

SEWER IMPROVEMENT PLANS

FOR
PARCEL MAP 33061
IN THE
CITY OF RIVERSIDE

SEWER NOTES:

1. SEWER PROFILE ELEVATIONS ARE TO FLOW LINE (CONDUIT INVERT).
2. ALL STATIONS ARE SEWER CENTERLINE STATIONS.
3. 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.
4. PRIOR TO CONSTRUCTION OF SEWER, CONTRACTOR SHALL EXPOSE EXISTING SEWER AND VERIFY ITS EXISTING ELEVATION AND LOCATION.
5. ALL FLAGGED ELEVATIONS SHALL BE STAKED IN THE FIELD BY THE PRIVATE ENGINEER.
6. 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.
7. 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.
8. MANHOLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. DWG. 500.
9. THE SEWER CONTRACTOR SHALL ADJUST ALL MANHOLE COVERS TO FINAL GRADE AFTER PAVING IS COMPLETED.
10. SEWER LATERALS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. DWG. 562. LOCATIONS OF WYES AND LATERALS, WHERE NOT SHOWN ON THE PLANS, ARE TO BE DETERMINED IN THE FIELD PRIOR TO CONSTRUCTION, TO MISS DRIVEWAYS AND PROPOSED OR EXISTING FACILITIES.
11. WHERE GROUNDWATER IS ENCOUNTERED, ALL V.C.P. PIPE SHALL BE TREATED FOR ABSORPTION RESISTANCE WITH A MINIMUM 3% (BY WEIGHT) SOLUTION OF DOW-CORNING 722 SILICON OR A MINIMUM 4% BY VOLUME OF POLYVINYL ACRYLIC EMULSION. APPLICATION SHALL BE BY TOTAL IMMERSION.
12. 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.
13. QUANTITIES SHOWN ARE FOR INFORMATION ONLY AND THE CITY OF RIVERSIDE IS NOT RESPONSIBLE FOR THEIR ACCURACY.
14. 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 CONSTRUCTION, THE PRIVATE ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING AN ACCEPTABLE SOLUTION AND REVISING THE PLANS FOR APPROVAL BY THE CITY.
15. 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 AN INQUIRY IDENTIFICATION NUMBER BY U.S.A.
16. THE DEVELOPER SHALL BE RESPONSIBLE FOR PRESERVING OR RE-ESTABLISHING AND REFERENCING SURVEY MONUMENTS DESTROYED, DISTURBED OR BURIED AS A RESULT OF CONSTRUCTION SHOWN THEREON.
17. 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 PERMIT OR, A STREET OPENING PERMIT OR AN ENCROACHMENT PERMIT ISSUED BY THE CITY'S PUBLIC WORKS DEPARTMENT.

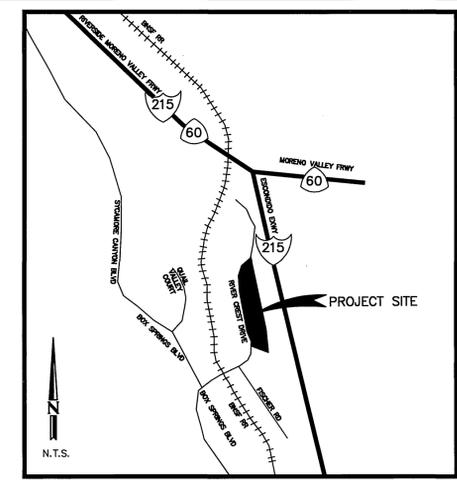
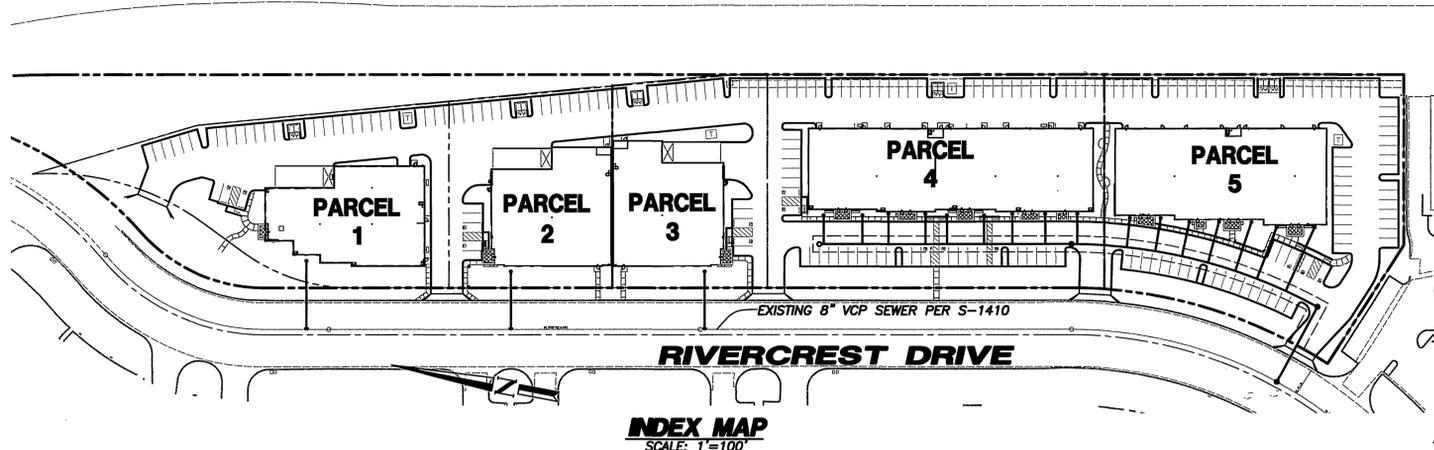
UNDERGROUND UTILITIES AND STRUCTURES:

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITIES OR STRUCTURES SHOWN IN THESE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO EXISTING UTILITIES EXCEPT THOSE SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE ALL PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES SHOWN, AND IS RESPONSIBLE FOR THE PROTECTION OF, AND ANY DAMAGE TO THESE LINES OR STRUCTURES.

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

PRIVATE ENGINEER'S NOTICE TO CONTRACTOR'S

THE CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR 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.



LEGEND	
●	ADDRESS SIGN LOCATION
◻	REDUCED PRESSURE DETECTOR ASSEMBLY
⊗	GATE VALVE
△	THRUST BLOCK
□	WATER METER
●	FIRE HYDRANT
●	BLOW OFF ASSEMBLY
⊗	BACKFLOW DEVICE
STA.	STATION
R/W	RIGHT OF WAY
FLG.	FLANGE
TYP.	TYPICAL
EL.	ELBOW
BC	BEGIN CURVE
EC	END CURVE
C	CENTER LINE
INV.	INVERT ELEVATION
SWR	SEWER
MIN.	MINIMUM
GB	GRADE BREAK
W.S.	WATER SERVICE
Y	FIRE DEPARTMENT CONNECTION
—	PROP. WATER MAIN
—	PROP. WATER SERVICE
10'	DIMENSION LINE
—	CENTER LINE
—	CURB AND GUTTER
—	RIGHT OF WAY
—	PROPERTY LINE
—	FLOW LINE
G	GAS LINE
W	WATER LINE
SD	STORM DRAIN LINE
○	OIL LINE
S	SEWER LINE
—	PROP. SEWER MAIN

NOTICE TO CONTRACTOR

CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AND SHALL REPORT ALL DISCREPANCIES TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.

PRIOR TO CONSTRUCTION OF ANY CONCRETE STRUCTURE, THE CONTRACTOR SHALL VERIFY WITH THE SOILS ENGINEER, THE TYPE OF CONCRETE RECOMMENDED.

EXISTING UNDERGROUND STRUCTURES: THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES OR CONDUITS SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF THE 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 THE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNERS OF THE UTILITIES OR STRUCTURES CONCERNED BEFORE STARTING WORK. CONTRACTOR FURTHER ASSUMES ALL LIABILITY AND RESPONSIBILITY FOR THE UNDERGROUND UTILITY PIPES, CONDUITS OR STRUCTURES SHOWN OR NOT SHOWN ON THESE PLANS.

INDEX OF DRAWINGS

SHEET NUMBER	DESCRIPTION
1	TITLE SHEET
2	SEWER PLAN AND PROFILE

Underground Service Alert

CALL BEFORE YOU DIG

Call: TOLL FREE
1-800
227-2600

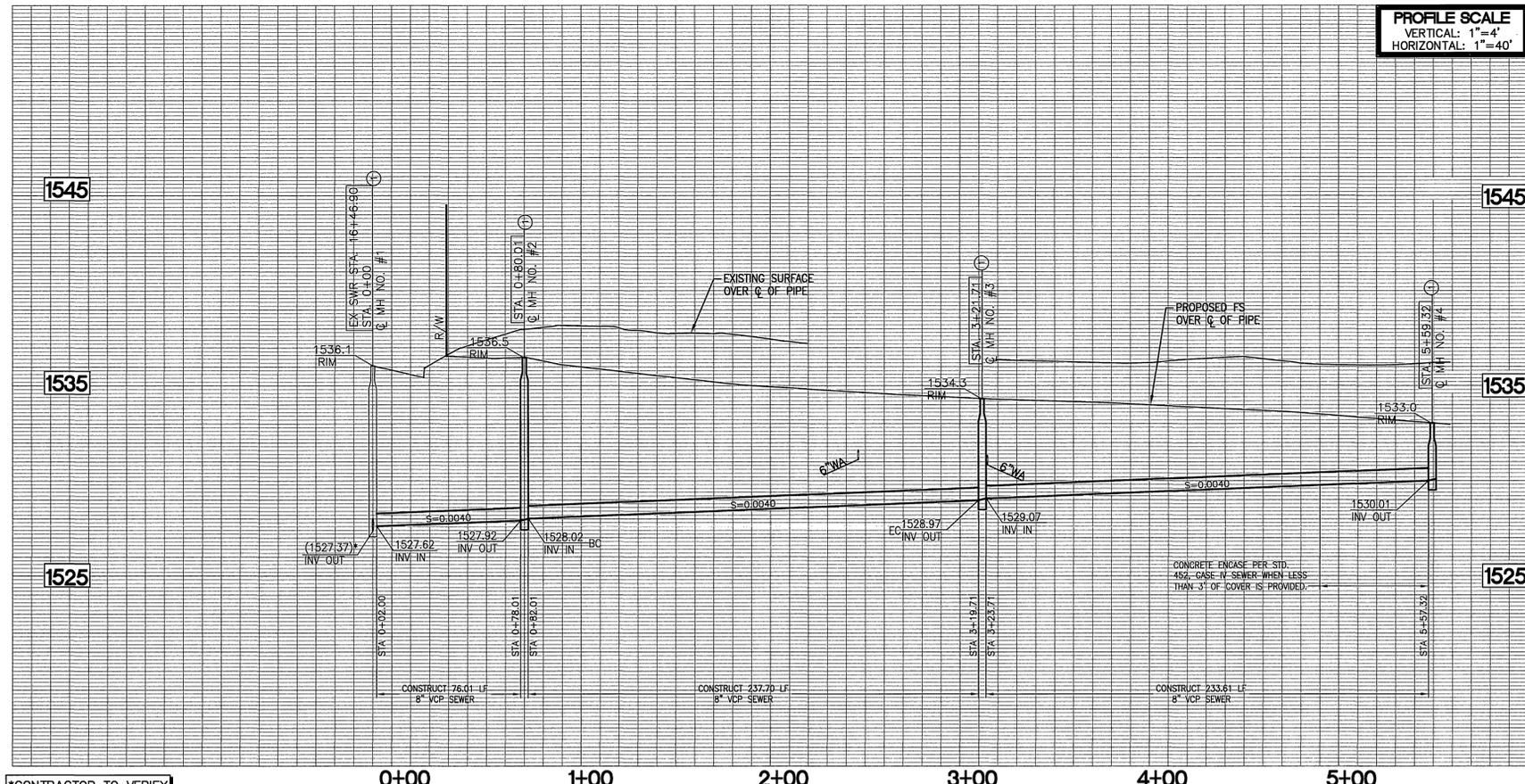
TWO WORKING DAYS
BEFORE YOU DIG

REVISIONS		BASIS OF BEARING		ENGINEER		SEWER APPROVED BY:		CITY OF RIVERSIDE, CALIFORNIA		Development Resource Consultants, Inc. Civil Engineering • Land Surveying • Land Planning 8175 EAST KAISER BOULEVARD ANAHEIM HILLS, CA 92808 (714) 685-6860 CITY OF RIVERSIDE BUSINESS TAX CERTIFICATE NUMBER 118493 EXPIRATION DATE 12-06-05		CITY OF RIVERSIDE	
		BASIS OF BEARINGS: BEARINGS SHOWN HEREON ARE BASED ON THE CENTERLINE OF RIVER CREST DRIVE BEING S 10°41'38" E PER M.B. 129/1-5, RECORDS OF RIVERSIDE COUNTY, CALIFORNIA.		PREPARED UNDER THE SUPERVISION OF: WARREN W. WILLIAMS JR. RCE 43179 EXP. DATE 03-31-06		EASTERN MUNICIPAL WATER DISTRICT APPROVED BY: _____ BY: _____ DATE: 4/2/2005 CIVIL ENGINEER OF SUBDIVISIONS DATE: _____ PROJECT ENG. _____ INITIAL _____ DATE _____ INSPECTION _____ WTR. OPERATIONS _____ SWR. OPERATIONS _____		APPROVED BY: _____ BY: _____ DATE: 11/2/05 PRINCIPAL ENGINEER CITY ENGINEER				PREPARED FOR TURNER DALE ASSOCIATES, INC. 1214 DONNELLY AVENUE BURLINGAME, CA 94010 (650) 343-6333	
		BENCH MARK POINT ID: L1-B3 ELEVATION: 1537.34 DATUM: 1929 DATE LVLD: 1997 REFERENCE: LL43/105				APPROVALS						DESIGNED BY: RJV DRAWN BY: RJV CHECKED BY: WWW S-1915 SHEET 1 OF 2 SHEETS	
NO.	DESCRIPTION	DATE	REV. BY	APP'D BY	THE CITY								

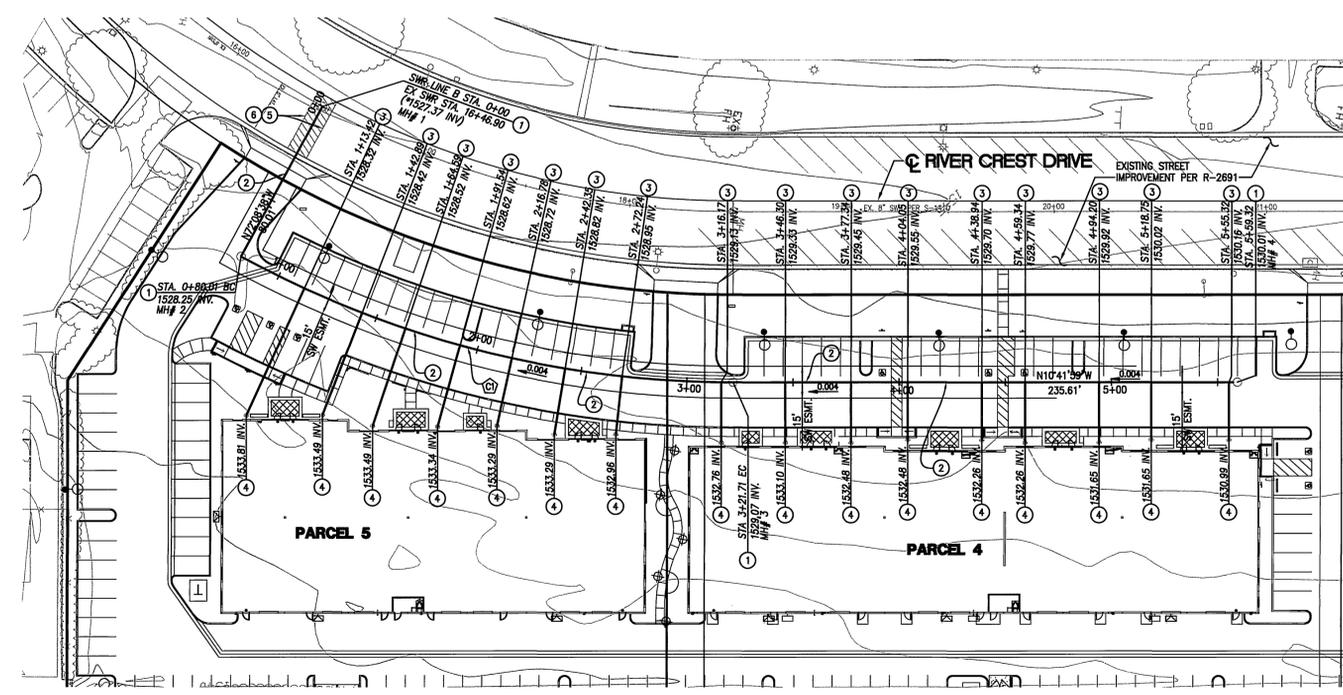
PROFILE SCALE
 VERTICAL: 1"=4'
 HORIZONTAL: 1"=40'

SEWER CONSTRUCTION NOTES:

- ①—CONSTRUCT SEWER MANHOLE PER RIVERSIDE CITY STD. NO. 500
- ②—INSTALL 8" VCP PUBLIC SEWER MAIN WITH BEDDING, CASE III PER CITY RIVERSIDE STD NO. 452
- ③—INSTALL 6" VCP SEWER LATERAL PER CITY OF RIVERSIDE STD. DWG. 562A, END 5' OUTSIDE BUILDING ENVELOPE
- ④—INSTALL 6" SEWER CLEANOUT PER CITY RIVERSIDE STD. PLAN NO. 560
- ⑤—SAWCUT AND REMOVE EXISTING PAVEMENT.
- ⑥—REPLACE EXISTING PAVEMENT AND CONSTRUCT TRENCH BACKFILL PER CITY RIVERSIDE STD. 453



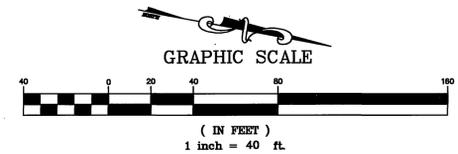
*CONTRACTOR TO VERIFY ELEVATION PRIOR TO COMMENCEMENT OF CONSTRUCTION



Underground Service Alert
 Call: TOLL FREE 1-800-227-2600
 TWO WORKING DAYS BEFORE YOU DIG

CURVE TABLE

CURVE	RADIUS	LENGTH	TANGENT	Δ
(C1)	485.00'	241.69'	123.41'	28°33'12"



PW05-0421

NO.	DESCRIPTION	DATE	REV. BY	APPRO'D BY THE CITY

BASIS OF BEARING
 BASIS OF BEARINGS: BEARINGS SHOWN HEREON ARE BASED ON THE CENTERLINE OF RIVER CREST DRIVE BEING S 10°41'38" E PER M.B. 129/1-5, RECORDS OF RIVERSIDE COUNTY, CALIFORNIA.

BENCH MARK
 POINT ID: L1-B3 ELEVATION: 1537.34 DATUM: 1929
 DATE LVLD: 1997 REFERENCE: LL43/105

DESCRIPTION:
 P.K. NAIL AND CITY ENGINEER TAG IN THE BASE OF A STREET LIGHT ALONG SOUTHERLY CURB OF RIVER CREST DRIVE, 70 FEET WESTERLY OF BOX SPRINGS BLVD. ADJUSTED AND ENTERED MAY, 1997

ENGINEER
 PREPARED UNDER THE SUPERVISION OF:
 WARREN W. WILLIAMS JR. DATE 10/5/05
 RCE 43179 EXP. DATE 03-31-06

SEWER APPROVED BY:
 EASTERN MUNICIPAL WATER DISTRICT

APPROVALS

PROJECT ENG.	INSPECTION	WTR. OPERATIONS	SWR. OPERATIONS

CITY OF RIVERSIDE, CALIFORNIA
 PUBLIC WORKS DEPARTMENT

APPROVED BY: [Signature] DATE: 10/2/05
 CITY ENGINEER

DRC Development Resource Consultants, Inc.
 Civil Engineering • Land Surveying • Land Planning
 8175 EAST KAISER BOULEVARD
 ANAHEIM HILLS, CA 92808 (714) 685-6860
 CITY OF RIVERSIDE BUSINESS TAX CERTIFICATE NUMBER 118493 EXPIRATION DATE 12-06-05

TURNER DALE ASSOCIATES, INC.
 1214 DONNELLY AVENUE
 BURLINGAME, CA 94010
 (650) 343-6333

CITY OF RIVERSIDE

PARCEL MAP 33061
SEWER PLAN
PLAN AND PROFILE

DESIGNED BY: BJV
 DRAWN BY: BJV
 CHECKED BY: WWW

S-1915
 SHEET 2 OF 2 SHEETS

INDEXED 1-17-06 LH