02		28.6 Ed. "
17+25.6				55.4		℄
				55.5		5.0 Toe slope
				61.1		16.6 Top "
				60.84		23.3 Top cb.
				60.30		23.3 gutt.
				60.26		25.3 Ed "
				59.62		50 ctr. pv.
				59.11		71.2 Ed. gutt.
				58.98		73.2 "
				59.58		73.2 Top cb.
				55.6	7.0 Toe slope	
				60.8	19.0 Top "	
				60.17	26.6 Top cb.	
				59.68	26.6 gutt.	
				59.66	28.6 Ed "	

F.B. 2583 Pg. 154 Job No. 6268.20 Division No. 11 Notes Red Plotted Profile
Survey of Hawthorne Blvd. S.D. # 682 Date Date No. X-Sec.
Survey by Sappell Notes D.S. & D. Foulger Notes Chkd Checked
Indexed C. J. GAIN Date Date Date No.

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STATION	B.S.	H.I.	F.S.	ELEV.	LT & E.	℄ Hawthorne RT & W.
17+25.0				59 05	50 ctr. pv.	
				58 52	71.3 Ed. gutt.	
				58 45	73.3 "	
				59 04	73.3 Top cb.	
17+39.7				55 6		℄
				55 6		2.0 Toe slope
				61 2		12.8 Top "
				61 01		18.8 Top cb.
17 +50.6				55 7		℄ Toe slope
				61 3		10.0 Top "
17+65.0						
				55 7		℄ Toe slope
				61 4		10.0 Top "
				61 24		14.8 Top cb.
				60 77		14.8 gutt.
				60 78		16.8 Ed. gutt
				60 00		50 ctr. pv
				59 48		71.1 Ed gutt.
				59 34		73.1 "
				59 96		73.1 Top cb

Profile Notes Red ____ Plotted ____ Job No. 6268.20 Division No. 11 F.B. 2583 Pg. 155
No. ____ Date ____ Date ____ Survey of Hawthorne Blvd - S.D. #682
X-Sec. Notes Chkd. ____ Checked ____ Survey by Sappell Notes D.U. & Foulds Date 11-13-63
No. ____ Date ____ Date ____ Map No. ____ Indexed C. J. Gall Date ____

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STATION	B. S.	H. I.	F. S.	ELEV.	LT ℄ E.	℄ Hawthorne RT ℄ W.
17+65°				557	10° Toe slope	
				609	19° Top "	
				6052	26 6 Top cb.	
				6002	26 6 gutt.	
				6000	28 6 Ed gutt.	
				5939	50 ctr pr.	
				5891	71 3 Ed gutt.	
				5880	73 3 "	
				5939	73 3 Top cb.	
18+17°				555		℄
				556		2° Toe slope
			61.7	516		10° Top "
				558	6° Toe slope	
				613	18° Top "	
18+30				5579		℄ inv. 36" corr. I. P.
18+30.7				6004		℄ Top head wall ℄ grd
				6004		3 2 " " " " "
				616		9° Top slope
				6004	5 9 Top end head wall ℄ grd	
				601	11° brk in slope	
				609	16° Top slope	

F.B. 2583 Pg. 156 | Job No. 6268.20 | Division No. 11 | Notes Red ____ | Plotted ____ | Profile No. ____
Survey of Hawthorne Blvd - J.D. #682 | Date ____ | Date ____ | X-Sec. No. ____
Survey by Sargell Notes D.S. & Ranger | Notes Chkd. ____ | Checked ____
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STATION	B.S.	H.I.	F.S.	ELEV.	LT & E	℄ Hawthorne RT & W
18+39 3/4				603		℄
				617		9.0 brk
				6171		14.6 Top cb.
				6117		14.6 gutt.
				6116		16.6 Ed. "
18+65				612		℄
				620		5.5 Top slope
				6183		11.5 Top cb.
				6131		11.5 gutt
				6130		13.5 Ed "
				6103		50 ctr. pv.
				6043		71.1 Ed gutt.
				6031		73.1 "
				6090		73.1 Top cb.
				608	8.5 bott. slope	
				616	19.0 Top "	
				6138	26.6 Top cb	
				6086	26.6 gutt.	
				6083	28.6 Ed "	
				6037	50 ctr. pv.	
				5964	71.3 Ed gutt.	

Profile No. ____ Date ____ Notes Red ____ Plotted ____ Job No. 6268.20 Division No. 11 F.B. 2583 Pg. 157
X-Sec. No. ____ Date ____ Notes Chkd. ____ Date ____ Checked ____ Date ____ Survey of Hawthorne Rnd. - S.D. #682
Survey by Sappe II Notes Date 11-13-62
Map No. ____ Indexed ____ Date ____
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STATION	B.S.	H.I.	F.S.	ELEV.	LT ℄ E	℄ Hawthorne RT ℄ W.
18+65				5956	73^{3} gutt	
				6030	73^{3} Top cb.	
$18+74^{2}$				6147		24^{6} Ed gutt.
$18+76^{2}$				6146		24^{6} gutt. MCR begin island
"				6200		24^{6} Top cb. " "
$19+40^{1}$				6165		50 w/4
Ed. grate - EL.	61.19	-	3.40 =	5779		71^{1} inv. 18" corr. I.P.
				6106		73^{1} Top iron grate
				6165		73^{1} Top cb.
$19+55^{0}$				6176		50^{0} ctr. pr.
				6129		71^{1} Ed gutt.
				6114		73^{1} "
				6120		73^{1} depressed cb.
				6117	50 ctr. pr.	
				6066	71^{3} Ed gutt.	
				6049	73^{3} "	
				6109	73^{3} Top cb.	
$19+57^{7}$				6212		℄
				6191	4^{0} Ed gutt.	
				6186	6^{0} "	
				6240	6^{0} Top cb. N'ly end C.R. (S.W. cor. Island)	
$19+59^{1}$				6230		4 Ed gutt.
				6228		6^{3} "

F.B. 2583 Pg. 158 Job No. 6268.20 Division No. 11 Notes Red Plotted Profile
Survey of Hawthorne Blvd. S.D. # 682 Date Date No.
Survey by Sappell Notes DS. E.D. Foulger Notes Chkd. Checked X-Sec.
Indexed E.J. Date Date Date No.

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STATION	B.S.	H.I.	F.S.	ELEV.	LT & E.	℄ Hawthorne RT & W.
19+59.1				6281	(S.E. cor. Island)	6.3 Top cb.-N end C.R.
19+59.2				6267	12.8 Top TMH	Lid
					Note: Lid welded shut.	
19+60.0				6235	26.6 Top cb. - N	end C.R. (S.E. cor. Island)
				6181	26.6 gutt.	
				6183	28.6 Ed "	
19+63.5				6296	(S.W. cor. Island)	26.6 Top cb.- N. end C.R.
				6243		26.6 gutt - "
				6239		28.6 Ed "
19+65				6230		℄
				6245		10.9 gutt.
				6295	(S.E. cor. Island)	10.9 Top cb. - W. end C.R.
				6246		24.9 gutt.
				6298	(S.W. cor. Island)	24.9 Top cb - E end C.R.
				6211	15.7 gutt.	
				6262	15.7 Top cb. - E.	end C.R. (S.W. cor. Island)
				6196	21.8 gutt	
				6247	21.8 Top cb.	W. end C.R. (S.E. cor. Island)
19+67				6251		10.9 Ed gutt
				6248		24.9 " "

Profile No. ____ Notes Red ____ Plotted ____ Job No. 6268.20 Division No. 11 F.B. 2583 PG. 159
X-Sec. No. ____ Date ____ Date ____ Survey of Hawthorne Blvd. S.D. # 682
Notes Chkd. ____ Checked ____ Survey by Sappell Notes D.S. & Foulger Date 11-13-63
Date ____ Date ____ Map No. ____ Indexed J. CALLI Date ____

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STATION	B.S.	H.I.	F.S.	ELEV.	LT & E.	℄ Hawthorne RT & W.
19+67				62 14	15.7 Ed gutt	
				61 98	21.8 " "	
BM SD 3205				61 53	BM SD 3205 El. 61.538 F.B. 2583-13	
			corr	61 54	Hawthorne Blvd & W. 164 TH ST., N.W. cor, 34' N. of N. end C.R. - Bt spk in curb.	
19+95.02				62 57	PG 46 & 88	℄ int ℄ 164 TH TO E. Hawthorne Blvd.
" " =	1+00 going E. along the ℄ of 164 TH.					
					LT & N.	℄ 164 TH. RT & S.
1+50	E.			61 53		℄ w/4 Hawthorne
1+73.3	"			61 12		℄ cb. line "
1+88.1	"			61 28		℄
				61 17		7.6 w/4
				60 84		13.5 Ed gutt.
				60 81	gutt.	15.3 E. end C.R. S.E. cor.
				61 48	Top cb.	15.3 " " " "
				61 21	7.5 w/4	
				60 90	13.3 Ed gutt.	
				60 84	15.1 gutt. - E end C.R. N.E. Cor	
				61 50	15.1 Top cb. - "	" " " "

F.B. 2583 Pg. 160 Job No. 6268.20 Division No. 11 Notes Red Plotted Profile
Survey of Hawthorne Blvd. S.D. # 682 Date Date No. X-Sec.
Survey by Sappell Notes D.S. & D. Foulger Notes Chkd. Checked No.
Indexed R. J. GAIN Date Date Date

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Do not extend notes this side of this line.

STATION	B.S.	H.I.	F.S.	ELEV.	LT & N.	℄ 164 TH TO E RT & S.
1+98.1	E.			61 31		℄
				61 21		7.6 W/4
				60 90		13.5 Ed gutt.
				60 80		15.3 "
				61 45		15.3 Top cL
				61 23	7.5	
				60 83	13.3 same	
				60 77	15.1	
				61 40	15.1	
		Flow to		East.		
19+95.30	"			62 57	PG 46 & 87	℄ int Hawthorne Blvd. & 164 TH. ST. TO W.
" "	= 1+00 going			W. along the ℄ of		164 TH ST.
					LT & S.	℄ 164 TH ST. TO W. RT & N.
1+50	W.			62 19		℄ ctr. pv. Hawthorne
1+71.1	"			61 63		℄ Ed "X" gutt.
1+73.1	"			61 55		℄ F/L " "
1+75.1	"			61 61		℄ Ed " "
1+75.3	"				5.2 J.C. M.H.	
				61 70	W. Rim	
				61 70	N. Rim	
				61 71	S. "	

Profile No. X-Sec. No. Date Notes Chkd. Date Notes Red Plotted Date Checked Date Job No. 1268.20 Division No. 11 Survey of Hawthorne Blvd. S.D. # 682 Survey by Sappell Notes D.S. & Foulger Date 11-13-63 Map No. Indexed E. J. GALL Date

F.B. 2583 Pg. 161

76-L298 CE 307 3-61

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STATION	B. S.	H. I.	F. S.	ELEV.	LT & S.	℄ 164TH TO W. RT & N.
				61 70	W. Rim	Meas. 9.40
	61.70	− 10.23 =		51 47	Inv. 10" outlet N.	Diam 0.83
						Rod 10.23.
	61.71	− 10.15 =		51 56	Inv. 10" inlet S.	9.32
						0.83
						10.15.
	61.70	− 10.04 =		51.66	Inv. 8" inlet W.	9.37
						0.67
						10.04.
T.P.				61 60	T.P.	
1498	west			61 94		℄
				61 79		7^6 w/4
				61 53		13^4 Ed gutt.
				61 44		15^2 "
				62 07		15^2 Top cb.
				61 90	7^6	
				61 85	13^4 same	
				61 69	15^2	
				62 31	15^2	
2+38°	"			62 09		℄
				61 97		7^6
				61 68		13^4 same
				61 50		15^2
				62 12		15^2

F.B. 2583 Pg. 162 Job No. 6268.20 Division No. 11 Notes Red Plotted Profile
Survey of Hawthorne Blvd. S.D. # 682 Date Date No. X-Sec.
Survey by Sappell Notes D.S. & Foulger Notes Chkd. Checked No.
Indexed R. J. GAIN Date Date Date

76-L298 CE 307 3-61

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STATION	B.S.	H.I.	F.S.	ELEV.	LT & S.	℄ 164 TH. TO W. RT & N.
2+38°	W			6204	7⁶ W/4	
				6200	13⁴ Ed gutt.	
				6186	15² "	
				6245	15² Top cb.	
3+38°	"			6255		℄
				6247		7⁶ W/4
				6226		13⁴ edge gut.
				6213		15² gut.
				6276		15² top curb
				6248	7⁴ W/4	
				6226	13⁴	
				6210	15² Same	
				6275	15² top curb	
5+10°	"			— —	5² S.M.H	
				6427	E Rim	
				6427	W. "	
	rim El.	64.27 -	6.57 =	5770	inv. 8" outlet E.	meas 5.90 Diam 0.67 Rod 6.57
	rim El.	64.27 -	6.47 =	5780	inv. 8" inlet W.	5.80 0.67 6.47
	End sec To West					

Profile No. ____ Notes Red ____ Plotted ____ Job No. 6268.20 Division No. 11 F.B. 2583 Pg. 163
X-Sec. No. ____ Date ____ Date ____ Survey of Hawthorne Blvd. S.D. # 682
Notes Chkd. ____ Checked ____ Survey by Sappell Notes PS & Foulger Date 11-13-63
Date ____ Date ____ Map No. ____ Indexed E. J. GALL Date ____

76-L298 CE 307 3-61

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STATION	B.S.	H.I.	F.S.	ELEV.	LT ℄ E	℄ Hawthorne RT ℄ W.
T.P.				62 58	T.P.	
20+23 3				62 91		15 5 Ed gutt.
				62 90		22 8 " "
20+23 8				62 65	10 6 Ed gutt.	
				62 44	24 7 " "	
20+25 3				62 83		℄
				62 88		15 5 gutt
				63 39	(N.E. cor. Island)	15 5 Top cb. W. end C.R.
				62 95		22 8 gutt.
				63 46	(N.W. cor Island)	22 8 Top cb. E end C.R.
20+25 8				62 62	10 6 gutt.	
				63 15	10 6 Top cb. E end C.R. (N.W. cor. Island)	
				62 49	24 7 gutt	
				63 02	24 7 Top cb. W. end C.R. (N.E. cor Island)	
20+27 5				62 97	26 8 " " S. " " (" " ")	
				62 46	26 8 gutt.	
				62 42	28 8 Ed gutt.	
20+25 3	Plus ok.			61 92		71 3 Ed gutt
				61 79	gutt.	73 3 S end C.R. S.W. Cor.
				62 39	Top cb.	73 3 " " " " "
20+30 3				63 56	(N.W. cor. Island)	26 7 Top cb. S. end C.R.
				63 01		26 7 gutt.

F.B. 2583 Pg. 164 Job No. 6268.20 Division No. 11 Notes Red Plotted Profile
Survey of Hawthorne Blvd. - S.P. # 682 Date Date No.
Survey by S. Jacobs Notes D.S. & Foulger Notes Chkd. Checked X-Sec.
Indexed [illegible] Date Date Date No.

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STATION	B.S.	H.I.	F.S.	ELEV.	LT & E	℄ Hawthorne RT & W.
20+30^{3}				63 00		28^{7} Ed gutt.
20+33^{4}				62 81		4^{0} " "
				62 84		6^{0} gutt.
				63 37	(N.E. COR Island)	6^{0} Top cb. S'ly end C.R.
20+35^{2}				62 60		49^{9} ctr. pv.
				62 04		71^{1} Ed gutt.
				61 91		73^{1} "
				62 50		73^{1} Top cb.
				61 86	50 ctr. pv.	
				61 35	71^{3} Ed gutt.	
				61 21	73^{3} "	
				61 85	73^{3} Top cb.	
21+00				63 9		℄
				63 9		10^{0} brk.
				64 2		19^{0} Top brk.
				64 31		26^{7} Top cb.
				63 80		26^{7} gutt.
				63 77		28^{7} Ed gutt.
				63 30		49^{9} ctr. pv.
				62 74		71^{1} Ed gutt.
				62 63		73^{1} "

Profile No. ____ Notes Red ____ Date ____ Plotted ____ Date ____ Job No. 6268.20 Division No. 11 F.B. 2583 Pg. 165
X-Sec. No. ____ Notes Chkd. ____ Date ____ Checked ____ Date ____ Survey of Hawthorne Blvd - S.D. # 682
Survey by Sappell Notes Dr. & Foulger Date 11-14-63
Map No. ____ Indexed T. J. GALLI Date ____

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STATION	B. S.	H. I.	F. S.	ELEV.	LT & E.	& Hawthorne RT & W.
21+00				6324		73.1 Top cb.
				6374	7.2 Top cb.	
				6327	7.2 gutt.	
				6325	9.2 Ed. "	
				6305	18.0 " "	
				6303	20.0 "	
				6351	20.0 Top cb.	
				6346	26.8 " "	
				6301	26.8 gutt.	
				6298	28.8 Ed "	
				6255	50 ctr. pv.	
				6190	71.3 Ed gutt.	
				6181	73.3 "	
				6240	73.3 Top cb.	
21+14.8				6313	24.8 gutt.	
				6362	24.8 Top cb. M.C.	R. end island.
21+16.8				6313	24.8 Ed gutt.	
21+79.9				6391		5.8 Top end H.W. & gnd.
				651		12.5 Top brk.
				6388	6.2 Top end head	wall & gnd.
				645	9.0 Top brk.	

F.B. 2583 Pg. 166 Job No. 6268.20 Division No. 11 Notes Red Plotted Profile
Survey of Hawthorne Blvd - S.D. #682 Date Date No.
Survey by Sappell Notes D.S. & D. Foulger Notes Chkd. Checked X-Sec.
Indexed J. J. CALL Date Date Date No.

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STATION	B.S.	H.I.	F.S.	ELEV.	LT & E.	℄ Hawthorne RT & W.
21+80^{6}				59 75		℄ inv. 36" corr. I.P.
22+00				60 2		℄
				60 2		3^{7} Toe slope
				65 6		16^{0} Top "
				65 39		26^{7} Top cb.
				64 91		26^{7} gutt.
				64 90		28^{7} Ed gutt.
				64 51		49^{9} ctr. pv.
				63 90		71^{1} Ed. gutt.
				63 77		73^{1} "
				64 38		73^{1} Top cb.
				60 2	2^{0} Toe slope	
				64 8	10^{0} Top "	
				64 71	14^{7} Top cb.	
				64 23	14^{7} gutt.	
				64 18	16^{7} Ed "	
				63 47	50 ctr. pv.	
				62 85	71^{3} Ed gutt.	
				62 72	73^{3} "	
				63 31	73^{3} Top cb.	
22+21^{3}				60 2		℄

Profile No. ____ Notes Red ____ Plotted ____ Job No. 6268.20 Division No. 11 F.B. 2583 Pg. 167
X-Sec. No. ____ Date ____ Date ____ Survey of Hawthorne Blvd - S.D. #682
Notes Chkd. ____ Checked ____ Survey by Sappell Notes DS & Foulger Date 11-14-63
Date ____ Date ____ Map No. ____ Indexed G. J. GALLI Date ____

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STATION	B. S.	H. I.	F. S.	ELEV.	LT ℄ E.	℄ Hawthorne RT ℄ W.
22+21.3				606	3.5 Toe slope	
				650	9.7 Top "	
				6495	14.7 Top cb.	
				6448	14.7 gutt.	
				6444	16.7 Ed. "	
22+47.9				605	6.0 Toe slope	
				651	12.9 Top "	
22+64.8				606		℄
				605		7.0 Toe slope
				664		18.0 Top "
				6623		26.7 Top cb.
				6575		26.7 gutt.
				6573		28.7 Ed. "
				6525		49.9 ctr. pv.
				6473		71.1 Ed. gutt.
				6454		73.1 "
				6516		73.1 Top cb.
				606	7.0 Toe slope	
				653	15.5 Top "	
				6509	22.8 Top cb.	
				6465	22.8 gutt.	

F. B. 2583 Pg. 168 Job No. 6268.20 Division No. 11 Notes Red Plotted Profile
Survey of Hawthorne Blvd - S.D. #682 Date Date No. X-Sec.
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STATION	B.S.	H.I.	F.S.	ELEV.	LT & E.	℄ Hawthorne RT & W.
22+64.8				64 62	24.8 Ed gutt.	
				64 05	50 ctr. pr	
				63 47	71.3 Ed. gutt.	
				63 33	73.3 "	
				63 93	73.3 Top cb.	
22+91.4				60 7	8.0 Toe slope	
				65 5	19.3 Top "	
23+05.01				60 5	PG 43 & 91	Hawthorne Blvd ℄ int. & 165 TH. ST. To E.
" "	= 14 00 going E along the ℄ of 165 TH. ST.					
					LT & N.	℄ 165 TH ST RT & S.
1+06.0	E			60 6		℄ Toe slope
1+20.0	"			65 6		℄ Top "
1+26.7	"			65 35		℄ " cb.
1+26.7	"			64 91		℄ gutt.
1+28.7	"			64 87		℄ Ed "
1+49.9	"			64 37		℄ ctr. pr.-Hawthorne
1+73.3	"			63 82		℄ cb. line "
BMSD 3204				63 57	BMSD 3204 El. 63.572 F.B. 2583-13 Hawthorne Blvd & 165 TH ST., N.E. Cor., 50 FT. N. of N. end C.R. - Bt. spk in cb.	

Profile Notes Red ____ Plotted ____ Job No. 6268.20 Division No. 11 F.B. 2583 Pg. 169
No. ____ Date ____ Date ____ Survey of Hawthorne Blvd. SD # 682
X-Sec. Notes Chkd. ____ Checked ____ Survey by Sappell Notes Foulger Date 11-14-63
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

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STATION	B.S.	H.I.	F.S.	ELEV.	LT & N.	℄ 165 TH ST.	RT & S
1+88^{2}	E.			6391		℄	
				6383		7^{6}	W/4
				6369		13^{4}	Ed gutt.
				6347	gutt.	15^{2}	E end C.R. SE. cor.
				6412	Top cb	15^{2}	" " " " "
				6379	7^{6} W/4		
				6348	13^{4} Ed gutt.		
				6337	15^{2} gutt.	- E. end C.R. N.E. cor.	
				6403	15^{2} Top cb.	" " " " "	
1+98^{2}	"			6387		℄	
				6374		7^{6}	W/4
				6353		13^{4}	Ed gutt.
				6332		15^{2}	"
				6397		15^{2}	Top cb.
				6362	7^{6}		
				6334	13^{4} same		
				6320	15^{2} as RT.		
				6385	15^{2}		
		Flow	to	East.			

F.B. 2583 Pg. 170 Job No. 6268.20 Division No. 11 Notes Red Plotted Profile
Survey of Hawthorne Blvd. S.D. # 682 Date Date No. X-Sec.
Survey by Sappell Notes D.S. & Foulger Notes Chkd. Checked
Indexed E. J. GALLI Date Date Date No.

76-L298 CE 307 3-61

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STATION	B.S.	H.I.	F.S.	ELEV.		
23+05.27				60 5	PG 43 & 90	℄ Hawthorne Blvd. int. & 165 TH ST TO W.
" " =	1+00	going W.	along	the ℄ of	165 TH ST TO W.	
					LT & S.	℄ 165 TH RT & N.
1+06.0	W			60 8		℄ Toe slope
1+18.0	"			67 0		℄ Top "
1+26.7	"			66 72		℄ Top cb.
"				66 24		℄ gutt
1+28.7	"			66 20		℄ Ed gutt.
1+49.9	"			65 76		℄ ctr pv. Hawthorne
1+71.1	"			65 19		℄ Ed. 'X' gutt.
1+73.1	"			65 03		℄ F/L " "
1+75.1	"			65 17		℄ Ed " "
1+76.5	"			— —		4.7 J.C. m.H.
				65 09	N Rim	
				65 11	S "	
				65 12	W "	
	N.R. EL	65.09 –	9.70 =	55 39	inv. 10" outlet N.	Meas. 8.87 Diam 0.83 Rod. 9.70.
	S.R. EL.	65.11 –	9.52 =	55 59	inv. 8" inlet S.	8.85 0.67 9.52.
	W.R. EL.	65.12 –	9.44 =	55 68	inv. 8" inlet W.	8.77 0.67 9.44.

Profile No. ____ Notes Red ____ Plotted ____ Job No. 6268.20 Division No. 11 F.B. 2583 PG. 171
X-Sec. No. ____ Date ____ Date ____ Survey of Hawthorne Blvd. - S.D. # 682
Notes Chkd. ____ Checked ____ Survey by Sappell Notes B.S. & Foulger Date 11-63
Date ____ Date ____ Map No. ____ Indexed R. J. GALLI Date ____

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STATION	B.S.	H.I.	F.S.	ELEV.	LT ℄ S.	℄ 165TH TOW. RT ℄ N.
T.P.				6576	T.P.	
1+89.3	gr. EL. 64.81 -		2.80 =	6201	14.0 inv. 18" corr. I.P.	
1+92.5	w.			6507		℄
				6503	7.6 w/4	
				6488	12.7 Ed. catch basin	
				6472	15.2 Top iron grate	
	gr. EL. 64.72 -		2.25 =	6247	15.2 bott catch basin	
				6549	15.2 Top cb.	
1+98.8	"			6513		℄
				6502		7.6 w/4
				6498		13.4 Ed gutt.
				6478		15.2 "
				6538		15.2 Top cb.
2+11.2	"			6505	13.4 ∡ PT. Ed gutt.	
2+38.8	"			6527		℄
				6511		7.6
				6498		13.4 same
				6479		15.2
				6544		15.2
				6529	7.6 same	
				6519	13.4	
				6503	15.2	
				6511	15.2 depressed cb.	

F.B. 2583 Pg. 172 Job No. 6268.20 Division No. 11 Notes Red Plotted Profile
Survey of Hawthorne Blvd. S.D. #682 Date Date No. X-Sec.
Survey by Sappell Notes D.S. & D. Foulger Notes Chkd. Checked
Indexed R. J. GAIN Date Date Date No.

76-L298 CE 307 3-61

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STATION	B.S.	H.I.	F.S.	ELEV.	LT ℄ S.	℄ 165 TH TOW. RT ℄ N.
3+38.8				65 75		℄
				65 50		7.6 W/4
				65 17		13.4 Ed gutt.
				65 02		15.2 "
				65 67		15.2 Top cb.
				65 89	7.6	
				65 76	13.4 same	
				65 55	15.2	
				66 20	15.2	
4+61.0				— —		5.0 S.M.H.
				66 89	E. Rim	
				66 89	W. "	
	E.R. EL.	66.89 –	7.99 =	58 90	inv. 8" outlet E.	meas. 7.32 Diam 0.67 Rod. 7.99.
	W.R. EL.	66.89 –	7.94 =	58 95	inv. 8" inlet W.	7.27 0.67 7.94.
T.P.	End sec. to E.			66 73	T.P.	
	cont. along ℄				Hawthorne Blvd.	
					LT ℄ E.	℄ Hawthorne RT ℄ W.
23+19.0				60 90		7.0 inv. 18" corr. I.P.
23 + 45.2				60 6		℄
				60 9		4.6 Toe slope

Profile No. ____ Notes Red ____ Plotted ____ Job No. 6268.20 Division No. 11 F.B. 2583 Pg. 173
X-Sec. No. ____ Date ____ Date ____ Survey of Hawthorne Blvd. S.D. #682
Notes Chkd. ____ Checked ____ Survey by Sappell Notes P.S. & Foulger Date 11-14-63
Date ____ Date ____ Map No. ____ Indexed G. J. GALLI Date ____

76-L298 CE 307 3-61

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STATION	B.S.	H.I.	F.S.	ELEV.	LT & E.	℄ Hawthorne RT & W.
23+45.2				671		14.0 Top slope
				6723		20.2 " cb.
				6677		20.2 gutt.
				6675		22.2 Ed "
				6619		49.9 ctr. pv.
				6558		71.1 Ed gutt.
				6547		73.1 "
				6608		73.1 Top cb.
				608	7.0 Toe slope	
				660	20.0 Top "	
				6579	26.7 Top cb.	
				6531	26.7 gutt.	
				6527	28.7 Ed. gutt.	
				6471	50 ctr. pv.	
				6419	71.3 Ed gutt.	
				6404	73.3 "	
				6465	73.3 Top cb.	
23+70				6039		℄ inv. 36" corr. I.P.
23+70.7				6461		6.0 Top end H.W. & gnd
				676		10.5 Top slope
				6463	6.0 Top end Head wall & gnd.	

F.B. 2583 Pg. 174 Job No. 6268.20 Division No. 11 Notes Red Plotted Profile
Survey of Hawthorne Blvd. #682 Date Date No. X-Sec.
Survey by Sappell Notes D.S. & D. Foulger Notes Chkd Checked
Indexed R. J. GALLI Date Date Date No.

76-L298 CE 307 3-61

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STATION	B.S.	H.I.	F.S.	ELEV.	LT & E.	℄ Hawthorne Rt & W.
23+70.7				658	16.6 Top slope	
24+00				662		℄
				680		10.7 Top slope
				6815		14.6 Top cb.
				6765		14.6 gutt.
				6762		16.6 Ed. gutt.
				6681		49.9 ctr. pv.
				6629		71.1 Ed. gutt
				6614		73.1 "
				6675		73.1 Top cb.
				655	8.6 F/L	
				664	19.7 Top slope	
				6631	26.7 Top cb.	
				6581	26.7 gutt.	
				6578	28.7 Ed. "	
				6523	50 ctr. pv.	
				6465	71.3 Ed. gutt.	
				6450	73.3 "	
				6515	73.3 Top cb.	
24+95.5				6840		24.3 Ed. gutt.
24+97.5				6841		24.3 gutt.

Profile No. ____ Notes Red ____ Date ____ Plotted ____ Date ____ Job No. 6268.20 Division No. 11 Survey of Hawthorne Blvd - S.D. #682 Survey by Sappell Notes DS & Foulger Date 11-14-63 Map No. ____ Indexed C. J. GALL Date ____

X-Sec. No. ____ Notes Chkd. ____ Date ____ Checked ____ Date ____

F.B. 2583 Pg. 175

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STATION	B.S.	H.I.	F.S.	ELEV.	LT ℄ E	℄ Hawthorne RT ℄ W.
24+97.5				68 87		24.3 Top cb. Begin Island M.C.R.
25+00				68 5		℄
				68 9		4.5 Top brk.
				68 99		9.0 " cb.
				68 44		9.0 gutt.
				68 47		11.0 Ed "
				67 97		49.9 ctr. pv.
				67 40		71.1 Ed gutt.
				67 28		73.1 "
				67 89		73.1 Top cb.
				67 6	12.0 F/L	
				67 6	18.5 brk.	
				67 26	26.7 Top cb.	
				66 76	26.7 gutt.	
				66 71	28.7 Ed "	
				66 18	50 ctr. pv.	
				65 61	71.3 Ed gutt.	
				65 49	73.3 "	
				65 56	73.3 depressed cb.	
BMSD 3203				66 47	BMSD 3203, El. 66.477 F.B. 2583-13 Hawthorne Blvd & W. 166 TH ST., N.E. cor. 36' N. of N.	
			corr.	66 48	end C.R. - Bt. spk in curb.	

F.B. 2583 Pg. 176 Job No. 6268.20 Division No. 11 Notes Red Plotted Profile
Survey of Hawthorne Blvd. S.D. #682 Date Date No. X-Sec.
Survey by Sappell Notes D.S. & D. Foulger Notes Chkd. Checked
Indexed E. J. GALLI Date Date Date No.

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8.91

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STATION	B.S.	H.I.	F.S.	ELEV.	LT ℄ E.	℄ Hawthorne RT ℄ W.
25+48.1				68 33	13.0 Tel. M.H. (welded shut)	ctr lid
25+64.9				68 19		℄
				68 24		7.4 Ed gutt.
				68 25		9.4 "
				68 73		9.4 Top cb.
				69 23		26.6 " "
				68 74		26.6 gutt.
				68 71		28.6 Ed gutt.
				68 34		49.9 ctr pv.
				67 83		71.1 Inside ed. catch basin
	EL.	67.83	-460	63 23		71.1 inv. 18" corr I.P.
				67 67		73.1 Top iron grate
				63 23		73.1 bott catch basin
				67 79		73.1 Top cb.
25+66				68 21		℄
				68 21	1.7 Ed gutt	
				68 22	3.7 "	
				68 71	3.7 Top cb.	
				67 88	26.8 Top cb.	
				67 37	26.8 gutt	
				67 31	28.8 Ed gutt.	
				66 73	50 ctr pv.	

Profile No. ____ Notes Red ____ Plotted ____ Job No. 6268.20 Division No. 11 F.B. 2583 Pg. 177
X-Sec. No. ____ Date ____ Date ____ Survey of Hawthorne Blvd. S.D. # 682
Notes Chkd. ____ Checked ____ Survey by Sappell Notes 25.E Foulger Date 11-14-63
Date ____ Date ____ Map No. ____ Indexed G. J. GALL Date ____

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F.B. 2583 Pg. 178 | Job No. 6268.20 | Division No. 11 | Notes Red | Plotted | Profile No.
Survey of Hawthorne Blvd. S.D. H 682 | Date | Date | X-Sec. No.
Survey by Sappell | Notes D.S. | Notes Chkd. | Checked
Indexed B. J. GALLI | Date | Date | Date

STATION	B.S.	H.I.	F.S.	ELEV.	LT ℄ E	℄ Hawthorne	RT ℄ W
25+66				66 20	71 4 Ed gutt.		
				66 06	73 4 "		
				66 14	73 4 depressed cb.		
25+77 9				68 17	4 0 Ed gutt.		
				68 17	6 0 gutt		
				68 66	6 0 Top cb. N.W. end C.R. (S.W. cor. Island)		
25+79 8				68 23			4 5 Ed gutt
				68 25			6 5 "
				68 77	(S.E. cor. Island)		6 5 Top cb. N.W. end C.R.
25+81 0				67 98	26 8 Top cb. N. end C.R. (S.E. cor Island)		
				67 49	26 8 gutt.		
				67 47	28 8 Ed "		
25+84 0				69 31	(S.W. cor. Island)		26 6 Top cb. - N. end C.R.
				68 81			26 6 gutt
				68 81			28 6 Ed. gutt.
25+85 8				6828		℄	
				6862			10 9 gutt
				69 10	(S.E. cor. Island)		10 9 Top cb. W. end C.R.
				68 85			24 9 gutt.
				6936	(S.W. cor Island)		24 9 Top cb. E end C.R.
				6781	15 9 gutt.		

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STATION	B.S.	H.I.	F.S.	ELEV.	LT ℄ E.	℄ Hawthorne RT ℄ W.
25+85.8				6828	15.9 Top cb. E end	C.R. (S.W. COR. Island)
				6770	21.9 gutt	
				6817	21.9 Top cb. W. end	C.R. (S.E COR. Island)
25+87.8				6866		10.9 Ed gutt
				6888		24.9 " "
				6788	15.9 Ed gutt	
				6773	21.9 " "	
26+20.01				6871	PG 39 & 93	Hawthorne Blvd. ℄ int ℄ 166 TH ST TO W.
" "	1+00 going S. along ℄ Hawthorne					
1+00.32	S. = (1+00 S ℄ E)					Hawthorne Blvd. ℄ int ℄ 166 TH ST. TO E.
" "	= 1+00 going E. along the ℄ of 166 TH. ST. TO E.					
					LT ℄ N.	℄ 166 TH. E. RT ℄ S.
1+26.8				6788		℄ Island cb. line
1+50				6724		℄ ctr. pv-Hawthorne
1+73.4				6673		℄ cb. line "
1+98.6				6675		℄
				6672	10 W/4	
				6672	17.9 Ed gutt	
				6649	19.9 gutt - E end	C.R. N.E cor.
				6718	19.9 Top cb. - "	" " "

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

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STATION	B.S.	H.I.	F.S.	ELEV.	LT & N.	℄ 166 TH TO E. RT & S.
2+08	E.			6668		℄
				6666	10 w/4	
				6659	17.9 Ed gutt	
				6639	19.9 "	
				6646	19.9 depressed cb.	
2+17.5	"			6661		℄
				6666		14 w/4
				6650		25.9 cor. gutt
				6646	gutt.	27.9 E. end C.R. S.E. cor.
				6715	Top cb.	27.9 " " " " "
2+27.5	"			6657		℄
				6656		14 w/4
				6634		27.9 gutt.
				6704		27.9 Top cb.
		Flow to East.				
Sec.	cont. S. along ℄ Hawthorne from ℄ int. Hawthorne & 166 TH. ST. E.					
1+42.0	So.			6907		℄
				6880	11.0 Ed gutt.	
				6837	24.7 " "	
1+42.5				6928		15.2 Ed gutt
				6943		21.7 " "

F.B. 2583 Pg. 180 Job No. 626820 Division No. 11 Notes Red Plotted Profile
Survey of Hawthorne Blvd. S.D. # 682 Date Date No. X-Sec.
Survey by Sappell Notes D.S. & D. Foulger Notes Chkd. Checked
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STATION	B.S.	H.I.	F.S.	ELEV.	LT ℄ E	℄ Hawthorne RT ℄ W.
1+44.0	So.			6875	11.0 gutt	
				6925	11.0 Top cb. - E end C.R. (N.W. cor. Island)	
				6836	24.7 gutt	
				6883	24.7 Top cb. W. end C.R. (N.E. cor. Island)	
1+44.5	"			6910		℄
				6925		15.2 gutt
				6974	(N.E. cor. Island)	15.2 Top cb. W. end C.R.
				6942		21.7 gutt
				6989	(N.W. cor Island)	21.7 Top cb. E. end C.R.
1+45.8	"			6878	26.7 Top cb. S. end C.R. (N.E. cor. Island)	
				6830	26.7 gutt	
				6826	28.7 Ed gutt	
1+49.5	"			7007	(N.W. cor. Island)	26.8 Top cb. - S. end C.R.
				6955		26.8 gutt
				6954		28.8 Ed. gutt
1+50.0	"			6901	4.2 Ed gutt	
				6897	6.2 "	
				6948	6.2 Top cb. - S.W. end C.R. (N.W. cor. Island)	
1+51.0	"			6916		4.5 Ed gutt
				6918		6.5 "
				6964	(N.E. cor. Island)	6.5 Top cb. S.E. end C.R.

Profile No. ____ Notes Red ____ Plotted ____ Job No. 6268.20 Division No. 11 F.B. 2583 Pg. 181
X-Sec. No. ____ Date ____ Date ____ Survey of Hawthorne Blvd - S.D. #682
Notes Chkd. ____ Checked ____ Survey by Sappell Notes P.S.E. Fowler Date 11-14-63
No. ____ Date ____ Date ____ Map No. ____ Indexed E. J. Gauly Date ____

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STATION	B. S.	H. I.	F. S.	ELEV.	LT ℄ E	℄ Hawthorne RT ℄ W.
1+52 3	50.			69 11		50 ctr. pav
				68 53		71' Edge gut.
				68 39		73' "
				69 01		73' top curb
1+83 8	"			69 27		℄ guth.
				69 73		℄ Top cb.
				69 25	2° Ed guth	
				69 15	11° " "	
				69 13	13° gut.	
				69 61	13° Top cb.	
				69 14	26 7 " "	
				68 64	26 7 guth	
				68 55	28 7 Ed guth	
				68 09	50 ctr. pv.	
				67 42	71 4 guth	
				67 29	73 4 Ed "	
				67 90	73 4 Top cb.	
1+92 3	"			69 8		℄ -grd island
				69 35		50 ctr. pv.
				68 74		71' Ed guth
				68 59		73' "
				69 20		73' Top cb.

F.B. 2583 Pg. 182 Job No. 6268.20 Division No. 11 Notes Red Plotted Profile
Survey of Hawthorne Blvd. SD A 682 Date Date No.
Survey by Jappell Notes D.J. & D. Faulger Notes Chkd. Checked X-Sec.
Indexed C. J. GALL Date Date Date No.

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STATION	B.S.	H.I.	F.S.	ELEV.	LT ℄ E	℄ Hawthorne RT ℄ W.
2+33 6	So.			694		8° F/L
				708		19 5 Top slope
				700	6° Top slope	
				6911	24 7 gutt.	
				6959	24 7 Top cb. - M.C.R. end island	
2+35 6	"			6915	24 7 Ed. gutt.	
2+60 3	"			6420		℄ inv. 36" corr. I.P.
				6841		5 7 Top end Head wall
				676		5 7 gnd.
				710		21 5 Top slope
				6841	3 3 Top end H.W. & gnd	
				702	9 2 Top slope.	
3+00	"			647		℄ ℄ Toe slope from E.
				647		7° Toe slope " W.
				711		22° Top "
				7100		26 8 Top cb.
				7050		26 8 gutt.
				7045		28 8 Ed "
				6991		50 ctr. pv.
				6943		71 1 Ed. gutt.
				6931		73 1 "
				6989		73 1 Top cb.

Profile Notes Red ____ Plotted ____ Job No. 6268.20 Division No. 11 F.B. 2583 Pg. 183
No. ____ Date ____ Date ____ Survey of Hawthorne Blvd. S.D. # 682
X-Sec. Notes Chkd. ____ Checked ____ Survey by Sappell Notes D.S.& Foulger Date 11-14-63
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STATION	B.S.	H.I.	F.S.	ELEV.	LT & E	℄ Hawthorne RT & W.
3+00	So			706	9^{5} Top slope	
				7034	14^{6} Top cb.	
				6986	14^{6} Gutt.	
				6981	16^{6} Ed "	
				6905	50 ctr. pv.	
				6837	71^{4} Ed gutt.	
				6824	73^{4} "	
				6890	73^{4} Top cb.	
3+47°	"					75^{5} J.C.M.H.
				6965	N. Rim	
				6967	S. "	
				6971	W. "	
		69.65 - 8.34 =		61.31	•inv. 8" outlet N.	Meas 7.67 Diam 0.67 Rod 8.34.
		69.67 - 8.21 =		61.46	•inv. 8" inlet S.	7.54 0.67 8.21.
		69.71 - 8.17 =		61.54	•inv. 8" " W.	7.50 0.67 8.17.
	End sec. to south.					

Sec. cont. along ℄ 166 TH ST TO W.

F.B. 2583 Pg. 184 Job No. 6268.20 Division No. 11 Notes Red Plotted Profile
Survey of Hawthorne Blvd - SD #682 Date Date No. X-Sec.
Survey by Sappell Notes D.S. & D. Foulger Notes Chkd. Checked
Indexed R. J. GALL Date Date Date No.

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STATION	B.S.	H.I.	F.S.	ELEV.	LT & S.	℄ 166 TH TO W. RT & N.
26+46.7				69 05		℄ island cb. line
26+70				68 73		℄ ctr. pv.-Hawthorne
26+90				68 35		℄ Ed "X" gutt.
26+93				68 30		℄ F/L " "
26+95.6						17.4 J.C.M.H.
				68 16	N. Rim	
				68 18	S. "	
				68 18	W. "	
		68.16 -	8.40 =	59 76	inv. 8" outlet N.	meas. 7.73 Diam 0.67 Rod 8.40.
		68.18 -	8.27 =	59 91	inv. 8" inlet S.	7.60 0.67 8.27.
		68.18 -	8.20 =	59.98	inv. 8" " W	7.53 0.67 8.20.
26+96.0				68 35		℄ Ed "X" gutt.
27+18.9				68 70		℄
				68 67		10 crown.
				68 44		19
				68 30		26.2 Ed gutt.
				68 17		28 "
				68 81		28 Top cb.
27+38.1				68 77		℄

Profile No. ____ Notes Red ____ Plotted ____ Job No. 6268.20 Division No. 11 F.B. 2583 Pg. 185
Date ____ Date ____ Survey of Hawthorne Blvd. S.D. # 682
X-Sec. No. ____ Notes Chkd. ____ Checked ____ Survey by Sappell Notes DS & Foulger Date 11-14-63
Date ____ Date ____ Map No. ____ Indexed R. J. GALL Date ____

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STATION	B.S.	H.I.	F.S.	ELEV.	LT ℄ S.	℄ 166 TH	RT ℄ N.
27+38.1				68 67	6.2 Ed gutt.		
				68 52	8.0 "		
				69 17	8.0 Top cb.		
27+78.1				69 11		℄	
				69 10		10 crown	
				68 90		19	
				68 70		26.2 Ed gutt.	
				68 57		28 "	
				69 21		28 Top cb.	
				68 98	6.2		
				68 82	8.0 same		
				69 49	8.0		
BM SD 3202				69 49	BM SD 3202 El. 69.477 FB 2583-13.		
			corr.	69 48	Hawthorne Blvd & W. 166 TH ST. S.W. cor.		
					50' W. of W. end C.R. - Bt spk in curb.		
28+37.49				69 45	PG 37 & 94	℄ int. 166 TH & Alley	
" " =	1+00 going S			along	the ℄ of Alley		
					LT ℄ E.	℄ Alley	RT ℄ W.
1+06.2				69 34		℄ Ed gutt.	
1+08				69 22		℄ "	
"				69 30		℄ Depressed cb.	

F.B. 2583 PG. 186 Job No. C268.20 Division No. 11 Notes Red Plotted Profile
Survey of Hawthorne Blvd - S.D. #682 Date Date No.
Survey by Sappell Notes DS Notes Chkd. Checked X-Sec.
Indexed [illegible] Date Date Date No.

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STATION	B.S.	H.I.	F.S.	ELEV.	LT ℄ E.	℄ Alley	RT ℄ W.
1+21.4	So.			69.72		℄	F/L gutt. Brk.
				69.75		1.2	Ed gutt.
				69.94		10	P/L
				69.74	1.2	Ed gutt.	
				69.89	10	P/L	
2+58				70.75		℄	
				70.80		1.2	same
				70.95		10	
				70.78	1.2	same	
				71.15	10		
		sec.	cont.	along the ℄ 166 TH ST. TO W.			
					LT ℄ S.	℄ 166 TH.	RT ℄ N.
29+00				69.49		℄	
				69.54		10	crown
				69.35		19	
				69.15		26.2	Ed gutt.
				69.08		28	"
				69.14		28	depressed cl
				69.38	6.2	Ed gutt.	
				69.26	8.0	"	
				69.92	8.0	Top cb.	

Profile No. ____ Notes Red ____ Plotted ____ Job No. 626820 Division No. 11 F.B. 2583 Pg. 187
X-Sec. No. ____ Date ____ Date ____ Survey of Hawthorne Blvd - S.D. #642
Notes Chkd. ____ Date ____ Checked ____ Date ____ Survey by Sappell Notes D.S. Date 11-19-63
Map No. ____ Indexed ____ Date ____

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Do not extend notes this side of this line.

STATION	B.S.	H.I.	F.S.	ELEV.	LT & S.	℄ 166 TH.	RT & N.
30+00 TP				6957	TP.		
				6964		℄	
				6969		10	crown
				6954		19	
				6935		26²	Ed gutt
				6923		28	"
				6930		28	depressed cb.
				6954	6² Ed gutt.		
				6941	8 "		
				6948	8 depressed cb.		
30+48°						17°	S.M.H.
				6962	E. Rim		
				6962	W. "		
		69.62-	8.55=	61.07	inv. 8" outlet E	Meas. 7.88 Diam 0.67 Rod 8.55.	
		69.62-	8.57=	61.05	inv. 8" inlet W		7.90 0.67 8.57.
31+00				6989		℄	
				6992		10	
				6975		19	
				6952		26²	same
				6938		28	

F.B. 2583 Pg. 188 Job No. 6268.20 Division No. 11 Notes Red Plotted Profile
Survey of Hawthorne Blvd. S.D. # 682 Date Date No. X-Sec.
Survey by Sappell Notes D.S. Notes Chkd. Checked No.
Indexed [illegible] J. GALLI Date Date Date

76-L298 CE 307 3-61

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403 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.	LT ℄ S.	℄ 166 TH	RT ℄ N.
31+00				70 02		28	Top cb.
				69 78	6^{2} Ed gutt		
				69 60	8 "		
				69 72	8 depressed cb.		
32+00				70 09		℄	
				70 12		10	crown
				69 88		19	
				69 60		26^{2}	Ed gutt
				69 48		28	"
				69 59		28	depressed cb.
				69 96	6^{2} Ed gutt		
				69 83	8 "		
				70 51	8 Top cb.		
$32+67^{2}$				69 83		26^{1}	∡ PT. Ed gutt
				70 20	6^{2} ∡ PT Ed gutt		
$32+72^{4}$				70 30		℄	
				70 30		10	crown.
				70 07		19	
				69 70		28	gutt.
				70 36		28	Top cb.
				70 02	8 gutt.		
				70 66	8 Top cb.		
TP.				70.42 TP.			

Profile Notes Red ____ Plotted ____ Job No. 6268.20 Division No. 11 F.B. 2583 Pg. 189
No. ____ Date ____ Date ____ Survey of Hawthorne Blvd - S.D. # 682
X-Sec. Notes Chkd. ____ Checked ____ Survey by Sappell Notes DS Date 11-19-63
No. ____ Date ____ Date ____ Map No. ____ Indexed E. J. GALLI Date ____

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Do not extend notes this side of this line.

STATION	B.S.	H.I.	F.S.	ELEV.		
33+07 31				7042		℄ int 166 TH & Grevillea
" " =	1+00	going	N. &	S. along the ℄ of Grevillea Ave.		
					LT & E.	℄ Grevillea RT & W.
1+05 0	So.			7038		℄ Ed "X" gutt
1+08	"			7032		℄ F/L " "
1+11	"			7036		℄ Ed " "
1+20				7107		℄
				7105		6 5 w/4
				7109		11 3 Ed gutt.
				7084	gutt	13 1 S. end C.R. S.W. cor.
				7151	Top cb.	13 1 " " " " "
				7105	6 5 w/4	
				7092	11 0 Ed gutt	
				7075	13 gutt - S. end C.R. S.E. Cor.	
				7140	13 Top cb. - " " " " "	
1+41 2				7158		℄ brk.
				7140		6 5 w/4
				7132		11 3 Ed gutt
				7116		13 1 "
				7180		13 1 Top cb.
				7145	6 5 w/4	

F.B. 2583 Pg. 190 Job No. 6268.20 Division No. 11 Notes Red Plotted Profile
Survey of Hawthorne Blvd - S.D. #1682 Date Date No. X-Sec.
Survey by Sappell Notes D.S. Notes Chkd. Checked
Indexed C. J. GALLI Date Date Date No.

76-L298 CE 307 3-61

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STATION	B.S.	H.I.	F.S.	ELEV.	LT & E	℄ Grevillea RT & W.
1+41.2	So.			71 32	11.0 Ed gutt.	
				71 14	13.0 "	
				71 78	13.0 Top cb.	
2+00	"			71 91		℄
				71 78		6.5 w/4
				71 69		11.3 Ed gutt.
				71 51		13.1 "
				71 60		13.1 depressed cb.
				71 77	6.5 w/4	
				71 63	11.0 Ed gutt.	
				71 45	13.0 "	
				72 11	13.0 Top cb.	
3+00	"			72 55		℄
				72 41		6.5
				72 25		11.3 same
				72 09		13.1
				72 74		13.1 Top cb.
				72 42	6.5	
				72 26	11.0 same	
				72 11	13.0	
	End sec to So.			72 71	13.0	

Profile No. ____ Notes Red ____ Plotted ____ Job No. 6268.20 Division No. 11 F.B. 2583 Pg. 191
X-Sec. No. ____ Date ____ Date ____ Survey of Hawthorne Blvd - S.D. #682
Notes Chkd. ____ Checked ____ Survey by Sappell Notes D.S. Date 11-19-63
Date ____ Date ____ Map No. ____ Indexed R. J. GALL Date ____

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STATION	B.S.	H.I.	F.S.	ELEV.		
sec.	going N.	along	the	℄ of Grevillea	from ℄ int.	Grevillea & 166TH ST.
					LT ℄ W.	℄ Grevillea RT ℄ E
1+10	No.			7044		℄ " (crown 166 TH)
1+19	"			7020		℄ "
1+24.9	"			7000		℄ " Ed "X" gutt.
1+27.9	"			6996		℄ " F/L " "
1+30.9	"			7000		℄ " Ed " "
1+39.9				7084		℄
				7074		6.5 W/4
				7056		11 Ed gutt.
				7041	gutt	13 N. end C.R. N.E. cor.
				7104	Top cb.	13 " " " " "
				7100	6.5 W/4	
				7096	11 Ed gutt.	
				7085	13 " - N. end C.R. N.W. cor.	
				7149	13 Top cb - "	" " " "
1+48.2				7118		℄
				7102		6.5 W/4
				7082		11 Ed gutt
				7070		13 "
				7136		13 Top cb.

F.B. 2583 Pg. 192 Job No. 6268.20 Division No. 11 Notes Red Plotted Profile
Survey of Hawthorne Blvd. S.D. # 682 Date Date No. X-Sec.
Survey by Sappell Notes D.S. Notes Chkd. Checked
Indexed R. J. GAIN Date Date Date No.

76-L298 CE 307 3-61

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Do not extend notes this side of this line.

STATION	B.S.	H.I.	F.S.	ELEV.	LT & W.		℄ Grevilka	RT & E.
1+48²	No.			7123	6⁵	W/4		
				7110	11	Fd gutt		
				7095	13	"		
				7164	13	Top cb.		
1+80	"			7097			℄	
				7072			6⁵	
				7056			11	same
				7042			13	
				7109			13	
				7100	6⁵			
				7095	11	same		
				7078	13			
				7147	13			
2+80	"			7047			℄	
				7007			6⁵	
				6972			11	same
				6958			13	
				6974			13	depressed cb.
				7056	6⁵			
				7053	11	same		
				7038	13			
				7104	13			

Profile No. ____ Notes Red ____ Plotted ____ Job No. 6268.20 Division No. 11 F.B. 2583 Pg. 193
X-Sec. No. ____ Date ____ Date ____ Survey of Hawthorne Blvd. S.D. #682
Notes Chkd. ____ Checked ____ Survey by Sappell Notes DS Date 11-19-63
Date ____ Date ____ Map No. ____ Indexed E. J. GALLI Date ____

76-L298 CE 307 3-61

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F.B. 2583 Pg. 194 | Job No. 626820 | Division No. 11 | Notes Red ____ Date ____ | Notes Chkd. ____ Date ____

Survey of Hawthorne Blvd. S.D. #682 | Plotted ____ Date ____ | Profile No. ____

Survey by Sagell Notes D.S. | Checked ____ Date ____ | X-Sec. No. ____

Indexed E. J. GALLI Date ____

STATION	B.S.	H.I.	F.S.	ELEV.	LT ℄ S.	℄ 166 TH.	RT ℄ N.
	Sec.	cont	along	166 TH. ST.			
33+23.3				7008			24.9 ⊀ pt. Ed gutt.
				7042	5.0 ⊀ pt Ed gutt.		
33+41.7				7048		℄	
				7052			10 crown.
				7034			19
				7001			27.9 gutt.
				7059			27.9 Top cb.
				7024	8.0 gutt.		
				7089	8.0 Top cb.		
33+47.3				7020			26.1 ⊀ pt ed. gutt.
				7042	6.2 ⊀ pt. ed gutt.		
34+00				7056		℄	
				7062			10 crown.
				7021			26.1 Ed gutt.
				7003			27.9 gutt.
				7067			27.9 Top cb.
				7044	6.2 Ed gutt.		
				7031	8 "		
				7094	8 Top cb.		

76-L298 CE 307 3-61

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STATION	B.S.	H.I.	F.S.	ELEV.	LT & S.	℄ 166TH. RT & N.
34+00^{5}						17^{0} S.M.H
				70 45	E Rim	
				70 45	W. "	
		70.45 -	8.28s	62.17	inv. 8" outlet E	{ Meas. 7.67 Diam 0.67 Rod. 8.28.
		70.45 -	8.29s	62.16	inv. 8" inlet W.	{ 7.62 0.67 8.29
35+00				70 63		℄
				70 68		10 crown.
				70 45		19
				70 25		26^{1} Ed gutt.
				70 10		27^{9} "
				70 75		27^{9} Top cb.
				70 54	6^{2} Ed gutt.	
				70 39	8^{0} "	
				71 05	8^{0} Top cb.	
		End	sec.	To	W.	
BM SD 3201				70 94	BM SD 3201 El. 70.937, F.B. 2583-12 W. 166 TH. ST. & Grevillea Ave., S.W. Cor. 61' W. of W. end C.R. Bt. spk in curb.	

Profile No. ____ Date ____ Notes Red ____ Plotted ____ Job No. 6268.20 Division No. 11 F.B. 2583 Pg. 195
X-Sec. No. ____ Date ____ Notes Chkd. ____ Checked ____ Survey of Hawthorne Blvd - SD #682
Survey by Sappell Notes DS Date 11-19-63
Map No. ____ Date ____ Indexed E. J. GALLI Date ____

F.B. 2583 Pg. 196

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

Survey of ____ Date ____ Date ____ No. ____

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

Indexed E. J. GALLI Date ____ Date ____ Date ____ No. ____

STATION	B.S.	H.I.	F.S.	ELEV.
59.017 4.668 54.34				
		54.26 +4.77 59.01		
N CB.		Tcb #1 = 5.94		53.07
		Gut #2 = 6.61		52.40
S CB		Tcb 3 = 6.13		52.88
		Gut 4 = 6.73		52.28
159th cb Sec		℄ 5 = 6.61		52.40
		Gut 6 = 7.36		51.65
Sly cb		Tcb 7 = 6.64		52.37
159th Wly		Nly cb Gut 8 = 7.20		51.81
		Tcb 9 = 6.52		52.49
		℄ 10 = 6.74		52.27
Sly CBR		Gut 11 = 7.30		51.71
		Tcb 12 = 6.64		52.37
		Gut 13 = 7.07		51.94
		14 = 6.43		52.58

VOID Scratch Street

76-L298 CE 307 3-61

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NOTES RED RCB JOB NO. 0301.02 SURVEY OF FLOOD INSURANCE DATUM CHECK

DATE 11/10/77 SURVEY BY W. A. RICHARDS

NOTES CHKD. RCB NOTES BY DATE 11-9-77

DATE 11/10/77 INDEXED G. D. BAILEY DATE NOV 15 1977

F. B. 2583 PG. 197

DESCRIPTION

J.N. 0301.02

BENCH LEVELS

FOR

FLOOD INSURANCE DATUM CHECK

AT THE INTERSECTION OF HAWTHORNE BLVD. AND 163RD ST., BETWEEN LACO BM. SD 3206 AND CAL. TRANS. BM. 4-B-A

DATUM: L.A.CO. PRECISE B.M. LINE # 55, 1960 ADJ.

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

STOCK
RICHARDS

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

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725 LOS ANGELES COUNTY ENGINEERING BLDG.

76S420 S & E-353 4-54

76S420 S & E-353 4-54

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725 LOS ANGELES COUNTY ENGINEERING BLDG.

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B.M. CHECK.

JOB NO. 0301.02 SURVEY OF FLOOD INSURANCE NOTES RED RCB
SURVEY BY STOCK-RICHARDS DATE 11/10/77
NOTES BY DATE 11-09-77 NOTES CHKD RCB
INDEXED G.D. BAILEY DATE NOV 15 1977 DATE 11/10/77

F.B. 2583 PG. 198

B.M.	1ST RUN	DIFF.	2ND RUN	3RD RUN	ADJ. ELEV.	DESCRIPTION
(FD.)						
BM SD 3206	57.956				57.956	BM 3206 ELEV. = 57.956 FB. 2583-14
+	5.230		4.948			HAWTHORNE BLVD. & 163 RD ST, N.E. COR.
Σ	63.186	+0.380	0.380			BT. SPK. IN CB, 46' N/O N END C.R.
(FD.) −	4.850		4.568			
BM 4-B-A	58.336				58.336	BM 4-B-A ELEV. 58.31 - PER CAL-TRANS.
+	3.803		4.007			HAWTHORNE BLVD. & 163 RD ST. N.E. COR.
Σ	62.139	-0.381	0.379			L.S.T. IN CB, 2' N/O BCR., & 12' S/O
−	4.184		4.386			LIGHT POLE #950472 E.
(FD.) BM. SD 3206	57.955					B.M. 3206 - 8 LINES UP.
						El = 58.31 per Cal Trans

Profile No.	Notes Red RCB	Plotted	Job No. 0301.02	Division No. 11		F. B. 2583	Pg. 199
	Date 11/10/77	Date	Survey of BENCH LEVEL DATUM CHECK				
X-Sec. No.	Notes Chk'd. RCB	Checked	Survey by RICHARDS	Notes WAR	Date 11-09-77		
	Date 11/10/77	Date	Map No.	Index	Date NOV 15 1977		

J. N. 0301.02

"BENCH LEVELS"

SPOT ELEVATIONS AT THE INTERSECTION OF HAWTHORNE BLVD. & 159TH ST.

STOCK
RICHARDS

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

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76-L-298 CE 307 8-70

76-L-298 CE 307 8-70

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STATION	B. S.	H. I.	F. S.	ELEV.		
FP.						
BM SD 3209	475	5901		5426	BM SD 3209 ELEV. = 54,260 FB. 2583-15 HAWTHORNE BLVD. & 159TH ST., N.E. COR. SCREW IN LEAD IN CB, @ CTR. OF C.B., 5' N/O N. END C.R.	
#1 T.C.			594	5307	(W. SIDE) HAWTHORNE BLVD,	N/O 159TH ST., CTR. C.B.
#2 GUT (ON TOP GRATE)			661	5240	" "	" " " "
#3. T.C.			613	5288	" "	S/O 159TH ST., CTR. C.B.
#4 GUT (TOP GRATE)			673	5228	" "	" " " "
#5 CROWN			674	5227	159TH ST. @ B.C.R., GOING W'LY.	
#6 S. GUT			730	5171	" " "	" "
#7 S.T.C.			664	5237	" " "	" "
#8 N. GUT			707	5194	" " "	" "
#9 N.T.C.			643	5258	" " "	" "
#10 CROWN.			661	5240	159TH ST., OPP. ℄ C.B.,	
#11 S. GUT.			736	5165	" " " "	"
#12 S.T.C.			664	5237	" " " "	"

F.B. 2583 PG. 200
Job No. 0301.02 Division No. 11 Notes Red RCB Plotted Profile
Survey of "BENCH LEVELS" Date 11/10/77 Date No.
Survey by RICHARDS Notes W.A.R. Notes Chk'd. RCB Checked X-Sec.
Indexed G.D. BAILEY Date NOV 15 1977 Date 11/10/77 Date No.

F. B. PG.

Job No._____ Division No._____ Notes Red_____ Plotted_____ Profile

Survey of_____ Date_____ Date_____ No._____

Survey by_____ Notes_____ Notes Chk'd._____ Checked_____ X-sec.

Indexed_____ Date_____ Date_____ Date_____ No._____

76-L-298 CE 307 8-76

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[illegible] OR CHANGES [illegible] MUST BE MADE OR [illegible] DATE AND [illegible] NG CHANGE.

STATION	B. S.	H. I.	P. S.	[illegible]

76-L-298 CE 307 8-70

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STATION	B. S.	H. I.	F. S.	ELEV.		
		59 01				
#13 N.GUT.			7 20	51 81	159TH ST, OPP. ℄ C.B.	
#14 N.T.C.			6 52	52 49		
(FD.)						
B.M. SD. 3208	4 01	58 33	4 69	54 32	BMSD 3208 ELEV.=54.275 FB. 2583-15 HAWTHORNE BLVD. & W. 160TH ST, N.E. COR. BT. SPK. IN CB., 45' N/O N. END C.R.	
(FD.) T.P.	3 23	57 26	4 30	54 03		
B.M. SD. 3210	6 11	57 26	6 11	51 15	BM SD. 3210 ELEV.=51.069 FB. 2583-15 159TH ST, & FIRST ALLEY E/O HAWTHORNE BLVD. BT. SPK. IN CB. 23' E/O E. END C.R.	
FD.						
B.M. SB. 3209			3 01	54 25	BM SD. 3209 ELEV.=54.260 FB. 2583-15 HAWTHORNE BLVD. & W. 159TH ST., N.E. COR. SCREW IN LEAD IN CB., @ CTR. C.B., 5' N/O N. END. C.R.	

Profile No. ____ Notes Red RCB Date 11/10/77 Plotted ____ Date ____ Job No. 0301.02 Division No. 11 Survey of FLOOD INS. DATUM CHECK Survey by WAR Notes WAR Date 11-9-77 Map No. ____ Indexed G. D. BAILEY Date NOV 15 1977

X-Sec. No. ____ Date 11/10/77 Notes Chk'd. RCB Date ____ Checked ____ Date ____

F.B. 2583 PG. 201