

CITY OF ALBUQUERQUE



August 7, 2006

Daniel Aguirre, P.E.
Wilson & Company
2600 The American Rd. SE, Suite 100
Rio Rancho, NM 87124

**Re: La Cuentista Subdivision Unit 1, Open Space Storm Drain Calculations
Engineer's Stamp dated 6-20-06 (D10-D2)**

Dear Mr. Aguirre,

Based upon the information provided in your submittal received 6-23-06, the above referenced site is approved for work order review by the Design Review Committee.

If you have any questions, you can contact me at 924-3981.

Sincerely,

Kristal D. Metro, P.E.
Senior Engineer, Planning Dept.
Development and Building Services

C: File

Open Space Storm Drain CALCULATIONS

for

LA CUENTISTA SUBDIVISION – UNIT 1



Prepared by:

Wilson & Company, Inc.
2600 The American Road, SE, Suite 100
Rio Rancho, Mexico 87124
(505) 898-8021
New

June 2006

WCI File No: 0660004700 02

Storm Sewer Summary Report

020.013

Page 1

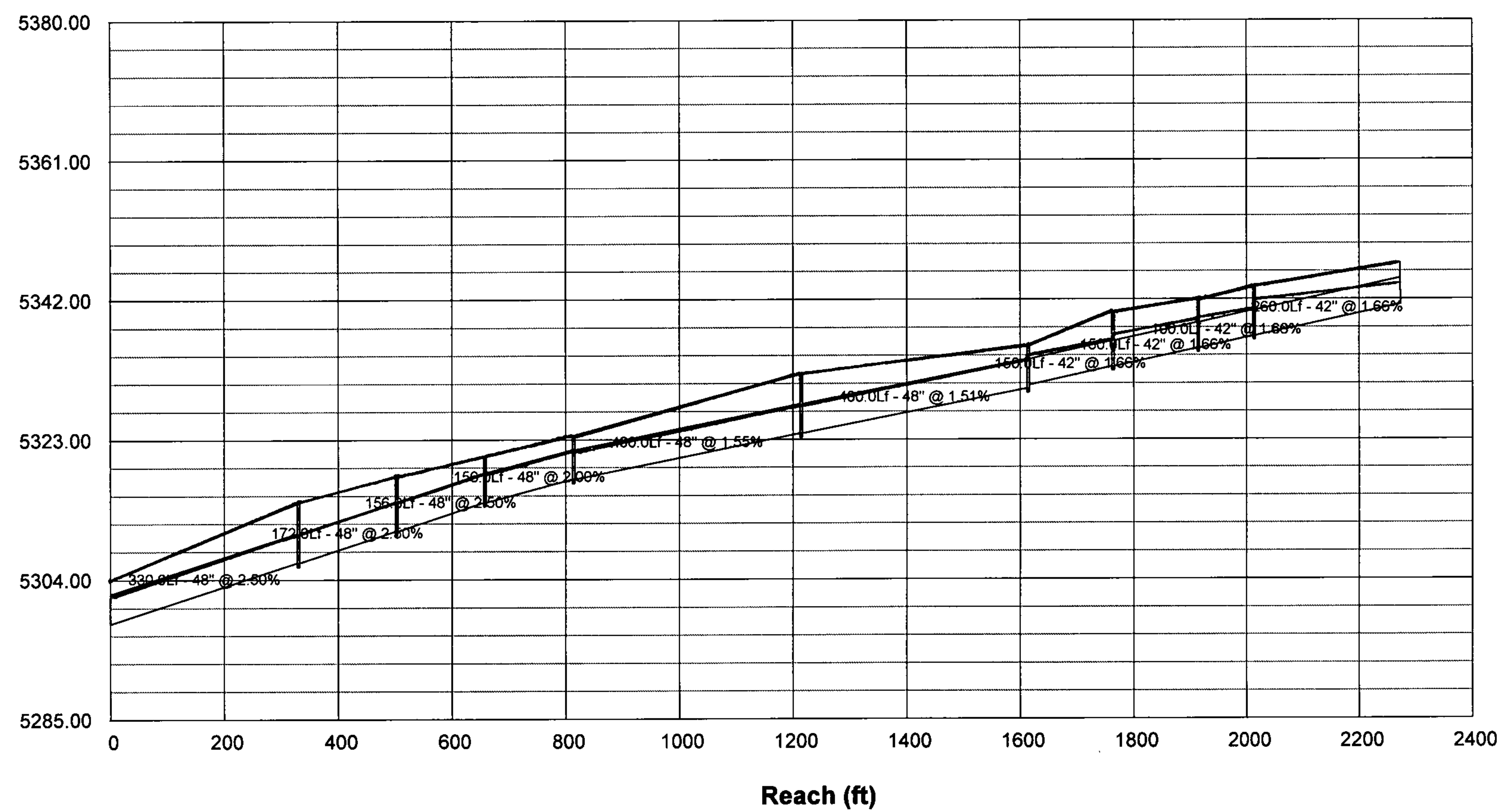
Line No.	Line ID	Flow rate (cfs)	Line size (in)	Line length (ft)	Invert EL Dn (ft)	Invert EL Up (ft)	Line slope (%)	HGL down (ft)	HGL up (ft)	Minor loss (ft)	HGL Junct (ft)	Dns line No.
1		180.0	48 c	330.0	5298.00	5306.25 8.25	2.500	5301.78	5310.03	0.50	5310.03	End
2		180.0	48 c	172.0	5306.25	5310.55 4.3	2.500	5310.17	5314.33	0.63	5314.33	1
3		180.0	48 c	156.0	5310.55	5314.45 3.9	2.500	5314.47	5318.23	0.63	5318.23	2
4		176.0	48 c	156.0	5314.45	5317.57 3.12	2.000	5318.51	5321.33	0.48	5321.33	3
5		176.0	48 c	400.0	5317.57	5323.77 6.2	1.550	5321.48	5327.53	0.54	5327.53	4
6		176.0	48 c	400.0	5323.77	5329.82 6.05	1.512	5327.68	5333.58	0.48	5333.58	5
7	→	122.0	42 c	150.0	5330.32	5332.81 2.49	1.660	5334.28*	5336.49*	0.37	5336.87	6
8		111.0	42 c ✓	150.0	5332.81	5335.30 2.49	1.660	5337.30*	5339.12*	0.31	5339.43	7
9		111.0	42 c	100.0	5335.30	5336.96 1.66	1.660	5339.43*	5340.65*	0.31	5340.96	8
10		86.00	42 c ✓	260.0	5336.96	5341.28 4.32	1.661	5341.79	5344.12	1.64	5344.12	9
Project File: SD CALCS_6_19_06_FINAL.stm							Number of lines: 10			Run Date: 06-19-2006		
NOTES: c = cir; e = ellip; b = box; Return period = 100 Yrs. ; *Surcharged (HGL above crown).												

Hydraulic Grade Line Computations

Line	Size (in)	Q (cfs)	Downstream								Len (ft)	Upstream								Check		JL coeff (K)	Minor loss (ft)
			Invert elev (ft)	HGL elev (ft)	Depth (ft)	Area (sqft)	Vel (ft/s)	Vel head (ft)	EGL elev (ft)	Sf (%)		Invert elev (ft)	HGL elev (ft)	Depth (ft)	Area (sqft)	Vel (ft/s)	Vel head (ft)	EGL elev (ft)	Sf (%)	Ave Sf (%)	Enrgy loss (ft)		
1	48	180.0	5298.00	5301.78	3.78	12.30	14.64	3.33	5305.11	1.358	330	5306.25	5310.03	3.78**	12.30	14.64	3.33	5313.36	1.358	1.358	n/a	0.15	0.50
2	48	180.0	5306.25	5310.17	3.92	12.30	14.39	3.22	5313.39	1.407	172	5310.55	5314.33	3.78**	12.30	14.64	3.33	5317.66	1.358	1.382	n/a	0.19	0.63
3	48	180.0	5310.55	5314.47	3.92	12.30	14.39	3.22	5317.69	1.407	156	5314.45	5318.23	3.78**	12.30	14.64	3.33	5321.56	1.358	1.382	n/a	0.19	0.63
4	48	176.0	5314.45	5318.51	4.00	12.26	14.01	3.05	5321.56	1.502	156	5317.57	5321.33	3.76**	12.26	14.35	3.20	5324.54	1.297	1.400	n/a	0.15	0.48
5	48	176.0	5317.57	5321.48	3.91	12.26	14.08	3.08	5324.57	1.340	400	5323.77	5327.53	3.76**	12.26	14.35	3.20	5330.74	1.297	1.319	n/a	0.17	0.54
6	48	176.0	5323.77	5327.68	3.91	12.26	14.08	3.08	5330.77	1.340	400	5329.82	5333.58	3.76**	12.26	14.35	3.20	5336.79	1.297	1.319	n/a	0.15	0.48
7	42	122.0	5330.32	5334.28	3.50	9.62	12.68	2.50	5336.79	1.471	150	5332.81	5336.49	3.50	9.62	12.68	2.50	5338.99	1.471	1.471	2.206	0.15	0.37
8	42	111.0	5332.81	5337.30	3.50	9.62	11.54	2.07	5339.37	1.218	150	5335.30	5339.12	3.50	9.62	11.54	2.07	5341.19	1.217	1.218	1.826	0.15	0.31
9	42	111.0	5335.30	5339.43	3.50	9.62	11.54	2.07	5341.50	1.218	100	5336.96	5340.65	3.50	9.62	11.54	2.07	5342.72	1.217	1.218	1.218	0.15	0.31
10	42	86.00	5336.96	5341.79	3.50	9.62	8.94	1.24	5343.03	0.731	260	5341.28	5344.12	2.84**	8.36	10.29	1.64	5345.76	0.744	0.738	n/a	1.00	1.64
Project File: SD CALCS_6_19_06_FINAL.stm Number of lines: 10 Run Date: 06-19-2006																							
Notes: ; ** Critical depth.																							

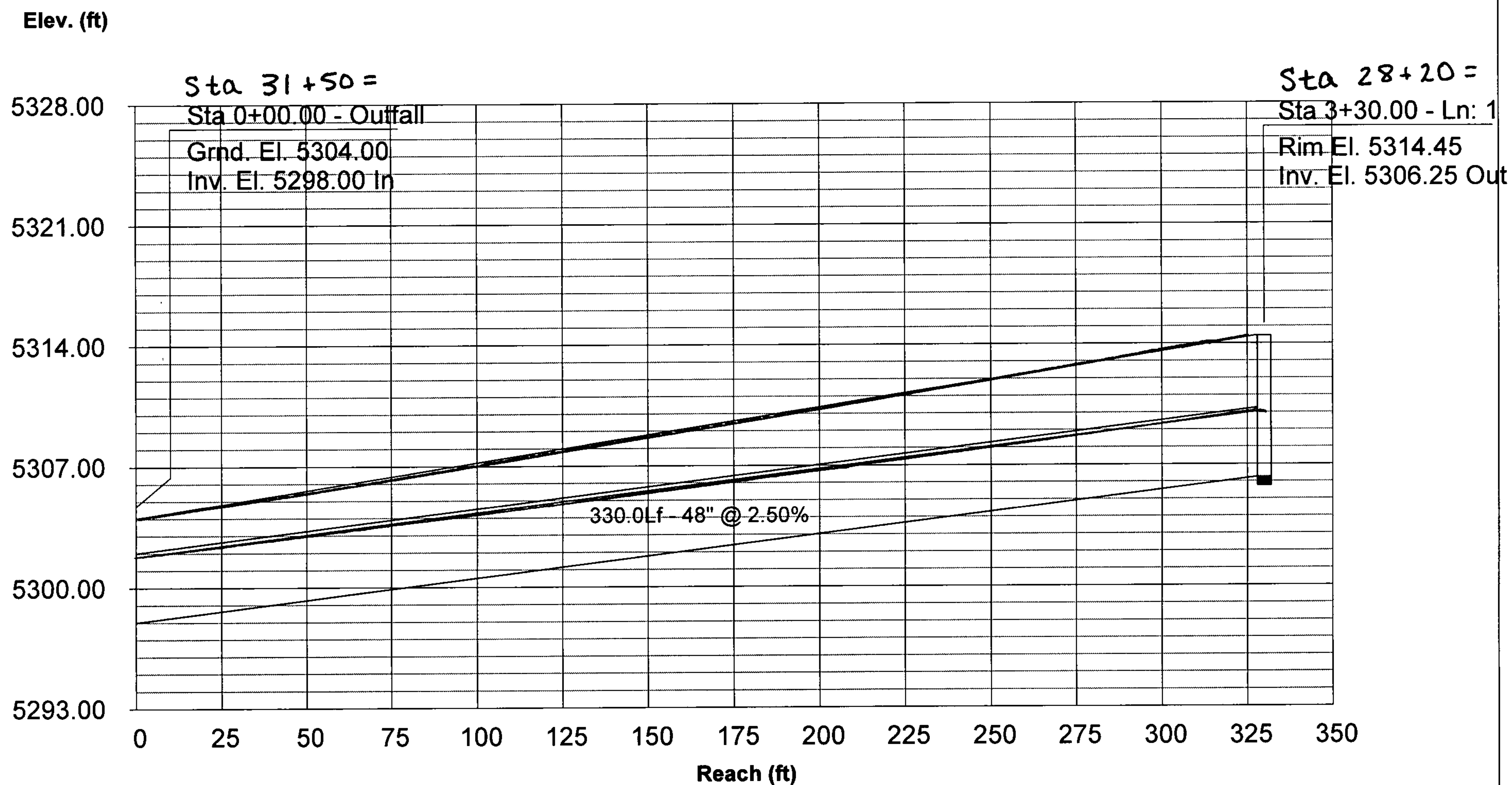
Storm Sewer Profile

Elev. (ft)

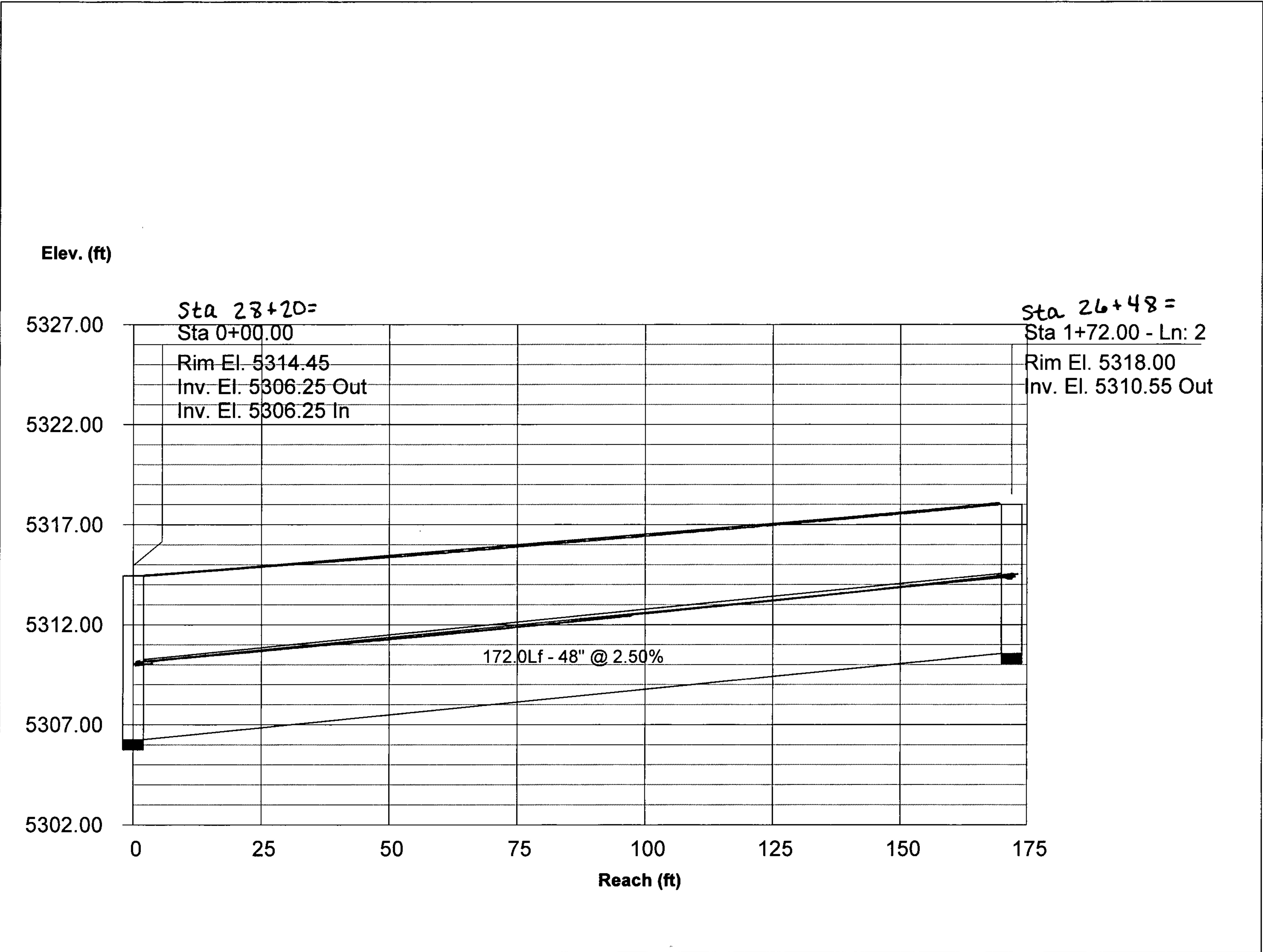


Storm Sewer Profile

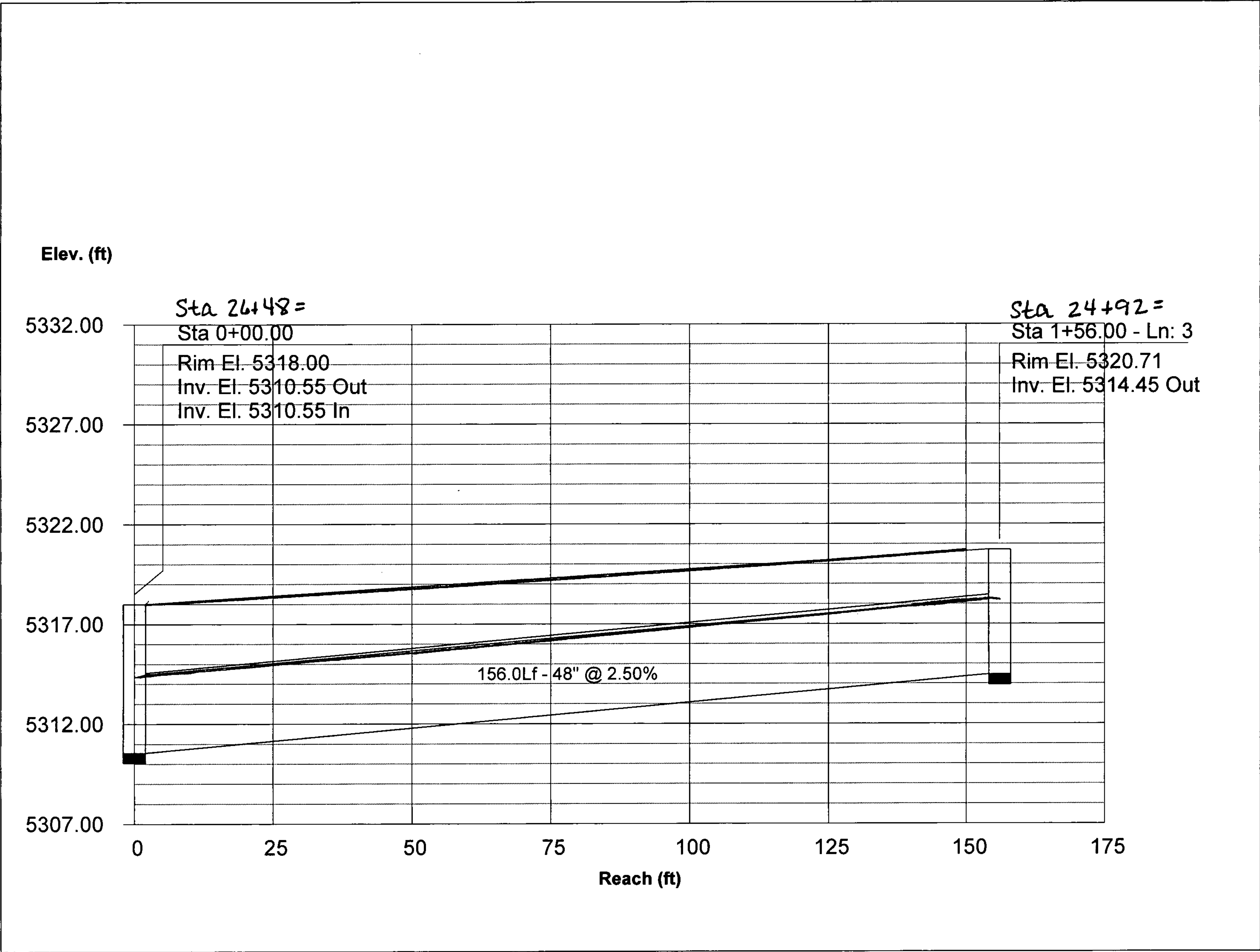
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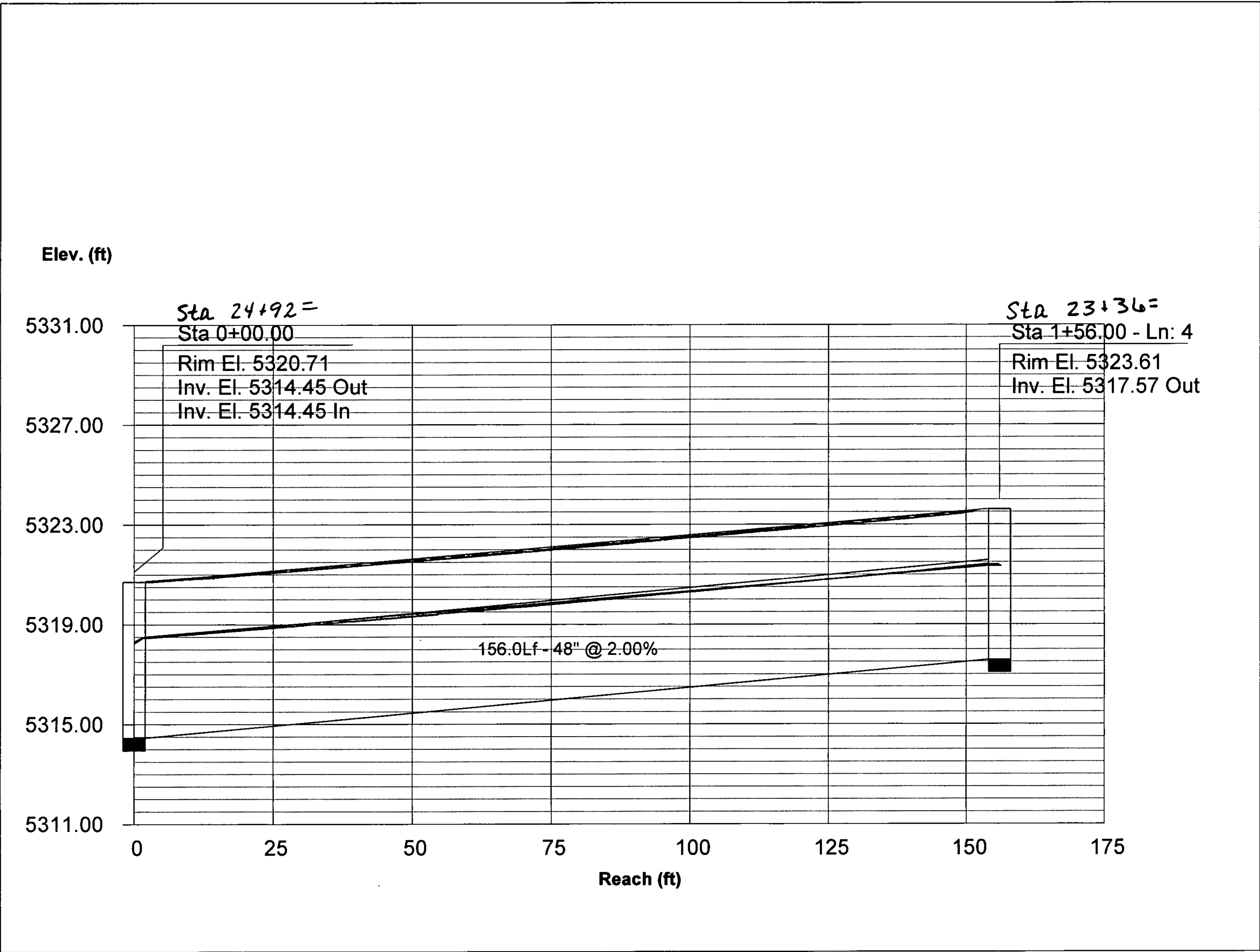
Storm Sewer Profile



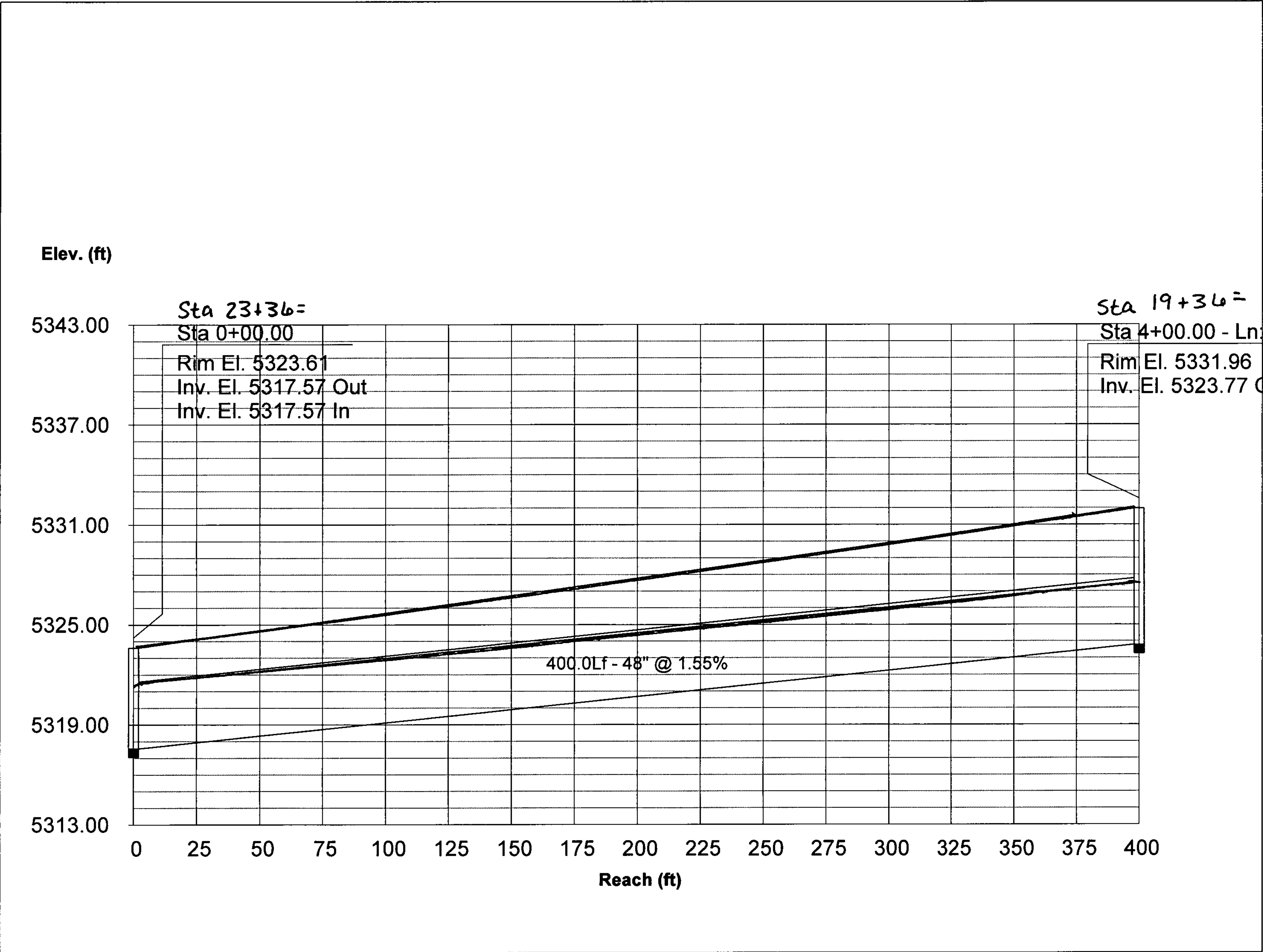
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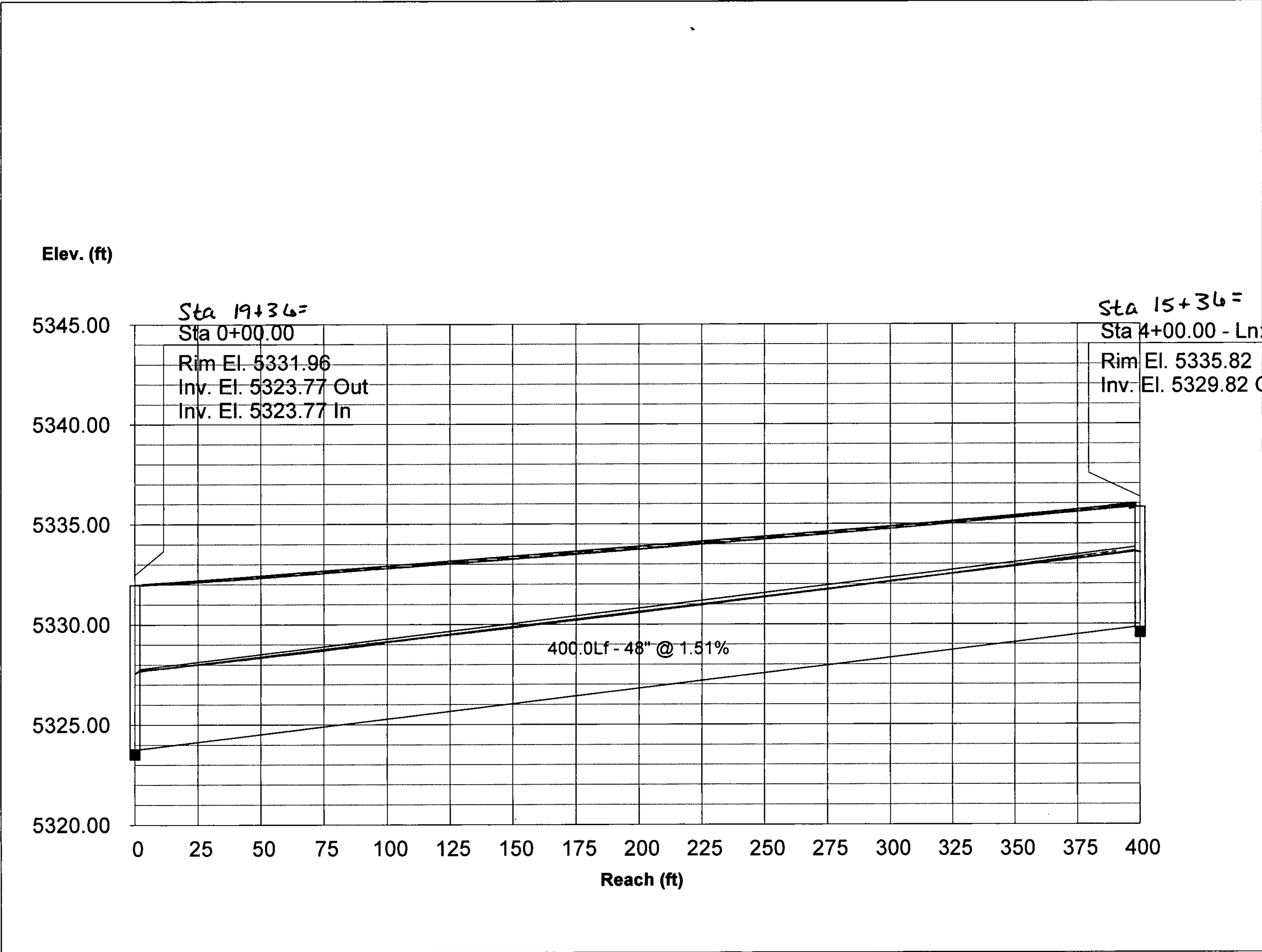
Storm Sewer Profile



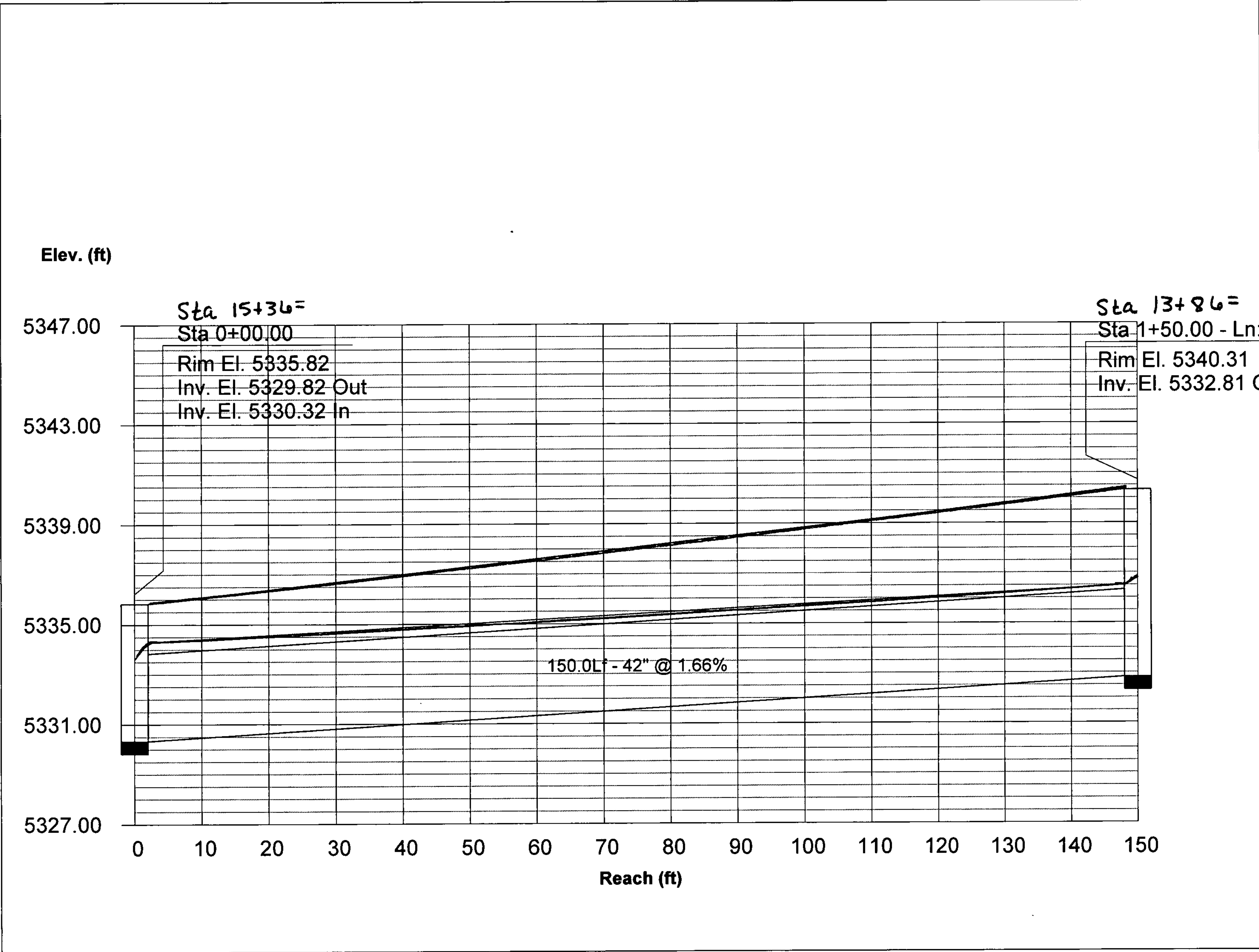
Storm Sewer Profile



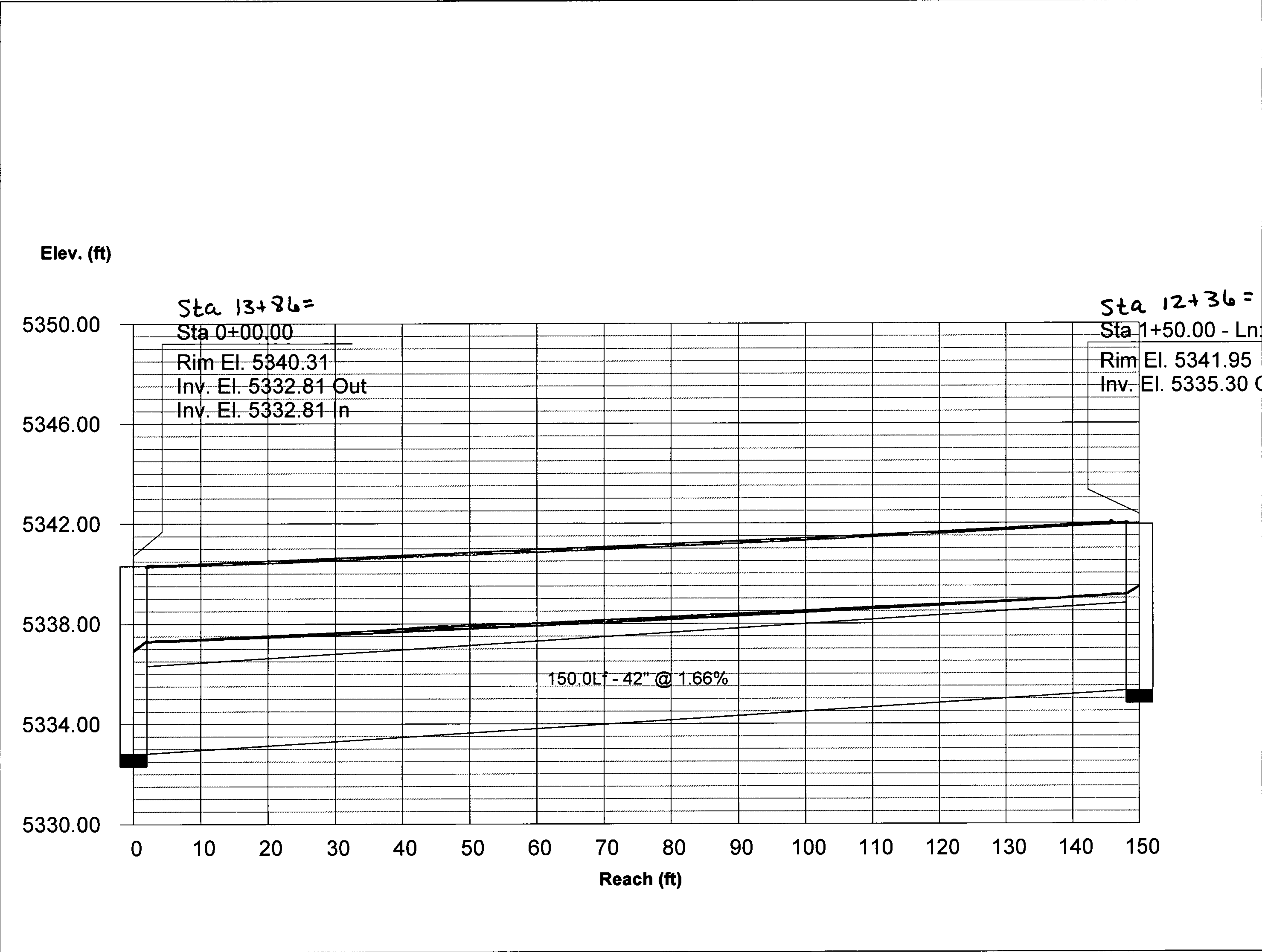
Storm Sewer Profile



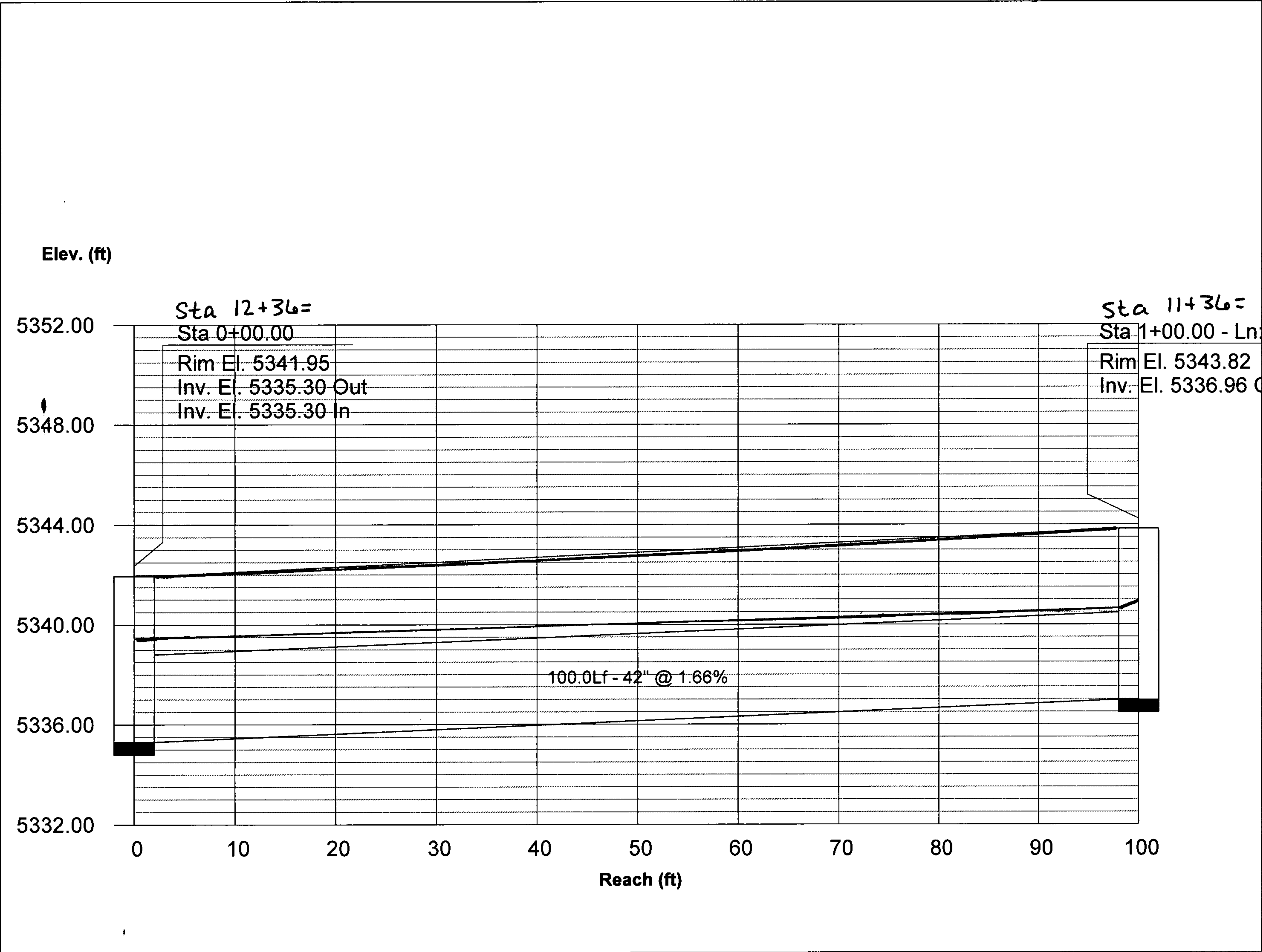
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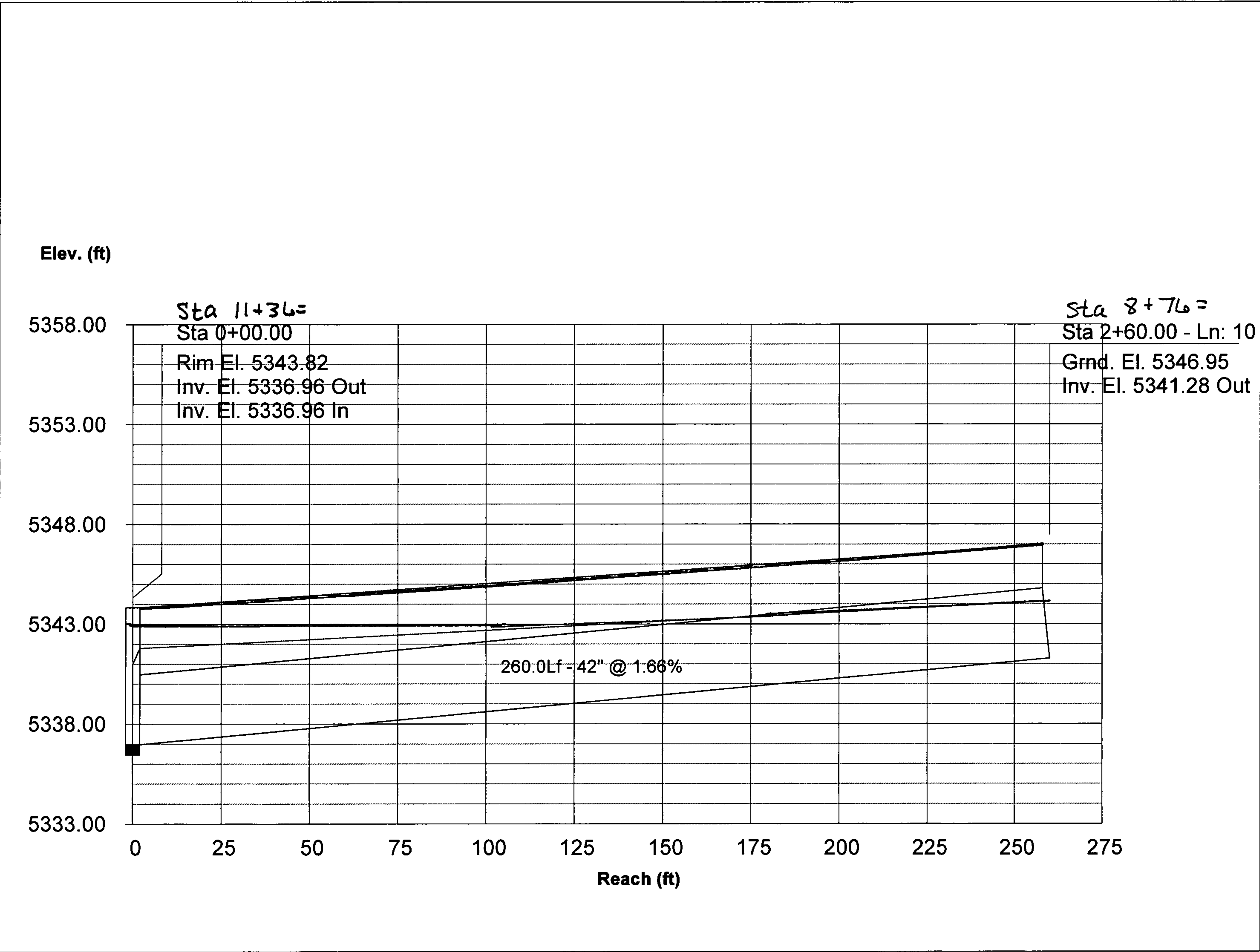
Storm Sewer Profile

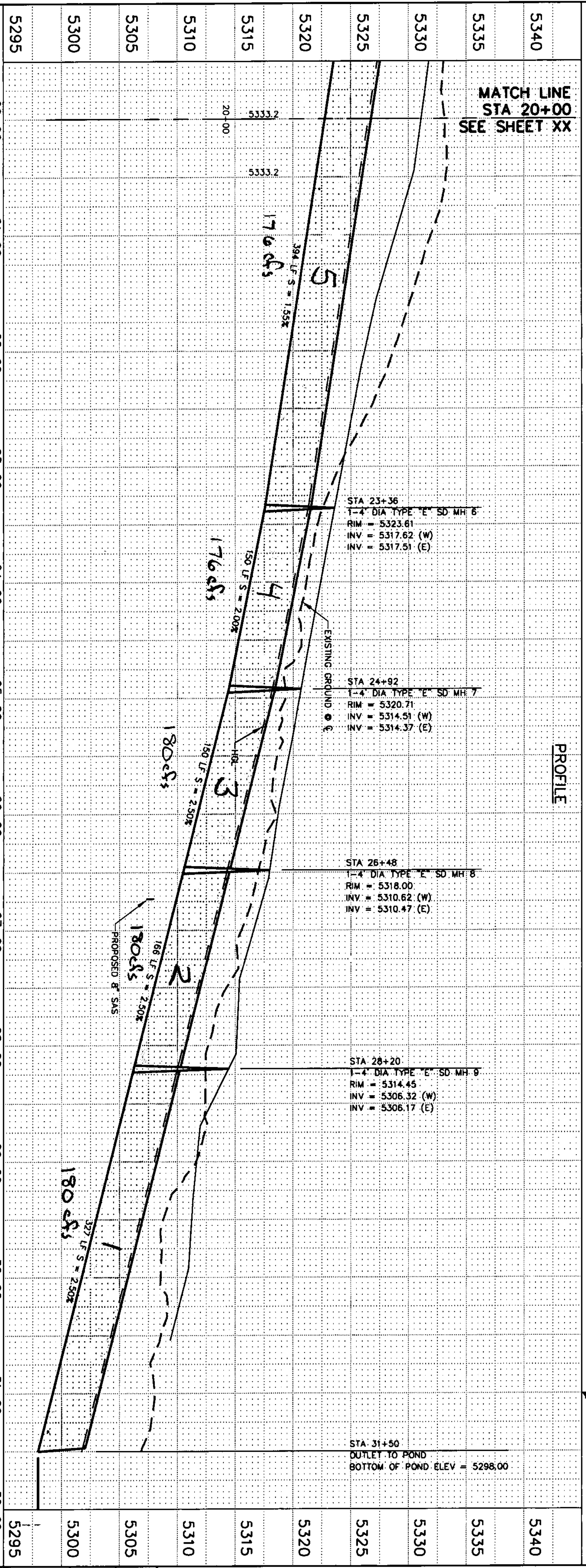
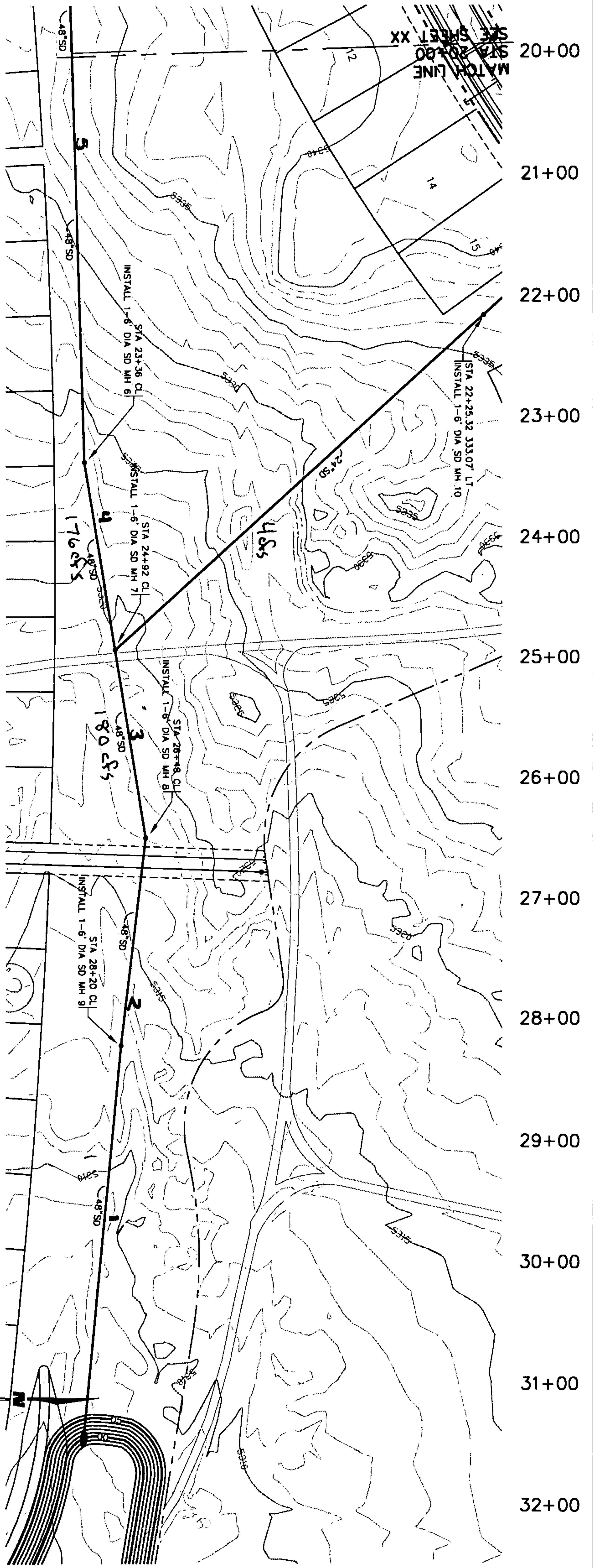


Storm Sewer Profile



Storm Sewer Profile





NOTES

SURVEY INFORMATION			BENCH MARKS		AS-BUILT INFORMATION	
FIELD NOTES			ACS 1 1/2" ALUMINUM DISK STAMPED		CONTRACTOR	
NO.	BY	DATE	"ACS BM 5-D11", LOCATED 72' ± ESE OF THE CENTER OF THE CUL-DE-SAC AT THE SOUTH END OF RIDGEWAY DR. NW, EPOXIED TO LAVA ROCK IN OUTCROPPING		WORK STARTED BY	DATE
	AERIAL MAPPING, WCI	05/01			INSPECTOR'S ACCEPTANCE BY	DATE
	BOUNDARY, WCI	06/01			FIELD MONITORING BY	DATE
	BOUNDARY, WCI	10/01			DRAWINGS CORRECTED BY	DATE
					MICRO-FILM INFORMATION	
			ELEVATION = 5267.27 FT.		RECORDED BY	DATE
			NGVD 29 U.S. FEET		NO.	

ENGINEER'S SEAL			REVISIONS	
NO.	DATE	REMARKS	BY	
WILSON & COMPANY, ENGINEERS & ARCHITECTS				
DESIGNED BY		DATE		DEC 2004
DRAWN BY		DATE		DEC 2004
CHECKED BY		DATE		DEC 2004

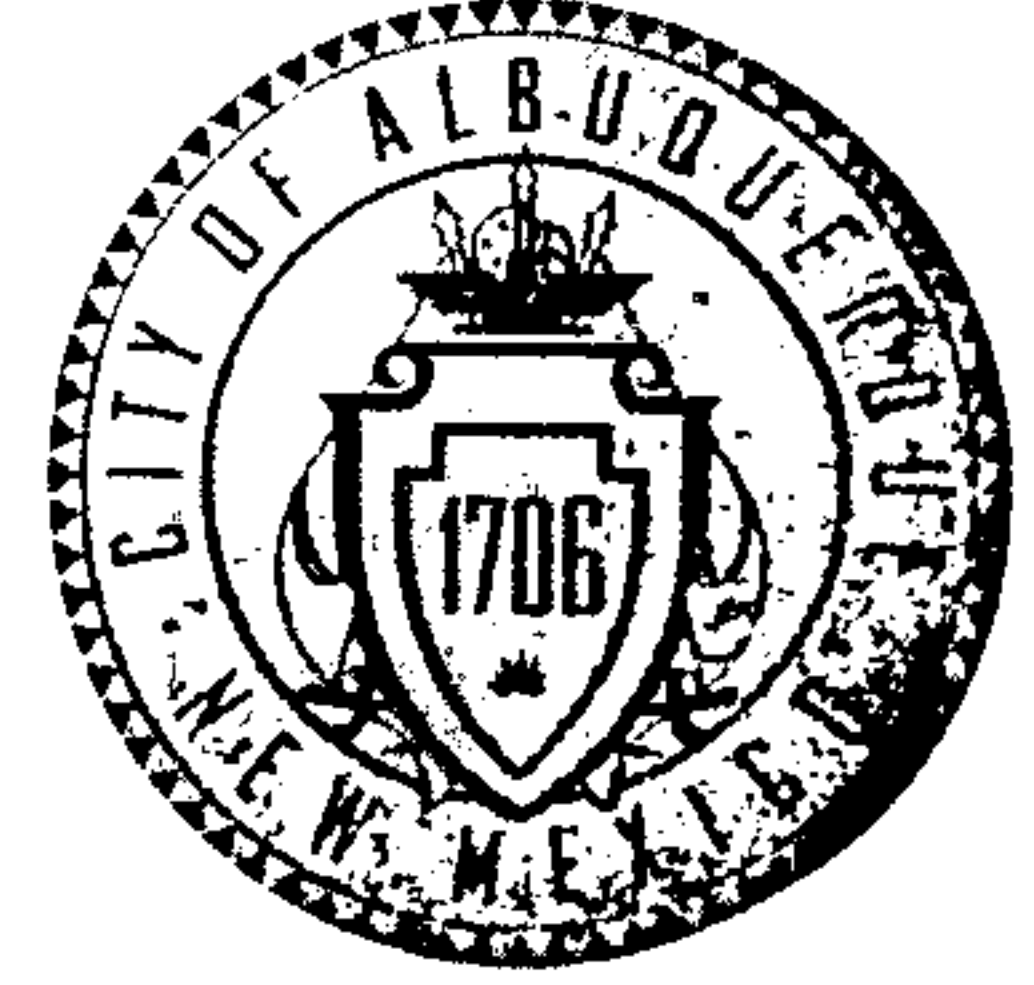
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP		LA CUENTISTA SUBDIVISION — UNIT 1 PAVING PLAN & PROFILE OPEN SPACE STORM DRAIN — STA 20+50 TO STA 31+50	
Design Review Committee	City Engineer Approval	Ms./Day/Yr.	Ms./Day/Yr.
City Project No. 79782	Zone Map No. C-10, D-10 C-11, D-11	Last Design Update	Drawing Sheet XX XX

WILSON & COMPANY

I:\PROJECTS\0606004\700\CA00\DWG\LA-CUENTISTA\LA-CUENTISTA.dwg 11-05-08 VMS

WCA #0606004/700
JUNE 2006

CITY OF ALBUQUERQUE



July 21, 2008

Daniel S. Aguirre, P.E.
Wilson & Company, Inc.
4900 Lang Ave. NW
Albuquerque, NM 87109

unit 1

RE: La Cuentista Subdivision, (D-10/D002)
Engineers Certification for Release of Financial Guaranty
Engineers Stamp dated 8/22/2006
Engineers Certification dated 07/18/2008
City Project #: 709782

Mr. Aguirre:

PO Box 1293

Based upon the information provided in your Engineer's Certification submittal dated 07/18/2008, the above referenced plan is adequate to satisfy the Grading and Drainage Certification for Release of Financial Guaranty.

Albuquerque

If you have any questions, you can contact me at 924-3982.

NM 87103

Sincerely,

Timothy E. Sims
Plan Checker, Planning Dept. - Hydrology
Development and Building Services

www.cabq.gov

C: Marilyn Maldonado, COA# 709782
File

**WILSON
& COMPANY**

4900 Lang Ave. NE
Albuquerque, NM 87109
505-348-4000
505-348-1072 Fax

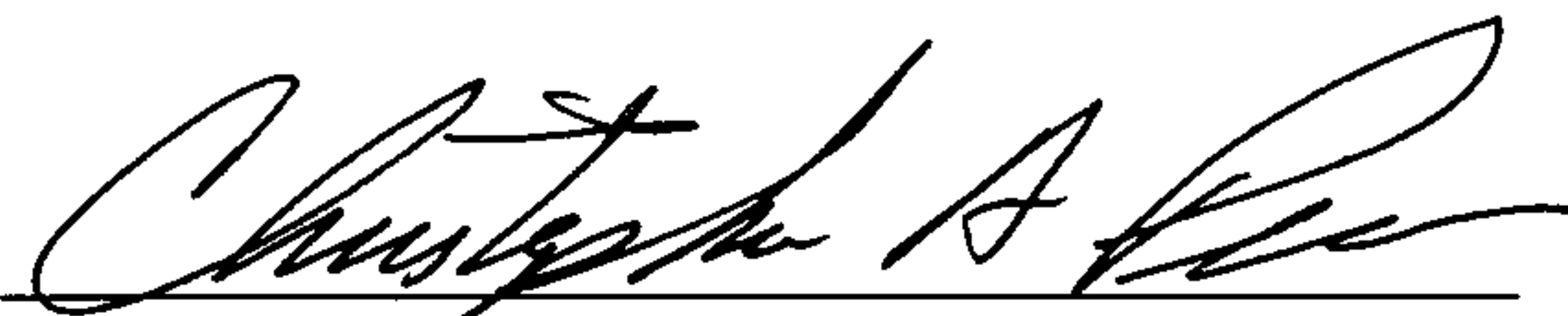
Albuquerque
Arlington
Colorado Springs
Denver
El Paso
Fort Worth
Houston
Kansas City
Las Cruces
Lenexa
Los Angeles
Omaha
Phoenix
Rio Rancho
Salina
San Bernardino

16 July 2008

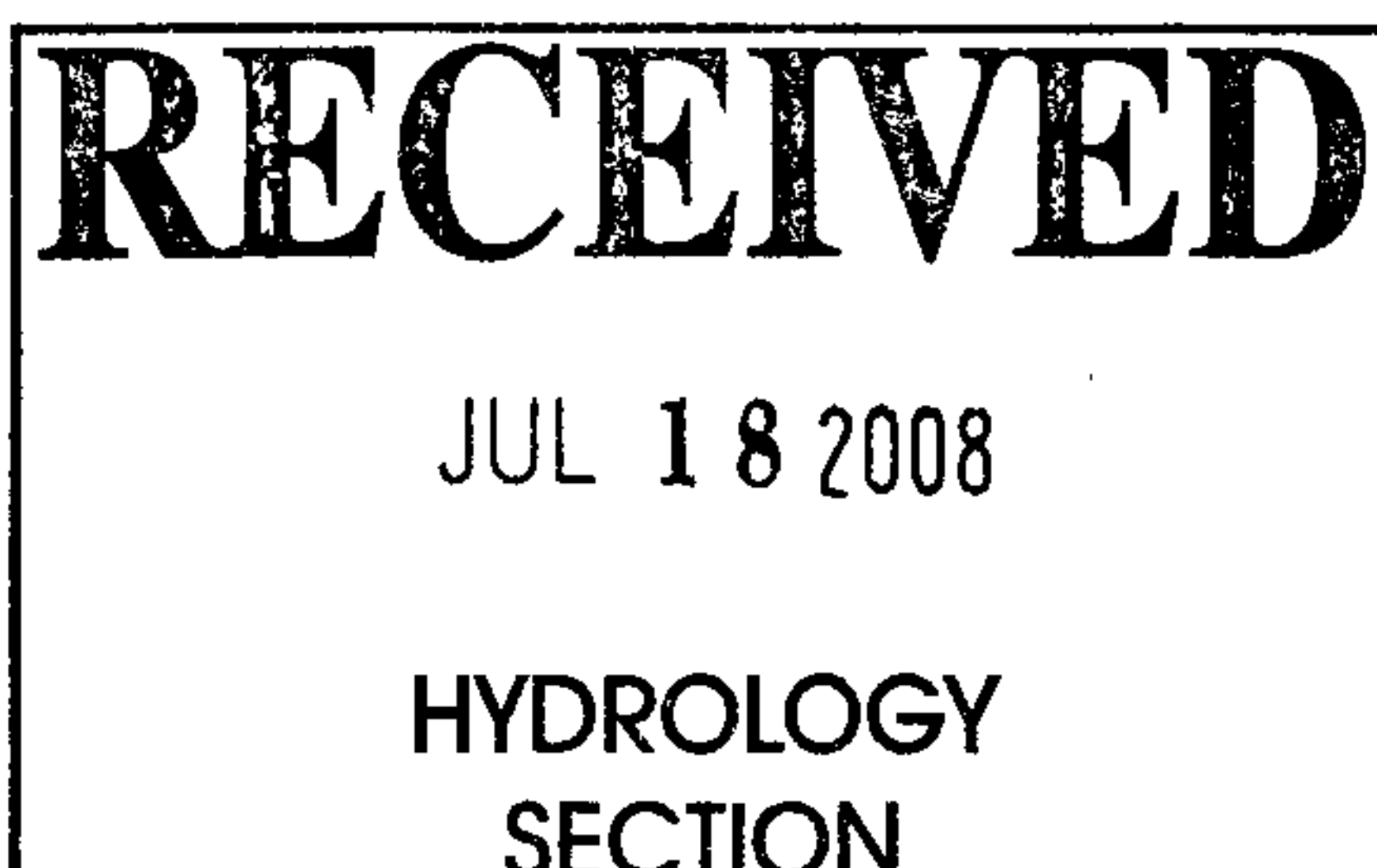
Brad Bingham
City of Albuquerque
Hydrology
Plaza Del Sol
600 Second Street NW
Albuquerque, NM 87103

Re: **RETAINING WALL CERTIFICATION- CPN 709782 (D10/D2)**
WCI File: 0760004700

I, CHRISTOPER A. PEREA, NMPE 13686, OF THE FIRM Wilson & Company,
HEREBY CERTIFY THAT THE RETAINING WALLS ON THIS PROJECT ENTITLED
'LA CUENTISTA SUBDIVISION - UNIT 1, CPN 709782, DRB 1000922, WAS
INSPECTED BY SOMEONE UNDER MY DIRECT SUPERVISION OR MYSELF AND
WAS CONSTRUCTED IN ACCORDANCE WITH THE COA APPROVED MASONRY
BLOCK WALL DETAIL ATTACHED HERETO. THIS CERTIFICATION IS
SUBMITTED IN SUPPORT OF A REQUEST FOR SIA/FINANCIAL GUARANTY
RELEASE.


CHRISTOPER A. PEREA, NMPE 13686

7-16-8
DATE



**WILSON
& COMPANY**

4900 Lang Ave. NE
Albuquerque, NM 87109
505-348-4000
505-348-1072 Fax

Albuquerque
Arlington
Colorado Springs
Denver
El Paso
Fort Worth
Houston
Kansas City
Las Cruces
Lenexa
Los Angeles
Omaha
Phoenix
Rio Rancho
Salina
San Bernardino

17 July 2008

Brad Bingham
City of Albuquerque
Hydrology
Plaza Del Sol
600 Second Street NW
Albuquerque, NM 87103

Re: **DRAINAGE CERTIFICATION- CPN 709782 (D10/D2) -RESUBMITTAL**
WCI File: 0760004700

I, **DANIEL S. AGUIRRE**, NMPE # **11955**, OF THE FIRM **WILSON & COMPANY**, HEREBY CERTIFY THAT THIS PROJECT HAS BEEN GRADED AND WILL DRAIN IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED **8-22-06**. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY **RUSS P. HUGG**, NMPS # **9750**, OF THE FIRM **SURVTEK INC.**. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON **1-31-08** AND HAVE DETERMINED BY VISUAL INSPECTION THAT THE SURVEY DATA PROVIDED IS REPRESENTATIVE OF ACTUAL SITE CONDITIONS AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS CERTIFICATION IS SUBMITTED IN SUPPORT FOR A REQUEST FOR **RELEASE OF FINANCIAL GUARANTY AND SIA**.

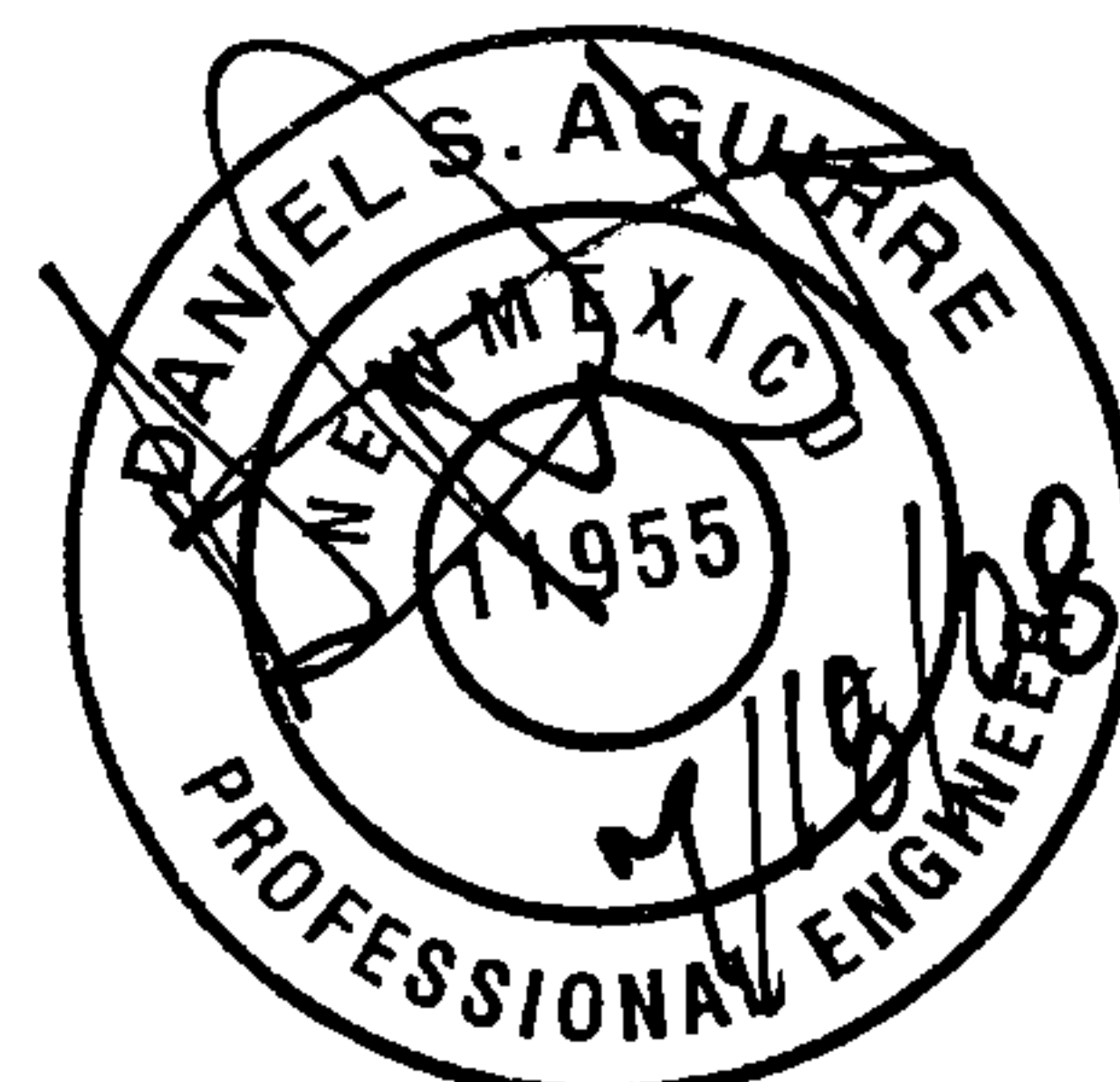
THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE GRADING AND DRAINAGE ASPECTS OF THIS PROJECT. THOSE RELYING ON THE RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE.

Daniel S. Aguirre, PE, CFM
Vice President
Wilson & Company, Inc., Engineers & Architects
Email: dsaguirre@wilsonco.com

RECEIVED

JUL 18 2008

HYDROLOGY
SECTION



WILSON & COMPANY, INC., ENGINEERS & ARCHITECTS