

GENERAL NOTES

- 1. NO PERSON SHALL PERFORM ANY CONSTRUCTION ACTIVITY OR INSTALL ANY OBJECTS WITHIN THE PUBLIC RIGHT-OF-WAY OR EASEMENTS OF THE COUNTY OF RIVERSIDE WITHOUT A VALID CONSTRUCTION PERMIT OR, A STREET OPENING PERMIT OR AN ENCROACHMENT PERMIT ISSUED BY THE COUNTY'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 COUNTY.
3. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE COUNTY 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 CONSTRUCTION, THE PRIVATE ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING AN ACCEPTABLE SOLUTION AND REVISING THE PLANS FOR APPROVAL BY THE COUNTY.
5. QUANTITIES SHOWN ARE FOR INFORMATION ONLY AND THE COUNTY 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. ANY TRAFFIC CONTROL STRIPING OBLITERATED AND/OR BADLY WORN DURING CONSTRUCTION SHALL BE RESTORED BY THE CONTRACTOR WITHIN FIVE DAYS AFTER NOTIFICATION FROM THE COUNTY INSPECTORS.
9. 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.
10. CONTRACTOR IS TO VERIFY EXISTING SEWER ELEVATION PRIOR TO CONSTRUCTION.
11. 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.
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 COUNTY.
13. THE SEWER CONTRACTOR SHALL ADJUST MANHOLES TO FINAL GRADE AFTER PAVING IS COMPLETED.
14. ALL MATERIALS USED AND INSTALLATION SHALL CONFORM TO RIVERSIDE COUNTY STANDARDS & SPECIFICATIONS ORDINANCE 461.
15. SEPARATION REQUIREMENTS BETWEEN WATER AND SEWER LINES SHALL CONFORM TO STATE HEALTH CODE STANDARDS.
16. SEWER LATERALS SHALL BE INSTALLED ACCORDING TO COUNTY STANDARDS NO. 600 & 601 OR THE SERVING AGENCY.

IN THE UNINCORPORATED TERRITORY OF THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA

SEWER IMPROVEMENT PLANS

TRACT NO. 29597-2

WORK TO BE DONE

IMPROVEMENTS CONSIST OF THE FOLLOWING WORK TO BE DONE ACCORDING TO THESE PLANS, THE CURRENT RIVERSIDE COUNTY DEPARTMENT OF PUBLIC WORKS DESIGN STANDARDS AND THE CURRENT AMERICAN PUBLIC WORKS ASSOCIATION (APWA) "GREEN BOOK" STANDARDS AND SPECIFICATIONS.

CONSTRUCTION NOTES AND QUANTITY TABLE

Table with 4 columns: ITEM, DESCRIPTION, AMOUNT, UNIT. Contains 7 items including sewer main bedding, manhole construction, lateral installation, plug removal, backwater valve, and cleanouts.

ABBREVIATIONS

- ST. - STREET
N.T.S. - NOT TO SCALE
R/W - RIGHT OF WAY
P/L - PROPERTY LINE
STD. - STANDARD
SS - SEWER SYSTEM
MH - MANHOLE
EX. - EXISTING
SWR. - SEWER
BC - BEGIN CURVE
EC - END CURVE
S.D. - STORM DRAIN
I.E. - INVERT ELEVATION
NGVD - NATIONAL GEODETIC VERTICAL DATUM
PVC - POLYVINYL CHLORIDE
SDR - STANDARD DIMENTION RATIO

OWNER / PERMITTEE

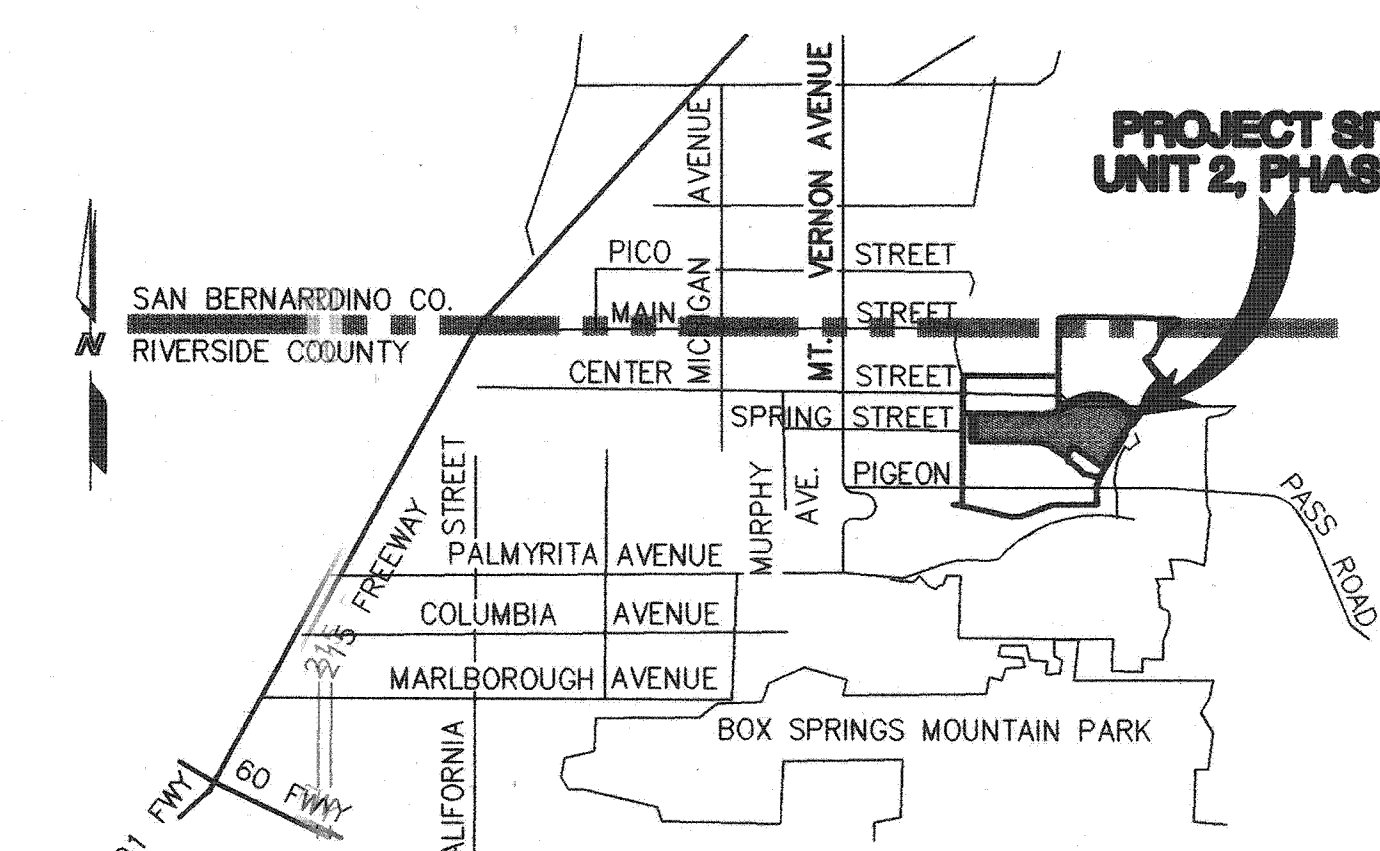
SMR VENTURES
2710 LOKER AVENUE WEST, SUITE 350
CARLSBAD, CA 92008
(760) 918-6797

BY:

ROBERT J. TURJ
VICE PRESIDENT
DATE

LEGEND

- SEWER LATERAL WITH CLEANOUT
WATER LATERAL
FIRE HYDRANT
EXISTING SS LINE
EXISTING SS MANHOLE
PROPOSED SS LINE
PROPOSED SS MANHOLE
TRACT BOUNDARY



Thomas Guide (2004); page. 646, E-7

VICINITY MAP

NOT TO SCALE
SECTION: 9, 10, 15, AND 16
TOWNSHIP: 2 SOUTH, RANGE: 4 WEST
SBM

SOURCE OF TOPOGRAPHY

TOPOGRAPHY SHOWN ON THESE PLANS WAS GENERATED BY PHOTOGRAMMETRIC METHODS FROM INFORMATION GATHERED IN DECEMBER OF 2003, BY INLAND AERIAL SURVEYS, INC. TOPOGRAPHY SHOWN HEREON CONFORMS TO NATIONAL MAP ACCURACY STANDARDS.

LEGAL DESCRIPTION

BEING A DIVISION OF PORTIONS OF SECTIONS 8, 9, AND 10, TOWNSHIP 2S, RANGE 4W, SAN BERNARDINO MERIDIAN.

DECLARATION OF RESPONSIBLE CHARGE

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONAL CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS. IN ASSUMING RESPONSIBLE CHARGE I ACCEPT FULL RESPONSIBILITY FOR THE ENTIRE DESIGN OF THIS PROJECT AS SHOWN ON THESE PLANS.

I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE COUNTY OF RIVERSIDE, CITY OF RIVERSIDE, OR THEIR AGENTS IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR THE PROJECT DESIGN.

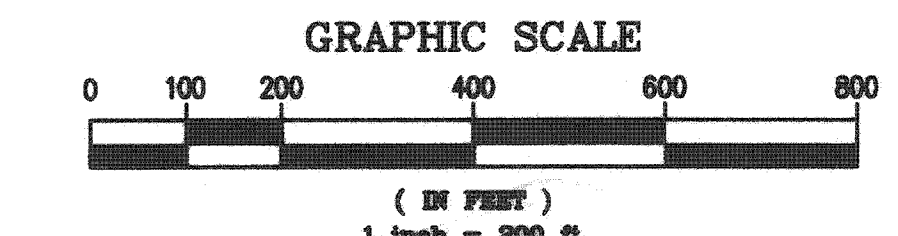
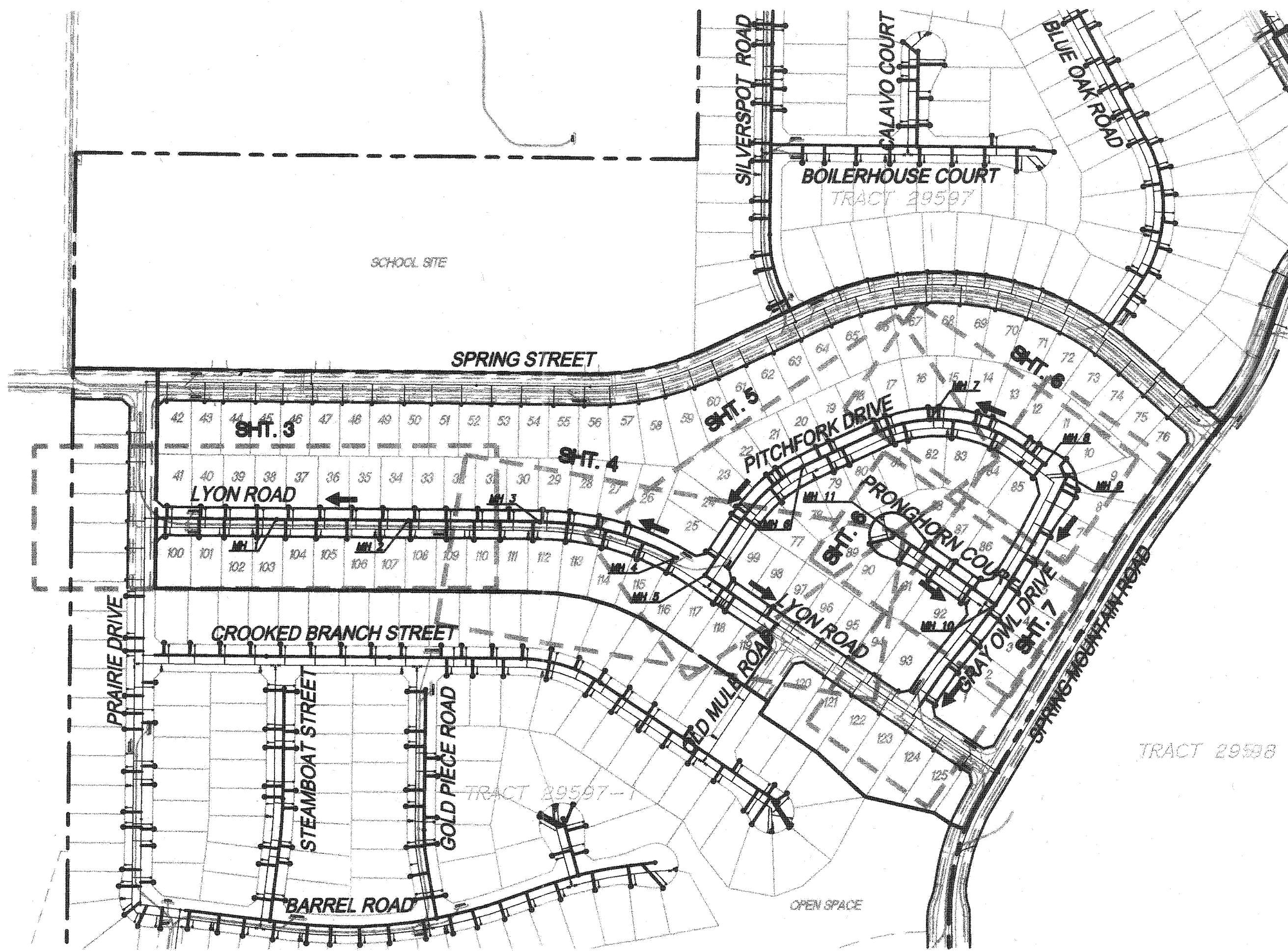
STANTEC CONSULTING INC.
277 RANCHEROS DRIVE, SUITE 300
SAN MARCOS, CA 92069
P: (760) 891-3200
F: (760) 891-3201

KENT J. STEPAN R.C.E. C 66133 DATE
EXPIRATION DATE: 06-30-06



SHEET INDEX

- TITLE AND INDEX MAP SHEET
CONSTRUCTION NOTES AND DETAILS
LYON ROAD
PITCHFORK DRIVE
PITCHFORK DRIVE & PRONGHORN COURT
GRAY OWL DRIVE



NOTE

CSA 152C SANITARY SERVICE IN THE HIGHGROVE COMMUNITY FOR SPRING MOUNTAIN RANCH PROJECT PROVIDED PER THE WASTEWATER TREATMENT AGREEMENT, OPERATION AND MAINTENANCE AGREEMENT AND PRETREATMENT PROGRAM AGREEMENT BETWEEN THE COUNTY OF RIVERSIDE AND THE CITY OF RIVERSIDE. REFERENCE AGENDA ITEM NO. 3.47 OF THE COUNTY OF RIVERSIDE ECONOMIC DEVELOPMENT AGENCY, DATED MAY 4, 2004.

SCHOOL DISTRICT

RIVERSIDE UNIFIED SCHOOL DISTRICT
951-788-7134

UTILITY CONTACTS

- WATER: RIVERSIDE HIGHLAND WATER COMPANY (909) 825-4128
SEWER: CITY OF RIVERSIDE (951) 826-5341
ELECTRIC: SOUTHERN CALIFORNIA EDISON COMPANY, BOB SIEGAL (909) 307-6770
GAS: SOUTHERN CALIFORNIA GAS COMPANY, HECTOR MARTINEZ (909) 335-7674
DEPARTMENT OF WATER RESOURCES (661) 858-5500
RIVERSIDE COUNTY TRANSPORTATION AND LAND MANAGEMENT AGENCY (951) 955-6740
RIVERSIDE COUNTY FIRE DEPARTMENT (951) 955-4777

ASSESSOR'S PARCEL NO.

- 255-210-010-0, 255-170-010-7, 255-190-004-4, 255-180-014-2, 255-210-011-1, 255-190-005-5, 255-190-007-7, 255-180-010-8, 255-180-012-0, 255-180-016-4, 255-220-007-9, 255-240-008-2, 255-240-009-3, 255-230-003-6, 255-230-009-2, 255-240-010-3, 255-200-012-1, 255-200-009-9, 255-200-010-9, 257-180-008-1, 257-170-007-9, 255-210-012-2, 255-230-011-3, 255-230-001-4, 255-200-002-2, 255-200-003-3, 255-140-019-3, 257-100-011-5, 255-200-011-0, 255-200-014-3, 255-200-002-2, 255-200-013-2, 255-120-011-3, 257-180-009-2, 255-210-010-0, 255-210-011-1, 257-120-003-0, 255-200-016-5, 255-200-017-6, 255-210-011-1

NOTICE TO CONTRACTOR

ACCORDING TO THE INFORMATION PROVIDED BY UNDERGROUND SERVICE ALERT (U.S.A.) DATED FEBRUARY 18, 1999, THE FOLLOWING ORGANIZATIONS ARE U.S.A. MEMBERS WITHIN THE PROJECT AREA:

- ADELPHIA
PACIFIC BELL
RIVERSIDE HIGHLAND WATER COMPANY
D.W.R.
THE GAS COMPANY
SOUTHERN CALIFORNIA EDISON

THE EXISTENCE AND LOCATIONS OF ALL UNDERGROUND UTILITIES (UTILITY PIPES, STRUCTURES, ETC.) SHOWN ON THESE PLANS (MAIN LINES ONLY - NO SERVICE LATERALS) WERE ASCERTAINED BY A REVIEW OF RECORDS PROVIDED BY THESE MEMBERS AGENCIES AND ARE APPROXIMATE. NEITHER THE OWNER NOR THE ENGINEER ASSUMES ANY RESPONSIBILITY FOR UTILITIES NOT SHOWN OR NOT IN THE LOCATION SHOWN.

THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT ALL UTILITIES SHOWN ON THESE PLANS AND/OR ANY OTHER UNDERGROUND UTILITIES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.

UNAUTHORIZED CHANGES & USES

CAUTION: 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.

UNDERGROUND STRUCTURES

ALL UNDERGROUND UTILITIES OR STRUCTURES REPORTED BY THE OWNER OR OTHERS AND THOSE SHOWN ON THE RECORD EXAMINED ARE INDICATED WITH THEIR APPROXIMATE LOCATION AND EXTENT. THE OWNER BY ACCEPTING THESE PLANS OR PROCEEDING WITH IMPROVEMENTS PURSUANT THERETO AGREES TO ASSUME LIABILITY AND TO HOLD UNDERSIGNED HARMLESS FOR ANY DAMAGES RESULTING FROM THE EXISTENCE OF UNDERGROUND UTILITIES OR STRUCTURES NOT REPORTED TO THE UNDERSIGNED; NOT INDICATED ON THE PUBLIC RECORDS EXAMINED, LOCATED AT VARIANCE WITH THAT REPORTED OR SHOWN ON RECORDS EXAMINED. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES OR STRUCTURES SHOWN AND ANY OTHER UTILITIES OR STRUCTURES FOUND AT THE SITE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNERS OF THE UTILITIES OR STRUCTURES CONCERNED BEFORE STARTING WORK.

COUNTY OF RIVERSIDE DEPARTMENT OF HEALTH
APPROVED BY:
DATE:

NOTE: WORK CONTAINED WITHIN THESE PLANS SHALL NOT COMMENCE UNTIL AN ENCROACHMENT PERMIT AND/OR GRADING PERMIT HAS BEEN ISSUED.

THE PRIVATE ENGINEER SIGNING THESE PLANS IS RESPONSIBLE FOR ASSURING THE ACCURACY AND ACCEPTABILITY OF THE DESIGN HEREON. IN THE EVENT OF DISCREPANCIES AFTER COUNTY APPROVAL OR DURING CONSTRUCTION, THE PRIVATE ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING AN ACCEPTABLE SOLUTION AND REVISING THE PLANS FOR APPROVAL BY THE COUNTY.

Table with columns: DATE, BY, MARK, REVISIONS, APPR. DATE, COUNTY.

SEAL-COUNTY
COUNTY OF RIVERSIDE TRANSPORTATION DEPARTMENT
APPROVED BY:
KHALED A. OTHMAN
DATE:

SEAL
REGISTERED PROFESSIONAL ENGINEER
KENT J. STEPAN
CIVIL
STATE OF CALIFORNIA
No. 66133
Exp. 06-30-06

STANTEC CONSULTING INC.
277 RANCHEROS DRIVE
SUITE 300
SAN MARCOS, CA 92069
760.891.3200
PREPARED BY:
R.C.E. NO. 66133
DATE: 1/21/06

CITY OF RIVERSIDE DRAWING NO. S-1900

WDID No. 833C327881 PW05-0224

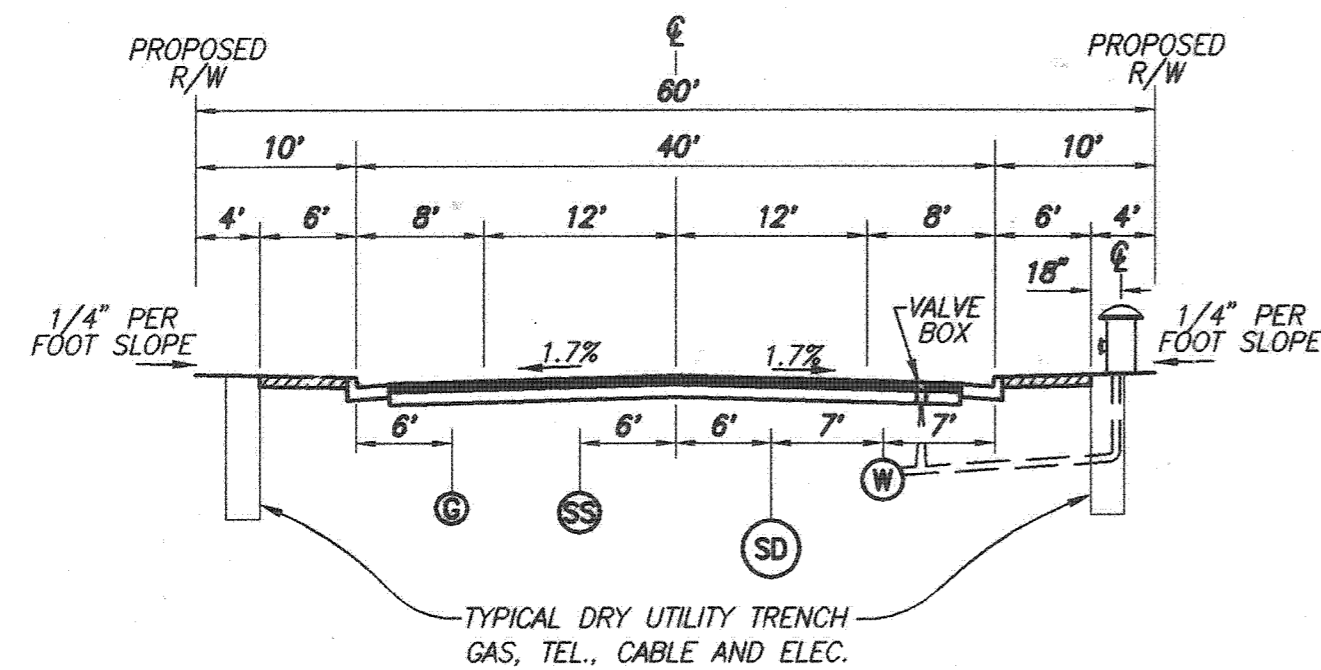
TRACT NO. 29597-2 IP NO. 050027

COUNTY OF RIVERSIDE SEWER IMPROVEMENT PLANS SPRING MOUNTAIN RANCH

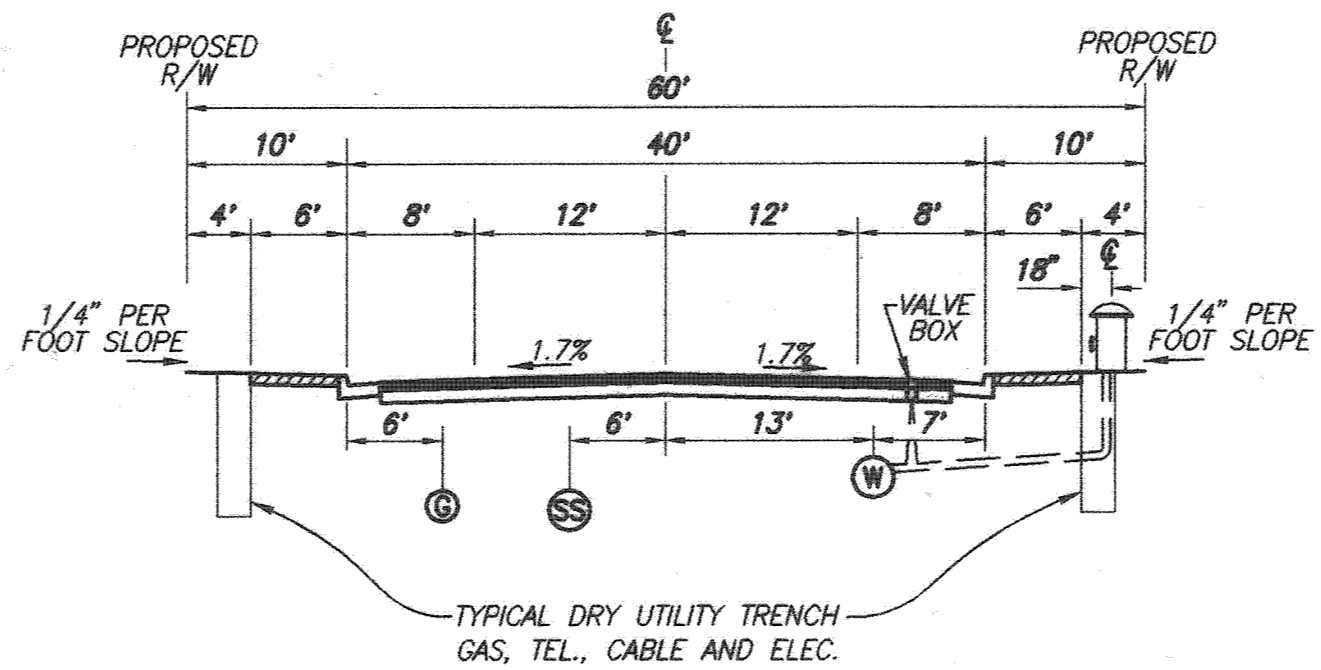
TITLE AND INDEX MAP SHEET

FOR: W.O. COUNTY FILE NO.

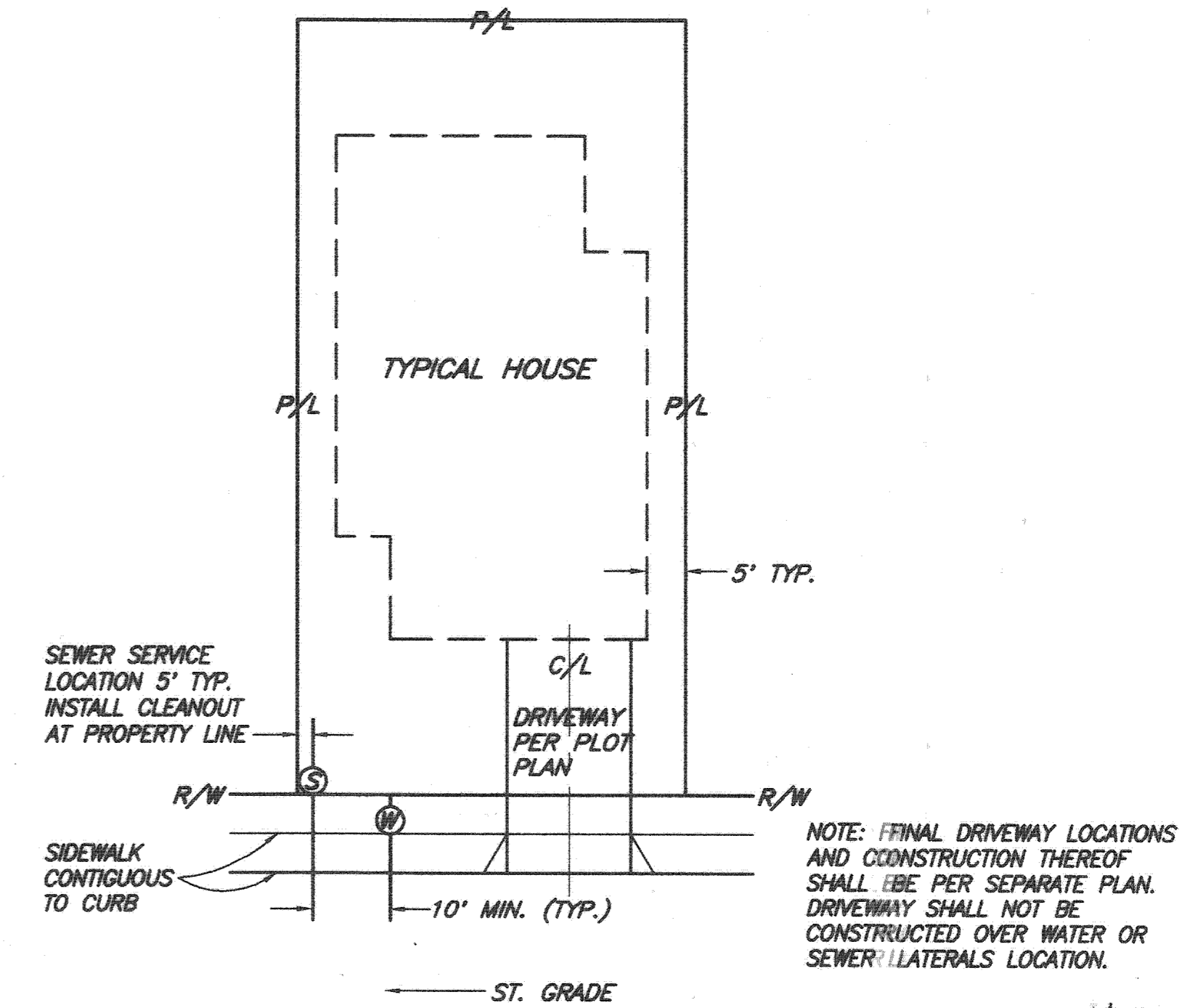
1/24/2006 14:30:57 MST
K:\3062001\Cadd\Imp-plan\UNIT 2 - 29597\sewer\529597-02-01.dwg



**TYPICAL SECTION**  
 GRAY OWL DRIVE STA: 24+38.82 TO STA: 24+88.83  
 LYON ROAD STA: 10+00.00 TO STA: 22+06.92  
 PITCHFORK DRIVE STA: 10+18.00 TO STA: 10+51.50  
 NTS



**TYPICAL SECTION**  
 GRAY OWL DRIVE STA: 19+10.84 TO STA: 24+38.82  
 LYON ROAD STA: 22+06.92 TO STA: 24+01.06  
 PITCHFORK DRIVE STA: 10+18.00 TO STA: 10+51.50  
 PRONGHORN COURT STA: 10+51.50 TO STA: 19+10.84  
 NTS



**TYPICAL LATERAL LOCATION DETAIL "C"**  
 NOT TO SCALE  
 NOTE: SEWER LATERAL SHALL BE INSTALLED BY SEPARATE PLAN



NOTE: WORK CONTAINED WITHIN THESE PLANS SHALL NOT COMMENCE UNTIL AN ENCROACHMENT PERMIT AND/OR GRADING PERMIT HAS BEEN ISSUED.

THE PRIVATE ENGINEER SIGNING THESE PLANS IS RESPONSIBLE FOR ASSURING THE ACCURACY AND ACCEPTABILITY OF THE DESIGN HEREON. IN THE EVENT OF DISCREPANCIES AFTER COUNTY APPROVAL OR DURING CONSTRUCTION, THE PRIVATE ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING AN ACCEPTABLE SOLUTION AND REVISING THE PLANS FOR APPROVAL BY THE COUNTY.

DATE	BY	MARK	REVISIONS	APPR.	DATE

SEAL-COUNTY



COUNTY OF RIVERSIDE  
 TRANSPORTATION DEPARTMENT  
 APPROVED BY:

KHALED A. OTHMAN DATE: \_\_\_\_\_  
 RECOMMENDED DATE: \_\_\_\_\_

SEAL



PREPARED BY: *Kent J. Stepan* R.C.E. NO. 86133  
 DATE: 1/26/06

NOTES:  
 STREET RIGHT-OF-WAY DEDICATION PER TRACT NO. 29597-2, M.B. \_\_\_\_\_

CITY OF RIVERSIDE  
 RECOMMENDS APPROVAL  
*Alan Bed* 10/23/06  
 CITY ENGINEER DATE

BENCHMARK  
 SEE BENCHMARK NOTE ON SHEET 1

SCALE:  
 HOR: AS SHOWN VERT: AS SHOWN

CITY OF RIVERSIDE DRAWING NO. 9-1900

WDID No. 833C327861 PW05-0224

TRACT NO. 29597-2 IP NO. 050027 SHEET NO.

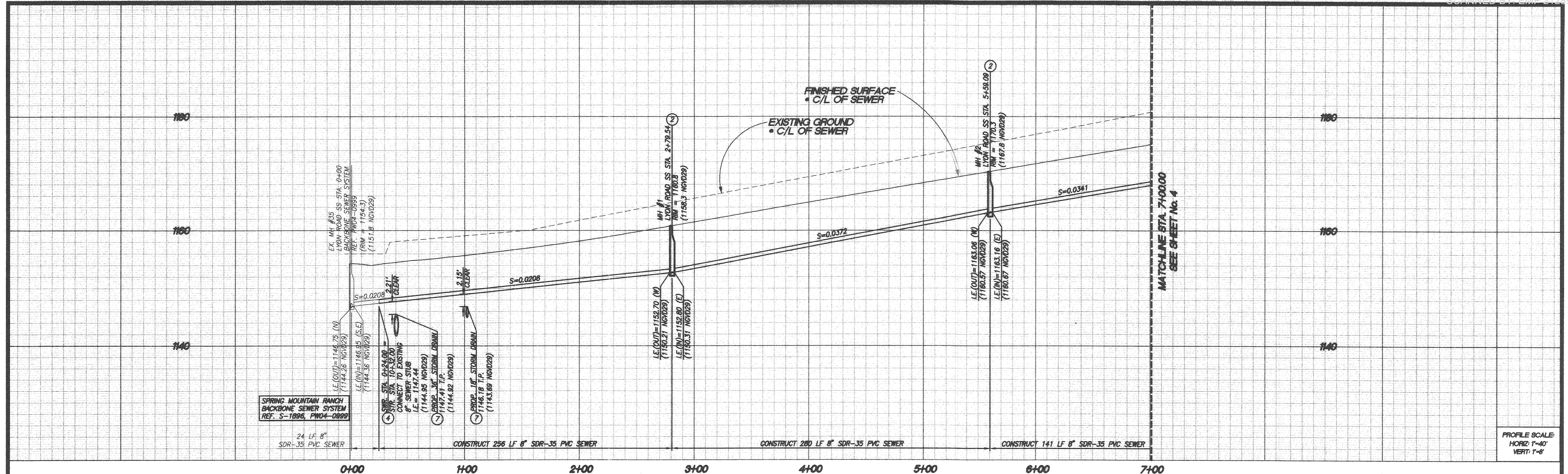
COUNTY OF RIVERSIDE  
 SEWER IMPROVEMENT PLANS  
 SPRING MOUNTAIN RANCH

CONSTRUCTION NOTES AND DETAILS OF 7 SHTS.

FOR: \_\_\_\_\_ W.O. \_\_\_\_\_ COUNTY FILE NO. \_\_\_\_\_

INDEXED 5-02-07 left of 5 1/2/16

K:\3062001\Cadd\Imp-plan\UNIT 2 - 29597\Sewer\29597-02-02.dwg 1/24/2006 10:50:25 MST

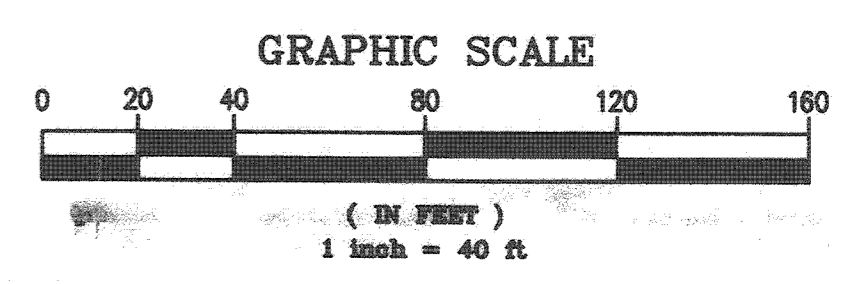
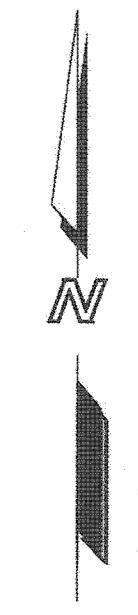


PROFILE SCALE:  
HORIZ: 1"=40'  
VERT: 1"=8'

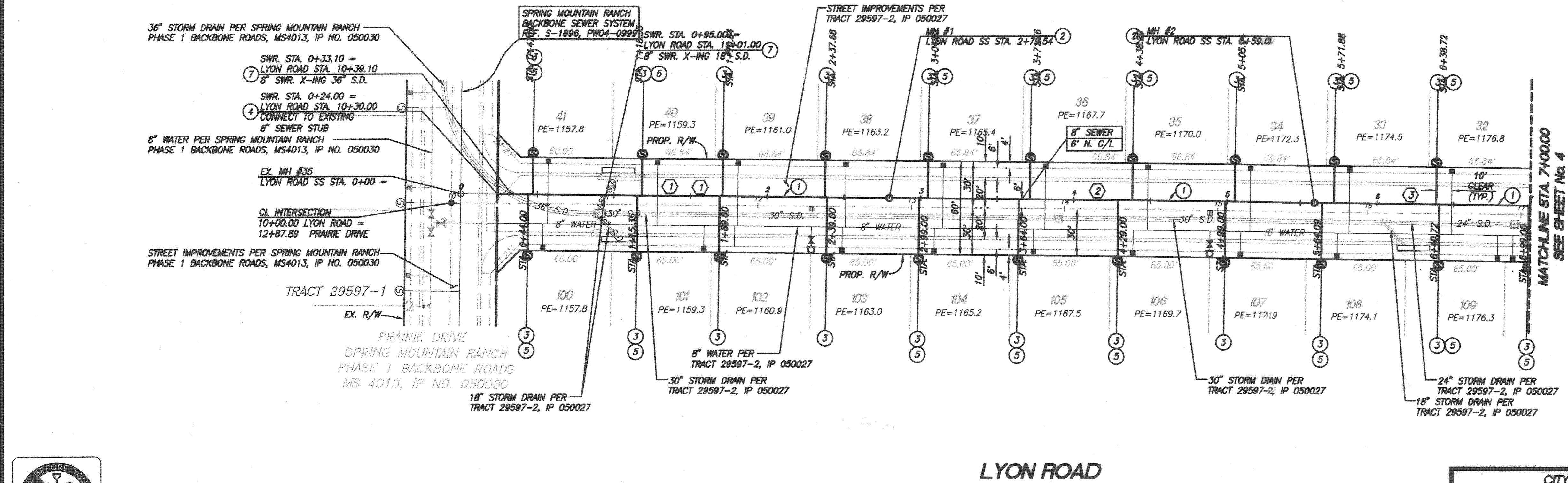
**CONSTRUCTION NOTES**

1. INSTALL 8" SDR-35 PVC SEWER MAIN. BEDDING PER CITY OF RIVERSIDE STD. DWG. NO. 452
2. CONSTRUCT SANITARY SEWER MANHOLE PER CITY OF RIVERSIDE STD. DWG. NO. 500
3. INSTALL 4" PVC (SDR 35) SEWER LATERAL W/ CLEANOUT PER CITY OF RIVERSIDE STD. DWG. NO. 562A, 560
4. REMOVE 8" PLUG
5. BACKWATER VALVE
6. CAUTION UTILITY CROSSING, SEE PROFILE FOR ELEVATIONS

- NOTE:
1. ALL DATA TABLE LENGTHS ARE MEASURED TO CENTER OF MANHOLE.
  2. ALL PIPE SLOPES ARE CALCULATED FROM INSIDE MANHOLE WALL TO INSIDE MANHOLE WALL.
  3. CONTRACTOR TO VERIFY EXACT LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
  4. PRIOR TO THE INSTALLATION OF WATER MAINS AND FACILITIES, SEWERS AND STORM DRAINS, INCLUDING LATERALS SHALL BE INSTALLED.



SANITARY SEWER DATA TABLE					
NO.	BEARING/DELTA	RADIUS	LENGTH	TANGENT	REMARKS
1	S89°22'17"E	-	255.54'	-	8" PVC
2	S89°22'17"E	-	279.54'	-	" "
3	S89°22'17"E	-	140.91'	-	" "



**LYON ROAD**



NOTE: WORK CONTAINED WITHIN THESE PLANS SHALL NOT COMMENCE UNTIL AN ENCROACHMENT PERMIT AND/OR GRADING PERMIT HAS BEEN ISSUED.

THE PRIVATE ENGINEER SIGNING THESE PLANS IS RESPONSIBLE FOR ASSURING THE ACCURACY AND ACCEPTABILITY OF THE DESIGN HEREON. IN THE EVENT OF DISCREPANCIES AFTER COUNTY APPROVAL OR DURING CONSTRUCTION, THE PRIVATE ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING AN ACCEPTABLE SOLUTION AND REVISING THE PLANS FOR APPROVAL BY THE COUNTY.

DATE	BY	MARK	REVISIONS	APPR.	DATE

SEAL-COUNTY

COUNTY OF RIVERSIDE  
TRANSPORTATION DEPARTMENT  
APPROVED BY:

KHALED A. OTHMAN DATE: \_\_\_\_\_

SEAL

REGISTERED PROFESSIONAL ENGINEER  
KENT J. STEIN  
No. 66133  
Exp. 06-30-06  
CIVIL  
STATE OF CALIFORNIA

STANTEC CONSULTING INC.  
277 RANCHEROS DRIVE  
SUITE 300  
SAN MARCOS, CA 92069  
760.891.3200

PREPARED BY: *Kent J. Stein* R.C.E. NO. 66133  
DATE: *10/2/06*

CITY OF RIVERSIDE  
RECOMMENDS APPROVAL

*Jim Bird* 10/2/06  
CITY ENGINEER DATE

BENCHMARK  
SEE BENCHMARK NOTE ON SHEET 1

SCALE:  
HOR: AS SHOWN VERT: AS SHOWN

CITY OF RIVERSIDE DRAWING NO. S-1900

WDID No. 833C327881 PW05-0224

TRACT NO. 29597-2 IP NO. 050027

COUNTY OF RIVERSIDE  
SEWER IMPROVEMENT PLANS  
SPRING MOUNTAIN RANCH

**LYON ROAD**

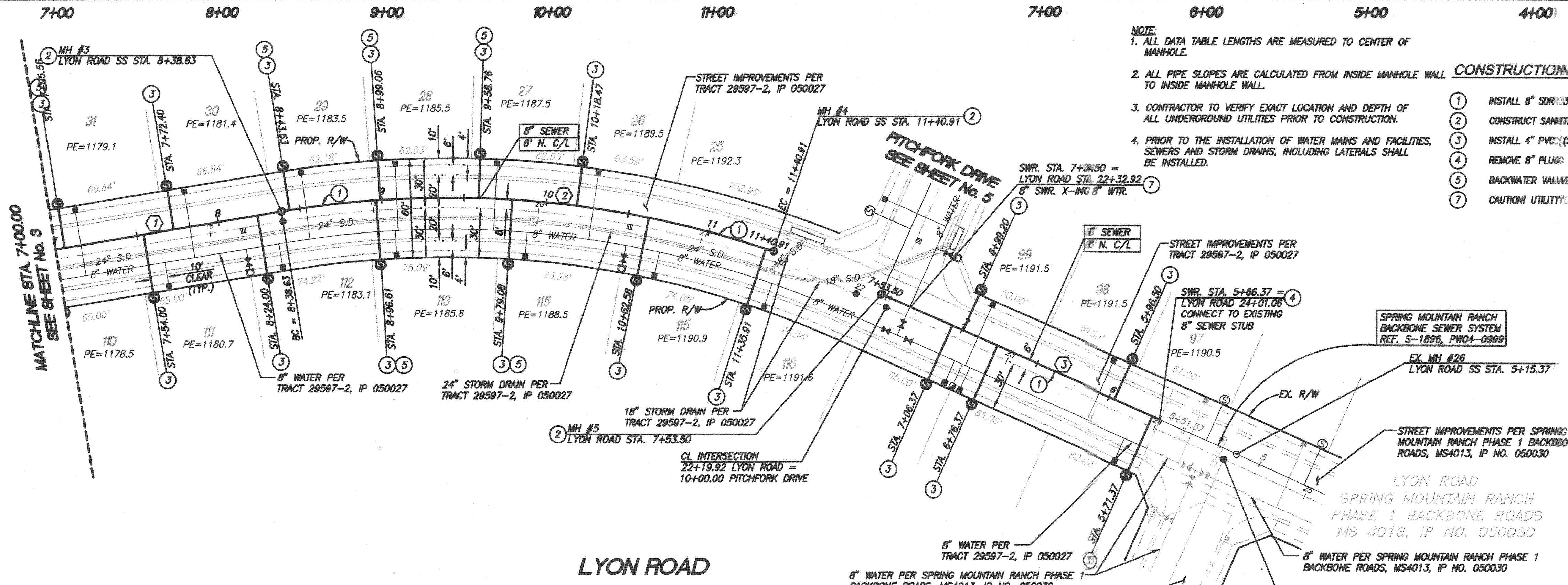
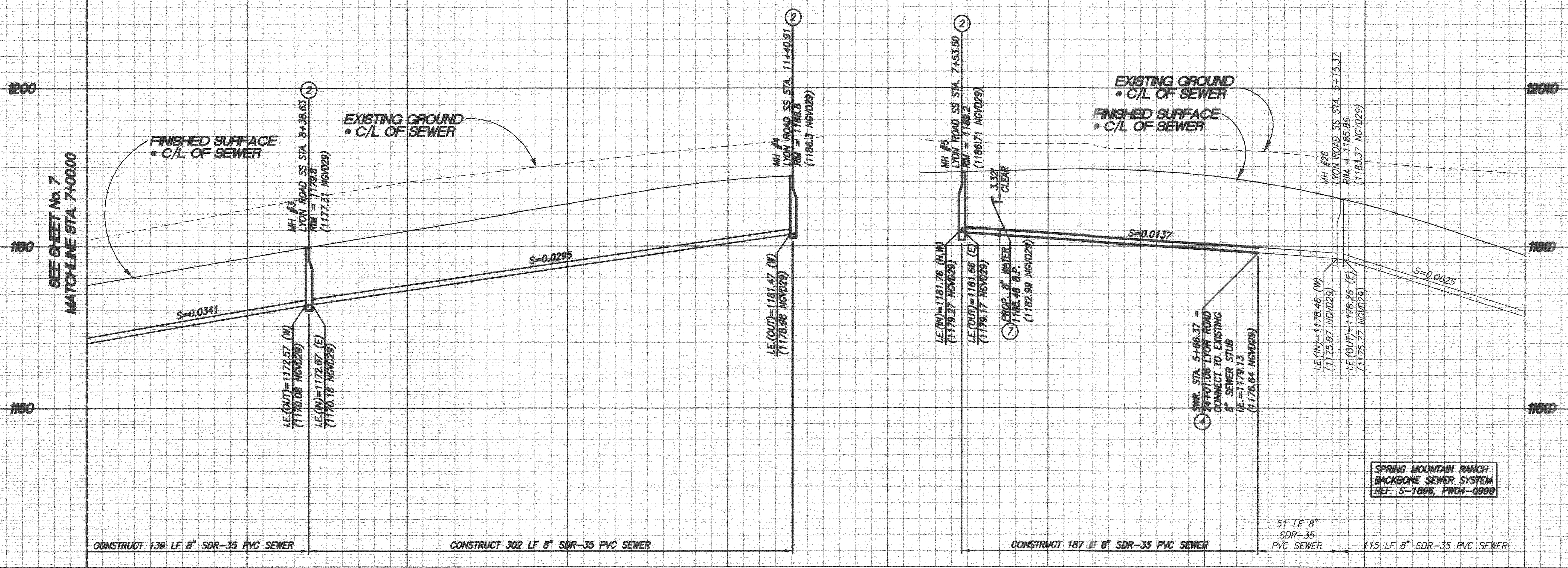
SHEET NO. 3

OF 7 SHTS.

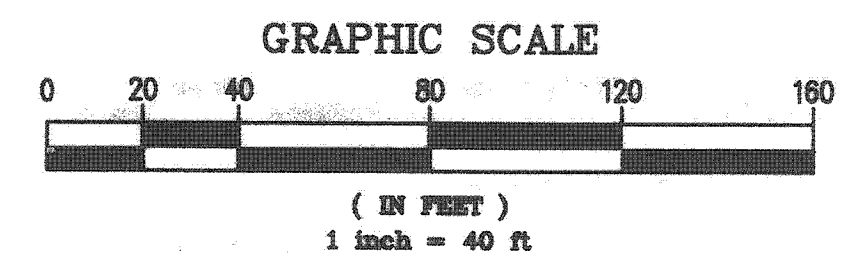
FOR: \_\_\_\_\_ W.O. \_\_\_\_\_ COUNTY FILE NO. \_\_\_\_\_

INDEXED 5-02-07 Lft + S 1/2/16 2899

K:\306200\2006\plan-plan\UNIT 2 - 29597\sewer\29597-02-03.dwg 1/24/2006 10:51:28 MST



- NOTE:**
1. ALL DATA TABLE LENGTHS ARE MEASURED TO CENTER OF MANHOLE.
  2. ALL PIPE SLOPES ARE CALCULATED FROM INSIDE MANHOLE WALL TO INSIDE MANHOLE WALL.
  3. CONTRACTOR TO VERIFY EXACT LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
  4. PRIOR TO THE INSTALLATION OF WATER MAINS AND FACILITIES, SEWERS AND STORM DRAINS, INCLUDING LATERALS SHALL BE INSTALLED.
- CONSTRUCTION NOTES**
1. INSTALL 8" SDR-35 PVC SEWER MAIN. BEDDING PER CITY OF RIVERSIDE STD. DWG. NO. 452
  2. CONSTRUCT SANITARY SEWER MANHOLE PER CITY OF RIVERSIDE STD. DWG. NO. 500
  3. INSTALL 4" PVC (SDR 35) SEWER LATERAL W/ CLEANOUT PER CITY OF RIVERSIDE STD. DWG. NO. 562A, 560
  4. REMOVE 8" PLUGS
  5. BACKWATER VALVE
  7. CAUTION! UTILITY CROSSING, SEE PROFILE FOR ELEVATIONS



SANITARY SEWER DATA TABLE					
NO.	BEARING/Delta	RADIUS	LENGTH	TANGENT	REMARKS
1	S89°22'17"E	-	138.63'	-	8" PVC
2	28°06'57"	616.00'	302.28'	154.25'	" "
3	N56°00'00"W	-	202.14'	-	" "

CITY OF RIVERSIDE  
RECOMMENDS APPROVAL

*Tom Byrd* 10/27/10  
CITY ENGINEER DATE

CITY OF RIVERSIDE DRAWING NO. S-1900  
WDID No. 833C327881 PW05-0224

NOTE: WORK CONTAINED WITHIN THESE PLANS SHALL NOT COMMENCE UNTIL AN ENCROACHMENT PERMIT AND/OR GRADING PERMIT HAS BEEN ISSUED.

THE PRIVATE ENGINEER SIGNING THESE PLANS IS RESPONSIBLE FOR ASSURING THE ACCURACY AND ACCEPTABILITY OF THE DESIGN HEREON. IN THE EVENT OF DISCREPANCIES AFTER COUNTY APPROVAL OR DURING CONSTRUCTION, THE PRIVATE ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING AN ACCEPTABLE SOLUTION AND REVISING THE PLANS FOR APPROVAL BY THE COUNTY.

DATE	BY	MARK	REVISIONS	APPR.	DATE

SEAL-COUNTY

COUNTY OF RIVERSIDE  
TRANSPORTATION DEPARTMENT  
APPROVED BY:

KHALED A. OTHMAN DATE: \_\_\_\_\_

SEAL

REGISTERED PROFESSIONAL ENGINEER  
KENT J. STEIN  
No. 61335  
Exp. 08-30-08  
CIVIL  
STATE OF CALIFORNIA

STANTEC CONSULTING INC.  
277 RANCHEROS DRIVE  
SUITE 300  
SAN MARCOS, CA 92069  
760.891.3200

PREPARED BY: *Kent J. Stein* R.C.E. NO. 56133  
DATE: 11/2/10

BENCHMARK  
SEE BENCHMARK NOTE ON SHEET 1

SCALE:  
HOR: AS SHOWN VERT: AS SHOWN

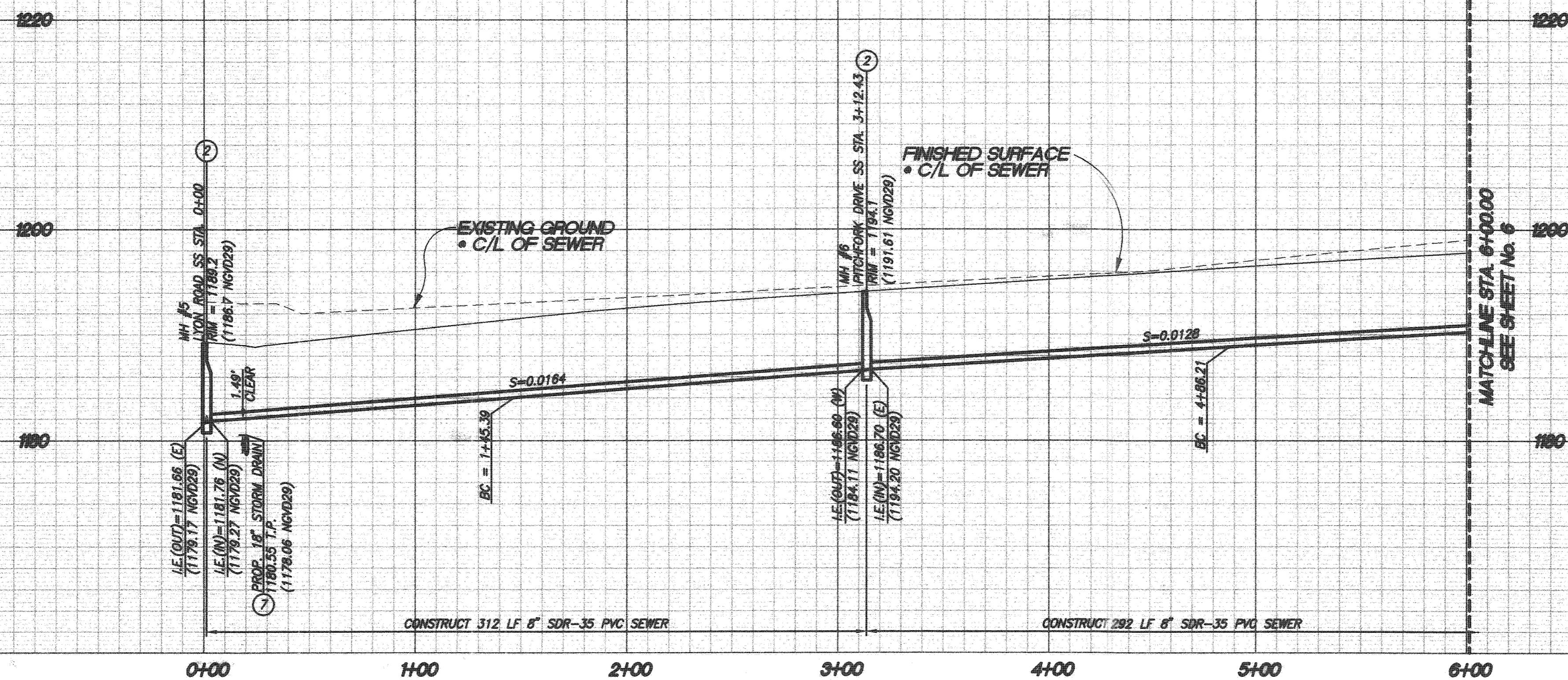
TRACT NO. 29597-2 IP NO. 050027  
COUNTY OF RIVERSIDE  
SEWER IMPROVEMENT PLANS  
SPRING MOUNTAIN RANCH

LYON ROAD

SHEET NO. 4  
OF 7 SHTS.

FOR: W.O. COUNTY FILE NO.

INDEXED 5-02-07 LHM 05 11/16/10



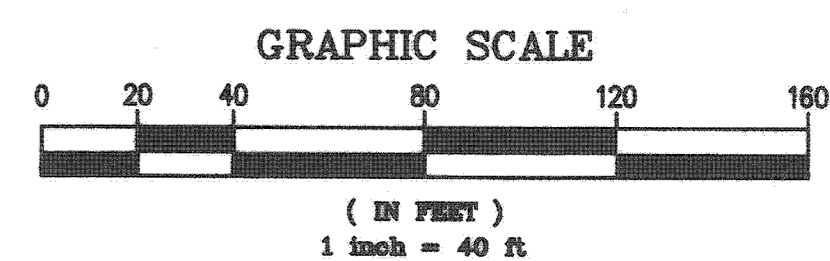
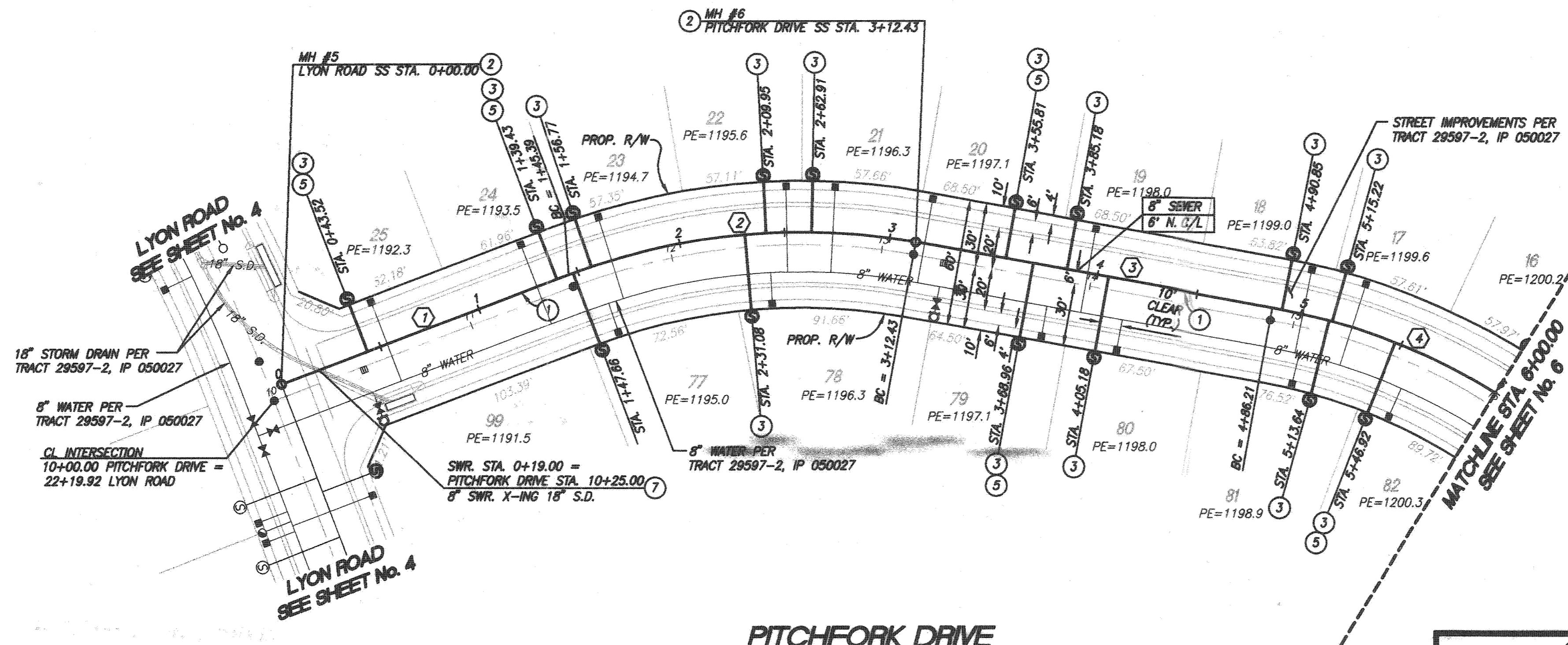
PROFILE SCALE:  
HORIZ: 1"=40'  
VERT: 1"=8'

**CONSTRUCTION NOTES**

1. INSTALL 8" SDR335 PVC SEWER MAIN. BEDDING PER CITY OF RIVERSIDE STD. DWG. NO. 452
2. CONSTRUCT SANITARY SEWER MANHOLE PER CITY OF RIVERSIDE STD. DWG. NO. 500
3. INSTALL 4" PVC(SDR 35) SEWER LATERAL W/ CLEANOUT PER CITY OF RIVERSIDE STD. DWG. NO. 562A, 560
5. BACKWATER VALVE
7. CAUTION! UTILITY CROSSING, SEE PROFILE FOR ELEVATIONS

**NOTE:**

1. ALL DATA TABLE LENGTHS ARE MEASURED TO CENTER OF MANHOLE.
2. ALL PIPE SLOPES ARE CALCULATED FROM INSIDE MANHOLE WALL TO INSIDE MANHOLE WALL.
3. CONTRACTOR TO VERIFY EXACT LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
4. PRIOR TO THE INSTALLATION OF WATER MAINS AND FACILITIES, SEWERS AND STORM DRAINS, INCLUDING LATERALS SHALL BE INSTALLED.



SANITARY SEWER DATA TABLE					
NO.	BEARING/Delta	RADIUS	LENGTH	TANGENT	REMARKS
1	N34°00'00"E	-	145.39'	-	8" PVC
2	31°16'39"	306.00'	167.04'	85.66'	" "
3	N85°16'39"E	-	173.78'	-	" "
4	21°18'23"	306.00'	113.79'	57.56'	" "

NOTES:  
STREET RIGHT-OF-WAY DEDICATION PER TRACT NO. 29597-2, M.B. \_\_\_\_\_

CITY OF RIVERSIDE  
RECOMMENDS APPROVAL  
*[Signature]*  
CITY ENGINEER  
DATE: 4/29/06

CITY OF RIVERSIDE DRAWING NO. S-1900  
WDID No. 833C327881 PW05-0224



NOTE: WORK CONTAINED WITHIN THESE PLANS SHALL NOT COMMENCE UNTIL AN ENCROACHMENT PERMIT AND/OR GRADING PERMIT HAS BEEN ISSUED.

THE PRIVATE ENGINEER SIGNING THESE PLANS IS RESPONSIBLE FOR ASSURING THE ACCURACY AND ACCEPTABILITY OF THE DESIGN HEREON. IN THE EVENT OF DISCREPANCIES AFTER COUNTY APPROVAL OR DURING CONSTRUCTION, THE PRIVATE ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING AN ACCEPTABLE SOLUTION AND REVISING THE PLANS FOR APPROVAL BY THE COUNTY.

DATE	BY	MARK	REVISIONS	APPR. DATE	COUNTY

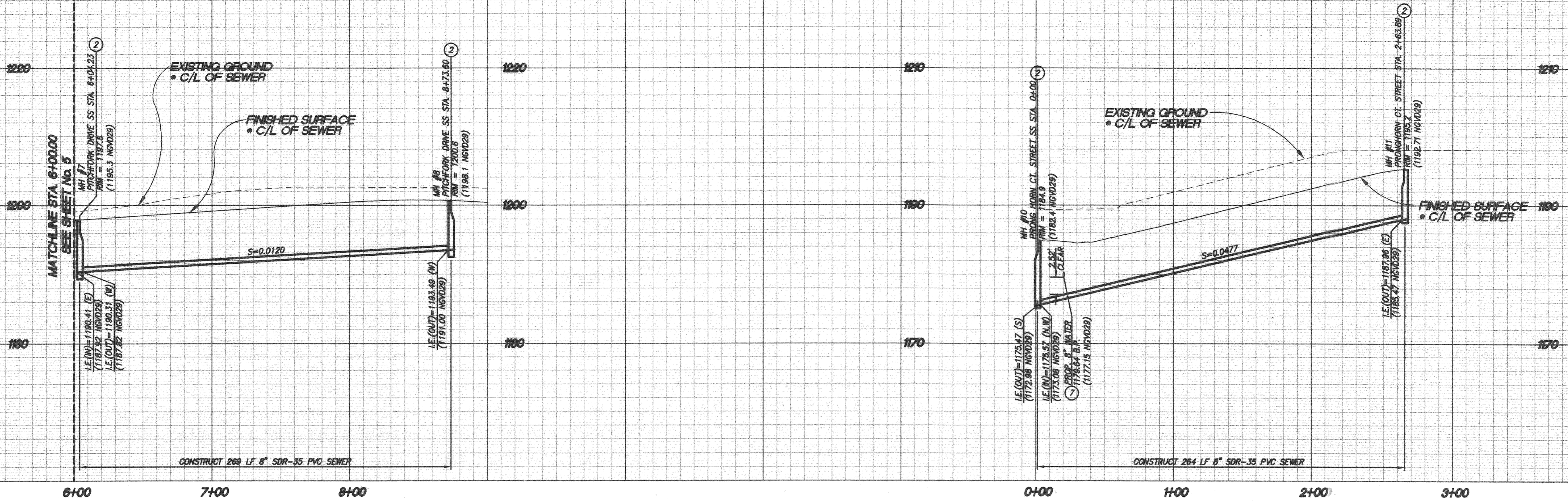
SEAL-COUNTY  
COUNTY OF RIVERSIDE  
TRANSPORTATION DEPARTMENT  
APPROVED BY:  
KHALED A. OTHMAN  
DATE: \_\_\_\_\_

SEAL  
REGISTERED PROFESSIONAL ENGINEER  
KENT J. STEPHAN  
No. 66133  
Exp. 06-30-06  
CIVIL  
STATE OF CALIFORNIA  
STANTEC CONSULTING INC.  
277 RANCHEROS DRIVE  
SUITE 300  
SAN MARCOS, CA 92069  
760.891.3200  
PREPARED BY: *[Signature]*  
KENT J. STEPHAN  
DATE: 4/29/06  
R.C.E. NO. 66133

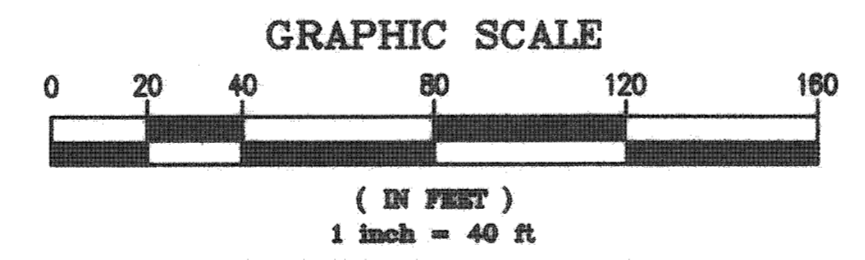
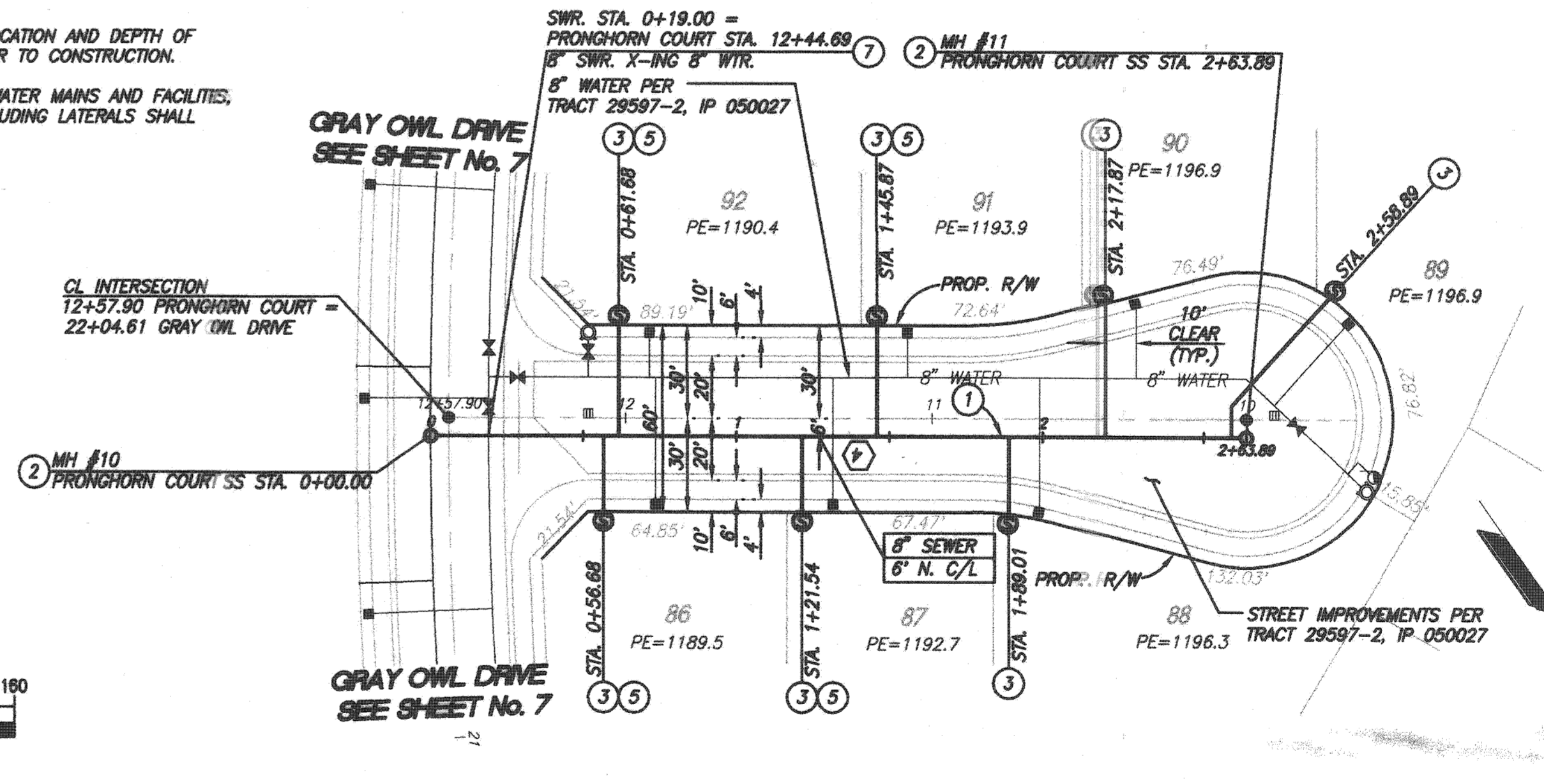
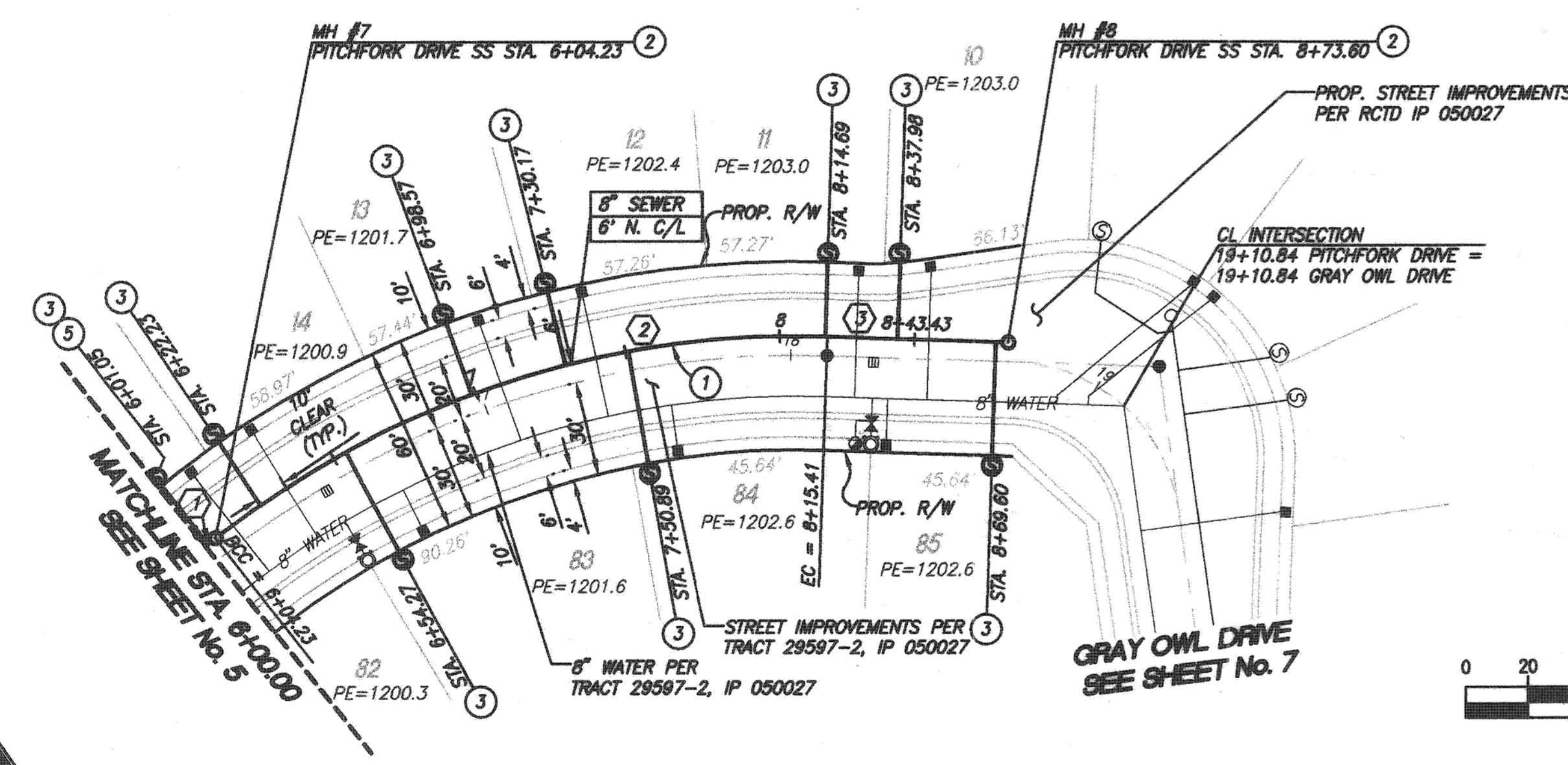
BENCHMARK  
SEE BENCHMARK NOTE ON SHEET 1  
SCALE:  
HOR: AS SHOWN VERT: AS SHOWN

TRACT NO. 29597-2 IP NO. 050027  
COUNTY OF RIVERSIDE  
SEWER IMPROVEMENT PLANS  
SPRING MOUNTAIN RANCH  
PITCHFORK DRIVE  
SHEET NO. 5 OF 7 SHTS.  
FOR: \_\_\_\_\_ W.O. \_\_\_\_\_ COUNTY FILE NO. \_\_\_\_\_

INDEXED S-02-07 4th r5 1/2/16



- NOTE:**
1. ALL DATA TABLE LENGTHS ARE MEASURED TO CENTER OF MANHOLE.
  2. ALL PIPE SLOPES ARE CALCULATED FROM INSIDE MANHOLE WALL TO INSIDE MANHOLE WALL.
  3. CONTRACTOR TO VERIFY EXACT LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
  4. PRIOR TO THE INSTALLATION OF WATER MAINS AND FACILITIES, SEWERS AND STORM DRAINS, INCLUDING LATERALS SHALL BE INSTALLED.



- CONSTRUCTION NOTES**
1. INSTALL 8" SDR 35 PVC SEWER MAIN. BEDDING PER CITY OF RIVERSIDE STD. DWG. NO. 482
  2. CONSTRUCT SANITARY SEWER MANHOLE PER CITY OF RIVERSIDE STD. DWG. NO. 500
  3. INSTALL 4" PVC (SDR 35) SEWER LATERAL W/ CLEANOUT PER CITY OF RIVERSIDE STD. DWG. NO. 582A, 580
  4. BACKWATER VALVE
  5. CAUTION! UTILITY CROSSING, SEE PROFILE FOR ELEVATIONS

**PRONGHORN COURT**

SANITARY SEWER DATA TABLE					
NO.	BEARING/DELTA	RADIUS	LENGTH	TANGENT	REMARKS
1	00°47'31"	306.00'	4.23'	2.11'	8" PVC
2	39°32'27"	306.00'	209.18'	109.99'	" "
3	S53°05'00"E	-	58.20'	-	" "
4	N55°01'33"W	-	263.89'	-	" "

CITY OF RIVERSIDE  
RECOMMENDS APPROVAL

*Alan Patel* 10/22/06  
CITY ENGINEER DATE

CITY OF RIVERSIDE DRAWING NO. S-1900

WDID No. 833C327881 PW05-0224

TRACT NO. 29597-2 IP NO. 050027 SHEET NO.

COUNTY OF RIVERSIDE  
SEWER IMPROVEMENT PLANS  
SPRING MOUNTAIN RANCH  
**PITCHFORK DRIVE & PRONGHORN COURT**  
OF 7 SHTS.



NOTE: WORK CONTAINED WITHIN THESE PLANS SHALL NOT COMMENCE UNTIL AN ENCROACHMENT PERMIT AND/OR GRADING PERMIT HAS BEEN ISSUED.

THE PRIVATE ENGINEER SIGNING THESE PLANS IS RESPONSIBLE FOR ASSURING THE ACCURACY AND ACCEPTABILITY OF THE DESIGN HEREON. IN THE EVENT OF DISCREPANCIES AFTER COUNTY APPROVAL OR DURING CONSTRUCTION, THE PRIVATE ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING AN ACCEPTABLE SOLUTION AND REVISING THE PLANS FOR APPROVAL BY THE COUNTY.

DATE	BY	MARK	REVISIONS	APPR. DATE	COUNTY

SEAL-COUNTY

COUNTY OF RIVERSIDE  
TRANSPORTATION DEPARTMENT  
APPROVED BY:

KHALED A. OTHMAN DATE: \_\_\_\_\_

RECOMMENDED DATE: \_\_\_\_\_

SEAL

REGISTERED PROFESSIONAL ENGINEER  
KENT J. STEPHAN  
No. 66133  
Exp. 06-30-06  
CIVIL  
STATE OF CALIFORNIA

STANTEC CONSULTING INC.  
277 RANCHEROS DRIVE  
SUITE 300  
SAN MARCOS, CA 92069  
760.891.3200

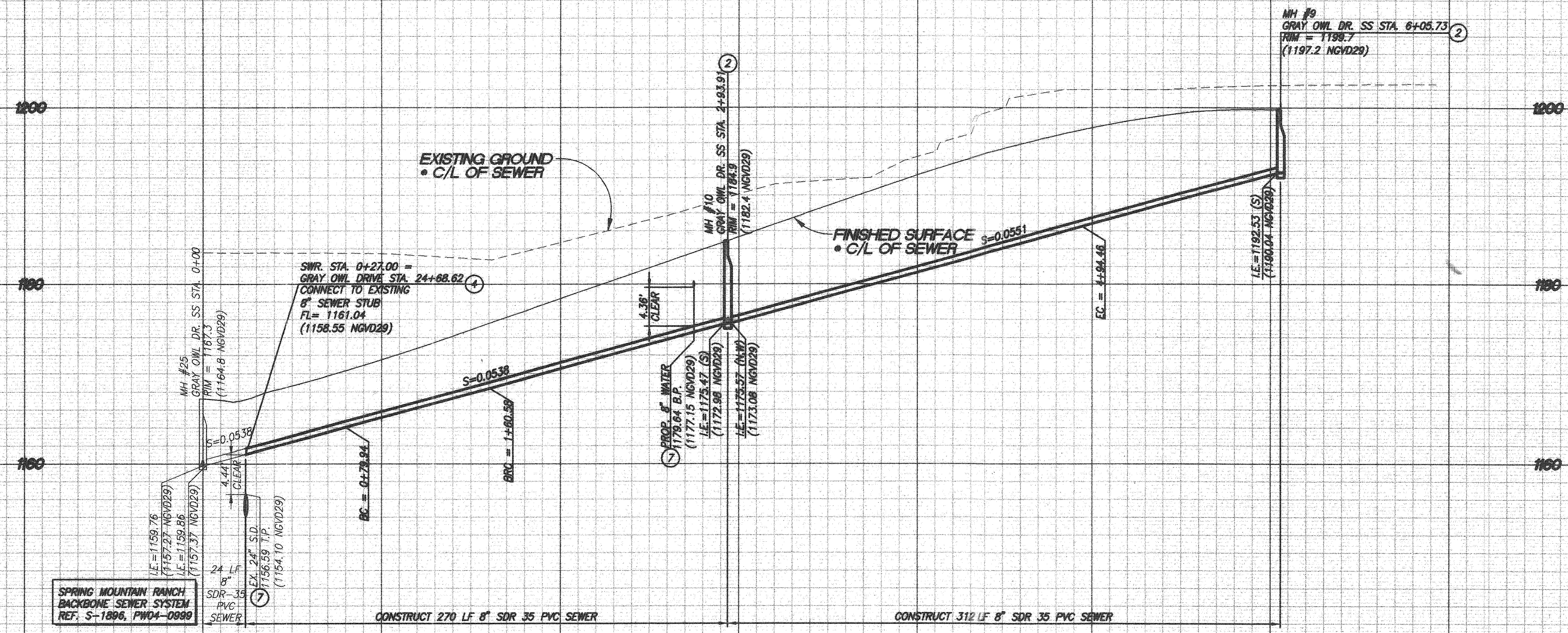
PREPARED BY: *Kent J. Stephan* R.C.E. No. 66133  
KENT J. STEPHAN DATE: 10/22/06

BENCHMARK  
SEE BENCHMARK NOTE ON SHEET 1

SCALE:  
HOR: AS SHOWN VERT: AS SHOWN

FOR: W.O. COUNTY FILE NO.

INDEXED 5-02-07 LHS JS 10/16/06



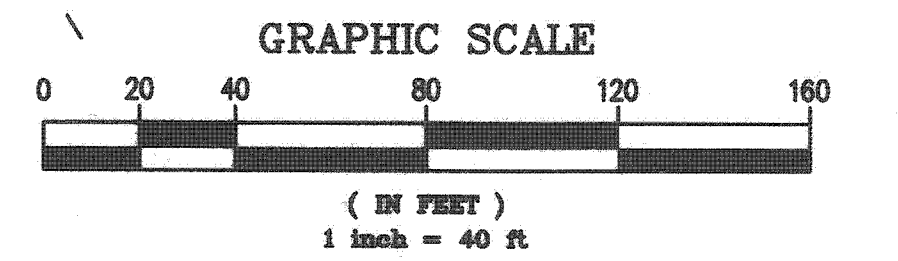
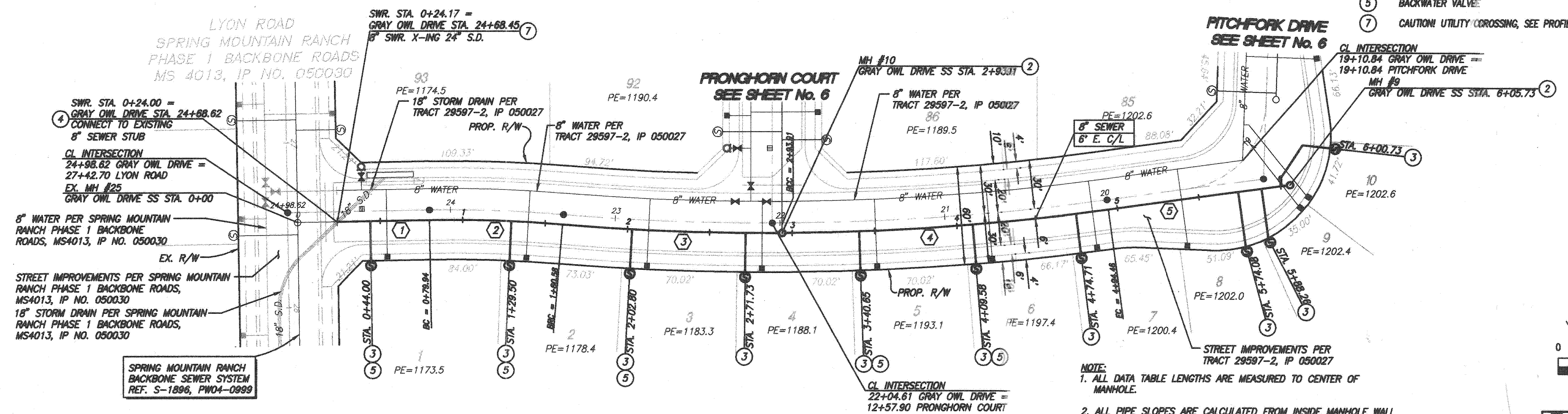
SPRING MOUNTAIN RANCH BACKBONE SEWER SYSTEM REF. S-1896, PWD4-0999

PROFILE SCALE  
HORIZ: 1"=40'  
VERT: 1"=8'

0+00 1+00 2+00 3+00 4+00 5+00 6+00

CONSTRUCTION/NOTES

1. INSTALL 8" SDR 35S PVC SEWER MAN. BEDDING PER CITY OF RIVERSIDE STD. DWG. NO. 452
2. CONSTRUCT SANITARY SEWER MANHOLE PER CITY OF RIVERSIDE STD. DWG. NO. 500
3. INSTALL 4" (SDR 35) SEWER LATERAL W/ CLEANOUT PER CITY OF RIVERSIDE STD. DWG. NO. 562A, 580
4. REMOVE 8" PLUG
5. BACKWATER VALVE
6. CAUTION! UTILITY CROSSING, SEE PROFILE FOR ELEVATIONS



SANITARY SEWER DATA TABLE					
NO.	BEARING/DELTA	RADIUS	LENGTH	TANGENT	REMARKS
1	N34°00'00"E	-	55.94'	-	8" PVC
2	05°48'08"	794.00'	80.64'	40.35'	" "
3	05°04'22"	1506.00'	133.34'	66.71'	" "
4	07°37'47"	1506.00'	200.54'	100.42'	" "
5	N27°06'58"E	-	111.28'	-	" "

- NOTE:
1. ALL DATA TABLE LENGTHS ARE MEASURED TO CENTER OF MANHOLE.
  2. ALL PIPE SLOPES ARE CALCULATED FROM INSIDE MANHOLE WALL TO INSIDE MANHOLE WALL.
  3. CONTRACTOR TO VERIFY EXACT LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
  4. PRIOR TO THE INSTALLATION OF WATER MAINS AND FACILITIES, SEWERS AND STORM DRAINS, INCLUDING LATERALS SHALL BE INSTALLED.

NOTES:  
STREET RIGHT-OF-WAY DEDICATION PER TRACT NO. 29597-2, M.B. \_\_\_\_\_

CITY OF RIVERSIDE  
RECOMMENDS APPROVAL  
*Alan Bird* 10/27/2006  
CITY ENGINEER DATE

CITY OF RIVERSIDE DRAWING NO. 8-1900  
WDID No. 833C327881 PW05-0224

TRACT NO. 29597-2 IP NO. 050027  
COUNTY OF RIVERSIDE  
SEWER IMPROVEMENT PLANS  
SPRING MOUNTAIN RANCH  
**GRAY OWL DRIVE**  
SHEET NO. 7 OF 7 SHTS.



NOTE: WORK CONTAINED WITHIN THESE PLANS SHALL NOT COMMENCE UNTIL AN ENCROACHMENT PERMIT AND/OR GRADING PERMIT HAS BEEN ISSUED.

THE PRIVATE ENGINEER SIGNING THESE PLANS IS RESPONSIBLE FOR ASSURING THE ACCURACY AND ACCEPTABILITY OF THE DESIGN HEREON. IN THE EVENT OF DISCREPANCIES AFTER COUNTY APPROVAL OR DURING CONSTRUCTION, THE PRIVATE ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING AN ACCEPTABLE SOLUTION AND REVISING THE PLANS FOR APPROVAL BY THE COUNTY.

DATE	BY	MARK	REVISIONS	APPR.	DATE

SEAL-COUNTY  
COUNTY OF RIVERSIDE  
TRANSPORTATION DEPARTMENT  
APPROVED BY:  
KHALED A. OTHMAN  
DATE: \_\_\_\_\_

SEAL  
REGISTERED PROFESSIONAL ENGINEER  
KENT J. STEPHAN  
No. 66133  
Exp. 06-30-06  
CIVIL  
STATE OF CALIFORNIA

STANTEC CONSULTING INC.  
277 RANCHEROS DRIVE  
SUITE 300  
SAN MARCOS, CA 92069  
760.891.3200  
Prepared By: *Kent J. Stephan*  
R.C.E. No. 66133  
DATE: 10/27/06

BENCHMARK  
SEE BENCHMARK NOTE ON SHEET 1  
SCALE:  
HOR: AS SHOWN VERT: AS SHOWN

FOR: \_\_\_\_\_ W.O. \_\_\_\_\_ COUNTY FILE NO. \_\_\_\_\_

I + S 10/16 2006