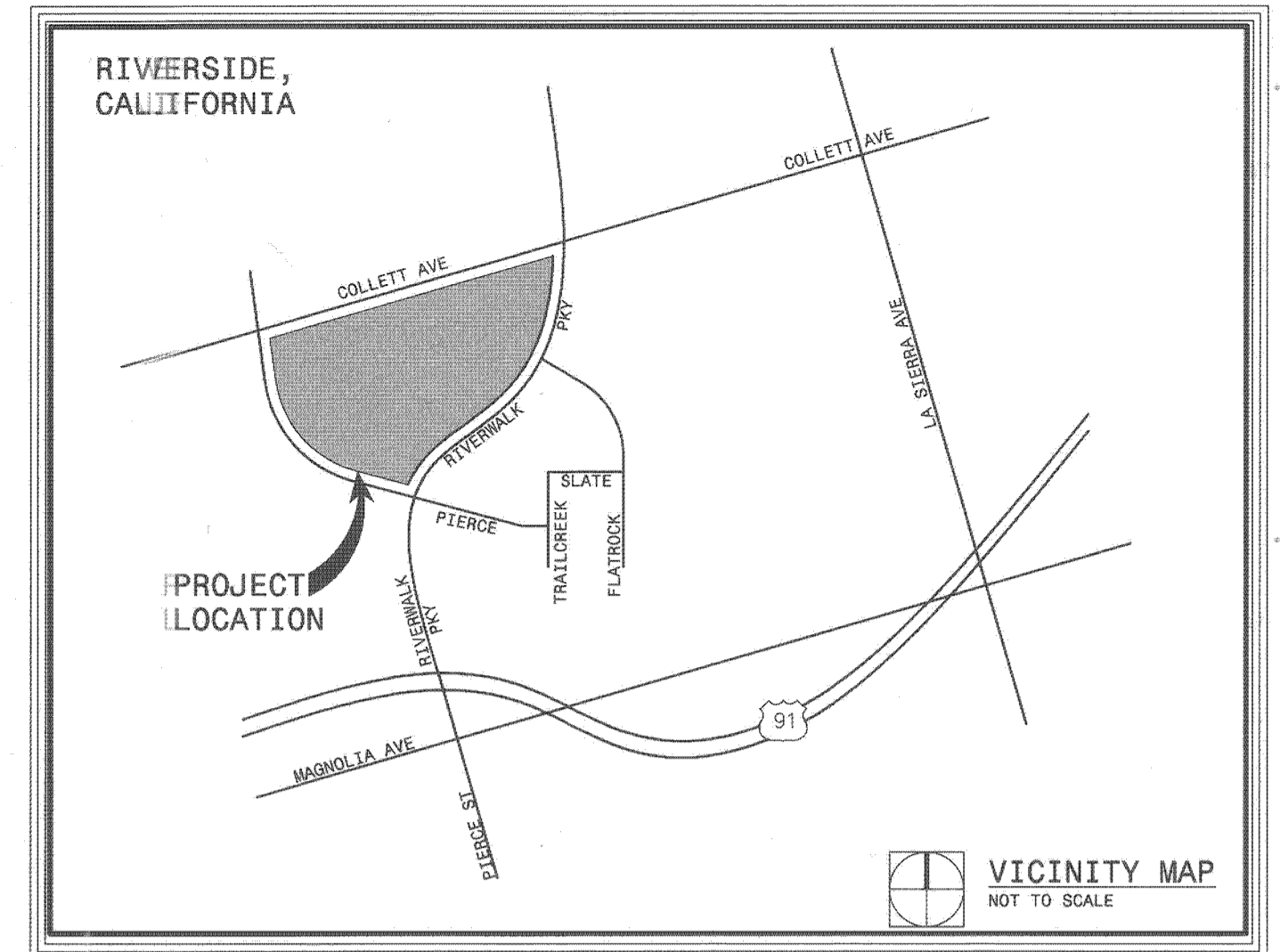


# SEWER IMPROVEMENT PLAN FOR: RIVERWALK BUSINESS CENTER PHASE 5, PARCEL MAP NO. 34975 IN THE CITY OF RIVERSIDE, CA

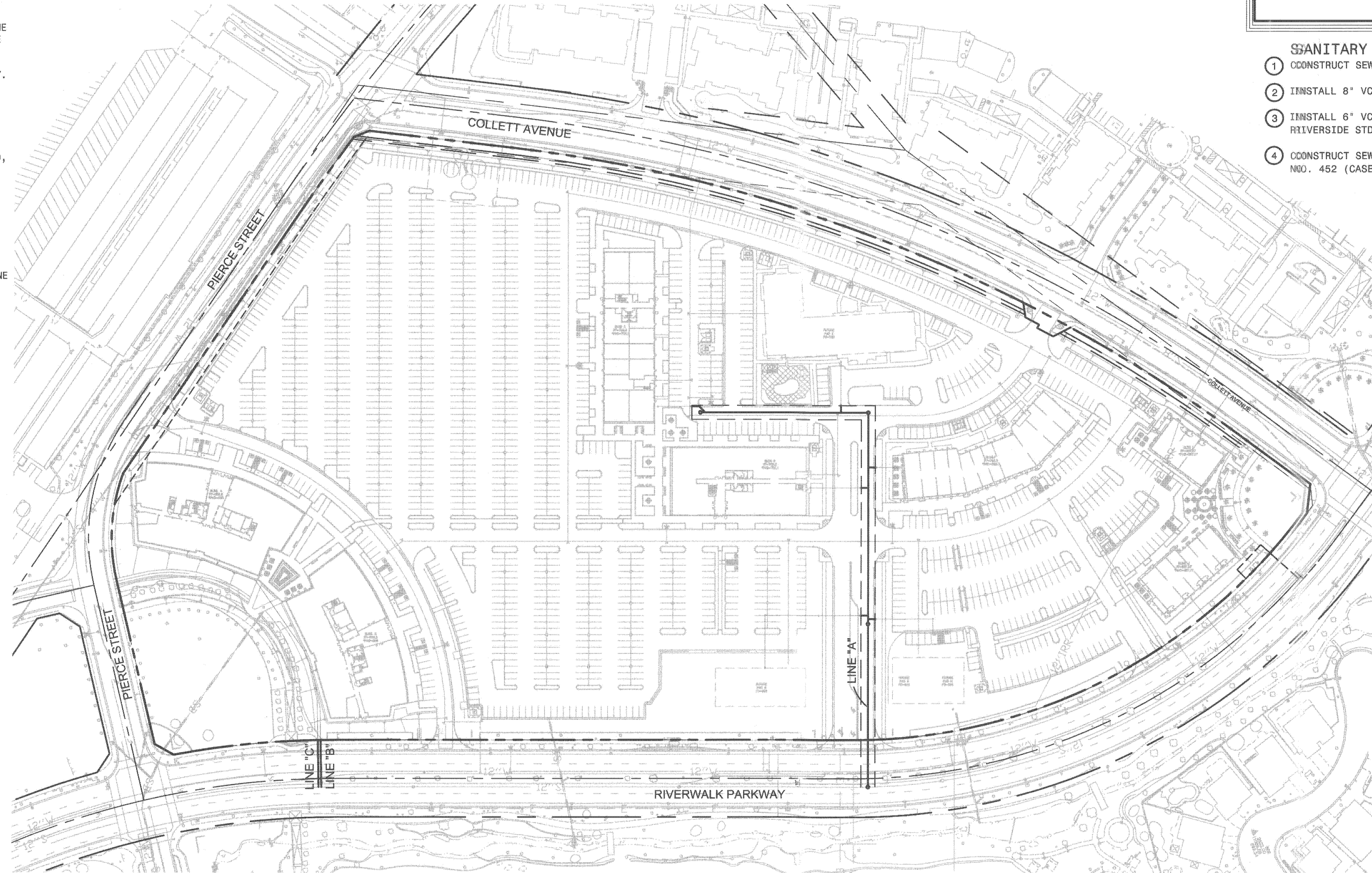
**GENERAL NOTES**

1. NO PERSON SHALL PERFORM ANY CONSTRUCTION ACTIVITY OR INSTALL ANY OBJECT WITHIN THE PUBLIC RIGHT-OF-WAY OR EASEMENTS OF THE CITY OF RIVERSIDE WITHOUT A VALID CONSTRUCTION PERMIT OR, A STREET OPENING PERMIT OR AN ENCROACHMENT PERMIT ISSUED BY THE CITY'S PUBLIC WORKS DEPARTMENT.
2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CLEAR THE RIGHT OF WAY IN ACCORDANCE WITH THE PROVISIONS OF LAW AS IT AFFECTS EACH UTILITY INCLUDING IRRIGATION LINES AND APPURTENANCES AND AT NO COST TO THE CITY.
3. 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.
4. THE PRIVATE ENGINEER SIGNING THESE PLANS IS RESPONSIBLE FOR ASSURING THE ACCURACY AND ACCEPTABILITY OF THE WORK HEREON. IN THE EVENT OF DISCREPANCIES ARISING DURING THE CONSTRUCTION, THE PRIVATE ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING AN ACCEPTABLE SOLUTION AND REVISING THE PLANS FOR APPROVAL.
5. QUANTITIES SHOWN ARE FOR INFORMATION ONLY AND THE CITY OF RIVERSIDE IS NOT RESPONSIBLE FOR THEIR ACCURACY.
6. 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.
7. ALL FLAGGED ELEVATIONS SHALL BE STAKED IN THE FIELD BY THE PRIVATE ENGINEER.
8. THE CONTRACTOR SHALL CALL IN A LOCATION REQUEST TO UNDERGROUND SERVICE ALERT (USA), PHONE #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 AN INQUIRY IDENTIFICATION NUMBER BY U.S.A.
9. CONTRACTOR IS TO VERIFY EXISTING SEWER ELEVATION PRIOR TO CONSTRUCTION.
10. LOCATION OF LATERALS TO BE DETERMINED IN THE FIELDS AT THE DIRECTION OF THE OWNER. AVOID CONFLICT WITH PROPOSED AND/OR EXISTING FACILITIES.
11. NO FINISHED FLOOR ELEVATION SHALL BE LESS THAN 6" ABOVE THE UPPER MANHOLE RIM ELEVATION OF THE SEWER LINE SEGMENT BEING CONSTRUCTED TO, WITHOUT HAVING A PROPER BACKWATER VALVE INSTALLED IN THE LATERAL.
12. A PLUG SHALL BE INSTALLED AND WILL REMAIN IN PLACE WHERE THE NEW SEWER CONNECTS WITH THE EXISTING SEWER UNTIL THE NEW SEWER IS ACCEPTED BY THE CITY.
13. THE SEWER CONTRACTOR SHALL ADJUST MANHOLES TO FINAL GRADE AFTER PAVING IS COMPLETED.



**SANITARY SEWER CONSTRUCTION NOTES:**

NO.	DESCRIPTION	UNITS
1	CONSTRUCT SEWER MANHOLE PER CITY OF RIVERSIDE STD. DWG. NO. 500	4 EA
2	INSTALL 8" VCP SEWER LINE	780 LF
3	INSTALL 6" VCP SEWER LATERAL W/ PL CLEAN OUT PER CITY OF RIVERSIDE STD. DWG. NO 562A	210 LF/8 EA
4	CONSTRUCT SEWER MAIN BEDDING PER CITY OF RIVERSIDE STD. DWG. NO. 452 (CASE I, LOAD FACTOR 1.5)	800 LF



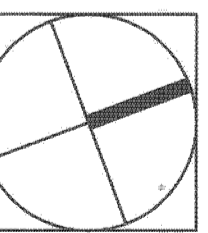
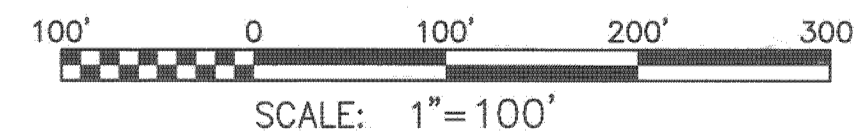
**NOTICE TO CONTRACTORS**

CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERAL CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD HARMLESS THE CIVIL ENGINEER FROM ANY AND ALL LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE CIVIL ENGINEER.

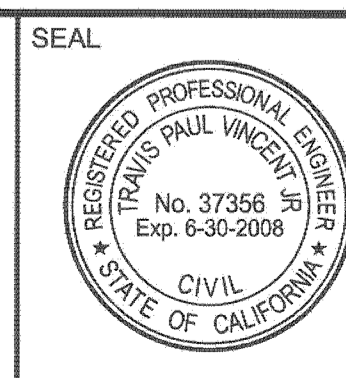
ALL CONTRACTORS AND SUBCONTRACTORS PERFORMING WORK SHOWN ON OR RELATED TO THESE PLANS SHALL CONDUCT THEIR OPERATIONS SO THAT EMPLOYEES ARE PROVIDED A SAFE PLACE TO WORK AND THE PUBLIC PROTECTED. ALL CONTRACTORS AND SUBCONTRACTORS SHALL COMPLY WITH THE "OCCUPATIONAL SAFETY AND HEALTH REGULATIONS" OF THE US DEPARTMENT OF LABOR AND WITH THE STATE OF CALIFORNIA DEPARTMENT OF INDUSTRIAL RELATIONS "CONSTRUCTION SAFETY ORDERS". THE CIVIL ENGINEERS SHALL NOT BE RESPONSIBLE IN ANY WAY FOR THE CONTRACTORS COMPLIANCE WITH SAID REGULATIONS AND ORDERS.

PUBLIC UTILITY DEPARTMENT - WATER

APPROVED BY: *[Signature]* DATE: 3/27/07



**PRIVATE ENGINEERING NOTE**  
CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.



PREPARED UNDER THE SUPERVISION OF:  
*[Signature]*  
TRAVIS P. VINCENT JR.  
REGISTERED CIVIL ENGINEER NO. 37356  
EXPIRATION DATE: 06-30-2008 DATE: 3/22/07

**CANYON CONSULTING**  
PLANNING • ENGINEERING • SURVEYING  
11860 PIERCE ST, SUITE 200, RIVERSIDE, CA 92505  
951/943-8886 VOICE, 951/943-8881 FAX  
CITY BUSINESS TAX CERTIFICATE NO.: 119928 EXP. DATE: 04-01-07  
BENCHMARK: CITY OF RIVERSIDE BENCHMARK E2-B2, BRASS DISC STAMPED E2-B IN CONCRETE IN CENTER OF A TRAFFIC ISLAND AT THE NORTHWEST CORNER OF PIERCE STREET AND AMBS DRIVE ELEV=726.776 NGVD 29

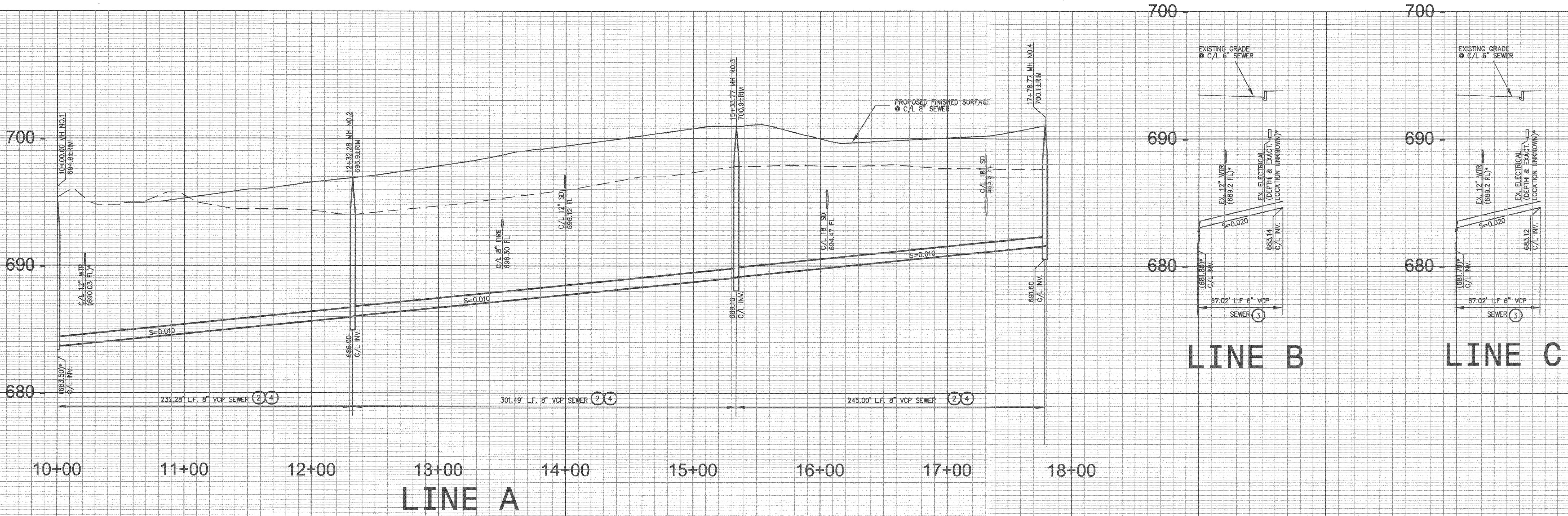
MARK	REVISIONS	APPR.	DATE

DESIGNED BY: T.V.P. DRAWN BY: R.S. CHECKED BY: T.V.P.

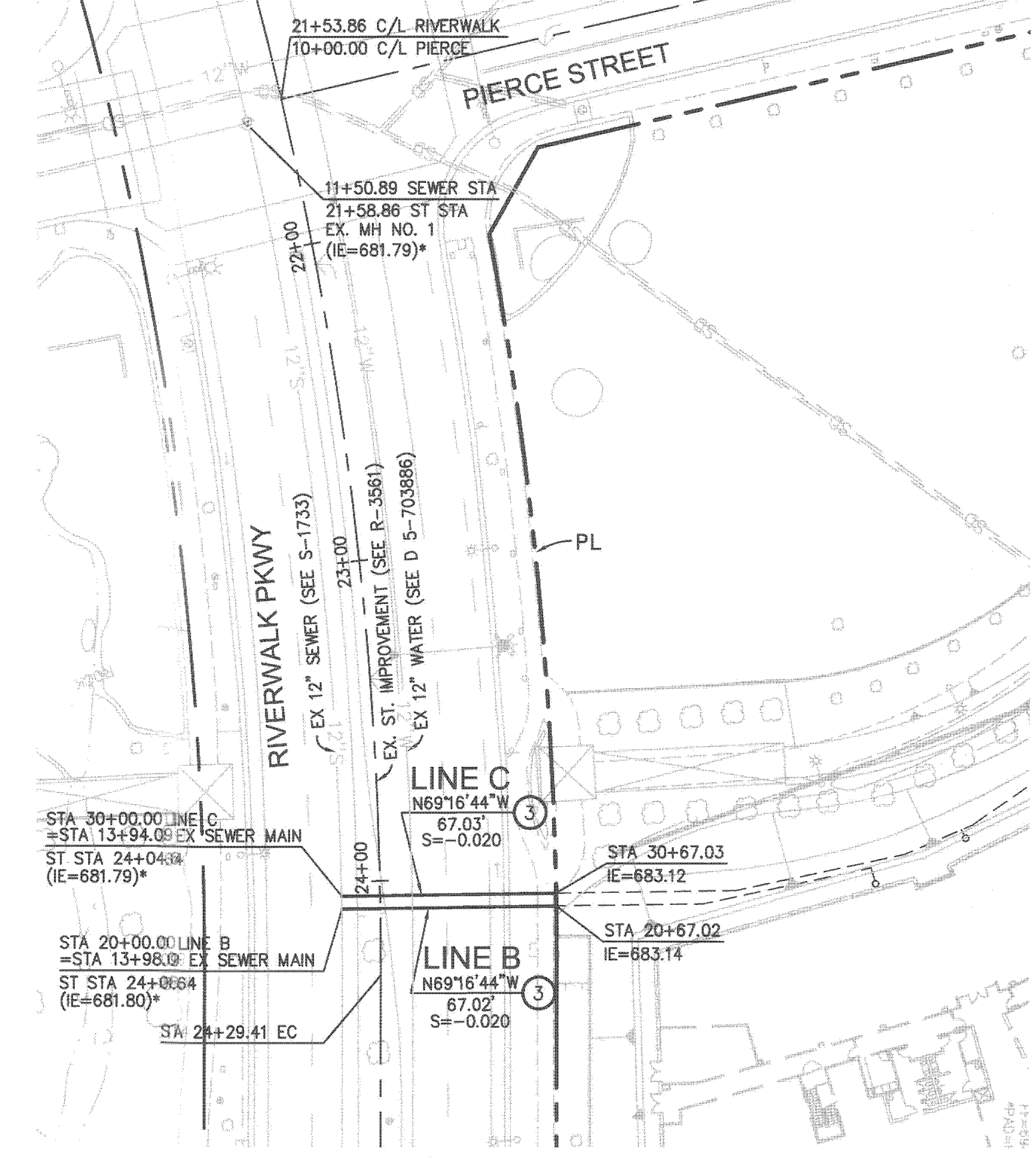
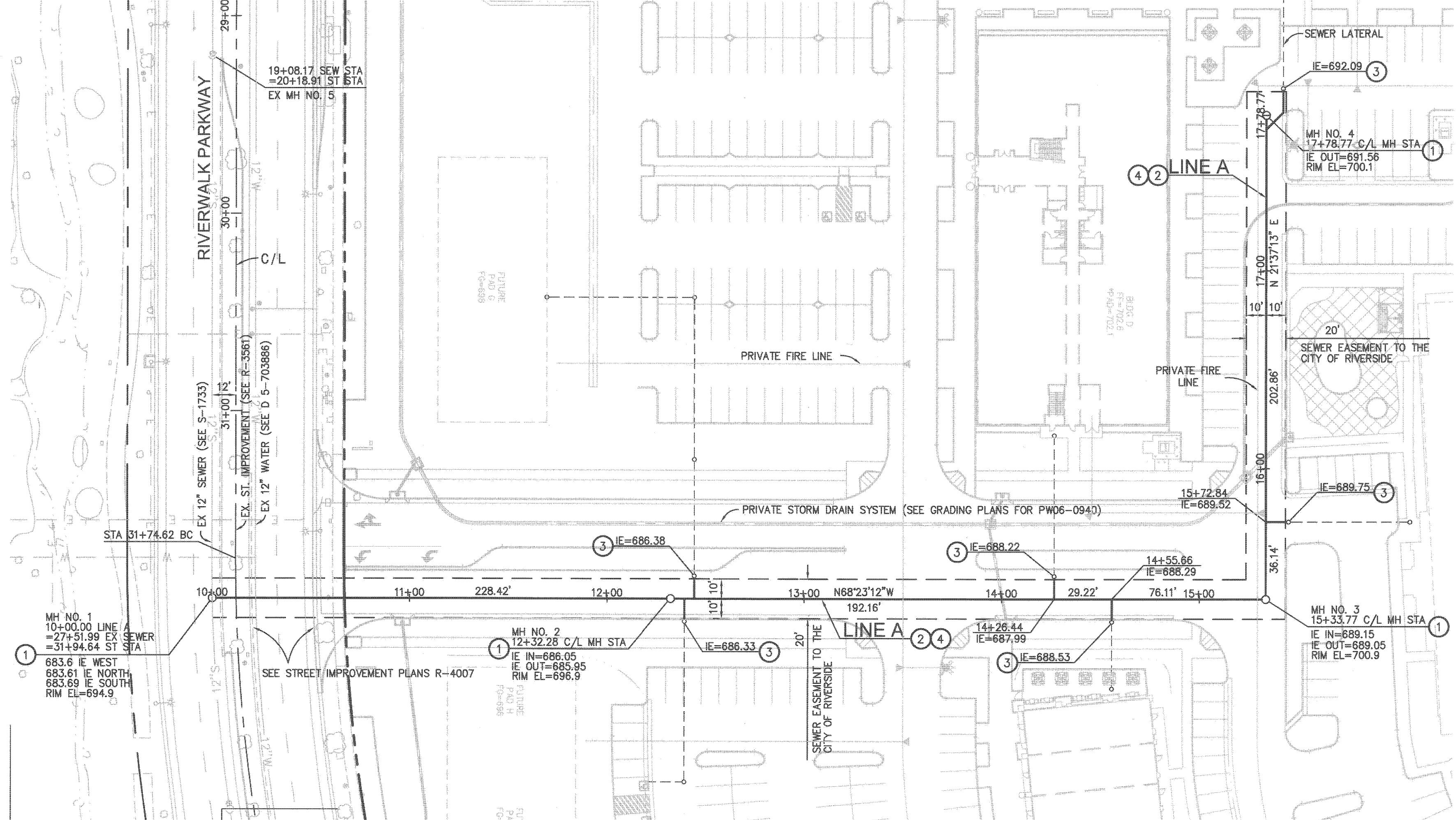
**CITY OF RIVERSIDE PUBLIC WORKS DEPARTMENT**  
APPROVED BY: *[Signature]* DATE: 4/1/07  
PRINCIPAL ENGINEER  
APPROVED BY: *[Signature]* DATE: 4/1/07  
CITY ENGINEER

IN THE CITY OF RIVERSIDE, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA  
**PM NO. 34975**  
**SEWER IMPROVEMENT PLAN**  
HORIZ. SCALE: AS SHOWN VERT. SCALE: AS SHOWN

PW06-0981  
DWG NO. **S-2017**  
DATE: 03/22/2007  
SHEET **1** OF 2 SHEETS  
FILE NO:

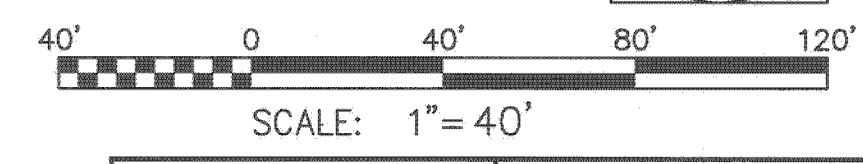


PROFILE SCALES  
 HORIZ: 1" = 40'  
 VERT: 1" = 4'



- SANITARY SEWER CONSTRUCTION NOTES:**
1. CONSTRUCT SEWER MANHOLE PER CITY OF RIVERSIDE STD. DWG. NO. 500
  2. INSTALL 8" VCP SEWER LINE
  3. INSTALL 6" VCP SEWER LATERAL W/ PL CLEAN OUT PER CITY OF RIVERSIDE STD. DWG. NO. 562A
  4. CONSTRUCT SEWER MAIN BEDDING PER CITY OF RIVERSIDE STD. DWG. NO. 452 (CASE I, LOAD FACTOR 1.5)

\*NOTE: CONTRACTOR TO VERIFY ELEVATION PRIOR TO THE START OF CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES



**PRIVATE ENGINEERING NOTE**  
 CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.



PREPARED UNDER THE SUPERVISION OF:  
 Travis P. Vincent Jr.  
 REGISTERED CIVIL ENGINEER NO. 37356  
 EXPIRATION DATE: 06-30-2008 DATE: 3/22/07

**CANYON CONSULTING**  
 PLANNING • ENGINEERING • SURVEYING  
 11860 PIERCE ST., SUITE 200, RIVERSIDE, CA 92505  
 951/843-8688 VOICE, 951/843-8831 FAX  
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MARK	REVISIONS	APPR.	DATE

**CITY OF RIVERSIDE PUBLIC WORKS DEPARTMENT**  
 APPROVED BY: [Signature]  
 PRINCIPAL ENGINEER DATE: 4/19/07  
 APPROVED BY: [Signature]  
 CITY ENGINEER DATE: 4/19/07

IN THE CITY OF RIVERSIDE, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA  
**PM NO. 34975**  
**SEWER IMPROVEMENT PLAN**  
**SEWER LINE A, B, & C**  
 HORIZ. SCALE: 1"=40' VERT. SCALE: 1"=4'

PW06-0981  
 DWG NO. S-2017  
 DATE: 03/22/2007  
 SHEET 2 OF 2 SHEETS  
 FILE NO: INDEXED 4-30-07