

# SEWER IMPROVEMENT PLAN

## REID PARK

### GENERAL NOTES:

- 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.
- 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.
- 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.
- 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.
- QUANTITIES SHOWN ARE FOR INFORMATION ONLY AND THE CITY OF RIVERSIDE IS NOT RESPONSIBLE FOR THEIR ACCURACY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING OR RE-ESTABLISHING AND REFERENCING SURVEY MONUMENTS DESTROYED, DISTURBED OR BURIED AS A RESULT OF CONSTRUCTION SHOWN HEREON.
- ALL FLAGGED ELEVATIONS SHALL BE STAKED IN THE FIELD BY THE CONTRACTOR'S SURVEYOR.
- WHERE NEW PAVEMENT IS TO JOIN THE EXISTING PAVEMENT, THE EDGE OF THE EXISTING PAVEMENT SHALL BE TRIMMED IN A SMOOTH AND STRAIGHT LINE. CONSTRUCT MATCH-UP PAVING AS SHOWN ON THE PLANS AND OVERLAY PAVING AS DIRECTED IN THE FIELD TO PRODUCE A SMOOTH SECTION.
- STREET IMPROVEMENT WORK THAT WILL CAUSE DAMAGE TO THE DETECTOR LOOP(S) SHALL NOT BE PERFORMED UNTIL TRAFFIC SIGNAL MAINTENANCE PERSONNEL HAVE BEEN NOTIFIED AND THE NECESSARY TIMING ADJUSTMENTS ARE MADE TO MAINTAIN SIGNAL OPERATION.
- FINAL STRIPING FOR TRAFFIC CONTROL AND/OR PAVEMENT MARKING REPLACEMENT TO BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 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.
- IN PAVEMENT OVERLAY AREAS, ANY DISTRESSED EXISTING PAVEMENT SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE INSPECTOR PRIOR TO OVERLAYING WITH A.C. PAVING.
- THE CONTRACTOR IS TO VERIFY EXISTING SEWER LOCATION AND ELEVATION PRIOR TO START OF CONSTRUCTION. FILL EXISTING FACILITIES PRIOR TO TRENCH EXCAVATION AND NOTIFY THE ENGINEER IMMEDIATELY IN THE EVENT OF A CONSTRUCTION CONFLICT OR UNDISCLOSED UTILITY.
- LOCATION OF LATERALS TO BE DETERMINED IN THE FIELD AT THE DIRECTION OF THE OWNER. AVOID CONFLICT WITH PROPOSED AND/OR EXISTING FACILITIES.
- 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.
- THE SEWER CONTRACTOR SHALL ADJUST MANHOLES TO FINAL GRADE AFTER PAVING IS COMPLETED.
- MANHOLES IN OPEN FIELDS SHALL BE SET TWO (2) FEET ABOVE GRADE UNLESS NOTED OTHERWISE.
- ALL MANHOLES DEEPER THAN 12" TO THE SHELF SHALL BE EQUIPPED WITH A "SAFE-T-CUMBER" AS MFG. BY NORTH CONSUMER SAFETY PRODUCT, OR APPROVED EQUAL.
- ALL PIPE BEDDING WILL BE PER CITY OF RIVERSIDE STANDARD NO. 452, CASE PER PLAN.
- ALL SANITARY SEWER PIPELINE TESTING SHALL BE PER THE "GREENBOOK" - SSPWC SECTION 306-1.4.4 "AIR PRESSURE TEST".

### NOTICE TO CONTRACTORS:

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES, CONDUITS, OR STRUCTURES SHOWN ON 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 PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN ON THESE DRAWINGS. THE CONTRACTOR FURTHER ASSUMES ALL LIABILITY AND RESPONSIBILITY FOR THE UTILITY PIPES, CONDUITS OR STRUCTURES, SHOWN OR NOT SHOWN ON THESE PLANS.

CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOBSITE CONDUITS DURING THE COURSE OF CONSTRUCTION ON THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS OR PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE CITY, THE OWNER, AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT.

THE CONTRACTOR SHALL CALL IN A LOCATION REQUEST TO UNDERGROUND SERVICE ALERT (USA) PH. 1-800-227-2600, TWO (2) WORKING DAYS PRIOR TO DIGGING. NO CONSTRUCTION PERMIT ISSUED BY THE PUBLIC WORKS DEPARTMENT SHALL BE VALID INVOLVING UNDERGROUND FACILITIES UNLESS THE APPLICANT HAS AN INQUIRY IDENTIFICATION NUMBER ISSUED BY U.S.A.

CARE SHOULD BE TAKEN TO PREVENT GRADED DITCHES AND SWALES FROM UNDERMINING STREET IMPROVEMENTS. UPON INSPECTION OF THE SITES, THE CITY ENGINEER MAY REQUIRE TEMPORARY GUNITE SWALES, ENTERING OR LEAVING IMPROVEMENTS.

### ENGINEER

ARMSTRONG & BROOKS CONSULTING ENGINEERS  
1530 CONSUMER CIRCLE UNIT B  
CORONA, CA 92880  
PH. (951) 372-8400 FAX (951) 372-8430  
CITY OF RIVERSIDE BUS. TAX # 105482 EXPIRES 9/28/2006

### OWNER

CITY OF RIVERSIDE PARKS & RECREATION DEPARTMENT  
3900 MAIN STREET  
RIVERSIDE, CA 92522  
ATTN: ANDY EMERY  
PH. (951) 826-2021

### WDID NO.

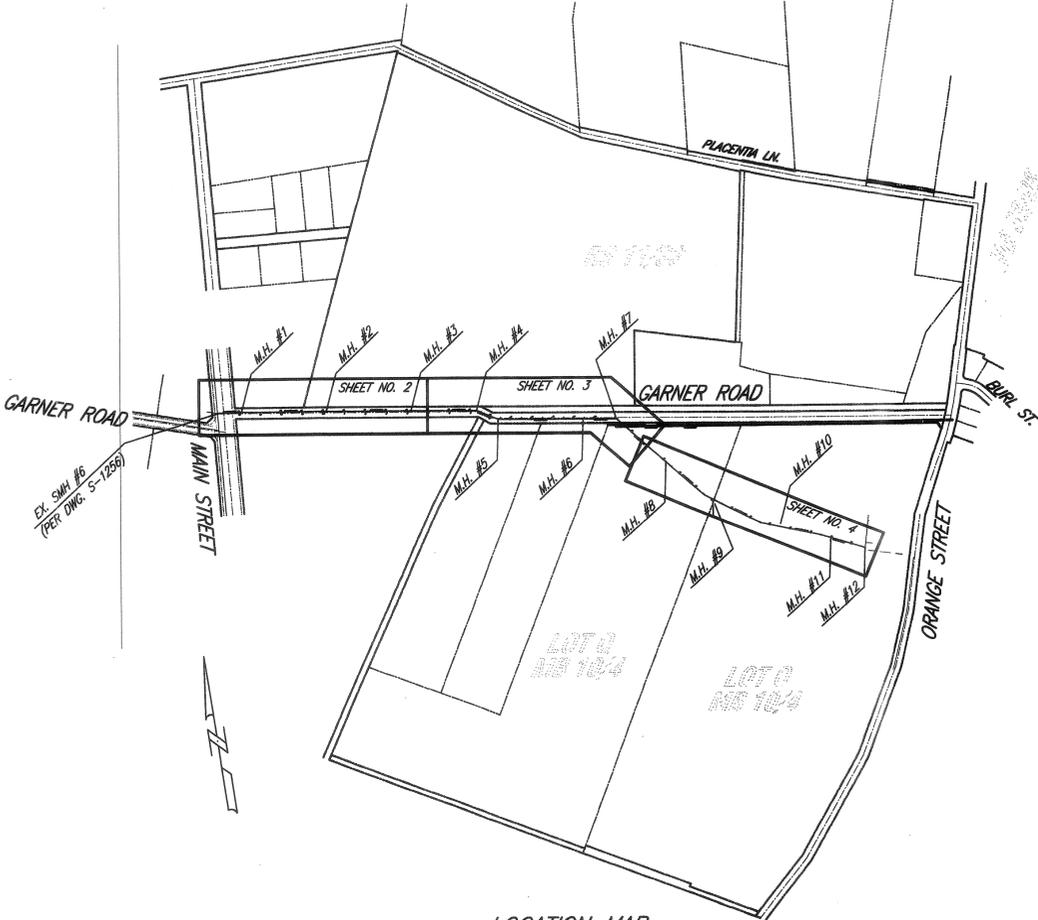
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### SITE ADDRESS

701 ORANGE STREET

### SOILS ENGINEER

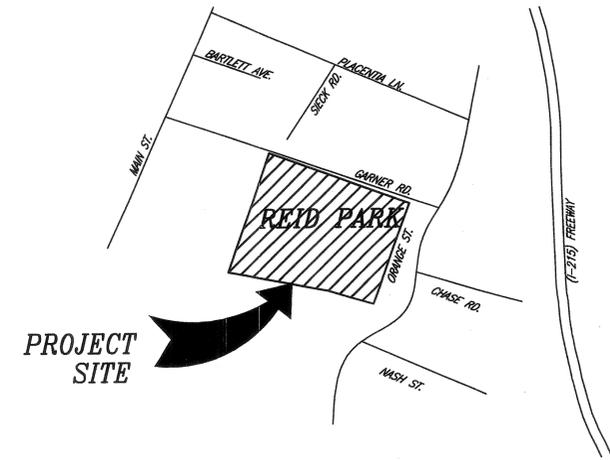
CONVERSE CONSULTANTS  
10391 CORPORATE DRIVE  
REDLANDS, CA 92374  
PH. (908) 796-0544 FAX (908) 796-7675



LOCATION MAP  
Scale 1" = 400'

### SHEET INDEX

- TITLE SHEET, GENERAL NOTES & ABBREVIATIONS
- GARNER ROAD SEWER PLAN AND PROFILE STA. 20+00 TO 31+00
- GARNER ROAD SEWER PLAN AND PROFILE STA. 31+00 TO 41+00
- REID PARK ON-SITE SEWER PLAN AND PROFILE STA. 41+00 TO 52+70.68



### VICINITY MAP

MS  
THOMAS GUDE MAP  
RIVERSIDE COUNTY, V. 2004  
PG. 716, GRID H-4

### LEGEND

(590.0)	EXISTING ELEVATION
590.0	PROPOSED FINISH SURFACE ELEVATION
PAD=590.0	PROPOSED PAD ELEVATION
F.F.=590.00	EXISTING FLOOR ELEVATION
====(SD)====	EXISTING STORM DRAIN
---(S)---	EXISTING SEWER
---(W)---	EXISTING WATER
---(G)---	EXISTING GAS
S	PROPOSED SEWER
TC	TOP OF CURB
FL	FLOW LINE
FG	FINISH GRADE
EP	EDGE OF PAVEMENT
R/W	RIGHT-OF-WAY
P/L	PROPERTY LINE
G&O	GRIND AND OVERLAY
CML&C	CEMENT MORTAR LINED & COATED
WMWD	WESTERN MUNICIPAL WATER DISTRICT
P.I.P.	PROTECT IN PLACE
○	PROPOSED ST. LT.
○	EXISTING ST. LT.
■	PROPOSED SIGN
■	EXISTING SIGN

CONSTRUCTION NOTES	QTY	UNIT
30 REMOVE EXISTING 18" VCP STUB-OUT	8	LF
31 CONSTRUCT 12" VCP SEWER IN BEDDING PER C.O.R. STD. DWG. NO. 452 IN CASE 1 BEDDING	1,870	LF
32 CONSTRUCT 8" SDR 35 PVC SEWER IN BEDDING PER C.O.R. STD. DWG. NO. 452 IN CASE 1 BEDDING	1,349	LF
33 CONSTRUCT 5" DIAMETER MANHOLE PER C.O.R. STD. DWG. NO. 500	9	EA
34 CONSTRUCT 4" DIAMETER MANHOLE PER C.O.R. STD. DWG. NO. 500	3	EA
35 REPAIR TRENCH PER C.O.R. STD. DWG. NO. 453	550	SF
36 JOIN EXISTING SEWER MANHOLE PER DETAIL ON SHEET NO. 2	1	EA
37 JOIN EXISTING 4" SEWER	1	EA
38 CONSTRUCT 4" PVC SDR 35 SEWER LATERAL PER C.O.R. STD. DWG. NO. 562 IN CASE 1 BEDDING	73	LF
39 CONSTRUCT SEWER CLEANOUT PER C.O.R. STD. DWG. NO. 580	1	EA
39A PROVIDE 4" STUB AND PLUG	1	EA

PUBLIC UTILITIES-ELECTRIC DIVISION	PUBLIC UTILITIES-WATER DIVISION
APPROVED BY: <i>MW M/Vol</i>	APPROVED BY: <i>5/22/06</i>
DATE	DATE

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

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 THE 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.

Plans Prepared Under Supervision of  
**ARMSTRONG & BROOKS CONSULTING ENGINEERS**  
1530 CONSUMER CIRCLE, UNIT "B"  
CORONA, CALIFORNIA 92880  
VOICE: (951) 372-8400; FAX: (951) 372-8430

*William D. Brooks* Date: 5/16/06  
WILLIAM D. BROOKS  
R.C.E. No. C53114 Expires: 6/30/07

BENCHMARK: K7-B2  
COUNTY SURVEYOR'S BRASS MONUMENT WELL AT THE CENTERLINE INTERSECTION OF NORTH MAIN STREET AND PLACENTIA LANE, ADJUSTED 1971,  
ELEV. 833.594

MARK REVISIONS APPR. DATE  
DESIGNED BY: *CRV* DRAWN BY: *CRV* CHECKED BY: *WDB*

CITY OF RIVERSIDE, CALIFORNIA  
PUBLIC WORKS DEPARTMENT

APPROVED BY: *[Signature]* BY: *[Signature]* DATE: *5/22/06*  
PRINCIPAL ENGINEER  
PARK DEPARTMENT  
TRAFFIC-ORGANICAL  
STREET-SEWERAGES

CITY ENGINEER  
DATE: *5/22/06*

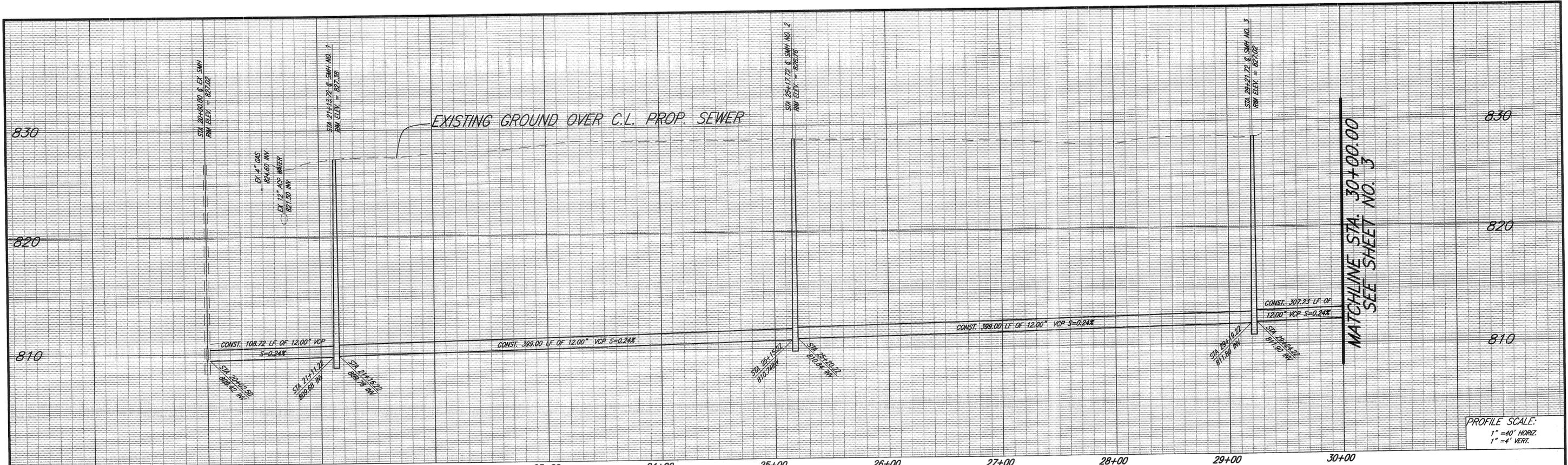
CITY OF RIVERSIDE  
REID PARK  
SEWER IMPROVEMENT PLANS  
TITLE SHEET

ACCOUNT NO. *PW06-023A*  
*S-1967*  
SHEET *1* OF *4*

HORIZ. SCALE: AS SHOWN VERT. SCALE: N/A

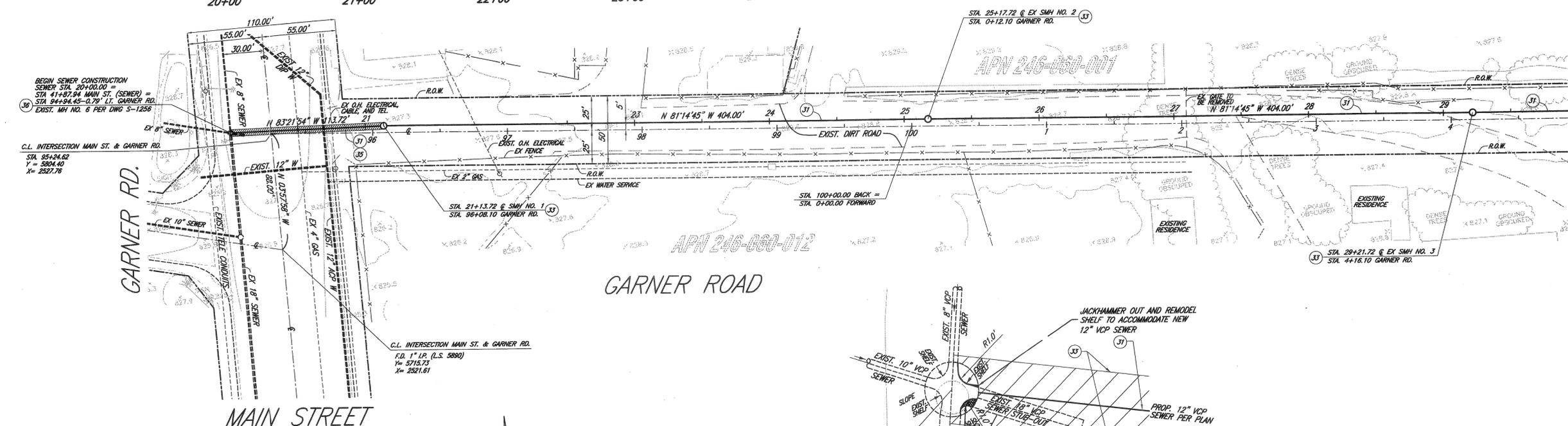


CONSTRUCTION SET



MATCHLINE STA. 30+00.00  
SEE SHEET NO. 3

MATCHLINE STA. 30+00.00  
SEE SHEET NO. 3

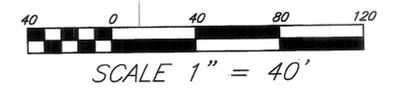


CONSTRUCTION NOTES	
30	REMOVE EXISTING 18" VCP STUB-OUT
31	CONSTRUCT 12" VCP SEWER IN BEDDING PER C.O.R. STD. DWG. NO. 452 CASE 1 BEDDING
32	CONSTRUCT 5" DIAMETER MANHOLE PER C.O.R. STD. DWG. NO. 500
35	REPAIR TRENCH PER C.O.R. STD. DWG. NO. 453
36	JOIN EXISTING SEWER MANHOLE PER DETAIL NO. 1 ON SHEET NO. 2

PUBLIC UTILITIES-ELECTRIC DIVISION

PUBLIC UTILITIES-WATER DIVISION

APPROVED BY: *MW M...L* DATE: 5/22/06



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1-800-227-2600

TWO WORKING DAYS BEFORE YOU DIG

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ELEV. 833.594

MARK	REVISIONS	APPR	DATE

DESIGNED BY:  DRAWN BY:  CHECKED BY:

CITY OF RIVERSIDE, CALIFORNIA  
PUBLIC WORKS DEPARTMENT

APPROVED BY:  BY:  DATE:

PRINCIPAL ENGINEER:

PARK DEPARTMENT:

TRAFFIC DIVISION:

STREET DEPARTMENT:

CITY ENGINEER:

DATE: 5/22/06

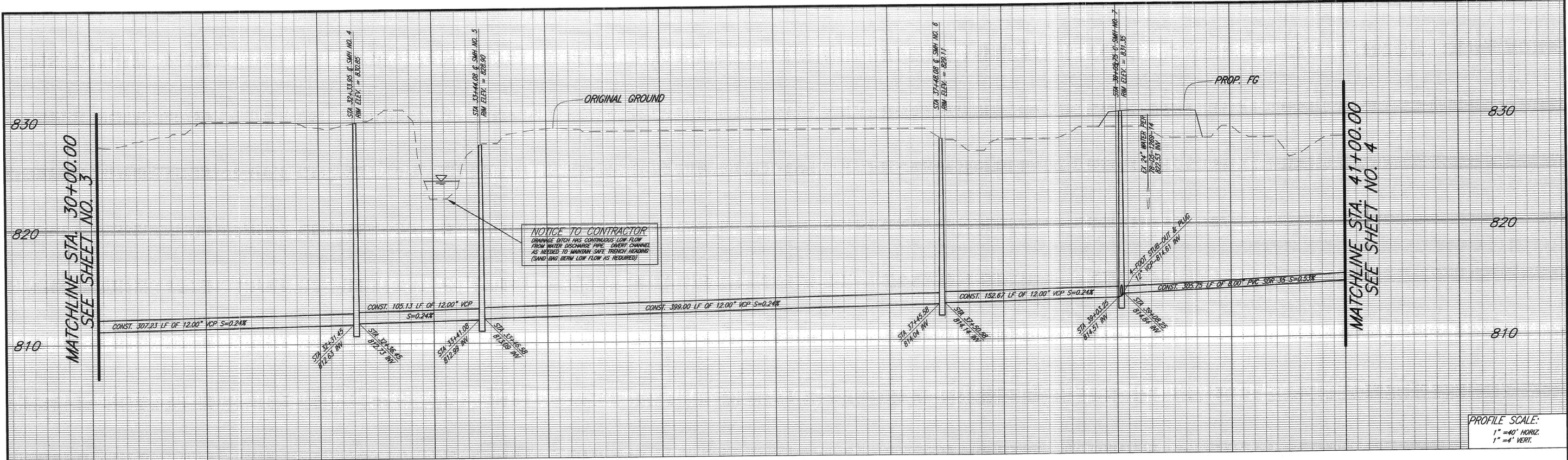
CITY OF RIVERSIDE

REID PARK  
SEWER IMPROVEMENT PLANS  
GARNER ROAD  
STA 20+00 - STA 30+00

ACCOUNT NO. 5-1967

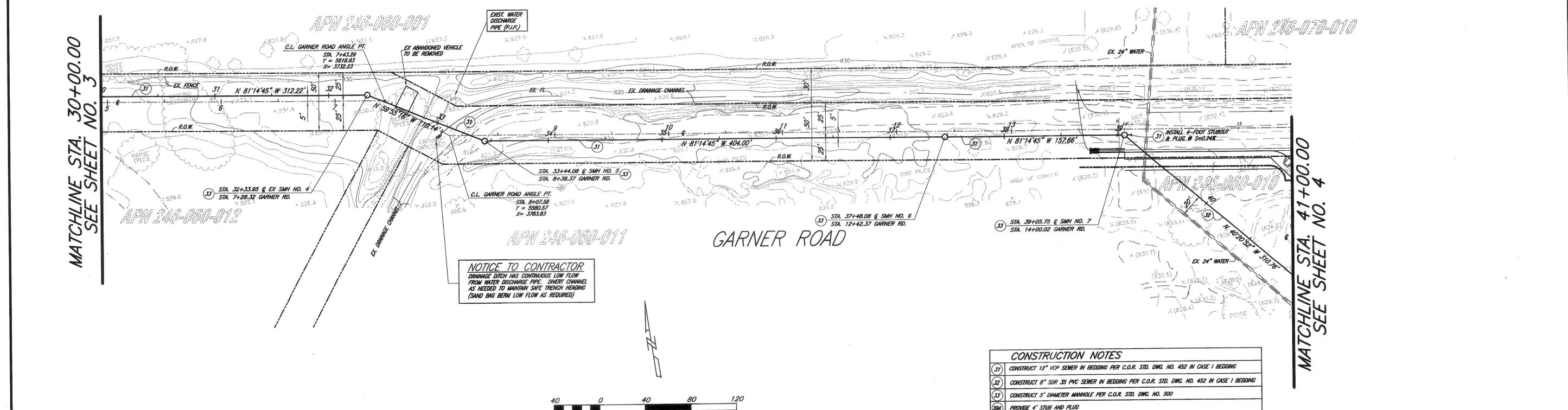
SHEET 2 OF 4

HORIZ. SCALE: AS SHOWN VERT. SCALE: AS SHOWN



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

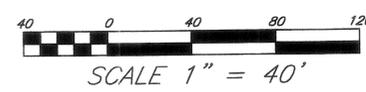
30+00 31+00 32+00 33+00 34+00 35+00 36+00 37+00 38+00 39+00 40+00 41+00 42+00



**NOTICE TO CONTRACTOR**  
DRAINAGE DITCH HAS CONTINUOUS LOW FLOW FROM WATER DISCHARGE PIPE. DIVERT CHANNEL AS NEEDED TO MAINTAIN SAFE TRENCH HEADING (SAND BAG BERM LOW FLOW AS REQUIRED)

**CONSTRUCTION NOTES**

(31)	CONSTRUCT 12" VCP SEWER IN BEDDING PER C.O.R. STD. DWG. NO. 452 IN CASE 1 BEDDING
(32)	CONSTRUCT 8" SUR 35 PVC SEWER IN BEDDING PER C.O.R. STD. DWG. NO. 452 IN CASE 1 BEDDING
(33)	CONSTRUCT 5" DIAMETER MANHOLE PER C.O.R. STD. DWG. NO. 500
(34)	PROVIDE 4" STUB AND PLUG



PUBLIC UTILITIES-ELECTRIC DIVISION PUBLIC UTILITIES-WATER DIVISION  
APPROVED BY DATE MW M... 5/22/06



**PRIVATE ENGINEERING NOTE**  
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1630 CONSTANZA CIRCLE, UNIT "B"  
CORONA, CALIFORNIA 92880  
VOICE: (951) 572-8400; FAX: (951) 572-8430  
**William D. Brooks** Date **5-16-06**  
WILLIAM D. BROOKS  
R.C.E. No. **C53114** Expires **6/30/07**

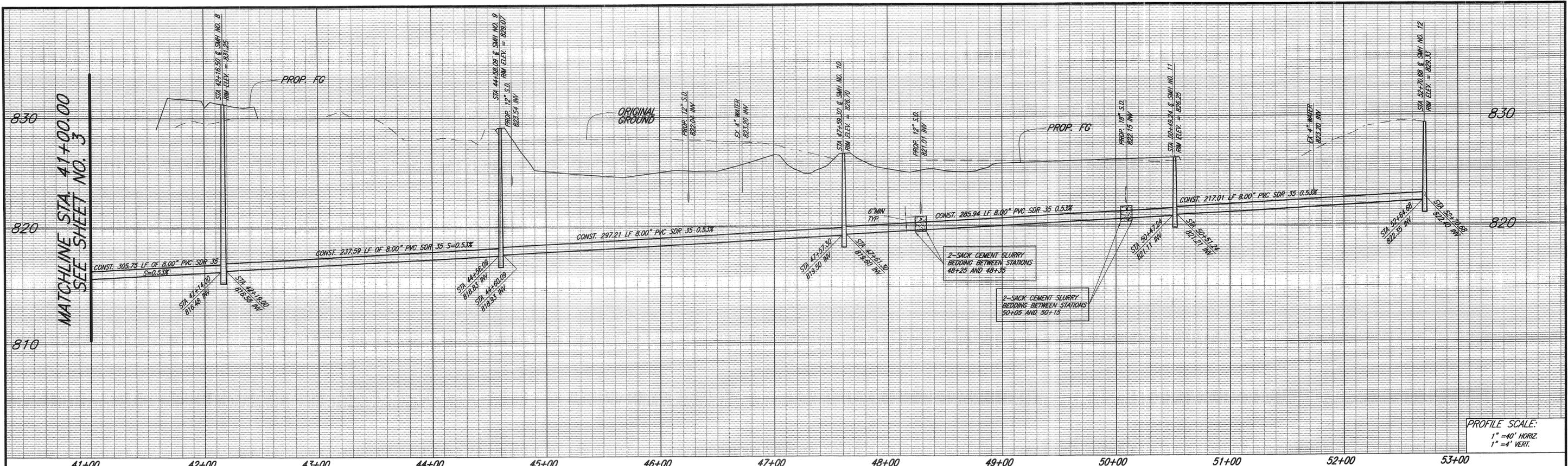
BENCHMARK: K7-B2  
COUNTY SURVEYOR'S BRASS  
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CENTERLINE INTERSECTION  
OF NORTH MAIN STREET AND  
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ELEV. 833.594

MARK	REVISIONS	APPR	DATE
DESIGNED BY	DRAWN BY	CHECKED BY	MRB

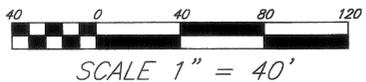
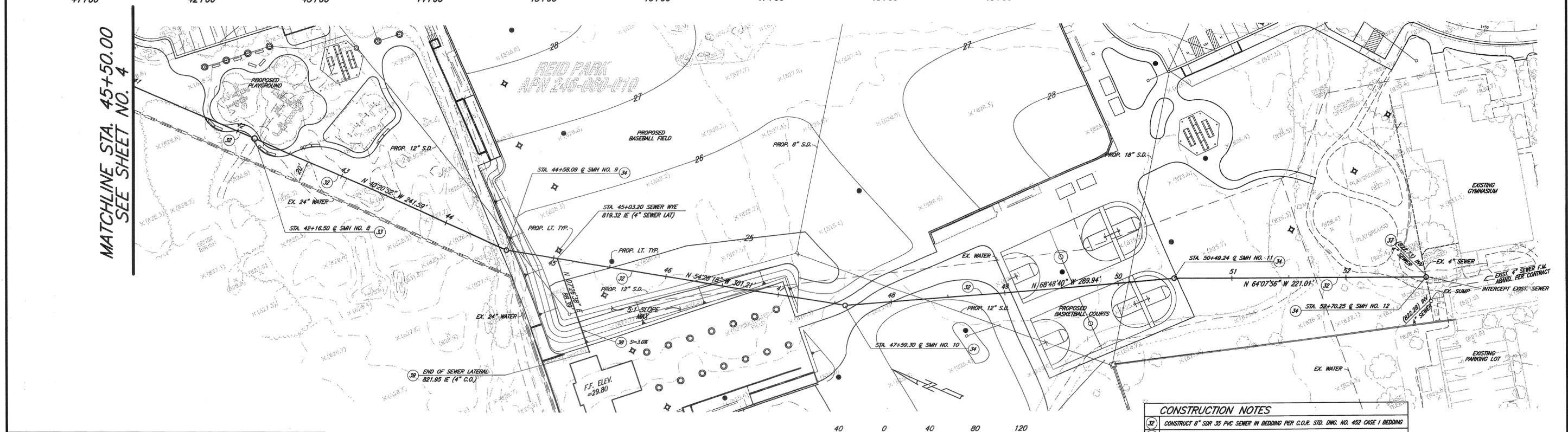
CITY OF RIVERSIDE, CALIFORNIA  
PUBLIC WORKS DEPARTMENT  
APPROVED BY DATE APPROVED BY  
PRINCIPAL ENGINEER  
TRAFFIC DIVISION  
DATE **5/22/06**

CITY OF RIVERSIDE  
REID PARK  
SEWER IMPROVEMENT PLANS  
GARNER ROAD  
STA 30+00 - STA 41+00  
HORIZ. SCALE: AS SHOWN VERT. SCALE: AS SHOWN

ACCOUNT NO. **PW06-023A**  
**S-1967**  
SHEET **3** OF **4**



PROFILE SCALE:  
 1" = 40' HORIZ.  
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CONSTRUCTION NOTES	
(32)	CONSTRUCT 8" SDR 35 PVC SEWER IN BEDDING PER C.O.R. STD. DWG. NO. 452 CASE I BEDDING
(34)	CONSTRUCT 4" DIAMETER MANHOLE PER C.O.R. STD. DWG. NO. 500
(37)	JOIN EXISTING 4" SEWER
(38)	CONSTRUCT 4" PVC SDR 35 SEWER LATERAL PER C.O.R. STD. DWG. NO. 582 IN CASE I BEDDING
(39)	CONSTRUCT SEWER CLEANOUT PER C.O.R. STD. DWG. NO. 560

PUBLIC UTILITIES-ELECTRIC DIVISION	PUBLIC UTILITIES-WATER DIVISION
APPROVED BY _____ DATE _____	APPROVED BY <u>MW MML</u> DATE <u>5/20/06</u>

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 1-800  
 227-2600  
 TWO WORKING DAYS BEFORE YOU DIG

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 1630 CONSUMER CIRCLE, UNIT "B"  
 COVINA, CALIFORNIA 91709  
 VOICE: (951) 372-8400; FAX: (951) 372-8430  
William D. Brooks Date 5.16.06  
 WILLIAM D. BROOKS  
 R.C.E. No. C53114 Expires 6/30/07

BENCHMARK: K7-B2  
 COUNTY SURVEYOR'S BRASS MONUMENT WELL AT THE CENTERLINE INTERSECTION OF NORTH MAIN STREET AND PLACENTIA LANE, ADJUSTED 1971,  
 ELEV. 833.594

MARK	REVISIONS	APPR	DATE
DESIGNED BY	DRAWN BY	CHECKED BY	WDB

CITY OF RIVERSIDE, CALIFORNIA  
 PUBLIC WORKS DEPARTMENT  
 APPROVED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 PRINCIPAL ENGINEER  
 PARK DEPARTMENT  
 TRAFFIC DIVISION  
 STREET SERVICES  
 APPROVED BY \_\_\_\_\_ DATE 5/20/06  
 CITY ENGINEER

CITY OF RIVERSIDE  
 REID PARK  
 SEWER IMPROVEMENT PLANS  
 ON-SITE SEWER  
 STA 41+00 - STA 52+70.68  
 HORIZ. SCALE: AS SHOWN VERT. SCALE: AS SHOWN  
 ACCOUNT NO. S-1967  
 SHEET 4 OF 4

PWS6-0234