

# CITY OF RIVERSIDE SEWER IMPROVEMENT PLAN

**GENERAL NOTES:**

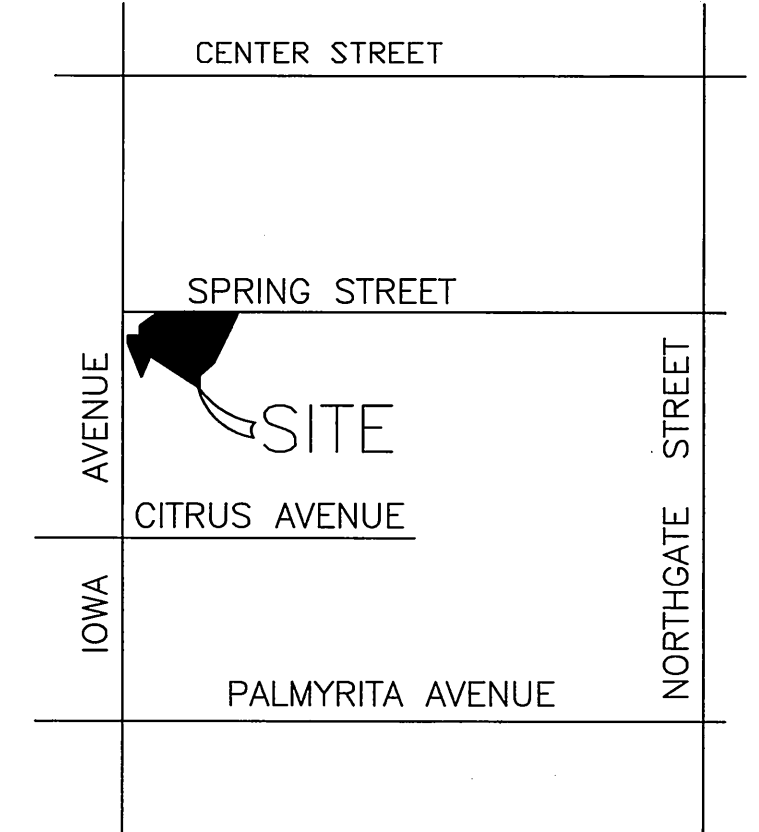
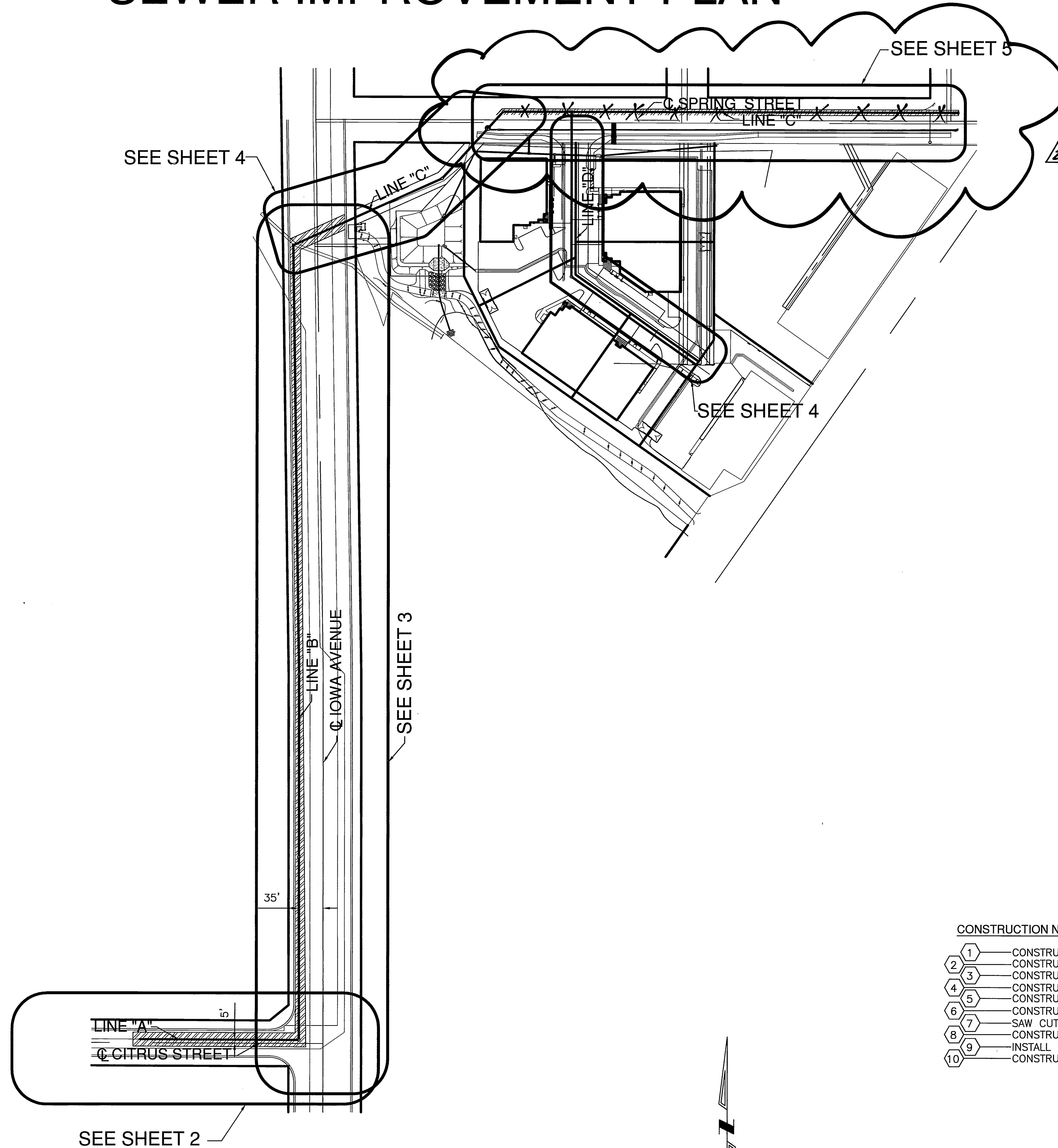
1. NO PERSON SHALL PERFORM ANY CONSTRUCTION ACTIVITY OR INSTALL ANY OBJECTS WITHIN THE PUBLIC RIGHTS-OF-WAY OR EASEMENTS OF THE CITY OF RIVERSIDE WITHOUT A VALID CONSTRUCTION OR, A STREET OPENING PERMIT, OR AN ENCROACHMENT PERMIT ISSUED BY THE CITY'S PUBLIC WORKS DEPARTMENT. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CLEAR THE RIGHT OF WAY IN ACCORDANCE WITH THE PROVISIONS OF THE LAW AS IT AFFECTS EACH UTILITY INCLUDING IRRIGATION LINES AND APPURTENANCES AND AT NO COST TO THE CITY.
2. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF RIVERSIDE DEPARTMENT OF PUBLIC WORKS, STANDARD DRAWINGS, ITS SUPPLEMENTAL NOTES AND THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CURRENT EDITION.
3. THE PRIVATE ENGINEER SIGNING THESE PLANS IS RESPONSIBLE FOR ASSURING THE ACCURACY AND THE ACCEPTABILITY OF THE WORK HEREON. IN THE EVENT OF DISCREPANCIES ARISING DURING CONSTRUCTION, THE PRIVATE ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING THE ACCEPTABLE SOLUTION AND REVISIONS TO THE PLANS FOR APPROVAL BY THE CITY.
4. QUANTITIES SHOWN ARE FOR INFORMATION ONLY AND THE CITY OF RIVERSIDE IS NOT RESPONSIBLE FOR THEIR ACCURACY.
5. THE DEVELOPER SHALL BE RESPONSIBLE FOR PRESERVING OR RE-ESTABLISHING AND REFERENCING SURVEY MONUMENTS DESTROYED, DISTURBED OR BURIED AS A RESULT OF CONSTRUCTION SHOWN HEREON.
6. ALL FLAGGED ELEVATIONS SHALL BE STAKED IN THE FIELD BY THE PRIVATE ENGINEER.
7. ANY TRAFFIC CONTROL STRIPING OBLITERATED AND/OR BADLY WORN DURING CONSTRUCTION SHALL BE RESTORED BY THE CONTRACTOR WITHIN FIVE DAYS AFTER NOTIFICATION FROM THE CITY INSPECTOR.
8. THE CONTRACTOR SHALL CALL IN A LOCATION REQUEST TO UNDERGROUND SERVICE ALERT (USA), PHONE NO. 1-800-227-2600, TWO WORKING DAYS BEFORE DIGGING. NO CONSTRUCTION PERMIT WILL BE ISSUED BY THE PUBLIC WORKS DEPARTMENT INVOLVING EXCAVATION FOR UNDERGROUND FACILITIES UNLESS THE APPLICANT HAS BEEN PROVIDED THE INQUIRY IDENTIFICATION NUMBER BY THE USA.
9. CONTRACTOR IS TO VERIFY EXISTING SEWER ELEVATION PRIOR TO CONSTRUCTION.
10. NO FINISHED FLOOR ELEVATION SHALL BE LESS THAN 6" ABOVE THE UPPER MANHOLE RIM ELEVATION OF THE SEWER LINE SEGMENT BEING CONNECTED TO, WITHOUT HAVING A PROPER BACKWATER VALVE INSTALLED IN THE LATERAL.
11. A PLUG SHALL BE INSTALLED AND SHALL REMAIN IN PLACE WHERE THE NEW SEWER CONNECTS WITH THE EXISTING SEWER UNTIL THE NEW SEWER IS ACCEPTED BY THE CITY.
12. THE SEWER CONTRACTOR SHALL ADJUST MANHOLES TO FINAL GRADE AFTER PAVING IS COMPLETED.
13. LOCATION OF LATERALS TO BE DETERMINED IN THE FIELD AT THE DISCRETION OF THE OWNER. AVOID CONFLICT WITH PROPOSED OR EXISTING FACILITIES.

**ENGINEERS NOTES TO CONTRACTOR:**

1. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THIS PLAN ARE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES SHOWN AND ANY OTHER LINES OR STRUCTURES NOT SHOWN ON THESE PLANS.
2. ALL CONTRACTORS AND SUBCONTRACTORS PERFORMING WORK SHOWN ON OR RELATED TO THESE SHALL CONDUCT THEIR OPERATIONS SO THAT ALL EMPLOYEES ARE PROVIDED A SAFE PLACE TO WORK AND THE PUBLIC IS PROTECTED. ALL CONTRACTORS AND SUBCONTRACTORS SHALL COMPLY WITH THE "OCCUPATIONAL SAFETY AND HEALTH REGULATIONS" OF THE U.S. DEPARTMENT OF LABOR, AND THE STATE OF CALIFORNIA DEPARTMENT OF INDUSTRIAL RELATIONS "CONSTRUCTION SAFETY ORDERS".
3. THE CIVIL ENGINEER SHALL NOT BE RESPONSIBLE IN ANY WAY FOR THE CONTRACTORS' AND SUBCONTRACTORS' COMPLIANCE WITH THE "OCCUPATIONAL SAFETY AND HEALTH REGULATIONS" OF THE U.S. DEPARTMENT OF LABOR OR WITH THE STATE OF CALIFORNIA DEPARTMENT OF INDUSTRIAL RELATIONS, "CONSTRUCTION SAFETY ORDERS".
4. THE CONTRACTOR FURTHER AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY. THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT CONTRACTORS SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.

**UNAUTHORIZED CHANGES AND USES:**

THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.



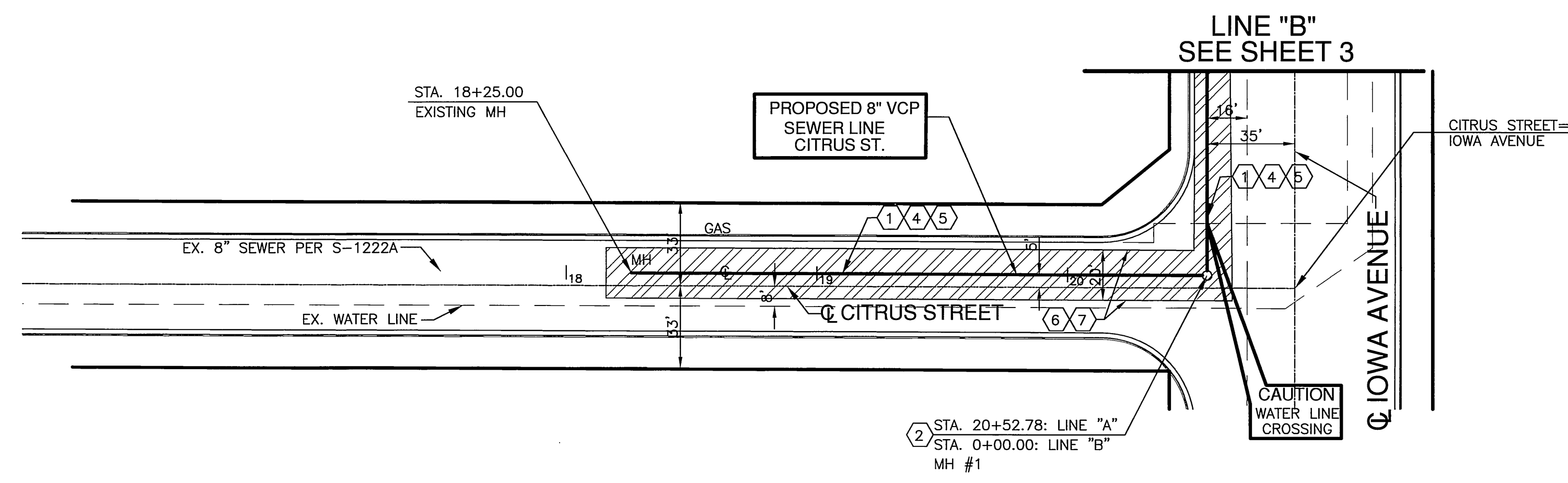
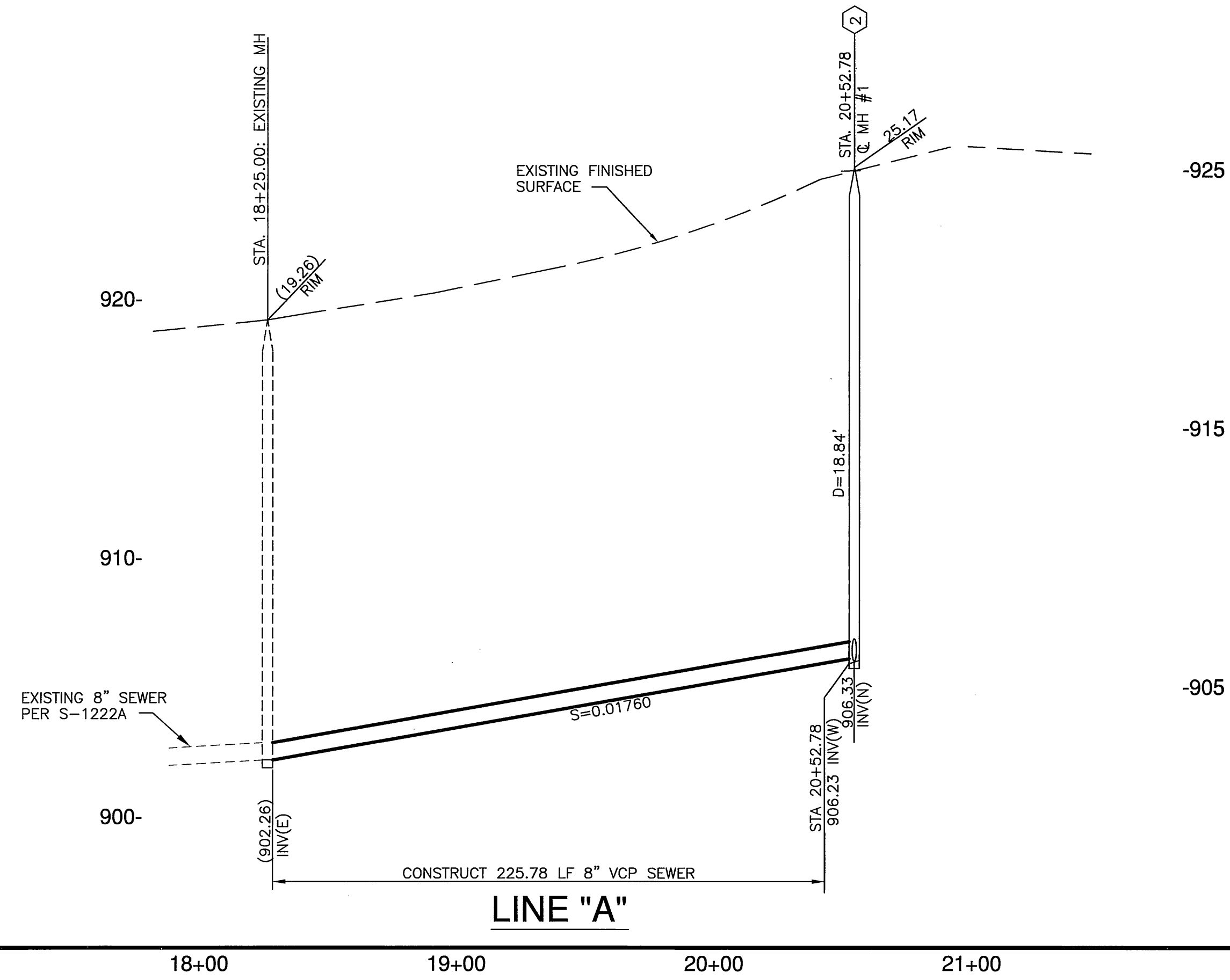
**CONSTRUCTION NOTES:**

- |    |  |           |
|----|--|-----------|
| 1  | CONSTRUCT 8" VCP SEWER LINE  | 2,935 LF  |
| 2  | CONSTRUCT PRECAST CONCRETE SEWER MANHOLE PER CITY OF RIVERSIDE STD. DWG. NO. 500 | 12        |
| 3  | CONSTRUCT 4" SEWER LATERAL WITH CLEANOUT PER CITY OF RIVERSIDE DWG. NO. 562A     | 7 EA      |
| 4  | CONSTRUCT TRENCH BACKFILL PER CITY OF RIVERSIDE STD. DWG. NO. 453                | 2,935 LF  |
| 5  | CONSTRUCT PIPE BEDDING, CASE II PER CITY OF RIVERSIDE DWG. NO. 452               | 2,935 LF  |
| 6  | CONSTRUCT 8"x4" WYE LATERAL  | 6 EA      |
| 7  | SAW CUT AND REMOVE EXISTING AC PAVEMENT  | 26,931 SF |
| 8  | CONSTRUCT AC PAVEMENT TO MATCH EXISTING SECTION                                  | 26,931 SF |
| 9  | INSTALL END CAP  | 1 EA      |
| 10 | CONSTRUCT CLEANOUT PER CITY OF RIVERSIDE STD. DWG. NO. 560                       | 1 EA      |



CITY TAX CERTIFICATE NO. 027049 EXP. 1-25-06

	BENCH MARK: JB-F2 CHISLED SQUARE AT THE SOUTH TOP OF A CATCH BASIN ON THE NORTHERLY SIDE OF CENTER STREET EAST OF TRANSIT AVENUE DATUM: 1929 ADJUSTMENT YEAR: 1971 ELEV: 952.776	CITY OF RIVERSIDE PUBLIC UTILITIES ELECTRIC DIVISION APPROVED BY: <i>[Signature]</i> 12/21/05 DATE:	Southland Engineering 2200 BUSINESS WAY, Ste. 100 RIVERSIDE, CA. 92501 (951) 788-8488 PREPARED UNDER THE SUPERVISION OF: <i>[Signature]</i> 12/21/05 ALLEN W. MARTIN R.C.E. 38463 EXP. 3-31-07	MOVE LINE 1/2" SEWER 16' SOUTH R/W 4' 6" 6' E SPRING ST.	CITY OF RIVERSIDE PUBLIC WORKS DEPARTMENT APPROVED BY: <i>[Signature]</i> 1/17/06 DATE: 1/20/06	SEWER IMPROVEMENT PLAN PM 31869 <b>TITLE SHEET</b> HORIZ. SCALE: 1" = 100'	ACCOUNT NO. PW05-0285 S-1919 SHEET <b>1</b> OF <b>5</b> 24165
	A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT		ALL SHEETS		STREET SERVICES		INDEXED 1-23-06 LHM

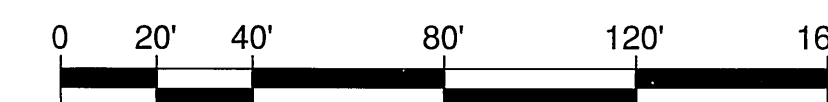


**CONSTRUCTION NOTES:**

- 1 CONSTRUCT 8" VCP SEWER LINE
- 2 CONSTRUCT PRECAST CONCRETE SEWER MANHOLE PER CITY OF RIVERSIDE STD. DWG. NO. 500
- 4 CONSTRUCT TRENCH BACKFILL PER CITY OF RIVERSIDE STD. DWG. NO. 453
- 5 CONSTRUCT PIPE BEDDING, CASE II PER CITY OF RIVERSIDE DWG. NO. 452
- 7 SAW CUT AND REMOVE EXISTING AC PAVEMENT
- 8 CONSTRUCT AC PAVEMENT TO MATCH EXISTING SECTION

**LINE "A"**

SCALE: 1" = 40'



**Southland Engineering**  
 2200 BUSINESS WAY, Ste. 100  
 RIVERSIDE, CA 92501  
 (951) 788-9488

PREPARED UNDER THE SUPERVISION OF  
*Allen V. Martin* 12/2/05  
 ALLEN V. MARTIN  
 R.C.E. 38463 EXP. 3-31-07

**CITY OF RIVERSIDE**  
 PUBLIC WORKS DEPARTMENT

APPROVED BY	DATE	BY	APPROVED BY
PRINCIPAL ENGINEER	1/18/06	AM	CITY ENGINEER
PARK DEPARTMENT			
TRAFFIC DIVISION			
STREET SERVICES			

**SEWER IMPROVEMENT PLAN**  
 PM 31869  
**PLAN AND PROFILE**  
**LINE "A"**  
 FROM STA. 18+25.00 TO 20+52.78

HORIZ. SCALE: 1" = 40' VERT. SCALE: 1" = 4'

PW05-0285

ACCOUNT NO.

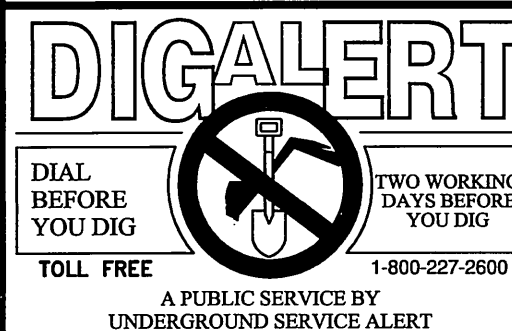
S-1919

SHEET **2** OF **5**

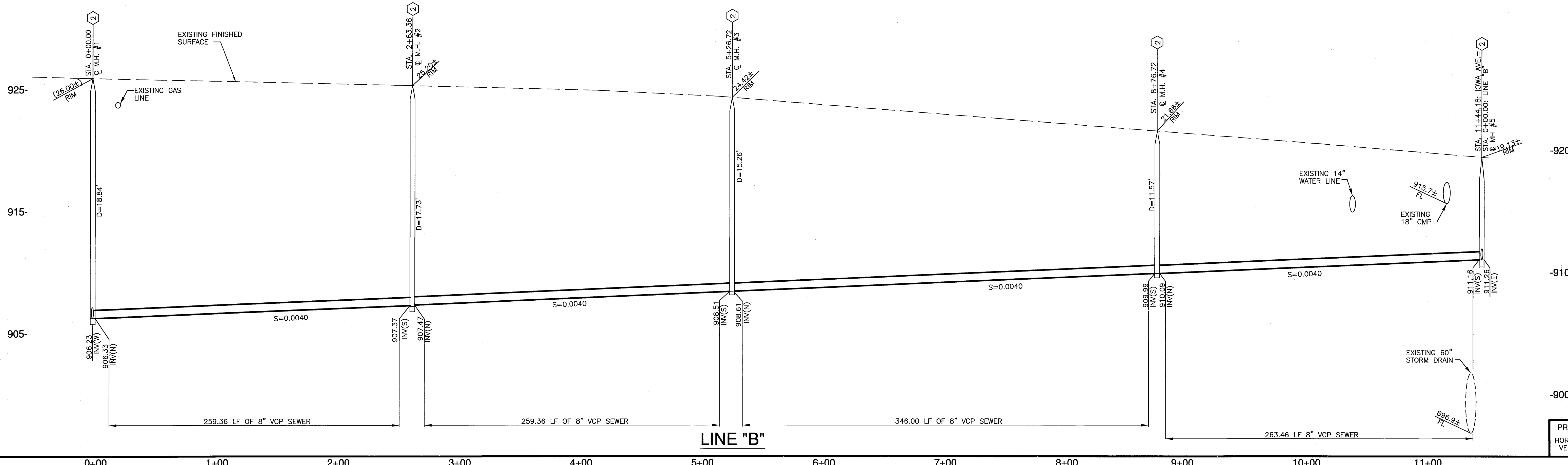
24165

INDEXED 1-23-06 4th

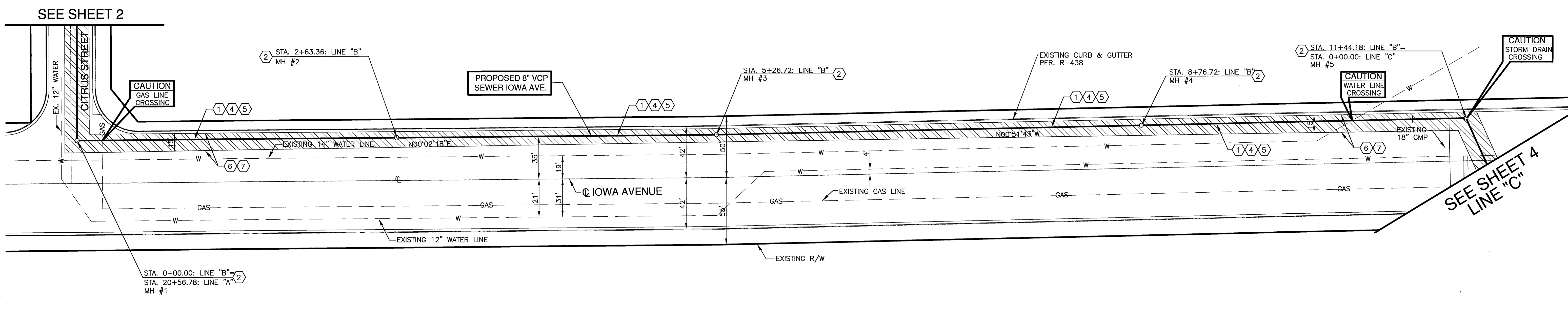
23125 (Sht. 2 sewer plan and profile) 9-2-05



BENCH MARK: J8-F2  
 CHISLED SQUARE AT THE SOUTH TOP OF A CATCH BASIN ON THE NORTHERLY SIDE OF CENTER STREET EAST OF TRANSIT AVENUE  
 DATUM: 1929 ADJUSTMENT YEAR: 1971  
 ELEV: 952.776



PROFILE SCALE  
 HORIZ. 1" = 40'  
 VERT. 1" = 4'



LINE "B"

SCALE: 1" = 40'

CONSTRUCTION NOTES:

- 1 - CONSTRUCT 8" VCP SEWER LINE
- 2 - CONSTRUCT PRECAST CONCRETE SEWER MANHOLE PER CITY OF RIVERSIDE STD. DWG. NO. 500
- 4 - CONSTRUCT TRENCH BACKFILL PER CITY OF RIVERSIDE STD. DWG. NO. 453
- 5 - CONSTRUCT PIPE BEDDING, CASE II PER CITY OF RIVERSIDE DWG. NO. 452
- 7 - SAW CUT AND REMOVE EXISTING AC PAVEMENT
- 8 - CONSTRUCT AC PAVEMENT TO MATCH EXISTING SECTION



**DIGALERT**  
 DIAL BEFORE YOU DIG  
 TOLL FREE 1-800-227-2600  
 A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT

BENCH MARK: JB-F2  
 CHISLED SQUARE AT THE SOUTH TOP OF A CATCH BASIN ON THE NORTHERLY SIDE OF CENTER STREET EAST OF TRANSIT AVENUE  
 DATUM: 1929 ADJUSTMENT YEAR: 1971  
 ELEV: 952.776

Southland Engineering  
 2200 BUSINESS WAY, STE. 100  
 RIVERSIDE, CA 92501  
 (951) 798-6488  
 PREPARED UNDER THE SUPERVISION OF  
 ALLEN W. MARTIN  
 R.C.E. 38463  
 EXP. 3-31-07

APPROVED BY: [Signature]  
 DATE: 1/21/05

MARK	REVISIONS	APPR.	DATE

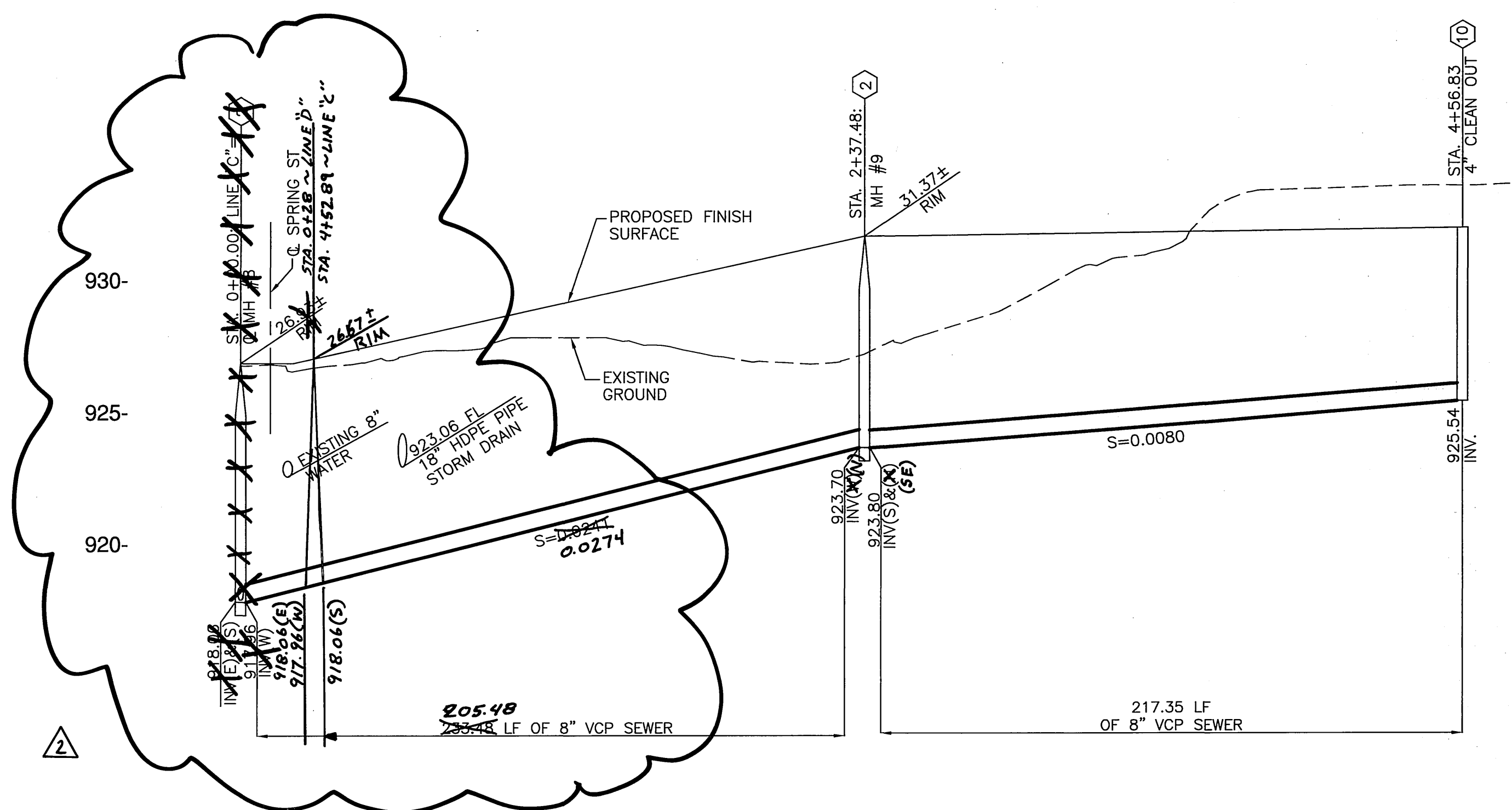
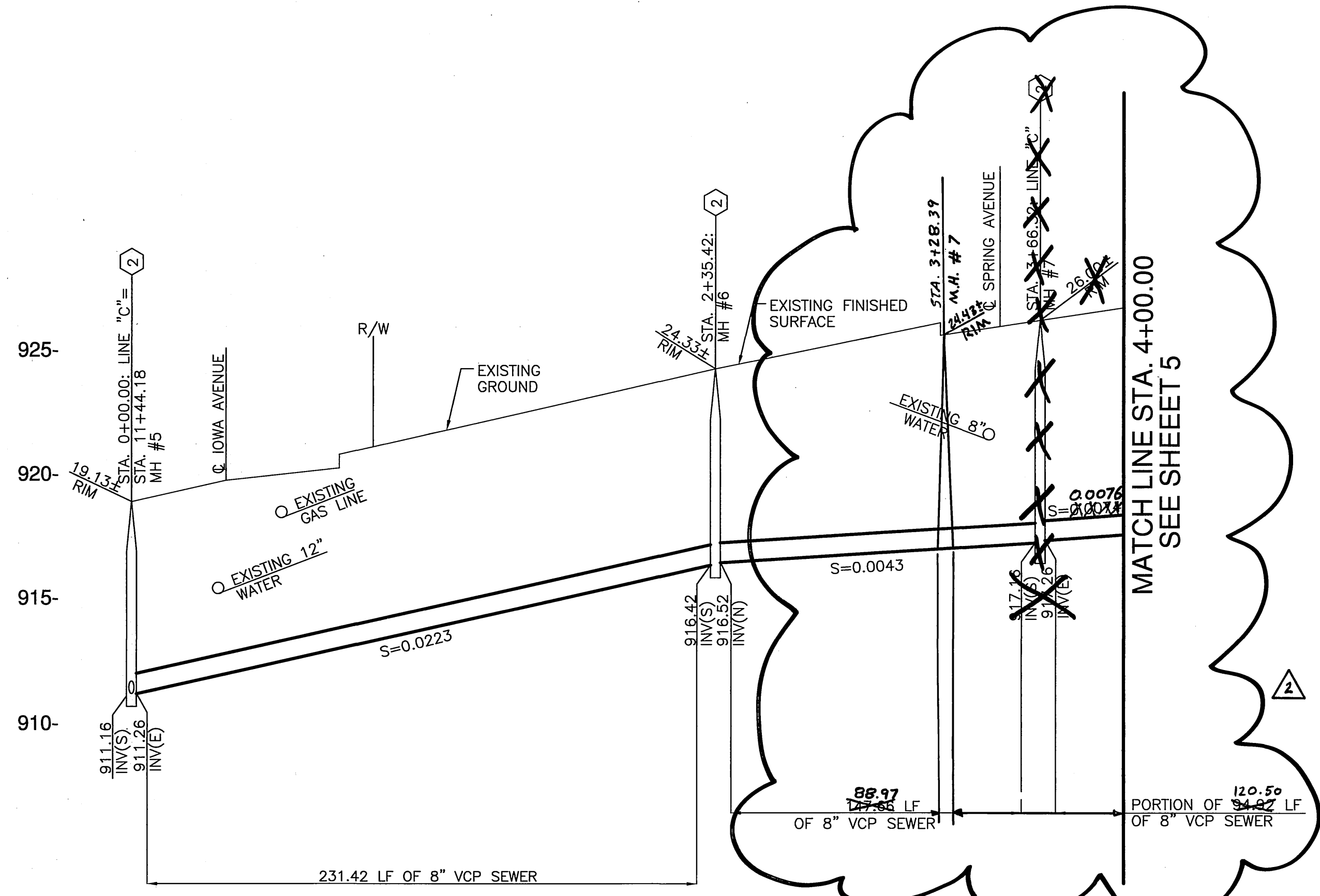
**CITY OF RIVERSIDE**  
 PUBLIC WORKS DEPARTMENT  
 APPROVED BY: [Signature]  
 DATE: 1/20/06  
 TRAFFIC DIVISION

**SEWER IMPROVEMENT PLAN**  
 PM 31869  
**PLAN AND PROFILE**  
 LINE "B"  
 FROM STA. 0+00.00 TO STA. 11+44.18  
 HORIZ. SCALE: 1" = 40'

PW05-0285  
 ACCOUNT NO.  
 S-1919  
 SHEET **3** OF **5**  
 24165

24165 (Sht. 3) Sewer Plan and Profile 9-02-05

INDEXED 1-23-06 LTH



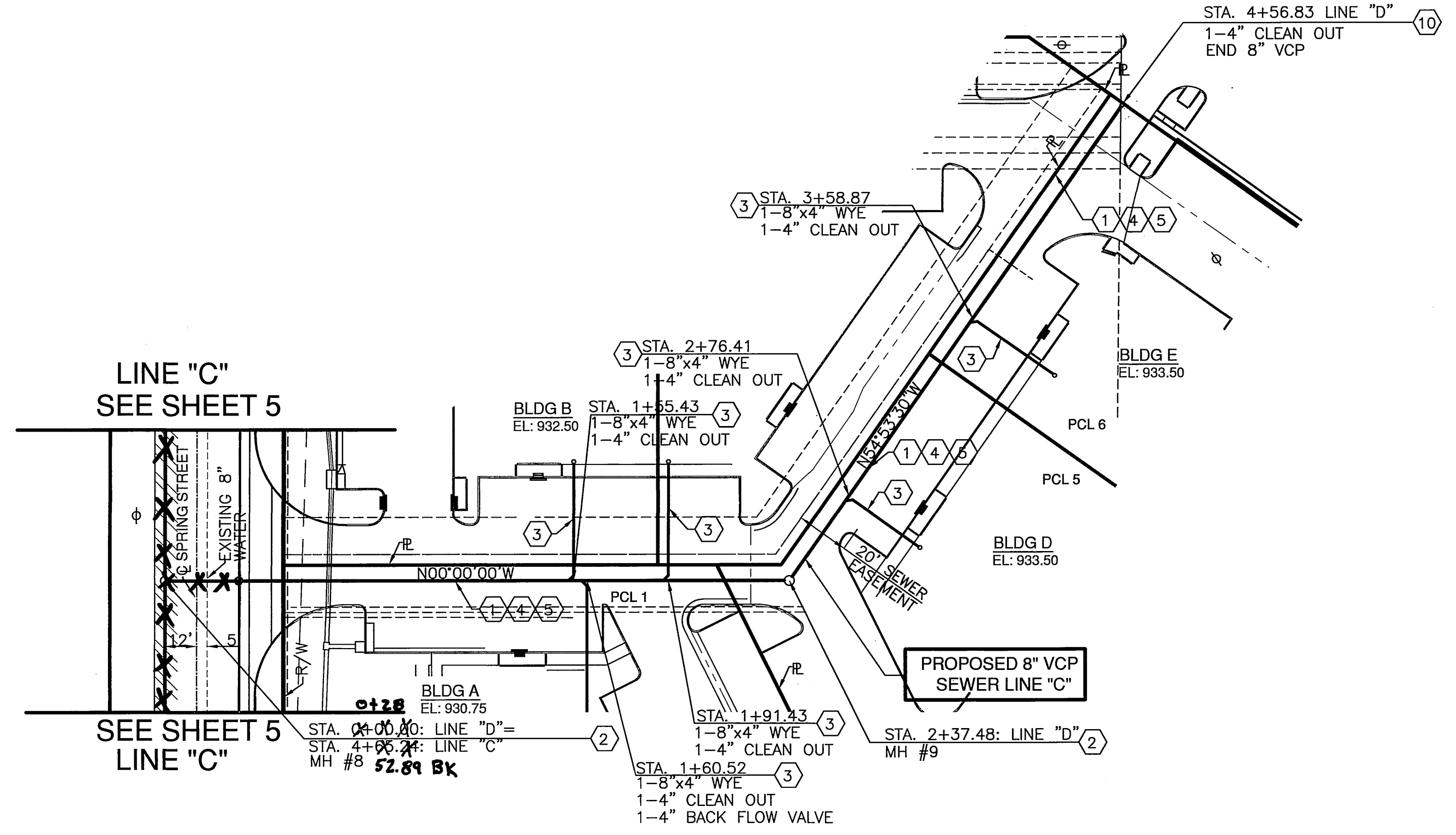
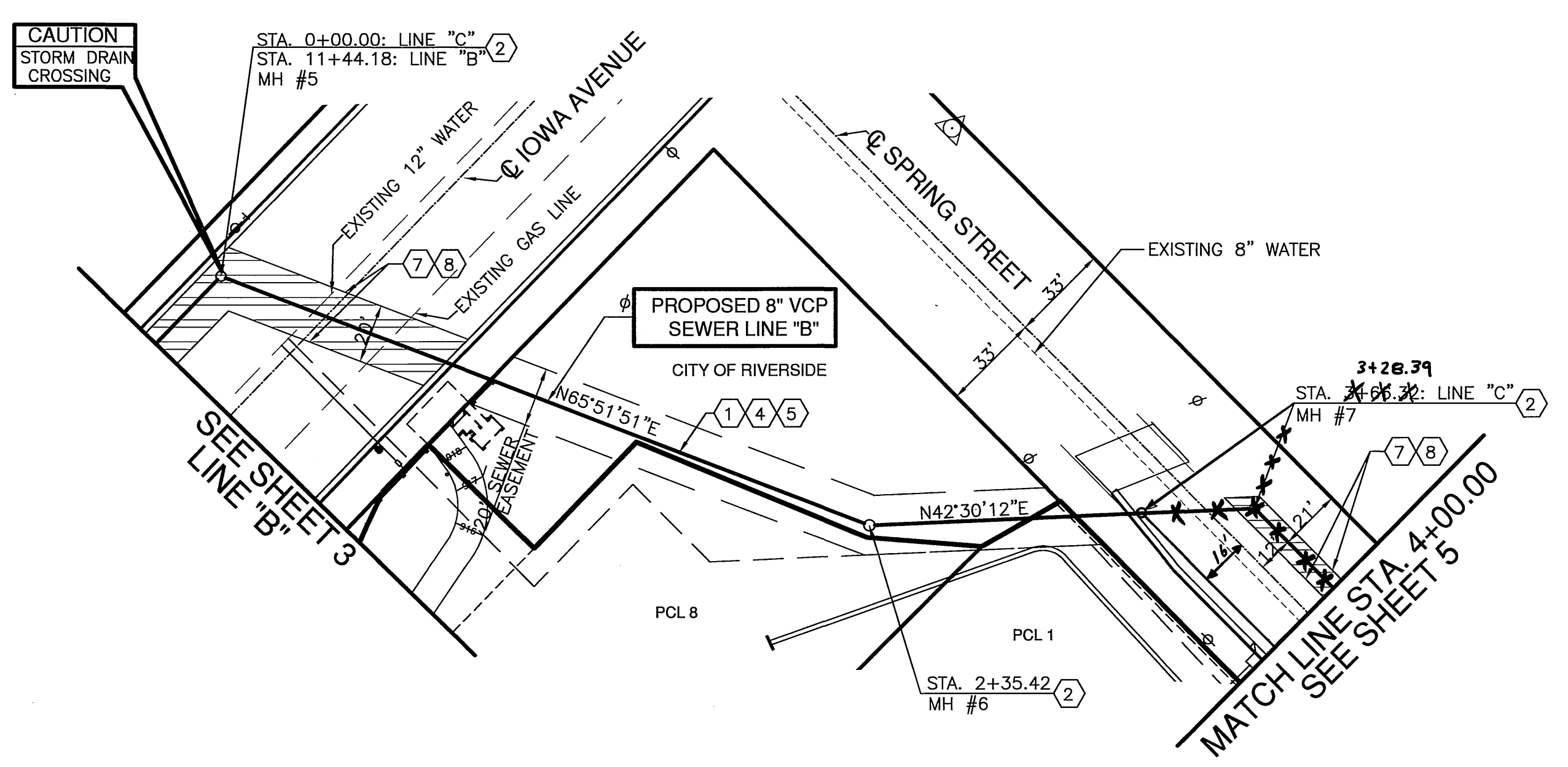
PROFILE SCALE  
 HORIZ. 1" = 40'  
 VERT. 1" = 4'

LINE "C"

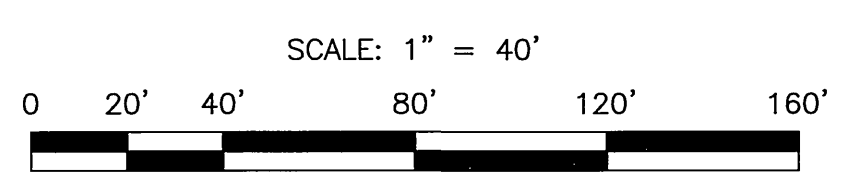
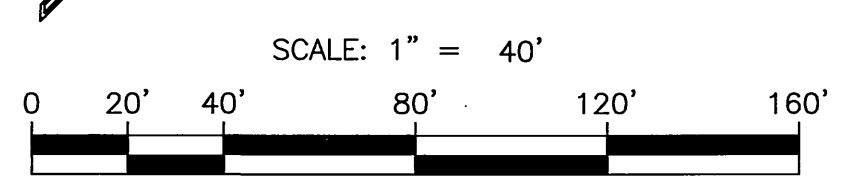
LINE "D"

0+00 1+00 2+00 3+00 4+00

0+00 1+00 2+00 3+00 4+00



- CONSTRUCTION NOTES:
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  - 3 CONSTRUCT 4" SEWER LATERAL WITH CLEANOUT PER CITY OF RIVERSIDE DWG. NO. 562
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  - 5 CONSTRUCT PIPE BEDDING, CASE II PER CITY OF RIVERSIDE DWG. NO. 452
  - 6 CONSTRUCT 8"x4" WYE LATERAL
  - 7 SAW CUT AND REMOVE EXISTING AC PAVEMENT
  - 8 CONSTRUCT AC PAVEMENT TO MATCH EXISTING SECTION
  - 10 CONSTRUCT CLEANOUT PER CITY OF RIVERSIDE STD. DWG. NO. 560



**DIGALERT**  
 DIAL BEFORE YOU DIG  
 TOLL FREE  
 A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT

BENCH MARK: J8-F2  
 CHISLED SQUARE AT THE SOUTH TOP OF A CATCH BASIN ON THE NORTHERLY SIDE OF CENTER STREET EAST OF TRANSIT AVENUE  
 DATUM: 1929 ADJUSTMENT YEAR: 1971  
 ELEV: 952.776

**Southland Engineering**  
 2200 BUSINESS WAY, Ste. 100  
 RIVERSIDE, CA 92501  
 (951) 789-8488  
 PREPARED UNDER THE SUPERVISION OF  
 ALLEN V. MARTIN  
 R.C.E. 38463

DESIGNED BY	NU	DRAWN BY	GC	CHECKED BY	AM
MARK		REVISIONS		APPR.	DATE
		1. MOVE LINE "C" SEWER 16' SOUTH OF E SPRING ST.		RJM	12/2/05

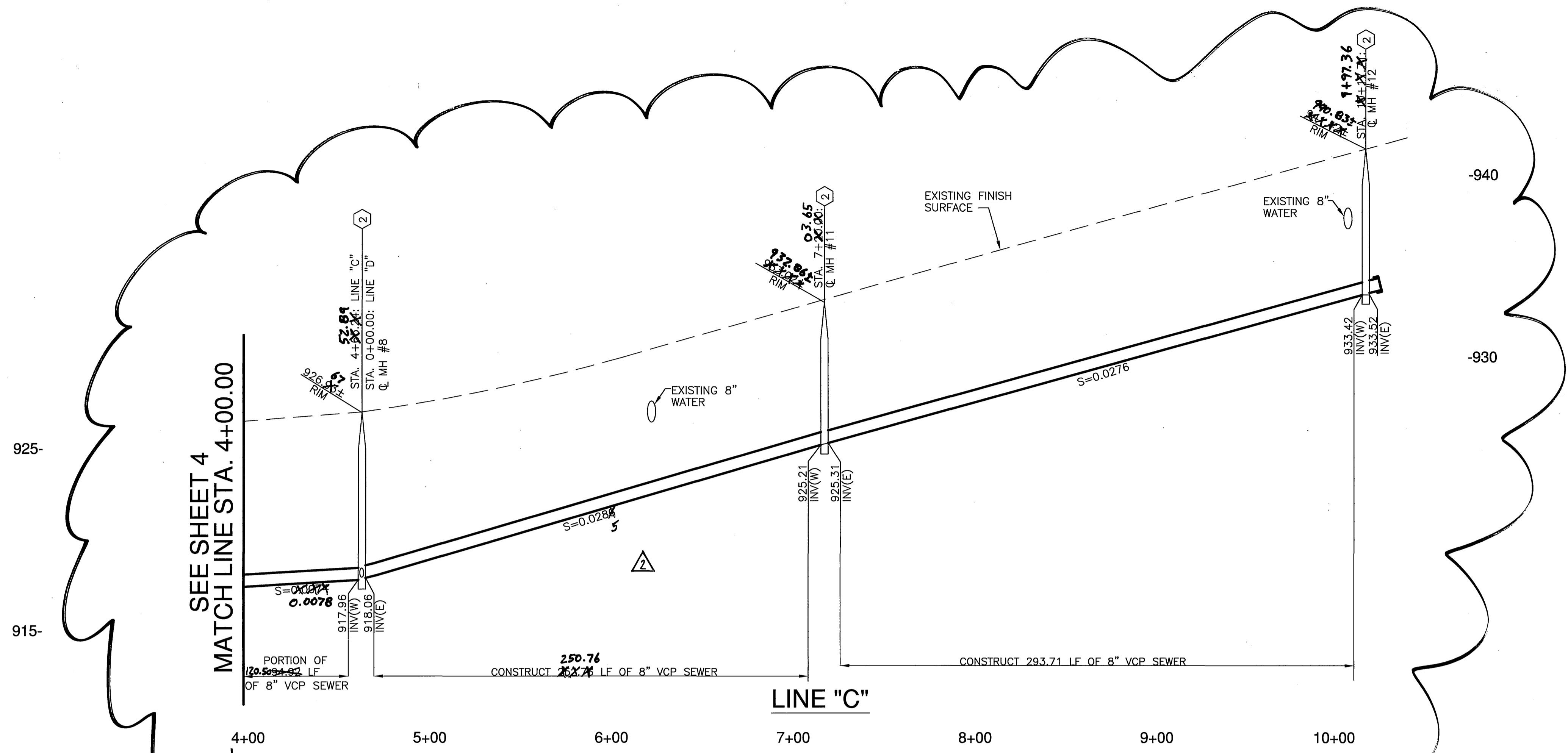
**CITY OF RIVERSIDE**  
 PUBLIC WORKS DEPARTMENT  
 APPROVED BY: [Signature] DATE: 1/20/06  
 PARK DEPARTMENT  
 TRAFFIC DIVISION  
 STREET SERVICES

**SEWER IMPROVEMENT PLAN**  
 PM 31869  
**PLAN AND PROFILE LINE "C" AND LINE "D"**  
 STA. 0+00.00 TO STA. 4+00.00/ STA. 0+00.00 TO STA. 3+68.87  
 HORIZ. SCALE: 1" = 40'

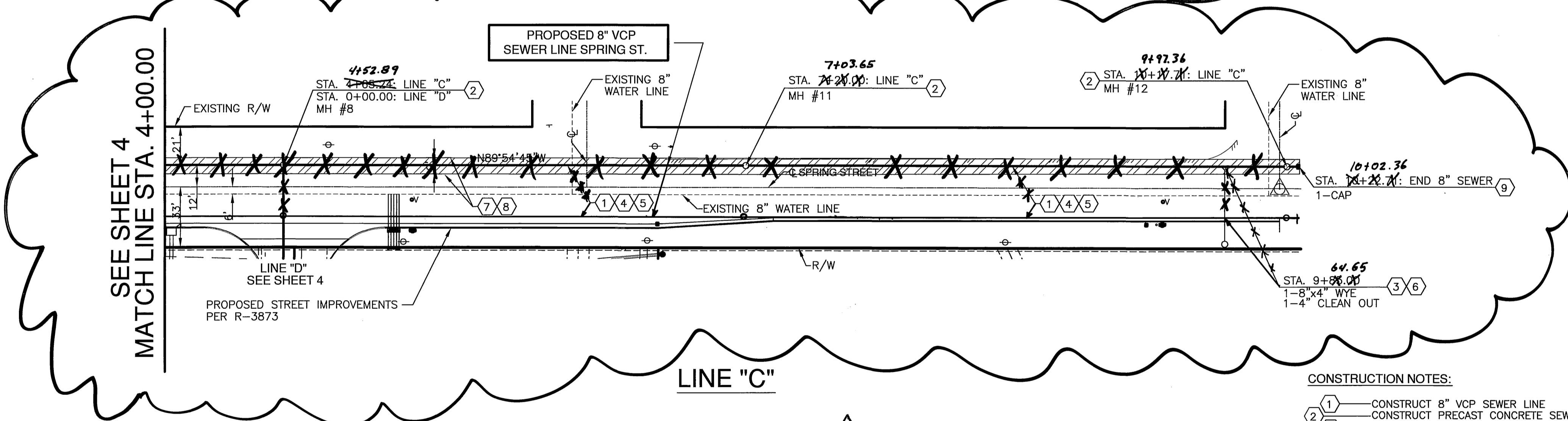
PW05-0285  
 ACCOUNT NO. S-1919  
 SHEET 4 OF 5  
 24165

23125 (sh. 3 sewer plan and profile) 9-02-05

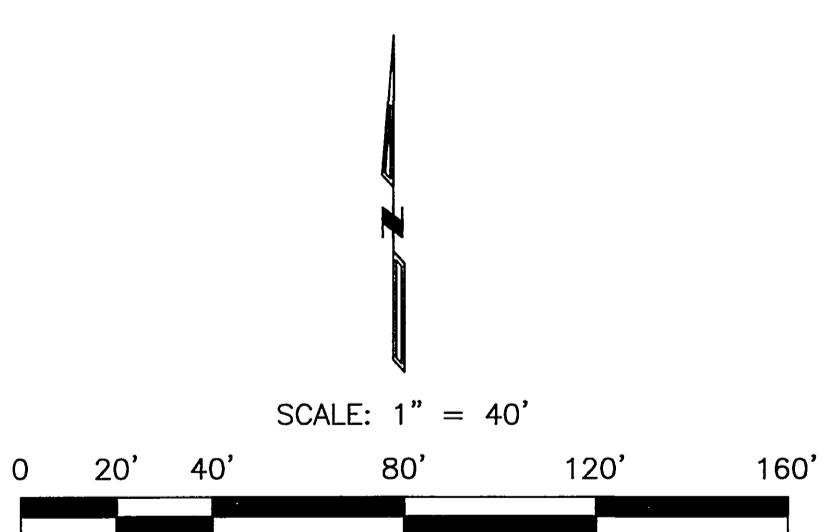
INDEXED 1-23-06 LH



PROFILE SCALE  
 HORIZ. 1" = 40'  
 VERT. 1" = 4'



- CONSTRUCTION NOTES:
- (1) — CONSTRUCT 8" VCP SEWER LINE
  - (2) — CONSTRUCT PRECAST CONCRETE SEWER MANHOLE PER CITY OF RIVERSIDE STD. DWG. NO. 500
  - (3) — CONSTRUCT 4" SEWER LATERAL WITH CLEANOUT PER CITY OF RIVERSIDE DWG. NO. 562
  - (4) — CONSTRUCT TRENCH BACKFILL PER CITY OF RIVERSIDE STD. DWG. NO. 453
  - (5) — CONSTRUCT PIPE BEDDING, CASE II PER CITY OF RIVERSIDE DWG. NO. 452
  - (6) — CONSTRUCT 8"x4" WYE LATERAL
  - (7) — SAW CUT AND REMOVE EXISTING AC PAVEMENT
  - (8) — CONSTRUCT AC PAVEMENT TO MATCH EXISTING SECTION
  - (9) — INSTALL END CAP



23125 (sht 3 sewer plan and profile) 8-2-05

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 PREPARED UNDER THE SUPERVISION OF  
 ALLEN V. MARTIN  
 R.C.E. 98463 EXP. 3-31-07

APPROVED BY: *[Signature]* 12/21/05  
 RIZ 4666

MARK	REVISIONS	APPR.	DATE

**CITY OF RIVERSIDE**  
 PUBLIC WORKS DEPARTMENT  
 APPROVED BY: *[Signature]* DATE: 1/2/06  
 PRINCIPAL ENGINEER  
 PARK DEPARTMENT  
 TRAFFIC DIVISION  
 CITY ENGINEER

**SEWER IMPROVEMENT PLAN**  
 PM 31869  
**PLAN AND PROFILE**  
**LINE "C"**  
 FROM STA. 4+00.00 TO STA. 10+14.00  
 HORIZ. SCALE: 1" = 40'

PW05-0285  
 ACCOUNT NO. S-1919  
 SHEET 5 OF 5  
 24165

INDEXED 1-23-06 LHM