

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.

IN THE UNINCORPORATED TERRITORY OF THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA
C.F.D. #23 SEWER IMPROVEMENT PLANS
TRACT NO. 29597 & 29741
SPRING MOUNTAIN RANCH BACKBONE SEWER SYSTEM

NOTE:

CSA 152C SANITARY SERVICE IN THE HIGHROVE 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.

SEWER FACILITIES SHOWN ON THESE PLANS ARE OUTSIDE OF THE CITY OF RIVERSIDE LIMITS. THE CITY OF RIVERSIDE HAS ENTERED INTO AN AGREEMENT WITH THE COUNTY OF RIVERSIDE TO MAINTAIN AND OPERATE THESE FACILITIES (SEE ABOVE).

ALL MATERIALS USED AND INSTALLATION SHALL CONFORM TO RIVERSIDE COUNTY STANDARDS AND SPECIFICATIONS ORDINANCE 461.

SEPARATION REQUIREMENTS BETWEEN SEWER AND WATER LINES SHALL CONFORM TO STATE HEALTH CODE STANDARDS.

SEWER LATERALS SHALL BE INSTALLED ACCORDING TO COUNTY STANDARDS NO. 600 AND 601 OR PER SERVING AGENCY.

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.

LEGAL DESCRIPTION

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

ASSESSOR'S PARCEL NO.

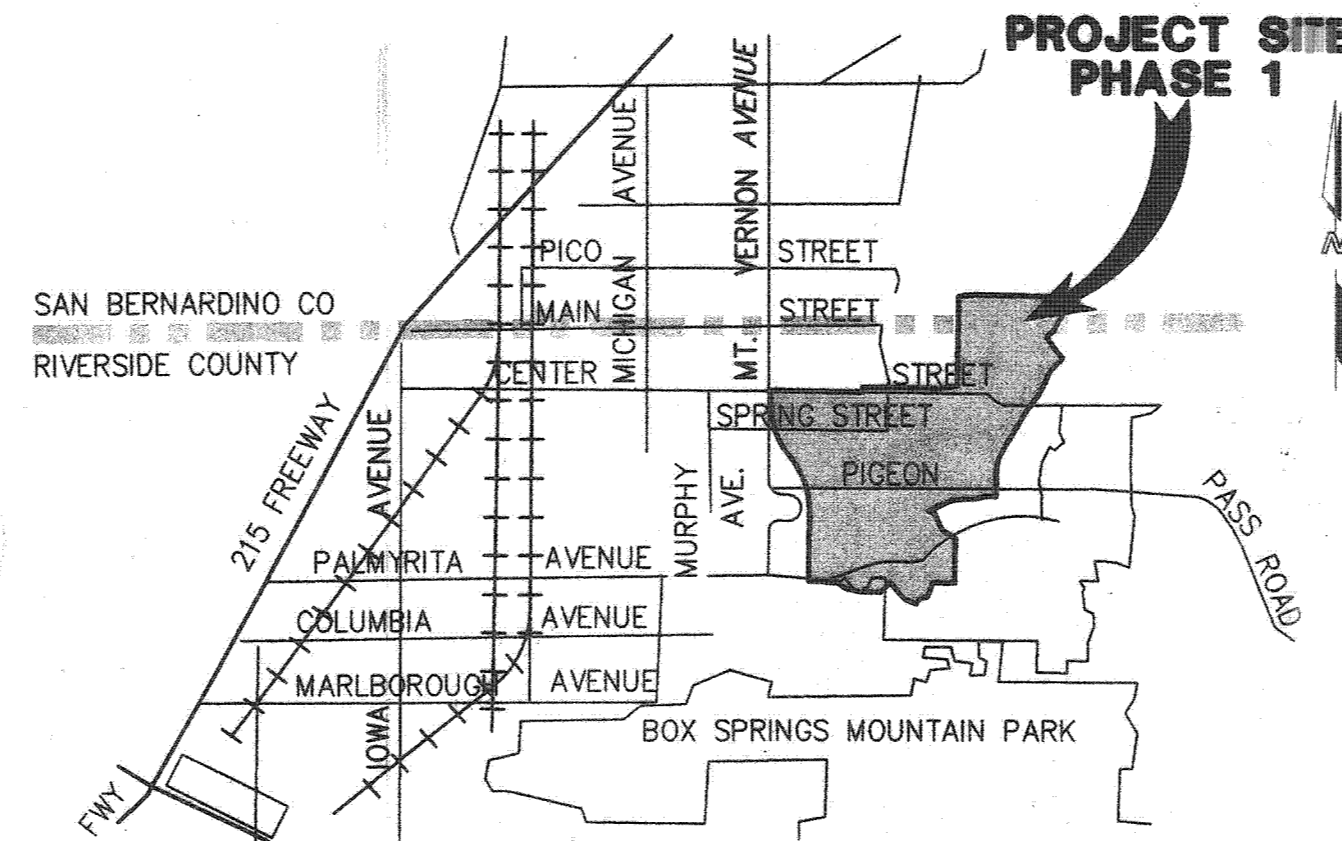
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UTILITY CONTACTS

- 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

SCHOOL DISTRICT

RIVERSIDE UNIFIED SCHOOL DISTRICT 951-788-7134



Thomas Guide (2004); page. 646, E-7
SECTION 9, TOWNSHIP 2 SOUTH, RANGE 4 WEST

ABBREVIATIONS

- AVE. AVENUE
BC BEGIN CURVE
BP BOTTOM OF PIPE
DIA. DIAMETER
DWG. DRAWING
EC END CURVE
EX EXISTING
FM FORCE-MAIN
GB GRADE BREAK
I.E. INVERT ELEVATION
LF LINEAR FEET
MH MANHOLE
NO. NUMBER
NPW NON-POTABLE WATER
PROP. PROPOSED
PVC POLYVINYL CHLORIDE
R/CFC & WCD RIVERSIDE COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT

OWNER / PERMITTEE

FHR HOMES, INC
2710 LOKER AVENUE WEST, STE. 350
CARLSBAD, CA 92008
(760) 918-6797

BY:

DOB TURI DATE
VCE PRESIDENT

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 PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

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
(760) 891-3200

Daniel A. Lee
R.C.E. 38396 DATE 2-4-06
EXPIRATION DATE: 03-31-07

LEGEND

- WATER LATERAL
SEWER LATERAL WITH CLEANOUT
FIRE HYDRANT

NOTE:

SEWER LOCATION IS 6' NORTH OR EAST OF CENTERLINE PER AGREEMENT BETWEEN THE CITY OF RIVERSIDE & RIVERSIDE COUNTY.

SHEET INDEX

Table with columns for TITLE SHEET, INDEX SHEET, and various stationing points like PIGEON PASS ROAD EAST, SPRING MOUNTAIN ROAD, etc.

ALL REVISIONS MARKED & PREPARED UNDER THE SUPERVISION OF:

Michael J. Boeck 1/27/15
MICHAEL J. BOECK DATE:
RCE NO. 66417 EXP. 06-30-16

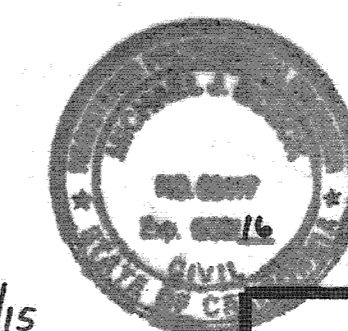
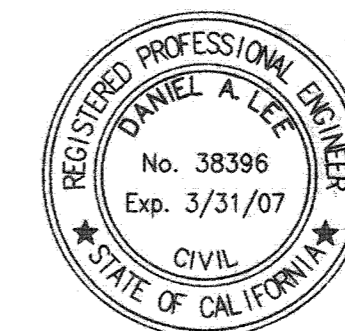


Table with columns: ENGINEER, REVISION, APPR, DATE. Includes entry for Michael J. Boeck on 01/15/15.

CITY OF RIVERSIDE RECOMMENDS APPROVAL

Thom Boyd 10/27/06
CITY ENGINEER DATE

CITY OF RIVERSIDE DRAWING # S-1896

WDID No. 833C327881 PW06-0020

COUNTY OF RIVERSIDE
C.F.D. SEWER IMPROVEMENT PLANS
SPRING MOUNTAIN RANCH
BACKBONE SYSTEM FOR TRACT 29597 AND 29741
29592, 29599, 29600, 29740
MS 4013

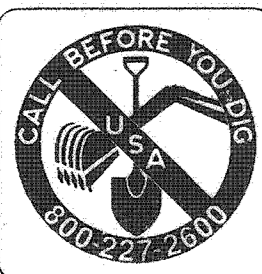
SHEET NO.

1

OF 26 SHTS.

TITLE SHEET

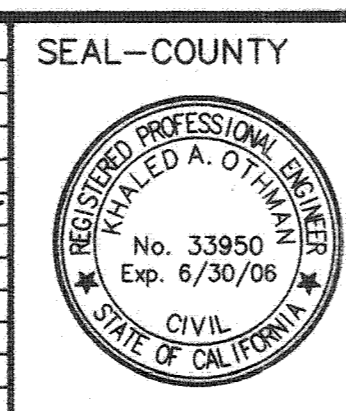
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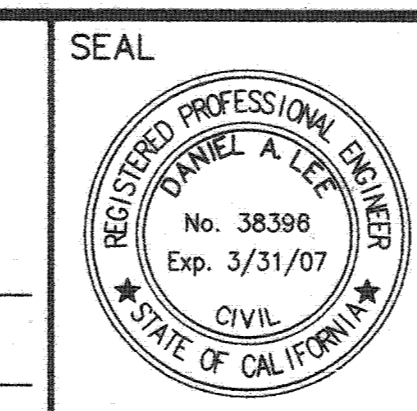
NOTE: WORK CONTAINED WITHIN THESE PLANS SHALL NOT COMMENCE UNTIL AN ENCROACHMENT PERMIT AND/OR GRADING PERMIT HAS BEEN ISSUED.

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. Includes entries for 6/07, 7/07, and 1/15.

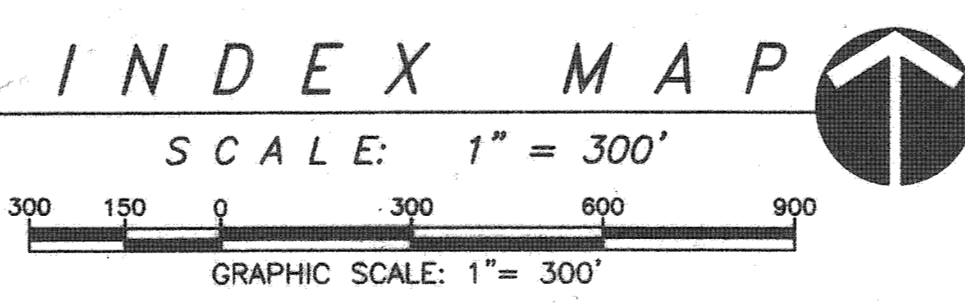
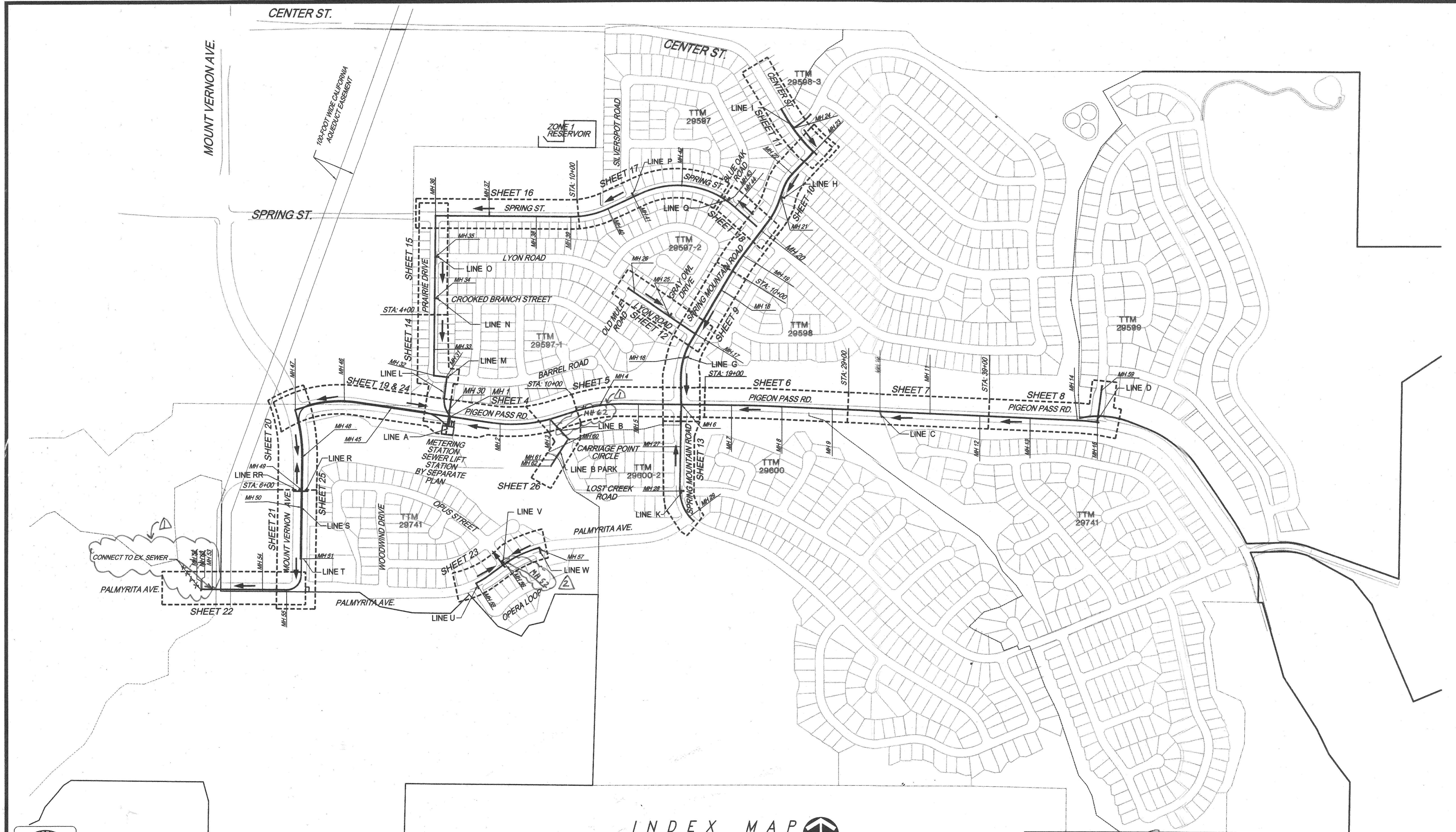


COUNTY OF RIVERSIDE
TRANSPORTATION DEPARTMENT
APPROVED BY:
KHALED A. OTHMAN DATE:



Stantec Consulting, Inc.
277 Rancheros Drive, Suite 300
San Marcos, CA 92069
Tel: (760) 891-3200
Fax: (760) 891-3201
www.stantec.com

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Fax: (760) 891-3201
www.stantec.com
R.C.E. NO. 38396
DATE: 2-4-06



NOTE: SEE INDIVIDUAL SHEETS FOR EASEMENT IDENTIFICATION

CITY OF RIVERSIDE
RECOMMENDS APPROVAL
Shirley Boyd 10/26/06
CITY ENGINEER DATE

CITY OF RIVERSIDE DRAWING # S-1896
WDID No. 833C327861 PW06-0020

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

| DATE | BY | MARK | REVISIONS | APPR. | DATE |
|------|----|------|--|-------|---------|
| 6/07 | DL | (1) | REVISIONS FOR LOWERING FORCENAINS RAISING LINE B + LINE B PARK PROFILE | | 6-27-07 |
| 7/07 | DL | (2) | REVISED SEWER AND ADDED MH#52 TO AVOID CONFLICTING WITH STORM DRAIN | | 7-10-07 |

SEAL-COUNTY
REGISTERED PROFESSIONAL ENGINEER
KHALED A. OTHMAN
No. 33950
Exp. 6/30/08
CIVIL
STATE OF CALIFORNIA

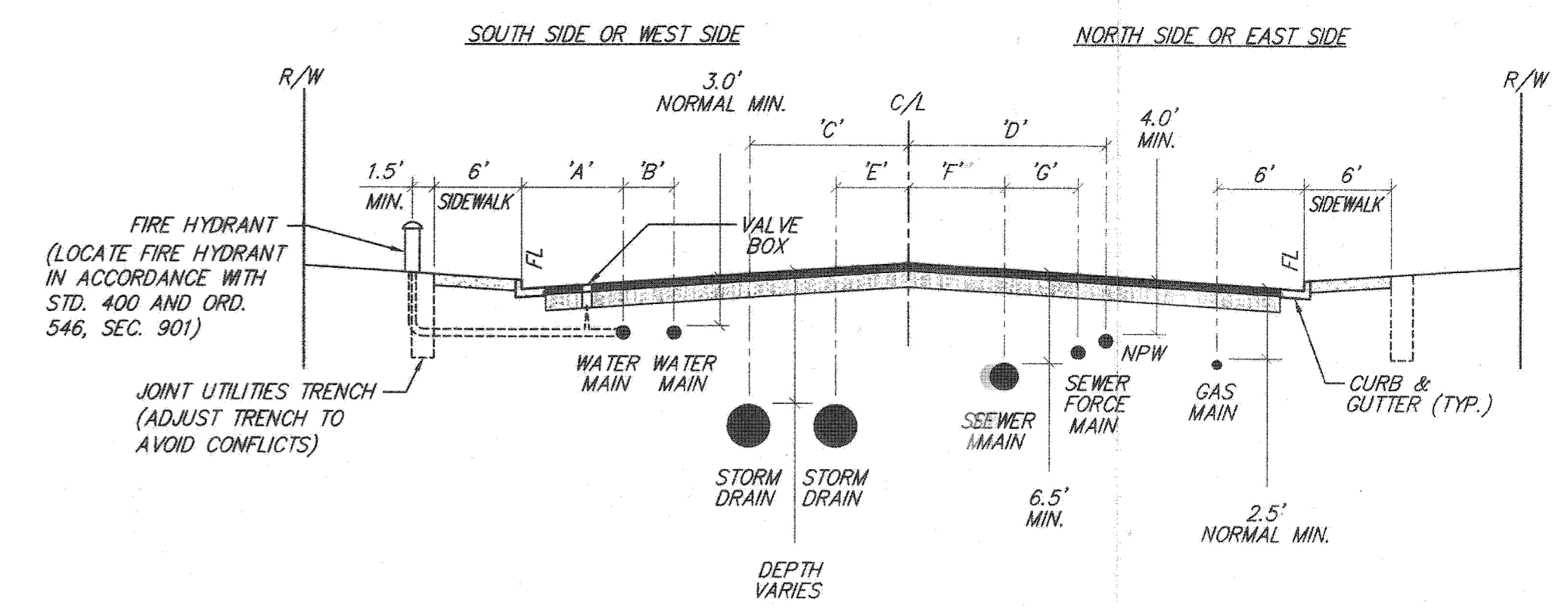
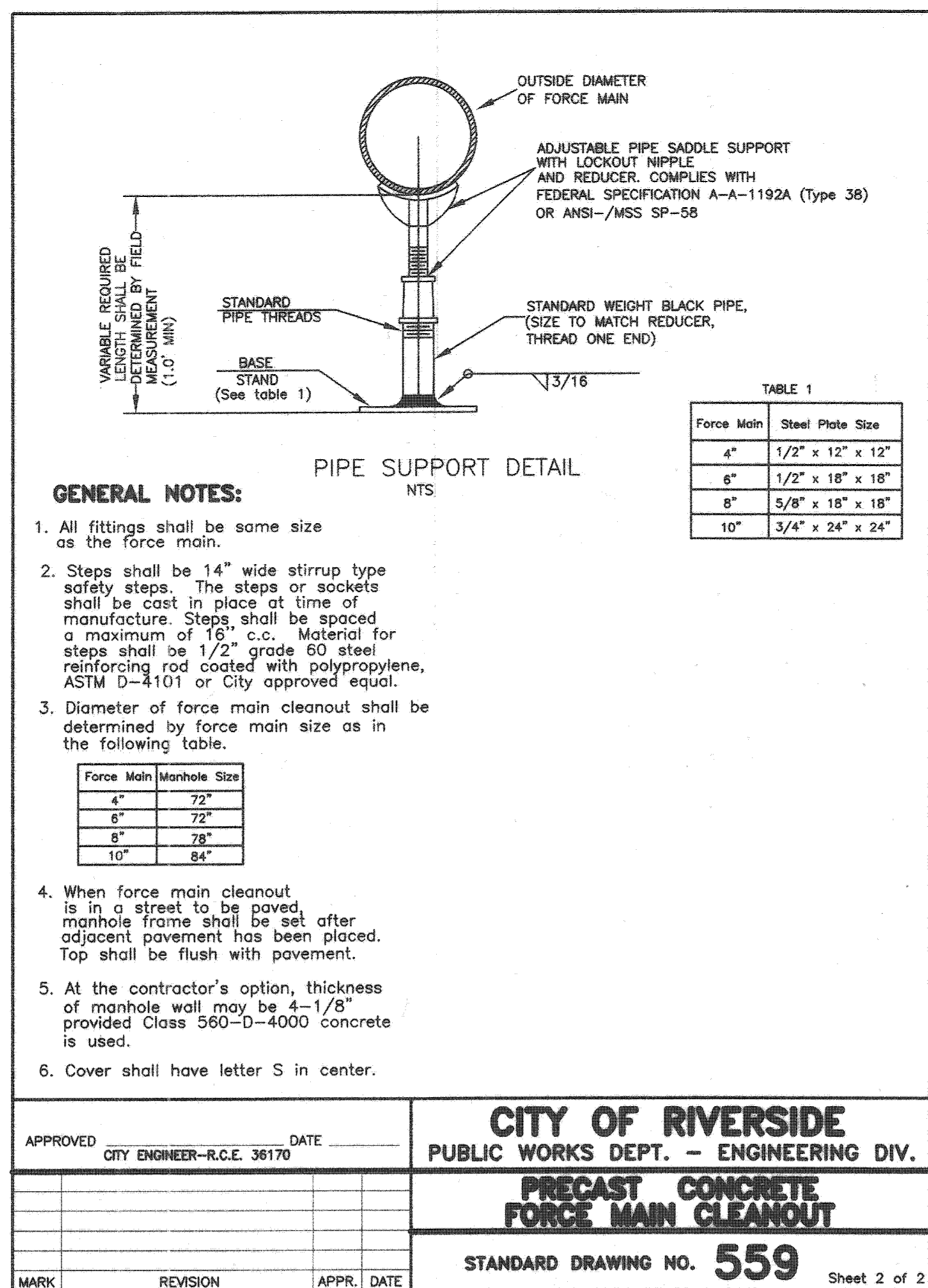
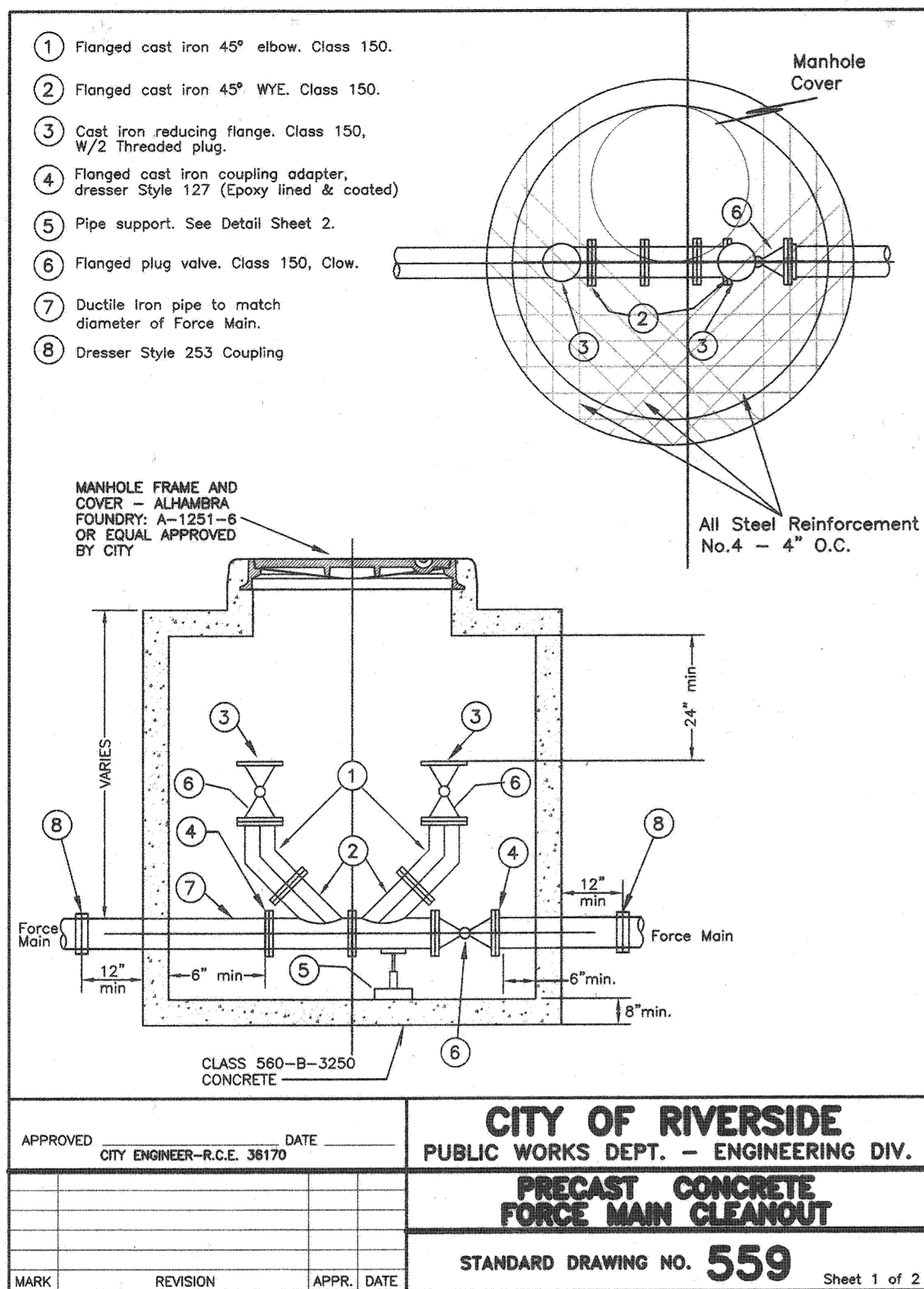
COUNTY OF RIVERSIDE
TRANSPORTATION DEPARTMENT
APPROVED BY:
KHALED A. OTHMAN DATE:
RECOMMENDED BY PBS & J DATE:

SEAL
REGISTERED PROFESSIONAL ENGINEER
DANIEL A. LEE
No. 38396
Exp. 3/31/07
CIVIL
STATE OF CALIFORNIA

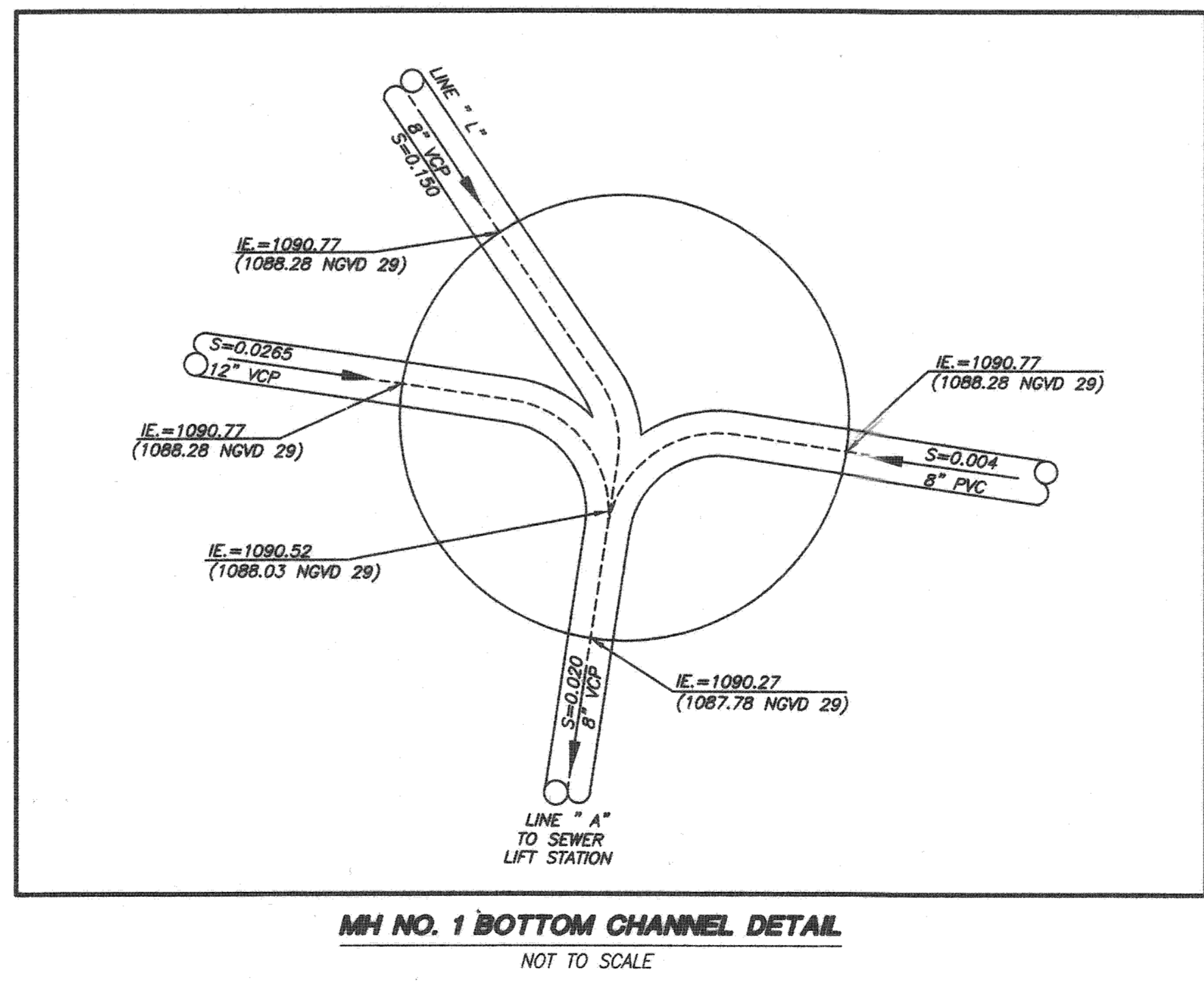
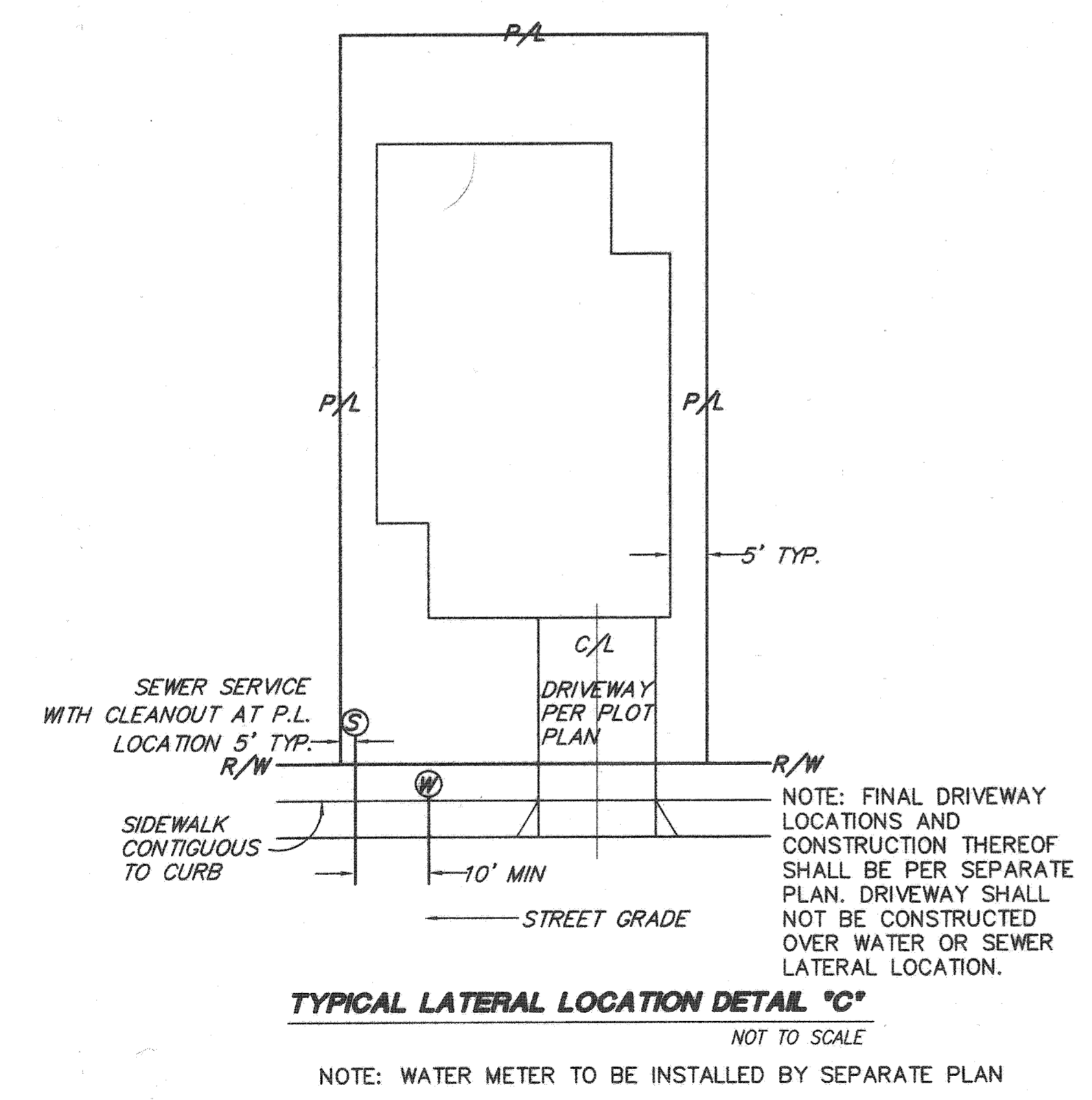
Stantec Consulting, Inc.
277 Rancheros Drive Suite 300
San Marcos, CA 92069
Tel. (760) 891-3200
Fax. (760) 891-3201
www.stantec.com
PREPARED BY: *Daniel A. Lee* R.C.E. NO. 38396
DATE: 6-28-06

SEE SHEET 1 FOR BENCHMARK IDATA
SCALE: 1"=300' VERT: AS SHOWN

COUNTY OF RIVERSIDE
C.F.D. SEWER IMPROVEMENT PLANS
SPRING MOUNTAIN RANCH
BACKBONE SYSTEM FOR TRACT 29597 AND 29741
29592, 29598, 29600, 29740
MS 4013
INDEX SHEET
SHEET NO. 2 OF 26 SHTS.



| STREET NAME | DIMENSIONS | | | | | | REMARKS |
|----------------------|------------|------|----|-----|----|----|-----------------------|
| | A' | B' | C' | D' | E' | G' | |
| MOUNT VERNON AVENUE | 7' | - | - | 17' | 6' | 6' | 6' |
| CENTER STREET | 5' | 3.5' | - | 15' | 6' | 6' | - |
| SPRING STREET | 7' | - | - | 12' | 6' | 6' | - |
| PRAIRIE DRIVE | 7' | - | - | - | 6' | 6' | PER RCTD STD. NO. 817 |
| PIGEON PASS ROAD | 7' | - | - | - | 6' | 6' | PER RCTD STD. NO. 817 |
| HIGHGROVE PLACE | 7' | - | - | - | 5' | - | - |
| PALMYRITA AVENUE | 7' | - | - | 12' | 6' | 6' | - |
| SPRING MOUNTAIN ROAD | 5' | 3.5' | - | 15' | 6' | 6' | - |
| LYON ROAD | 7' | - | - | - | 6' | 6' | PER RCTD STD. NO. 817 |
| OLD MULE ROAD | 7' | - | - | - | - | - | - |
| STOCKYARD ROAD | 5' | 3.5' | - | 13' | 6' | 6' | - |
| IRON RAIL DRIVE | - | - | - | 12' | - | - | - |
| WALKING BEAM DRIVE | - | - | - | 12' | - | - | - |



TYPICAL UNDERGROUND UTILITY LOCATIONS DETAIL "E"
 NOT TO SCALE



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| DATE | BY | MARK | REVISIONS | APPR. | DATE |
|------|----|------|-----------|-------|------|
| | | | | | |

SEAL-COUNTY

REGISTERED PROFESSIONAL ENGINEER

KHALED A. OTHMAN

No. 33950

Exp. 6/30/06

CIVIL

STATE OF CALIFORNIA

COUNTY OF RIVERSIDE

TRANSPORTATION DEPARTMENT

APPROVED BY:

KHALED A. OTHMAN

DATE:

SEAL

REGISTERED PROFESSIONAL ENGINEER

DANIEL A. LEE

No. 38396

Exp. 3/31/07

CIVIL

STATE OF CALIFORNIA

Stantec Consulting, Inc.

277 Rancheros Drive Suite 300

San Marcos, CA 92069

Tel. (760) 891-3200

Fax. (760) 891-3201

www.stantec.com

R.C.E. No. 38396

DATE: 2-4-06

CITY OF RIVERSIDE

RECOMMENDS APPROVAL

Steve Bied

10/12/06

CITY ENGINEER

DATE

CITY OF RIVERSIDE DRAWING # S-1896

WDID No. 833C327881

PW06-0020

COUNTY OF RIVERSIDE

C.F.D. SEWER IMPROVEMENT PLANS

SPRING MOUNTAIN RANCH

BACKBONE SYSTEM FOR TRACT 29597 AND 29741

29592, 29599, 29600, 29740

MS 4013

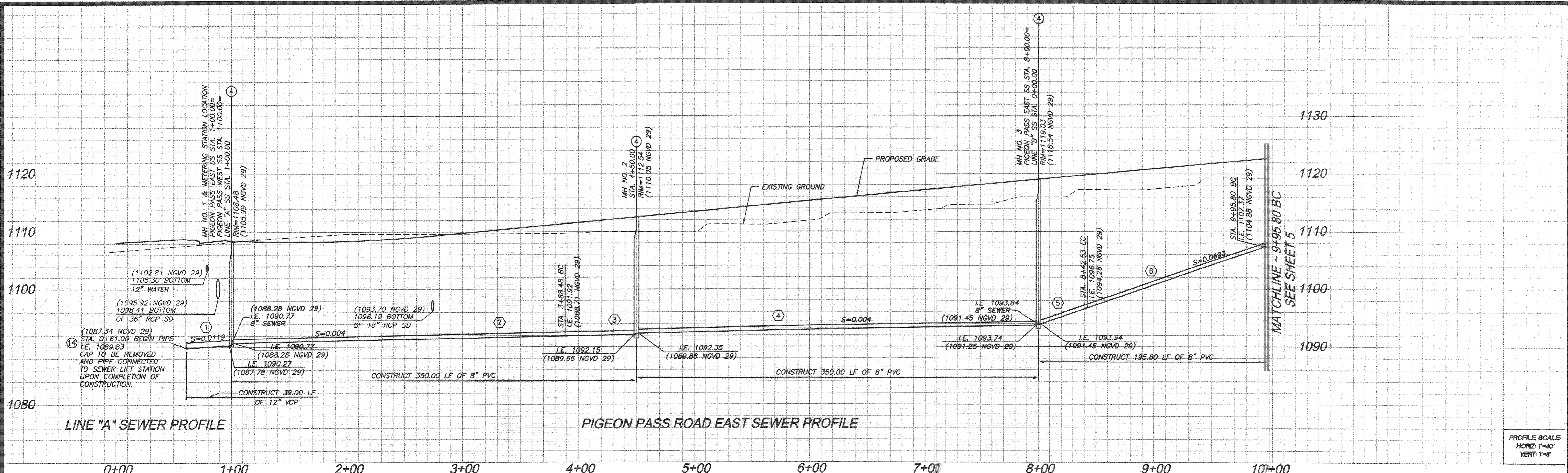
DETAIL SHEET

SHEET NO. 3

OF 26 SHTS.

SEE SHEET 1 FOR BENCHMARK IDATA

SCALE: HOR: 1"=40' VERT: AS SHOWN



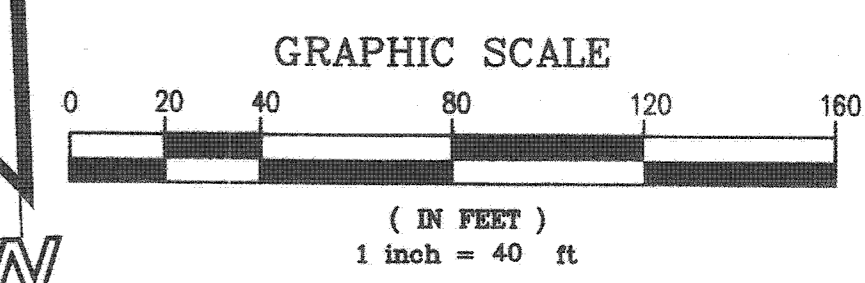
PROFILE SCALE
HORIZ: 1"=40'
VERT: 1"=8'

| NO. | BEARING/Delta | RADIUS | LENGTH | TANGENT | REMARKS |
|-----|---------------|---------|---------|---------|---------|
| 1 | S08°36'56"E | - | 39.00' | - | 12" VCP |
| 2 | S81°21'12"E | - | 288.48' | - | 8" PVC |
| 3 | A=03°32'46" | 994.00' | 61.52' | 30.77' | " " |
| 4 | A=20°10'28" | 994.00' | 350.00' | 176.83' | " " |
| 5 | A=02°27'07" | 994.00' | 42.54' | 21.27' | " " |
| 6 | N72°28'27"E | - | 153.26' | - | " " |
| 7 | S25°28'18"E | - | 39.63' | - | " " |

NOTE:
ALL DATA TABLE PIPE LENGTHS ARE MEASURED TO CENTER OF MANHOLE.
ALL PIPE SLOPES ARE CALCULATE FROM INSIDE MANHOLE WALL TO INSIDE MANHOLE WALL.

- CONSTRUCTION NOTES:**
- ③ INSTALL 8" PVC (SDR 35) SEWER MAIN. BEDDING PER CITY OF RIVERSIDE STD. DWG. NO. 452.
 - ④ CONSTRUCT SANITARY SEWER MANHOLE PER CITY OF RIVERSIDE STD. DWG. NO. 500.
 - ⑮ INSTALL 12" VCP SEWER MAIN. BEDDING PER CITY OF RIVERSIDE STD. DWG. NO. 452.

NOTE:
ALL WATER AND NON POTABLE WATER LINES SHOWN ON THIS SHEET IS PROPOSED PER RIVERSIDE HIGHLAND WATER COMPANY IMPROVEMENT PLANS
ALL STORM DRAIN SHOWN ON THIS SHEET IS PROPOSED PER COUNTY OF RIVERSIDE MISCELLANEOUS DRAWING (MS) 4013 IMPROVEMENT PLANS



SCALE: 1"=40'

NOTE:
SEWER EASEMENT DEDICATION PER DOCUMENT NO. _____ DATED _____

NOTE:
STREET RIGHT-OF-WAY DEDICATION PER DOCUMENT NO. _____ DATED _____

NOTE:
SEWER EASEMENT DEDICATION PER DOCUMENT NO. _____ DATED _____

NOTE:
SEWER EASEMENT DEDICATION PER DOCUMENT NO. _____ DATED _____



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| DATE | BY | MARK | REVISIONS | APPR. | DATE |
|------|----|------|-----------|-------|------|
| | | | | | |

SEAL-COUNTY
REGISTERED PROFESSIONAL ENGINEER
KHALED A. OTHMAN
No. 33950
Exp. 6/30/06
CIVIL
STATE OF CALIFORNIA

COUNTY OF RIVERSIDE
TRANSPORTATION DEPARTMENT
APPROVED BY:
KHALED A. OTHMAN
DATE: _____
RECOMMENDED BY PBS & J
DATE: _____

SEAL
REGISTERED PROFESSIONAL ENGINEER
DANIEL A. LEE
No. 38396
Exp. 3/31/07
CIVIL
STATE OF CALIFORNIA

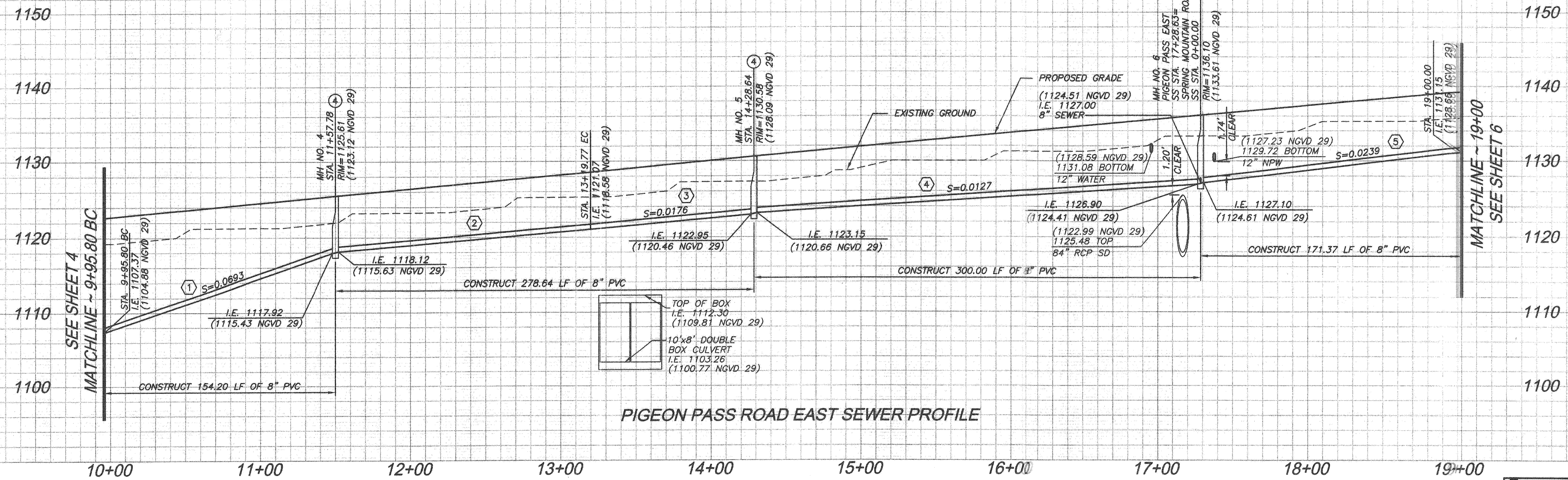
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Tel. (760) 891-3200
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www.stantec.com
FORWARD BY: DANIEL A. LEE
R.C.E. NO. 38396
DATE: 2-4-06

CITY OF RIVERSIDE
RECOMMENDS APPROVAL
CITY ENGINEER: [Signature]
DATE: 10/12/06

CITY OF RIVERSIDE DRAWING # S-1896
WDID No. 833C327881 PW06-0020

COUNTY OF RIVERSIDE
C.F.D. SEWER IMPROVEMENT PLANS
SPRING MOUNTAIN RANCH
BACKBONE SYSTEM FOR TRACT 29597 AND 29741
29592, 29599, 29600, 29740
MS 4013
PIGEON PASS ROAD EAST
STA. 0+00 TO STA. 9+95.80
SHEET NO. 4 OF 26 SHTS.
FOR: _____ W.O. _____ COUNTY FILE NO. _____

INDEXED 5-02-07 Lfh



PIGEON PASS ROAD EAST SEWER PROFILE

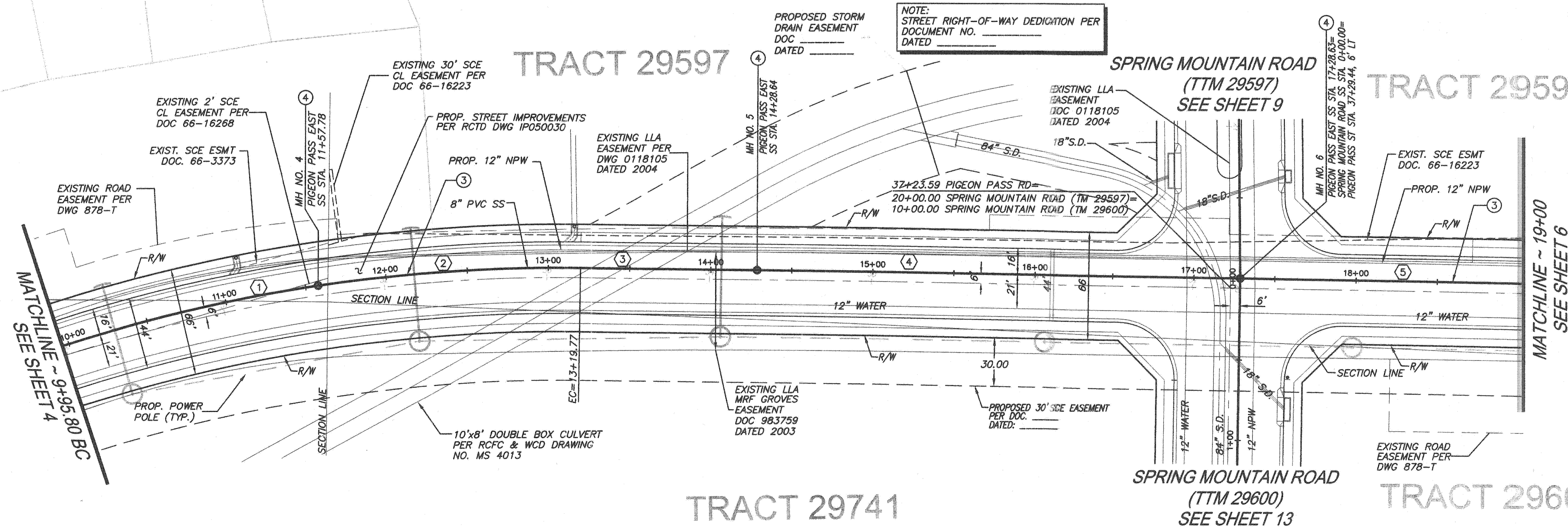
PROFILE SCALE:
HORIZ: 1"=40'
VERT: 1"=8'

| SANITARY SEWER DATA TABLE | | | | | |
|---------------------------|---------------|----------|---------|---------|---------|
| NO. | BEARING/Delta | RADIUS | LENGTH | TANGENT | REMARKS |
| 1 | A=09°13'33" | 1006.00' | 161.99' | 81.17' | 8" PVC |
| 2 | A=09°13'33" | 1006.00' | 161.99' | 81.17' | " " |
| 3 | S89°04'27"E | - | 108.86' | - | " " |
| 4 | S89°04'27"E | - | 300.00' | - | " " |
| 5 | S89°04'27"E | - | 171.37' | - | " " |

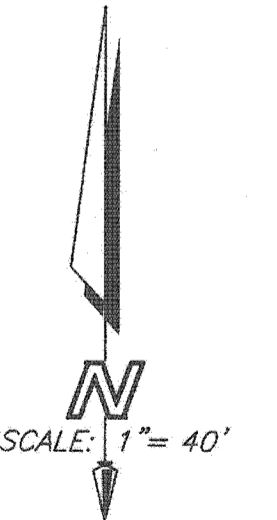
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 - ④ CONSTRUCT SANITARY SEWER MANHOLE PER CITY OF RIVERSIDE STD. DWG. NO. 500.

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ALL STORM DRAIN SHOWN ON THIS SHEET IS PROPOSED PER COUNTY OF RIVERSIDE MISCELLANEOUS DRAWING (MS) 4013 IMPROVEMENT PLANS



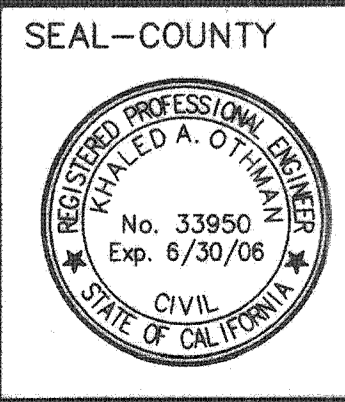
PIGEON PASS ROAD EAST



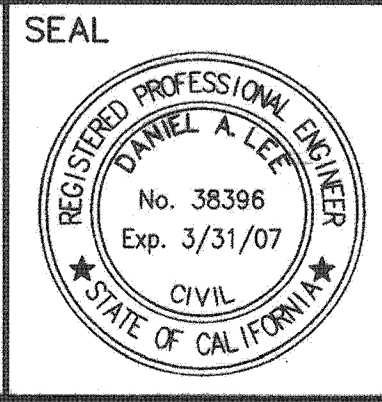
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| DATE | BY | MARK | REVISIONS | APPR. | DATE |
|------|----|------|-----------|-------|------|
| | | | | | |



COUNTY OF RIVERSIDE
TRANSPORTATION DEPARTMENT
APPROVED BY:
KHALED A. OTHMAN DATE: _____
RECOMMENDED BY PBS & J DATE: _____



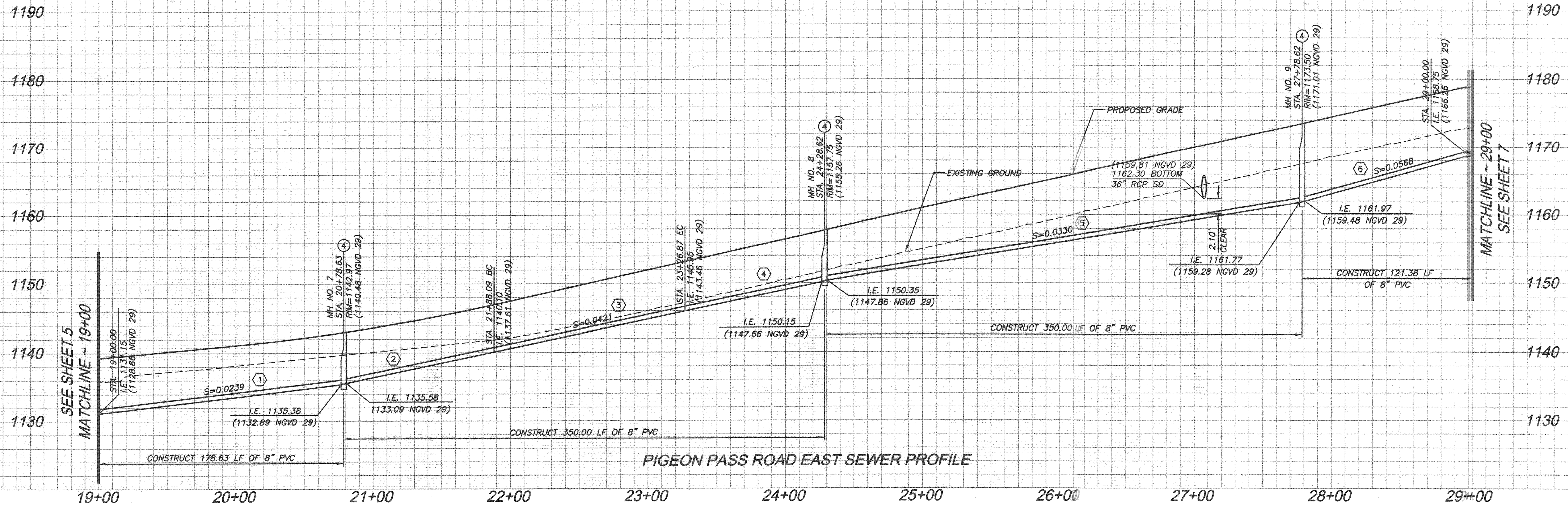
Stantec Consulting, Inc.
277 Rancheros Drive Suite 300
San Marcos, CA 92069
Tel. (760) 891-3200
Fax. (760) 891-3201
www.stantec.com
R.C.E. NO. 38396
DATE: 2-1-06

CITY OF RIVERSIDE
RECOMMENDS APPROVAL
Paul Boyd 10/21/06
CITY ENGINEER DATE

CITY OF RIVERSIDE DRAWING # S-1896
WDID No. 833C327881 PW06-0020

COUNTY OF RIVERSIDE
C.F.D. SEWER IMPROVEMENT PLANS
SPRING MOUNTAIN RANCH
BACKBONE SYSTEM FOR TRACT 29597 AND 29741
29592, 29599, 29600, 29740
MS 4013
PIGEON PASS ROAD EAST
STA. 9+95.80 TO STA. 19+00
SHEET NO. 5 OF 26 SHTS.

INDEXED 5-02-07 4H

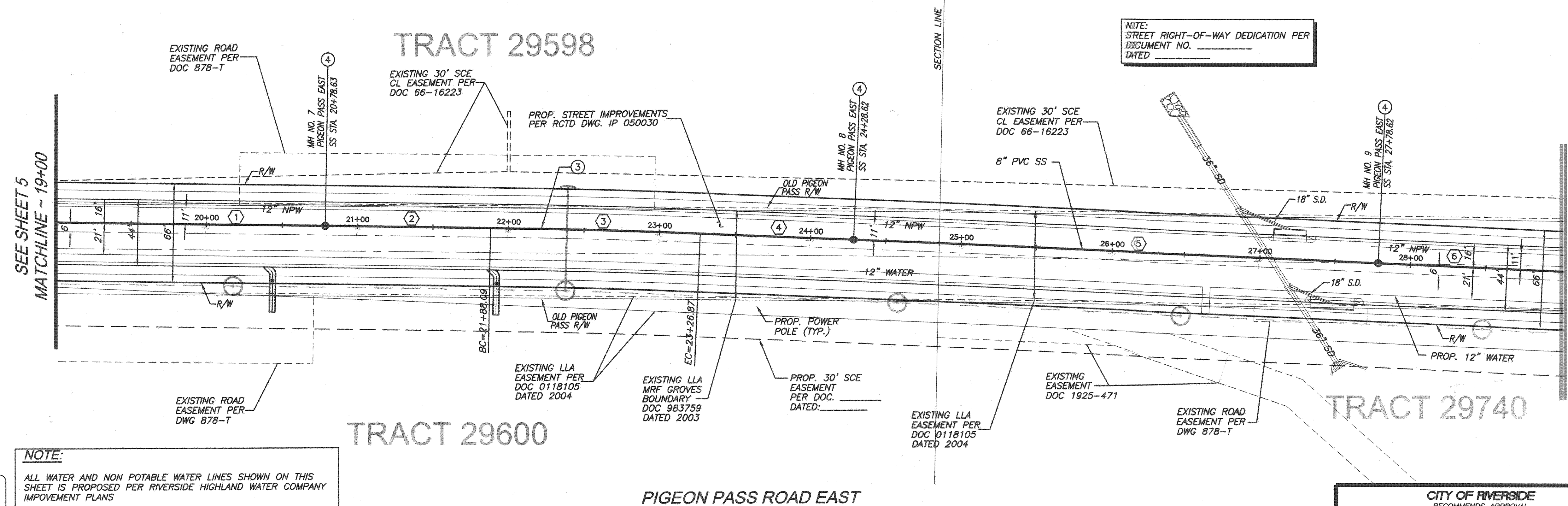


SANITARY SEWER DATA TABLE

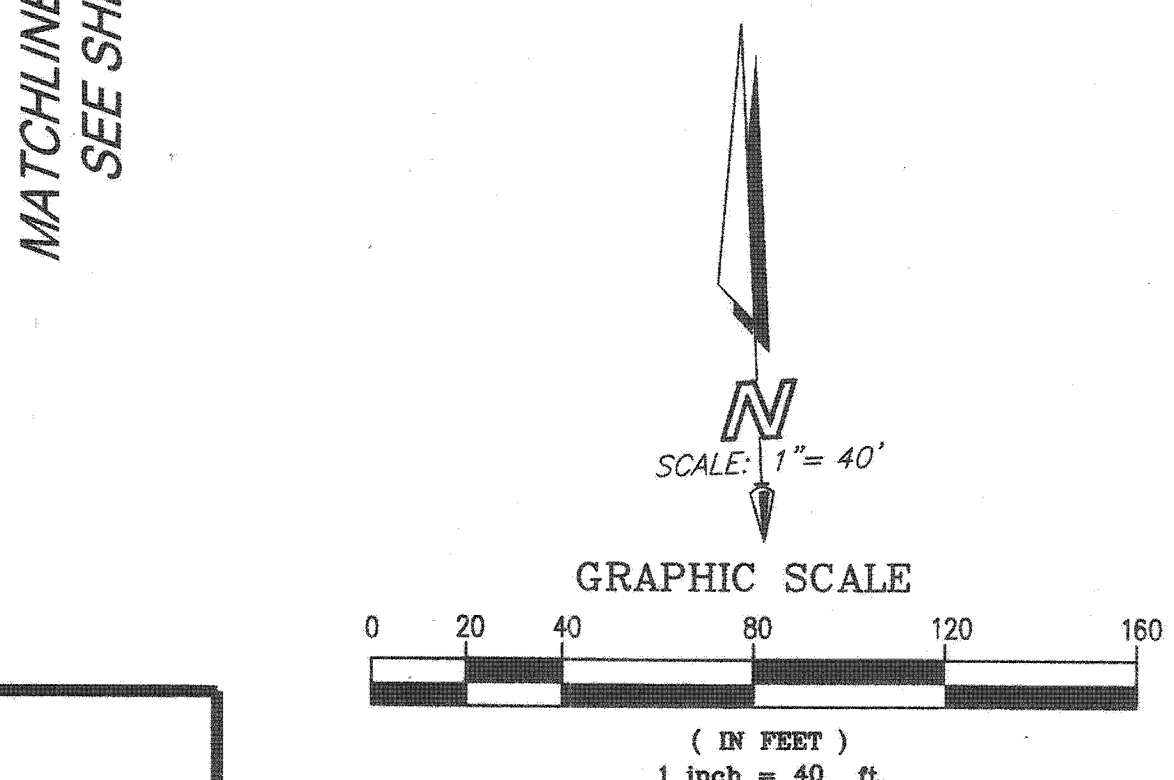
| NO. | BEARING/DELTA | RADIUS | LENGTH | TANGENT | REMARKS |
|-----|---------------|----------|---------|---------|---------|
| 1 | S89°04'27"E | 178.63' | 178.63' | - | 8" PVC |
| 2 | S89°04'27"E | - | 109.46' | - | " " |
| 3 | A=01°35'18" | 5006.00' | 138.79' | 69.40' | " " |
| 4 | S87°29'09"E | - | 101.75' | - | " " |
| 5 | S87°29'09"E | - | 350.00' | - | " " |
| 6 | S87°29'09"E | - | 121.38' | - | " " |

NOTE:
 ALL DATA TABLE PIPE LENGTHS ARE MEASURED TO CENTER OF MANHOLE.
 ALL PIPE SLOPES ARE CALCULATE FROM INSIDE MANHOLE WALL TO INSIDE MANHOLE WALL.

CONSTRUCTION NOTES:
 ③ INSTALL 8" PVC (SDR 35) SEWER MAIN. BEDDING PER CITY OF RIVERSIDE STD. DWG. NO. 452.
 ④ CONSTRUCT SANITARY SEWER MANHOLE PER CITY OF RIVERSIDE STD. DWG. NO. 500.



NOTE:
 ALL WATER AND NON POTABLE WATER LINES SHOWN ON THIS SHEET IS PROPOSED PER RIVERSIDE HIGHLAND WATER COMPANY IMPROVEMENT PLANS
 ALL STORM DRAIN SHOWN ON THIS SHEET IS PROPOSED PER COUNTY OF RIVERSIDE MISCELLANEOUS DRAWING (MS) 4013 IMPROVEMENT PLANS



CITY OF RIVERSIDE
 RECOMMENDS APPROVAL
 [Signature] 10/27/06
 CITY ENGINEER DATE

CITY OF RIVERSIDE DRAWING # S-1896
 WDID No. 833C327881 PW06-0020

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

| DATE | BY | MARK | REVISIONS | APPR. | DATE |
|------|----|------|-----------|-------|------|
| | | | | | |

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

SEAL
 REGISTERED PROFESSIONAL ENGINEER
 DANIEL A. LEE
 No. 38396
 Exp. 3/31/07
 CIVIL
 STATE OF CALIFORNIA

Stantec Consulting, Inc.
 277 Rancheros Drive Suite 300
 San Marcos, CA 92069
 Tel. (760) 891-3200
 Fax. (760) 891-3201
 www.stantec.com

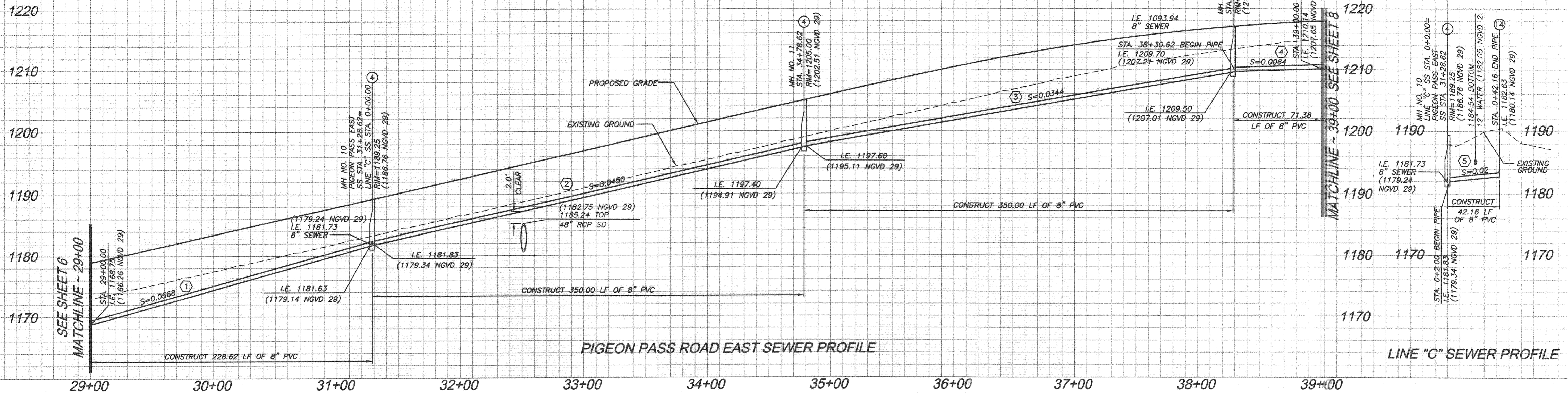
PREPARED BY: [Signature]
 R.C.E. NO. 38396
 DATE: 2-4-06

SEE SHEET 1 FOR BENCHMARK DATA
 SCALE: HOR: 1"=40' VERT: 1"=8'

COUNTY OF RIVERSIDE
 C.F.D. SEWER IMPROVEMENT PLANS
 SPRING MOUNTAIN RANCH
 BACKBONE SYSTEM FOR TRACT 29597 AND 29741
 29592, 29599, 29600, 29740
 MS 4013

PIGEON PASS ROAD EAST
 STA. 19+00 TO STA. 29+00

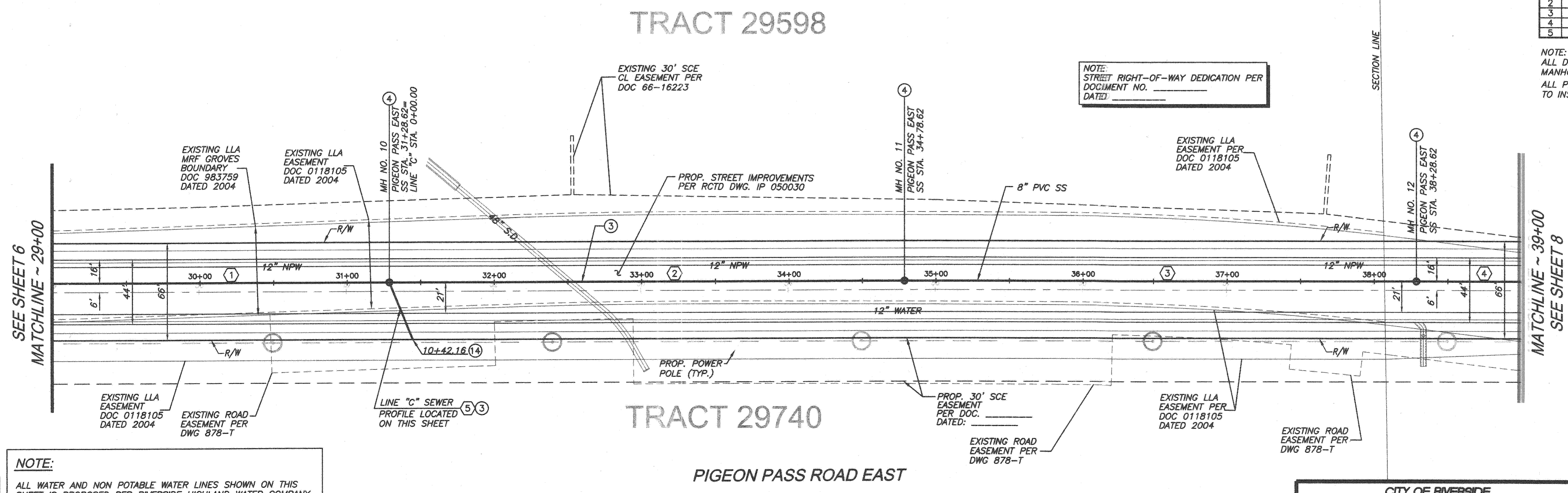
SHEET NO. 6 OF 26 SHTS.



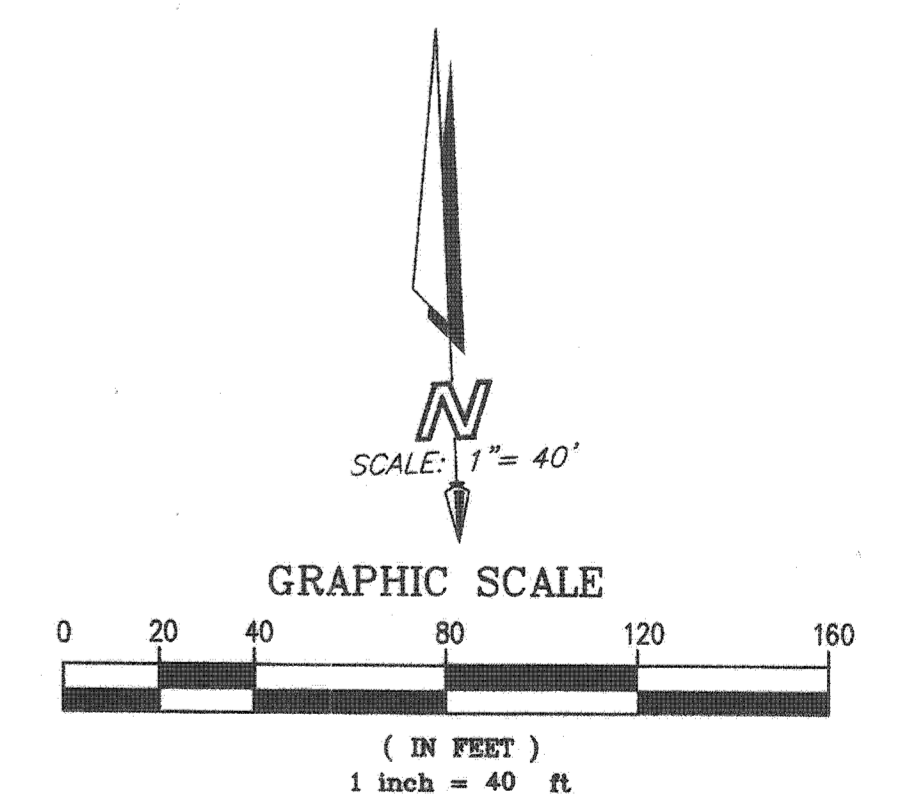
| SANITARY SEWER DATA TABLE | | | | | |
|---------------------------|---------------|--------|---------|---------|---------|
| NO. | BEARING/DELTA | RADIUS | LENGTH | TANGENT | REMARKS |
| 1 | S87°29'09" E | -- | 228.62' | -- | 8" PVC |
| 2 | S87°29'09" E | -- | 350.00' | -- | " |
| 3 | S87°29'09" E | -- | 350.00' | -- | " |
| 4 | S87°29'09" E | -- | 71.38' | -- | " |
| 5 | S19°48'05" E | -- | 42.16' | -- | " |

NOTE:
 ALL DATA TABLE PIPE LENGTHS ARE MEASURED TO CENTER OF MANHOLE.
 ALL PIPE SLOPES ARE CALCULATE FROM INSIDE MANHOLE WALL TO INSIDE MANHOLE WALL.

- CONSTRUCTION NOTES:**
- ③ INSTALL 8" PVC (SDR 35) SEWER MAIN. BEDDING PER CITY OF RIVERSIDE STD. DWG. NO. 452.
 - ④ CONSTRUCT SANITARY SEWER MANHOLE PER CITY OF RIVERSIDE STD. DWG. NO. 500.
 - ⑤ INSTALL 8" PLUG.



NOTE:
 ALL WATER AND NON POTABLE WATER LINES SHOWN ON THIS SHEET IS PROPOSED PER RIVERSIDE HIGHLAND WATER COMPANY IMPROVEMENT PLANS
 ALL STORM DRAIN SHOWN ON THIS SHEET IS PROPOSED PER COUNTY OF RIVERSIDE MISCELLANEOUS DRAWING (MS) 4013 IMPROVEMENT PLANS



CITY OF RIVERSIDE
 RECOMMENDS APPROVAL
Steve Boyd 10/24/06
 CITY ENGINEER DATE

CITY OF RIVERSIDE DRAWING # S-1896
 WDID No. 833C327881 PW06-0020

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 |
|------|----|------|-----------|-------|------|
| | | | | | |

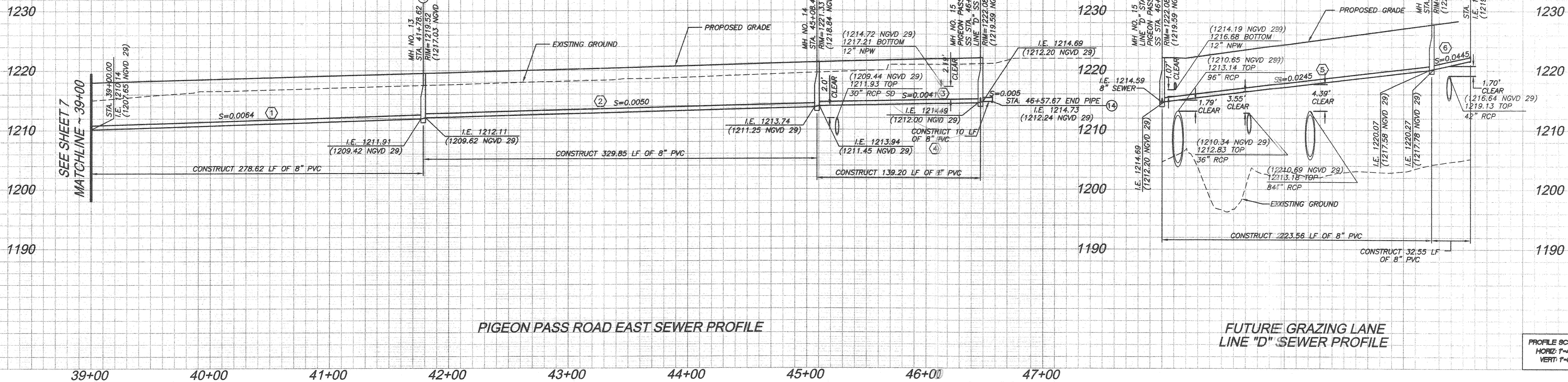
SEAL-COUNTY
 COUNTY OF RIVERSIDE
 TRANSPORTATION DEPARTMENT
 APPROVED BY:
 KHALED A. OTHMAN DATE: _____
 RECOMMENDED BY PBS & J DATE: _____

SEAL
 REGISTERED PROFESSIONAL ENGINEER
 DANIEL A. LEE
 No. 38396
 Exp. 3/31/07
 CIVIL
 STATE OF CALIFORNIA

Stantec Consulting, Inc.
 277 Ronchero Drive Suite 300
 San Marcos, CA 92069
 Tel. (760) 891-3200
 Fax. (760) 891-3201
 www.stantec.com
 R.C.E. NO. 38396
 DATE: 2-4-06

SEE SHEET 1 FOR BENCHMARK DATA
 SCALE: HOR: 1"=40' VERT: 1"=8'

COUNTY OF RIVERSIDE
 C.F.D. SEWER IMPROVEMENT PLANS
 SPRING MOUNTAIN RANCH
 BACKBONE SYSTEM FOR TRACT 29597 AND 29741
 29592, 29599, 29600, 29740
 MS 4013
PIGEON PASS ROAD EAST
STA. 29+00 TO STA. 39+00
 SHEET NO. 7
 OF 28 SHTS.
 FOR: W.O. COUNTY FILE NO.



PIGEON PASS ROAD EAST SEWER PROFILE

FUTURE GRAZING LANE LINE "D" SEWER PROFILE

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

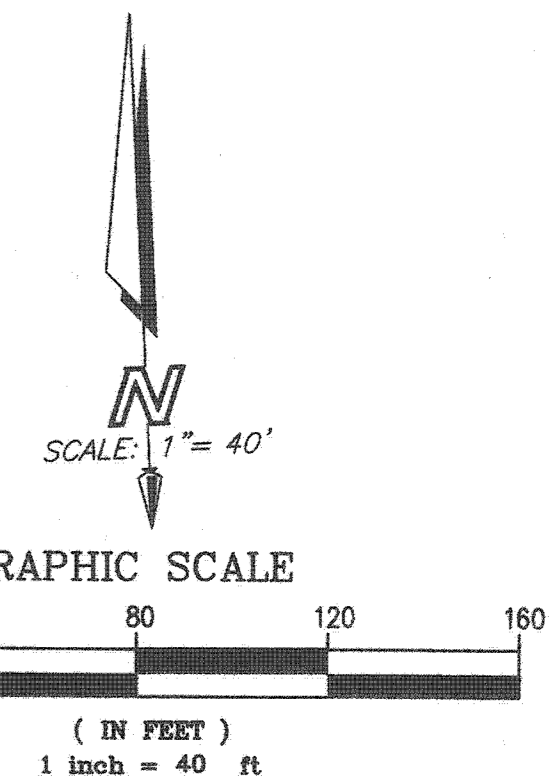
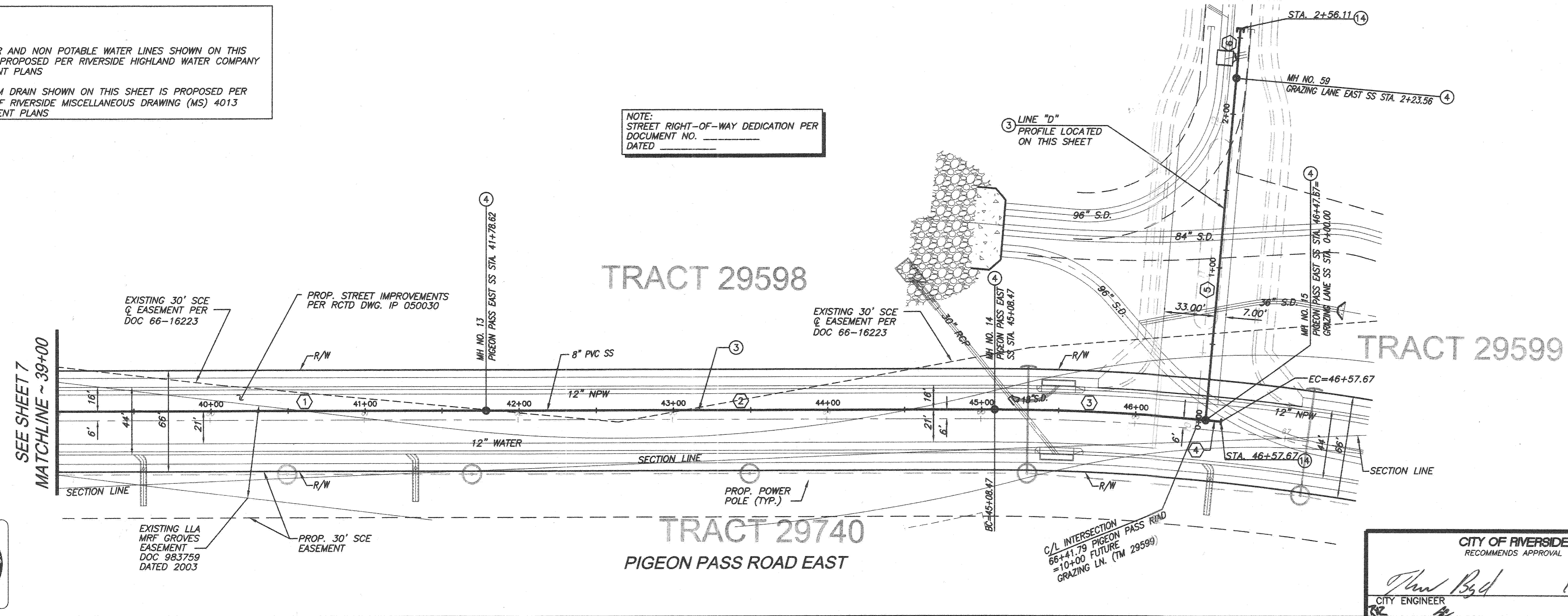
NOTE:
ALL WATER AND NON POTABLE WATER LINES SHOWN ON THIS SHEET IS PROPOSED PER RIVERSIDE HIGHLAND WATER COMPANY IMPROVEMENT PLANS
ALL STORM DRAIN SHOWN ON THIS SHEET IS PROPOSED PER COUNTY OF RIVERSIDE MISCELLANEOUS DRAWING (MS) 4013 IMPROVEMENT PLANS

NOTE:
STREET RIGHT-OF-WAY DEDICATION PER DOCUMENT NO. _____ DATED _____

| SANITARY SEWER DATA TABLE | | | | | |
|---------------------------|---------------|----------|---------|---------|---------|
| NO. | BEARING/Delta | RADIUS | LENGTH | TANGENT | REMARKS |
| 1 | S87°29'09"E | - | 278.82' | - | 8" PVC |
| 2 | S87°29'09"E | - | 329.85' | - | " |
| 3 | A=05°17'46" | 1506.00' | 139.21' | 69.65' | " |
| 4 | A=00°22'50" | 1506.00' | 10.00' | 5.00' | " |
| 5 | N07°34'56"E | - | 223.56' | - | " |
| 6 | N07°34'56"E | - | 32.55' | - | " |

NOTE:
ALL DATA TABLE PIPE LENGTHS ARE MEASURED TO CENTER OF MANHOLE.
ALL PIPE SLOPES ARE CALCULATE FROM INSIDE MANHOLE WALL TO INSIDE MANHOLE WALL

CONSTRUCTION NOTES:
③ INSTALL 8" PVC (SDR 35) SEWER MAIN. BEDDING PER CITY OF RIVERSIDE STD. DWG. NO. 452.
④ CONSTRUCT SANITARY SEWER MANHOLE PER CITY OF RIVERSIDE STD. DWG. NO. 500.
⑬ INSTALL 8" PLUG.



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 |
|------|----|------|-----------|-------|------|
| | | | | | |

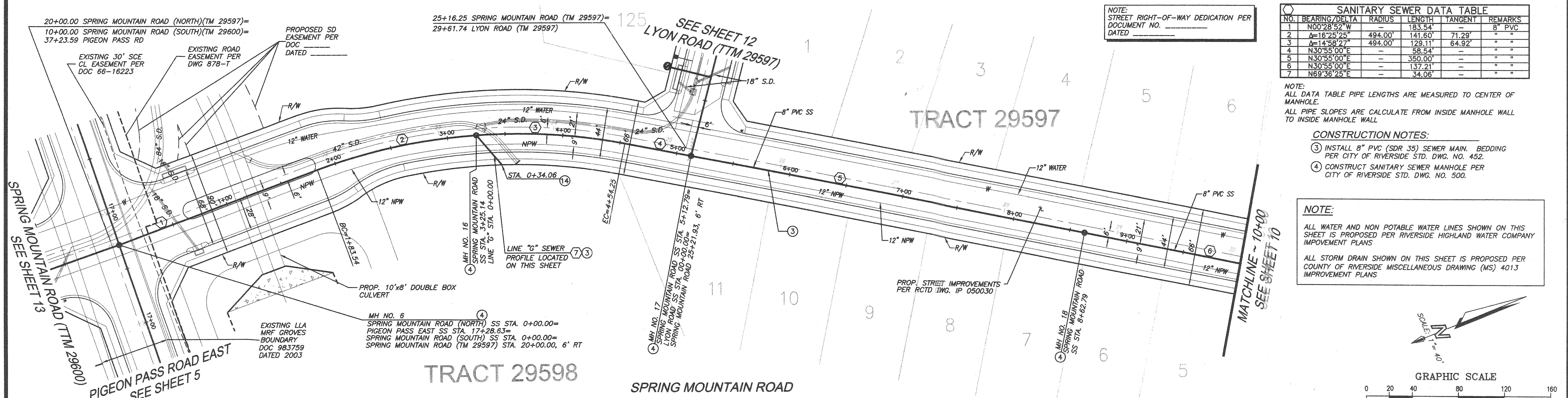
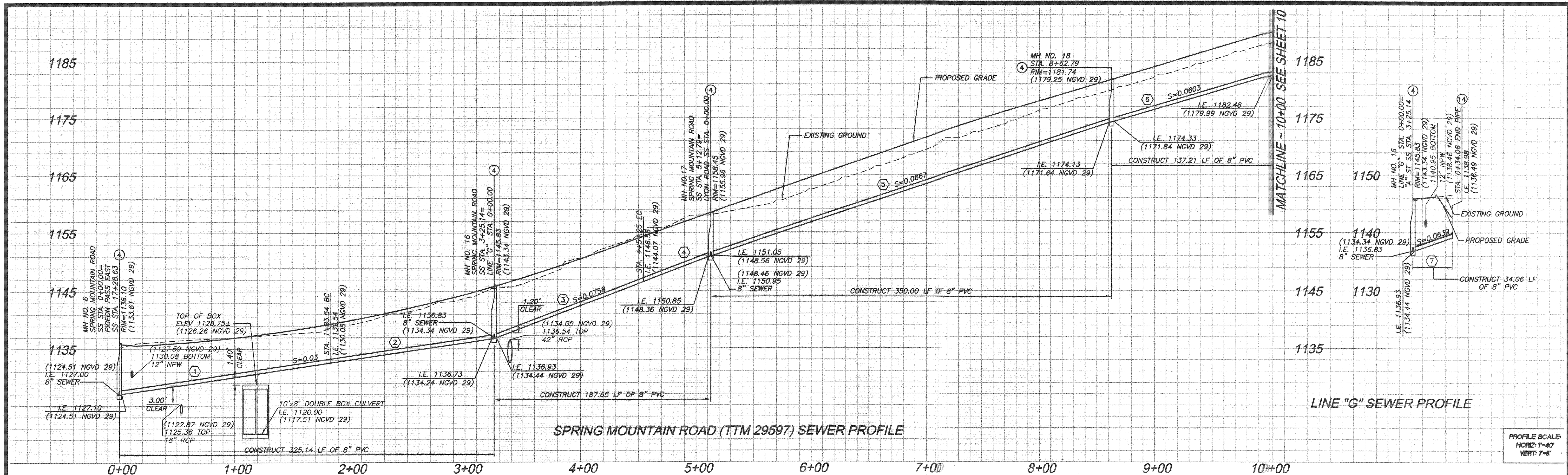
SEAL-COUNTY
COUNTY OF RIVERSIDE
TRANSPORTATION DEPARTMENT
APPROVED BY:
KHALED A. OTHMAN
DATE: _____

SEAL
REGISTERED PROFESSIONAL ENGINEER
DANIEL A. LEE
No. 38396
Exp. 3/31/07
CIVIL
STATE OF CALIFORNIA

CITY OF RIVERSIDE
RECOMMENDS APPROVAL
Thun Bgd
CITY ENGINEER
DATE: 10/27/06

CITY OF RIVERSIDE DRAWING # S-1896
WDID No. 833C327881 PW06-0020

COUNTY OF RIVERSIDE
C.F.D. SEWER IMPROVEMENT PLANS
SPRING MOUNTAIN RANCH
BACKBONE SYSTEM FOR TRACT 29597 AND 29741
29592, 29599, 29600, 29740
MS 4013
PIGEON PASS ROAD EAST
STA. 39+00 TO STA. 46+57.67
FOR: _____ W.O. _____ COUNTY FILE NO. _____ SHEET NO. 26 OF 26 SHTS.



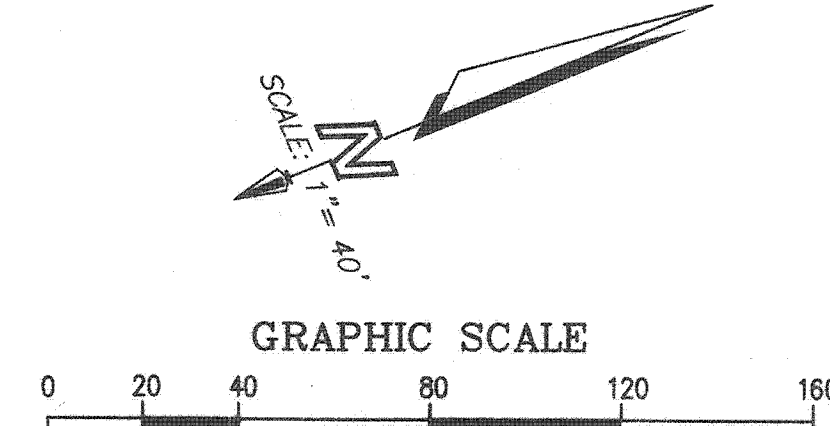
SANITARY SEWER DATA TABLE

| NO. | BEARING/Delta | RADIUS | LENGTH | TANGENT | REMARKS |
|-----|---------------|--------|--------|---------|---------|
| 1 | N00°28'52\"/> | | | | |

NOTE: ALL DATA TABLE PIPE LENGTHS ARE MEASURED TO CENTER OF MANHOLE.
ALL PIPE SLOPES ARE CALCULATE FROM INSIDE MANHOLE WALL TO INSIDE MANHOLE WALL

CONSTRUCTION NOTES:
 (3) INSTALL 8\"/>

NOTE:
 ALL WATER AND NON POTABLE WATER LINES SHOWN ON THIS SHEET IS PROPOSED PER RIVERSIDE HIGHLAND WATER COMPANY IMPROVEMENT PLANS
 ALL STORM DRAIN SHOWN ON THIS SHEET IS PROPOSED PER COUNTY OF RIVERSIDE MISCELLANEOUS DRAWING (MS) 4013 IMPROVEMENT PLANS



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| DATE | BY | MARK | REVISIONS | APPR. | DATE |
|------|----|------|-----------|-------|------|
| | | | | | |

SEAL-COUNTY

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

SEAL

REGISTERED PROFESSIONAL ENGINEER
 DANIEL A. LEE
 No. 38396
 Exp. 3/31/07

Stantec Consulting, Inc.
 277 Rancheros Drive Suite 300
 San Marcos, CA 92069
 Tel. (760) 891-3200
 Fax. (760) 891-3201
 www.stantec.com

CITY OF RIVERSIDE
 RECOMMENDS APPROVAL

[Signature] 10/22/06
 CITY ENGINEER DATE

SEE SHEET 1 FOR BENCHMARK DATA

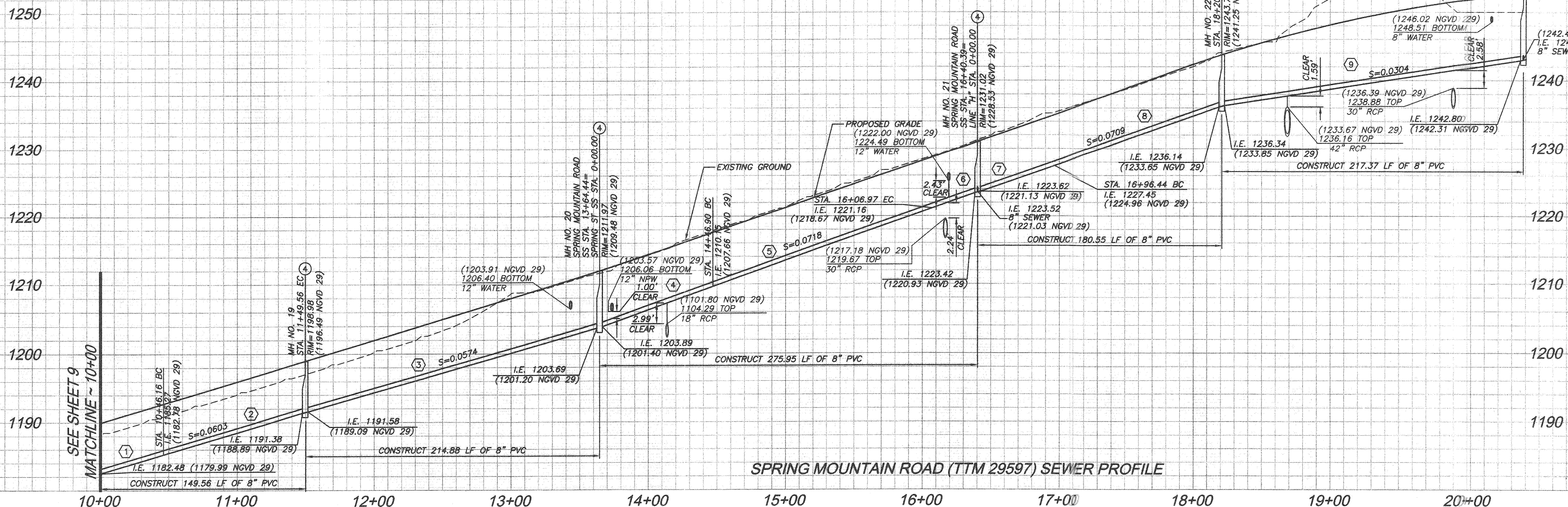
CITY OF RIVERSIDE DRAWING # S-1896
 WDID No. 833C327881 PW06-0020

COUNTY OF RIVERSIDE
 C.F.D. SEWER IMPROVEMENT PLANS
 SPRING MOUNTAIN RANCH
 BACKBONE SYSTEM FOR TRACT 29597 AND 29741
 29592, 29599, 29600, 29740
 MS 4013

SPRING MOUNTAIN ROAD (TTM 29597)
 STA. 0+00 TO STA. 10+00

SHEET NO. 9 OF 26 SHTS.

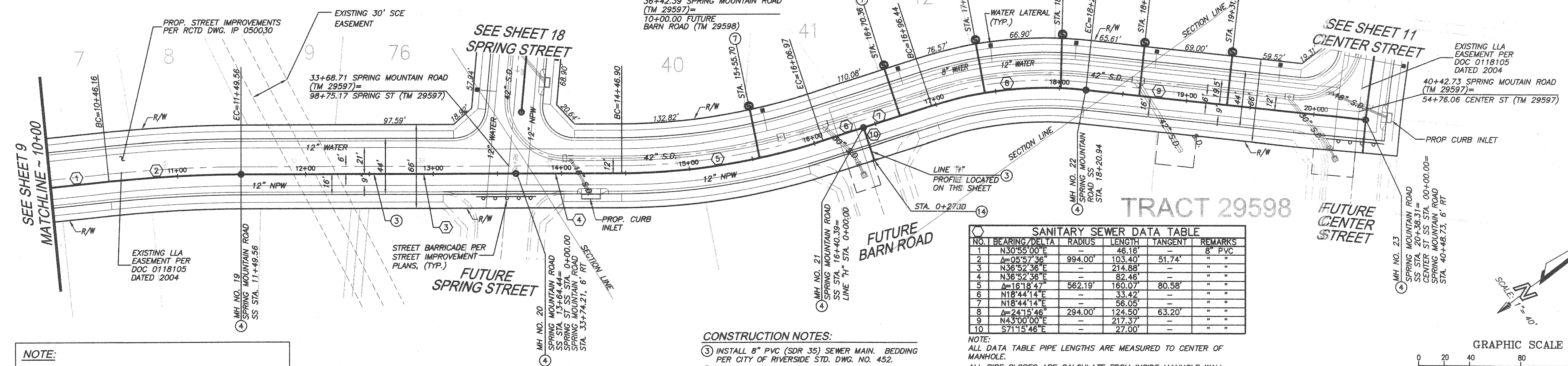
FOR: W.O. COUNTY FILE NO.



SPRING MOUNTAIN ROAD (TTM 29597) SEWER PROFILE

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

TRACT 29597



SANITARY SEWER DATA TABLE

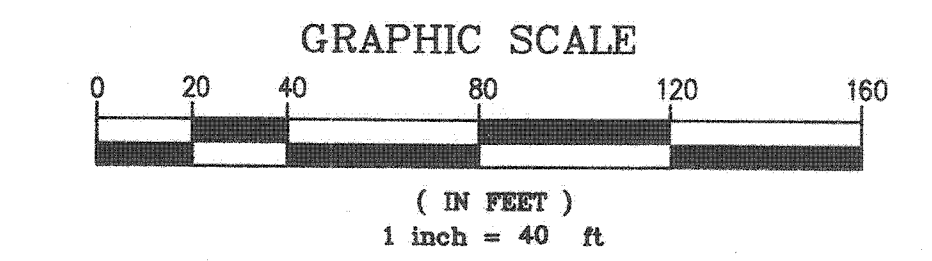
| NO. | BEARING/DELTA | RADIUS | LENGTH | TANGENT | REMARKS |
|-----|---------------|---------|---------|---------|---------|
| 1 | N30°55'00"E | - | 46.16' | - | 8" PVC |
| 2 | A=05°57'36" | 994.00' | 103.40' | 51.74' | " |
| 3 | N36°52'36"E | - | 214.88' | - | " |
| 4 | N36°52'36"E | - | 82.46' | - | " |
| 5 | A=18°18'47" | 562.19' | 160.07' | 80.58' | " |
| 6 | N18°44'14"E | - | 33.42' | - | " |
| 7 | N18°44'14"E | - | 56.05' | - | " |
| 8 | A=24°15'46" | 294.00' | 124.50' | 63.20' | " |
| 9 | N43°00'00"E | - | 217.37' | - | " |
| 10 | S71°15'46"E | - | 27.00' | - | " |

CONSTRUCTION NOTES:

- ③ INSTALL 8" PVC (SDR 35) SEWER MAIN. BEDDING PER CITY OF RIVERSIDE STD. DWG. NO. 452.
- ④ CONSTRUCT SANITARY SEWER MANHOLE PER CITY OF RIVERSIDE STD. DWG. NO. 500.
- ⑦ INSTALL 4" PVC (SDR 35) SEWER LATERAL W/ CLEANOUT PER CITY OF RIVERSIDE STD. DWG. NO. 562A.
- ⑧ BACKWATER VALVE
- ⑭ INSTALL 8" PLUG.

NOTE:
ALL DATA TABLE PIPE LENGTHS ARE MEASURED TO CENTER OF MANHOLE.
ALL PIPE SLOPES ARE CALCULATE FROM INSIDE MANHOLE WALL TO INSIDE MANHOLE WALL

NOTE:
ALL WATER AND NON POTABLE WATER LINES SHOWN ON THIS SHEET IS PROPOSED PER RIVERSIDE HIGHLAND WATER COMPANY IMPROVEMENT PLANS
ALL STORM DRAIN SHOWN ON THIS SHEET IS PROPOSED PER COUNTY OF RIVERSIDE MISCELLANEOUS DRAWING (MS) 4013 IMPROVEMENT PLANS



CITY OF RIVERSIDE DRAWING # S-1896

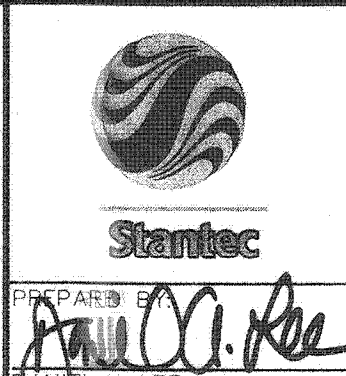
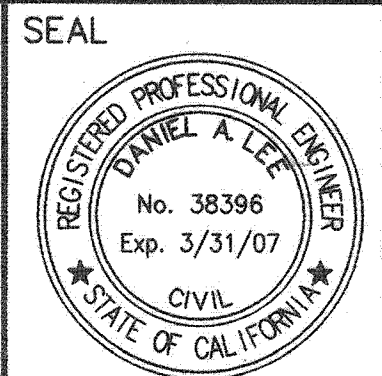
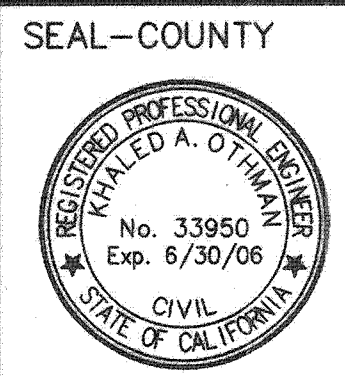
WDID No. 833C327881 PW06-0020

CITY OF RIVERSIDE
RECOMMENDS APPROVAL

Phu Bud 10/22/06
CITY ENGINEER DATE

COUNTY OF RIVERSIDE
C.F.D. SEWER IMPROVEMENT PLANS
SPRING MOUNTAIN RANCH
BACKBONE SYSTEM FOR TRACT 29597 AND 29741
29592, 29599, 29600, 29740
MS 4013
SPRING MOUNTAIN ROAD
(TTM 29597)
STA. 10+00
TO STA. 20+98.81

SHEET NO. 10
OF 26 SHTS.



Stantec Consulting, Inc.
277 Rancheros Drive Suite 300
San Marcos, CA 92069
Tel. (760) 891-3200
Fax. (760) 891-3201
www.stantec.com

SEE SHEET 1 FOR BENCHMARK DATA

SCALE: HOR: 1"=40' VERT: 1"=8'

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

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| DATE | BY | MARK | REVISIONS | APPR. | DATE |
|----------|----|------|-----------|--------|------|
| ENGINEER | | | | COUNTY | |
| | | | | | |

SEAL-COUNTY

COUNTY OF RIVERSIDE
TRANSPORTATION DEPARTMENT
APPROVED BY:

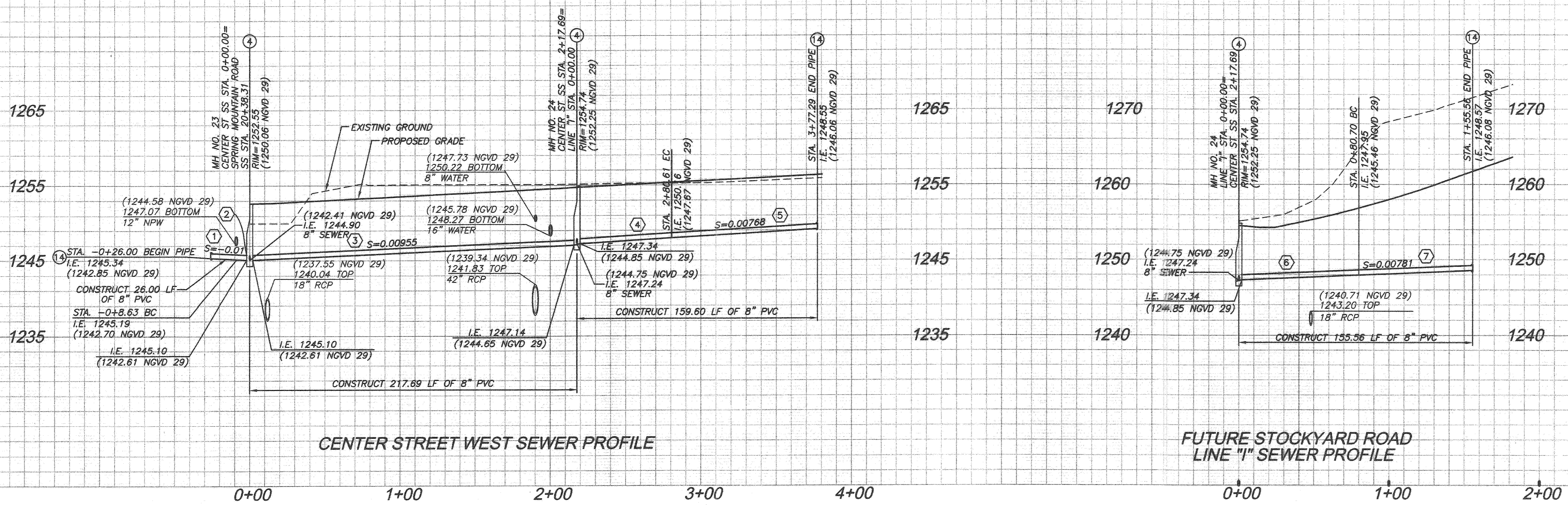
KHALED A. OTHMAN DATE:

RECOMMENDED BY PBS & J DATE:

SEAL

REGISTERED PROFESSIONAL ENGINEER
DANIEL A. LEE
No. 33956
Exp. 6/30/06
CIVIL
STATE OF CALIFORNIA

DATE: 2-4-06



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

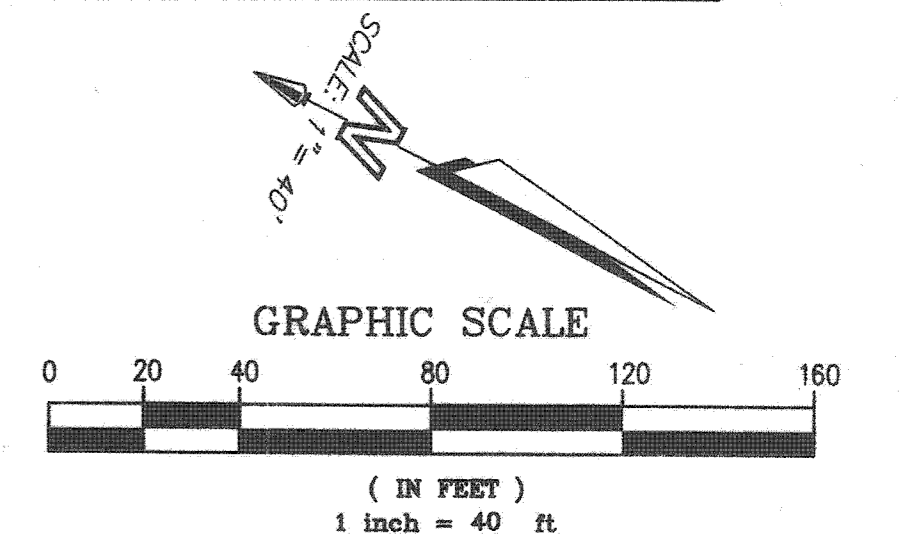
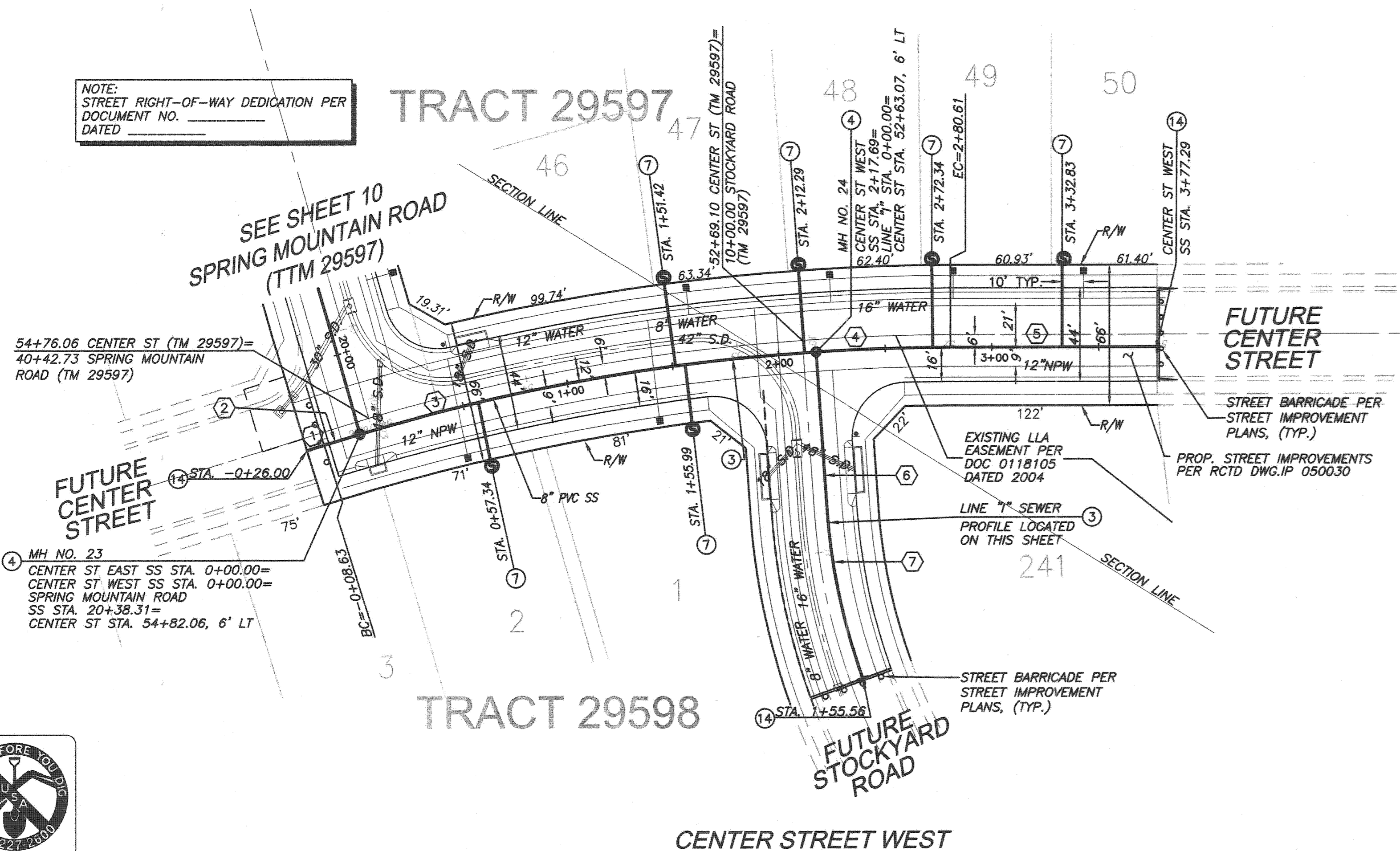
| SANITARY SEWER DATA TABLE | | | | | |
|---------------------------|---------------|---------|---------|---------|---------|
| NO. | BEARING/Delta | RADIUS | LENGTH | TANGENT | REMARKS |
| 1 | N48°07'24" W | - | 8.63' | - | 8" PVC |
| 2 | A=01°00'05" | 994.00' | 17.37' | 8.69' | " " |
| 3 | A=12°32'52" | 994.00' | 217.69' | 109.28' | " " |
| 4 | A=03°37'36" | 994.00' | 62.92' | 31.47' | " " |
| 5 | N30°58'51" W | - | 74.68' | - | " " |
| 6 | N55°04'48" E | - | 80.68' | 40.69' | " " |
| 7 | A=15°45'40" | 294.00' | 80.68' | 40.69' | " " |

NOTE:
ALL DATA TABLE PIPE LENGTHS ARE MEASURED TO CENTER OF MANHOLE.
ALL PIPE SLOPES ARE CALCULATE FROM INSIDE MANHOLE WALL TO INSIDE MANHOLE WALL.

- CONSTRUCTION NOTES:**
- ③ INSTALL 8" PVC (SDR 35) SEWER MAIN. BEDDING PER CITY OF RIVERSIDE STD. DWG. NO. 452.
 - ④ CONSTRUCT SANITARY SEWER MANHOLE PER CITY OF RIVERSIDE STD. DWG. NO. 500.
 - ⑦ INSTALL 4" PVC (SDR 35) SEWER LATERAL W/ CLEANOUT PER CITY OF RIVERSIDE STD. DWG. NO. 562A.
 - ⑭ INSTALL 8" PLUG.

NOTE:
ALL WATER AND NON POTABLE WATER LINES SHOWN ON THIS SHEET IS PROPOSED PER RIVERSIDE HIGHLAND WATER COMPANY IMPROVEMENT PLANS
ALL STORM DRAIN SHOWN ON THIS SHEET IS PROPOSED PER COUNTY OF RIVERSIDE MISCELLANEOUS DRAWING (MS) 4013 IMPROVEMENT PLANS

NOTE:
STREET RIGHT-OF-WAY DEDICATION PER DOCUMENT NO. _____ DATED _____



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| DATE | BY | MARK | REVISIONS | APPR. | DATE |
|------|----|------|-----------|-------|------|
| | | | | | |

SEAL-COUNTY
REGISTERED PROFESSIONAL ENGINEER
KHALED A. OTHMAN
No. 33950
Exp. 6/30/06
CIVIL
STATE OF CALIFORNIA

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

SEAL
REGISTERED PROFESSIONAL ENGINEER
DANIEL A. LEE
No. 38396
Exp. 3/31/07
CIVIL
STATE OF CALIFORNIA

Stantec Consulting, Inc.
277 Rancheros Drive Suite 300
San Marcos, CA 92069
Tel. (760) 891-3200
Fax. (760) 891-3201
www.stantec.com
PREPARED BY: Daniel A. Lee
R.C.E. NO. 38396
DATE: 2-4-06

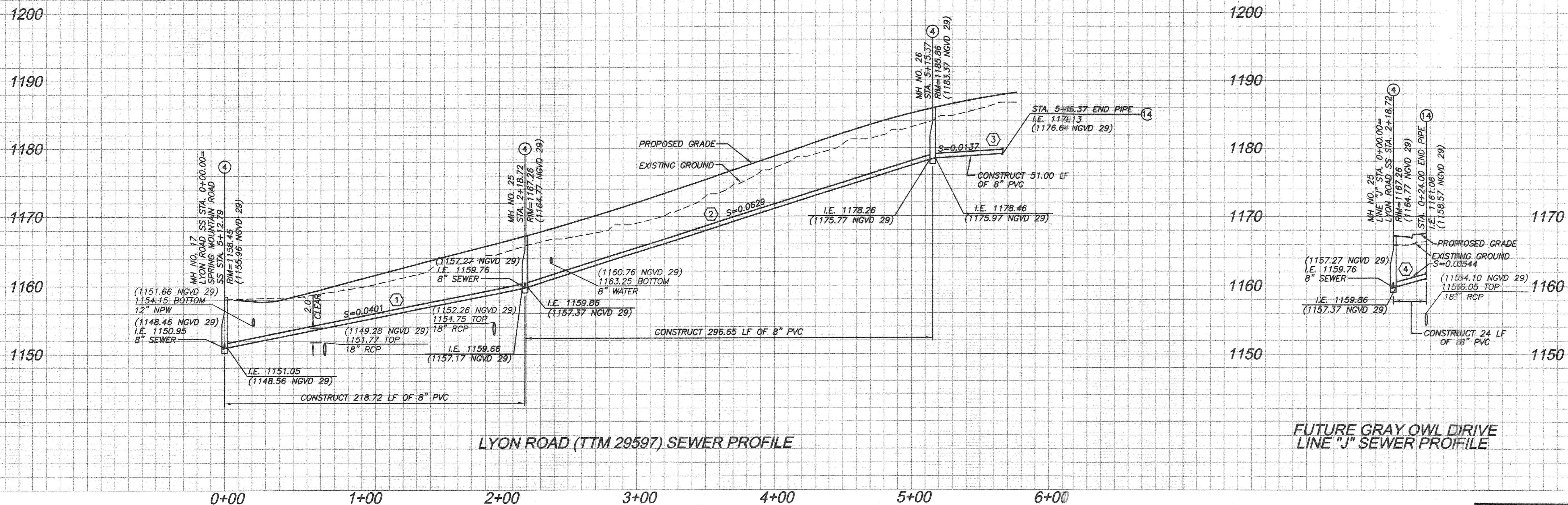
CITY OF RIVERSIDE
RECOMMENDS APPROVAL
CITY ENGINEER: [Signature]
DATE: 10/27/06

CITY OF RIVERSIDE DRAWING # S-1896
WDID No. 833C327881 PW06-0020

COUNTY OF RIVERSIDE
C.F.D. SEWER IMPROVEMENT PLANS
SPRING MOUNTAIN RANCH
BACKBONE SYSTEM FOR TRACT 29597 AND 29741
29592, 29599, 29600, 29740
MS 4013
CENTER STREET
STA. -0+26 TO STA. 3+77.29
SHEET NO. 11 OF 26 SHTS.

SEE SHEET 1 FOR BENCHMARK DATA
SCALE: HOR: 1"=40' VERT: 1"=8'
FOR: W.O. COUNTY FILE NO.

INDEXED 5-02-07 left



LYON ROAD (TTM 29597) SEWER PROFILE

FUTURE GRAY OWL DRIVE LINE "J" SEWER PROFILE

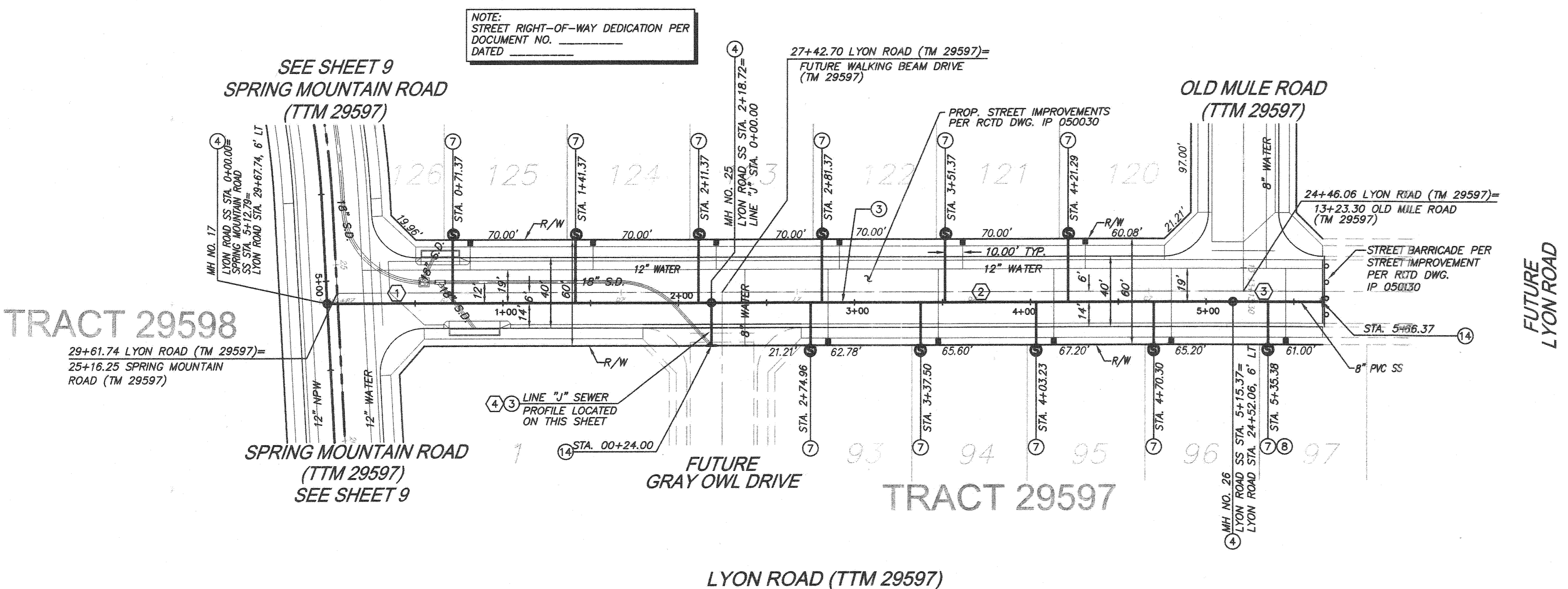
PROFILE SCALE:
HORIZ: 1"=40'
VERT: 1"=8'

| SANITARY SEWER DATA TABLE | | | | | |
|---------------------------|---------------|--------|--------|---------|---------|
| NO. | BEARING/Delta | RADIUS | LENGTH | TANGENT | REMARKS |
| 1 | N56°00'00"W | - | 218.72 | - | 8" PVC |
| 2 | N56°00'00"W | - | 296.65 | - | " |
| 3 | N56°00'00"W | - | 51.00 | - | " |
| 4 | N34°00'00"E | - | 24.00 | - | " |

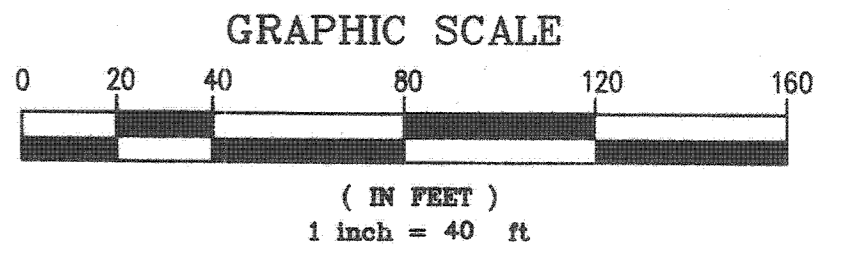
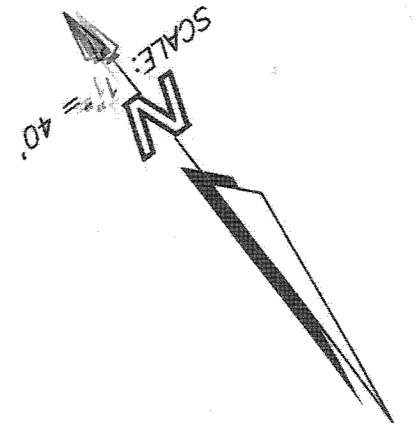
NOTE:
ALL DATA TABLE PIPE LENGTHS ARE MEASURED TO CENTER OF MANHOLE.
ALL PIPE SLOPES ARE CALCULATE FROM INSIDE MANHOLE WALL TO INSIDE MANHOLE WALL

- CONSTRUCTION NOTES:
- ③ INSTALL 8" PVC (SDR 35) SEWER MAIN. BEDDING PER CITY OF RIVERSIDE STD. DWG. NO. 452.
 - ④ CONSTRUCT SANITARY SEWER MANHOLE PER CITY OF RIVERSIDE STD. DWG. NO. 500.
 - ⑦ INSTALL 4" PVC (SDR 35) SEWER LATERAL W/ CLEANOUT PER CITY OF RIVERSIDE STD. DWG. NO. 562A.
 - ⑭ INSTALL 8" PLUG.

NOTE:
ALL WATER AND NON POTABLE WATER LINES SHOWN ON THIS SHEET IS PROPOSED PER RIVERSIDE HIGHLAND WATER COMPANY IMPROVEMENT PLANS
ALL STORM DRAIN SHOWN ON THIS SHEET IS PROPOSED PER COUNTY OF RIVERSIDE MISCELLANEOUS DRAWING (MS) 4013 IMPROVEMENT PLANS



LYON ROAD (TTM 29597)



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 |
|------|----|------|-----------|-------|------|
| | | | | | |

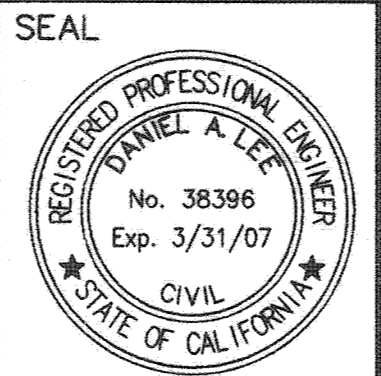


SEAL-COUNTY

COUNTY OF RIVERSIDE
TRANSPORTATION DEPARTMENT
APPROVED BY:

HALEED A. OTHMAN DATE: _____

RECOMMENDED BY PBS & J DATE: _____



Stantec Consulting, Inc.
277 Rancheros Drive Suite 300
San Marcos, CA 92069

Tel. (760) 891-3200
Fax. (760) 891-3201
www.stantec.com

R.C.E. NO. 38396
DATE: 2-4-06

CITY OF RIVERSIDE
RECOMMENDS APPROVAL

John Boyd 1/12/06
CITY ENGINEER DATE

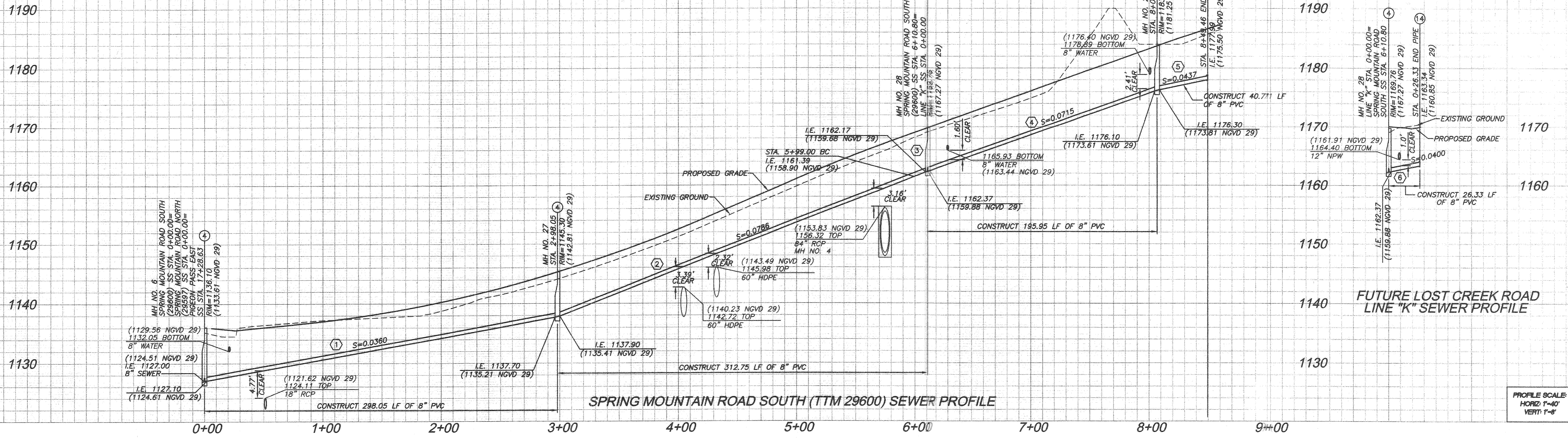
CITY OF RIVERSIDE DRAWING # S-1896
WDID No. 833C327881 PW06-0020

COUNTY OF RIVERSIDE
C.F.D. SEWER IMPROVEMENT PLANS
SPRING MOUNTAIN RANCH
BACKBONE SYSTEM FOR TRACT 29597 AND 29741
29592, 29599, 29600, 29740
MS 4013

LYON ROAD (TTM 29597)
STA. 0+00 TO STA. 5+87.37

SHEET NO. 12 OF 26 SHTS.

INDEXED 5-02-07 lfh



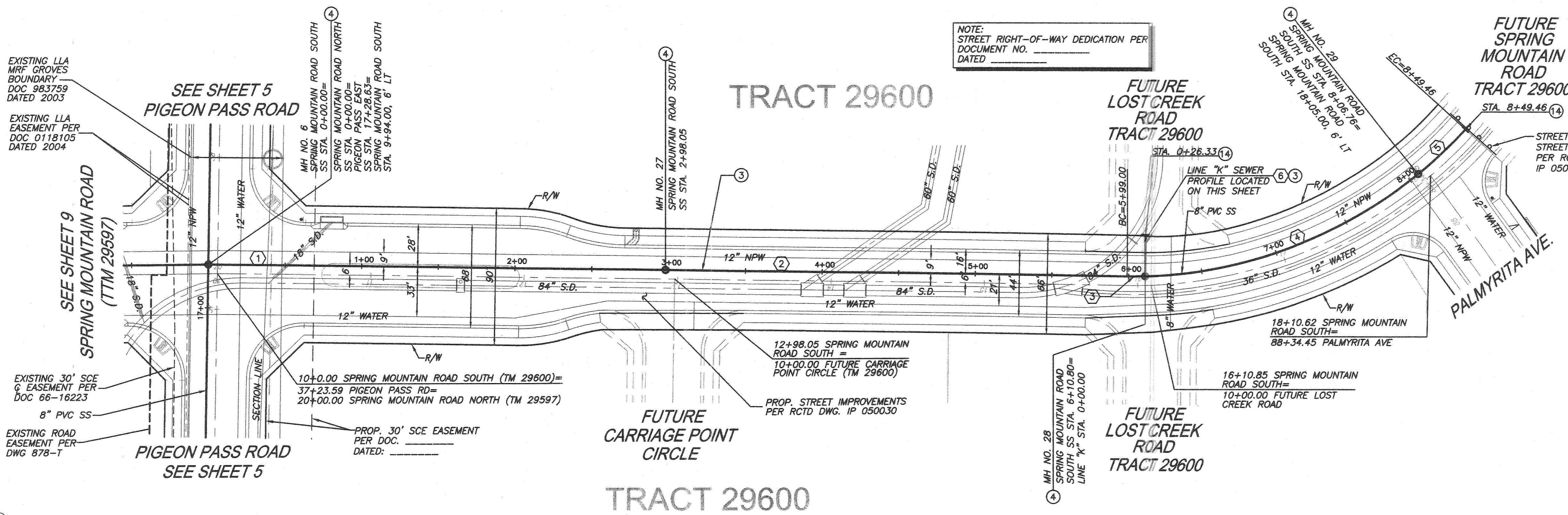
PROFILE SCALE:
HORIZ: 1"=40'
VERT: 1"=8'

| SANITARY SEWER DATA TABLE | | | | | |
|---------------------------|---------------|---------|---------|---------|---------|
| NO. | BEARING/DELTA | RADIUS | LENGTH | TANGENT | REMARKS |
| 1 | S00°53'23"W | - | 298.05' | - | 8" PVC |
| 2 | S00°53'23"W | - | 300.95' | - | " " |
| 3 | A=02°17'59" | 294.00' | 11.80' | 5.90' | " " |
| 4 | A=38°11'37" | 294.00' | 195.95' | 101.78' | " " |
| 5 | A=07°40'31" | 294.00' | 39.38' | 19.72' | " " |
| 6 | S89°28'50"E | - | 26.33' | - | " " |

NOTE:
ALL DATA TABLE PIPE LENGTHS ARE MEASURED TO CENTER OF MANHOLE.
ALL PIPE SLOPES ARE CALCULATE FROM INSIDE MANHOLE WALL TO INSIDE MANHOLE WALL.

- CONSTRUCTION NOTES:**
- ③ INSTALL 8" PVC (SDR 35) SEWER MAIN. BEDDING PER CITY OF RIVERSIDE STD. DWG. NO. 452.
 - ④ CONSTRUCT SANITARY SEWER MANHOLE PER CITY OF RIVERSIDE STD. DWG. NO. 500.
 - ④ INSTALL 8" PLUG.

NOTE:
ALL WATER AND NON POTABLE WATER LINES SHOWN ON THIS SHEET IS PROPOSED PER RIVERSIDE HIGHLAND WATER COMPANY IMPROVEMENT PLANS
ALL STORM DRAIN SHOWN ON THIS SHEET IS PROPOSED PER COUNTY OF RIVERSIDE MISCELLANEOUS DRAWING (MS) 4013 IMPROVEMENT PLANS



NOTE:
STREET RIGHT-OF-WAY DEDICATION PER DOCUMENT NO. _____ DATED _____

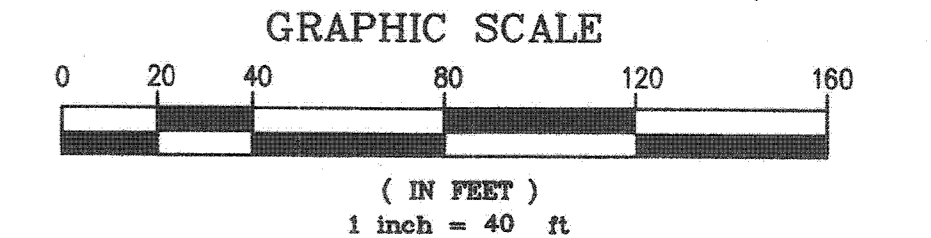
EXISTING LLA MRF GROVES BOUNDARY DOC 983759 DATED 2003

EXISTING LLA EASEMENT PER DOC 0118105 DATED 2004

EXISTING 30' SCE EASEMENT PER DOC 66-16223

EXISTING ROAD EASEMENT PER DWG 878-7

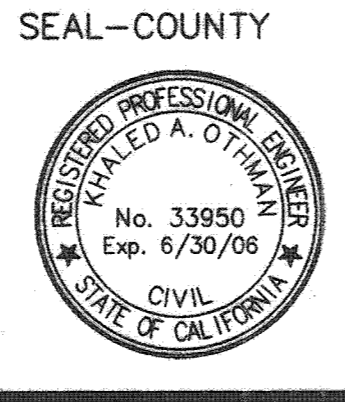
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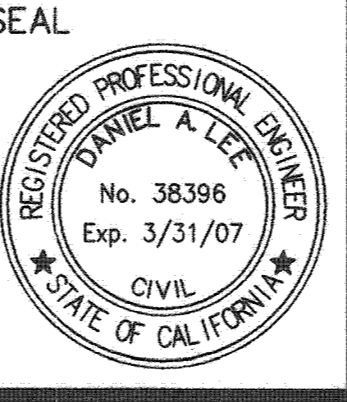
NOTE: WORK CONTAINED WITHIN THESE PLANS SHALL NOT COMMENCE UNTIL AN ENCROACHMENT PERMIT AND/OR GRADING PERMIT HAS BEEN ISSUED.

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 BY: FBS & J DATE: _____



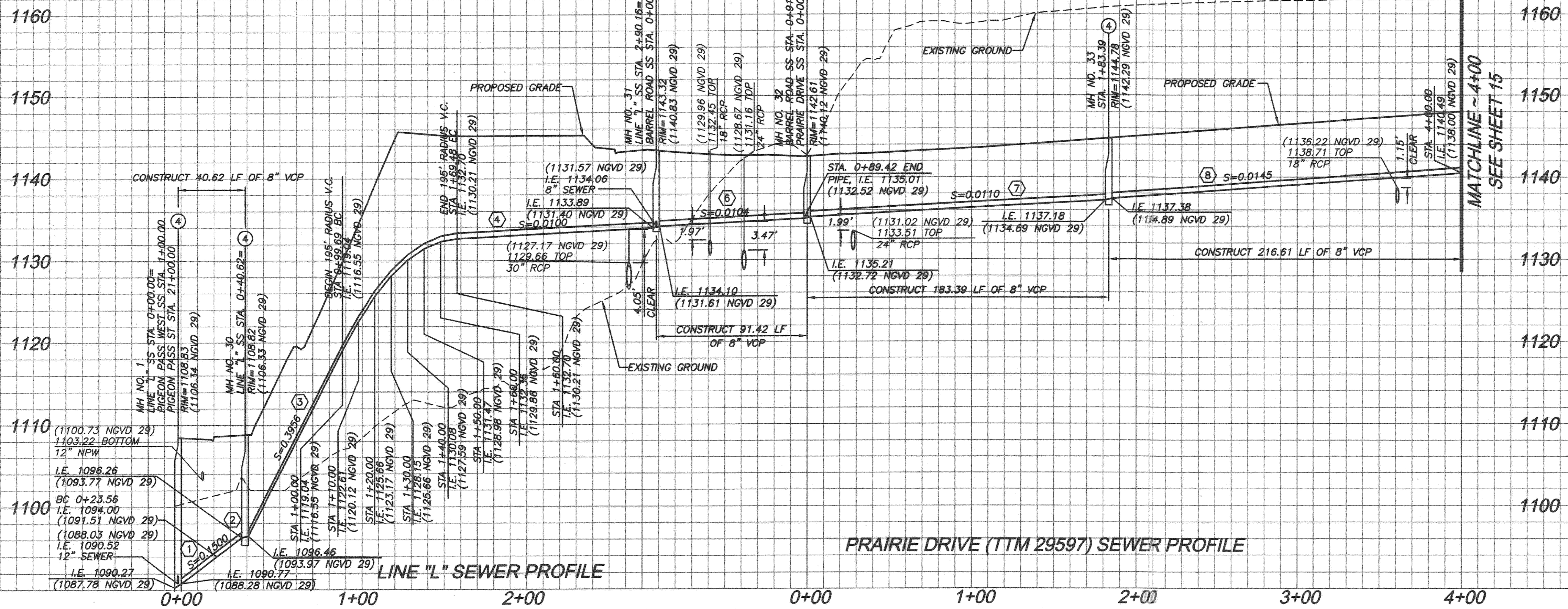
Stantec Consulting, Inc.
277 Rancheros Drive Suite 300
San Marcos, CA 92069
Tel. (760) 891-3200
Fax. (760) 891-3201
www.stantec.com
PREPARED BY: [Signature] R.C.E. NO. 38396
DATE: 2-7-06

CITY OF RIVERSIDE
RECOMMENDS APPROVAL
[Signature] 10/22/06
CITY ENGINEER DATE

CITY OF RIVERSIDE DRAWING # S-1896
WDID No. 833C327881 PW06-0020

COUNTY OF RIVERSIDE
C.F.D. SEWER IMPROVEMENT PLANS
SPRING MOUNTAIN RANCH
BACKBONE SYSTEM FOR TRACT 29597 AND 29741
29592, 29599, 29600, 29740
MS 4013
SPRING MOUNTAIN ROAD SOUTH (TTM 29600)
STA. 0+00 TO STA. 8+49.46
SHEET NO. 13 OF 26 SHTS.

INDEXED S-02-07 Lft



FUTURE BARREL ROAD LINE "M" SEWER PROFILE

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

| NO. | BEARING/DELTA | RADIUS | LENGTH | TANGENT | REMARKS |
|-----|---------------|---------|---------|---------|---------|
| 1 | S33°47'16"E | | 33.03' | | 8" VCP |
| 2 | 02°53'58" | 150.00' | 7.59' | 3.80' | " " |
| 3 | 37°58'10" | 150.00' | 99.40' | 51.60' | " " |
| 4 | N07°04'53"E | | 150.14' | | " " |
| 5 | N82°55'26"W | | 10.00' | | " " |
| 6 | N82°55'26"W | | 91.42' | | " " |
| 7 | N00°37'43"E | | 183.39' | | " " |
| 8 | N00°37'43"E | | 216.61' | | " " |

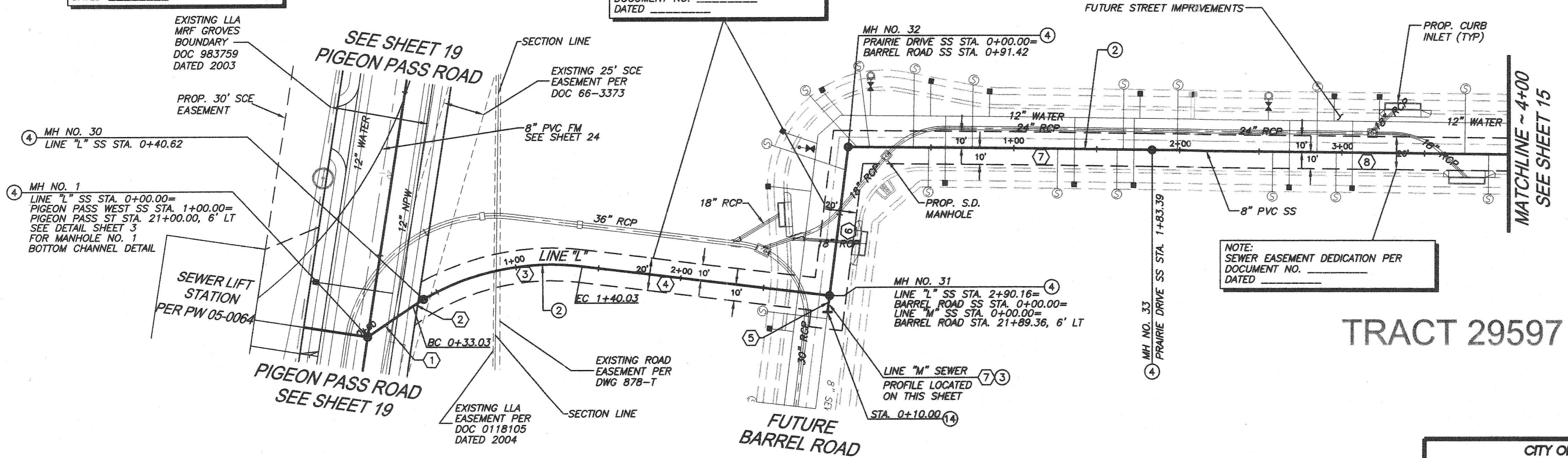
NOTE:
STREET RIGHT-OF-WAY DEDICATION PER
DOCUMENT NO. _____
DATED _____

NOTE:
SEWER EASEMENT DEDICATION PER
DOCUMENT NO. _____
DATED _____

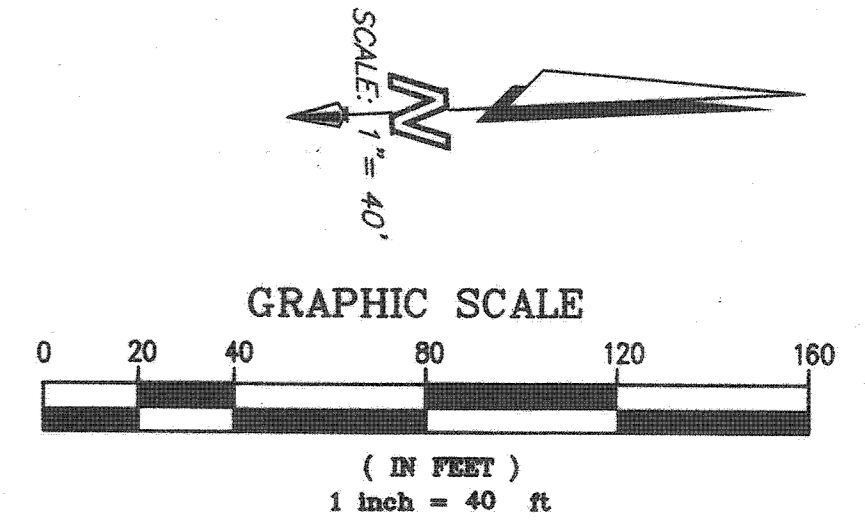
NOTE:
ALL DATA TABLE PIPE LENGTHS ARE MEASURED TO CENTER OF
MANHOLE.
ALL PIPE SLOPES ARE CALCULATE FROM INSIDE MANHOLE WALL
TO INSIDE MANHOLE WALL

- CONSTRUCTION NOTES:**
- ② INSTALL 8" VCP SEWER MAIN. BEDDING PER CITY OF RIVERSIDE STD. DWG. NO. 452
 - ③ INSTALL 8" PVC (SDR 35) SEWER MAIN. BEDDING PER CITY OF RIVERSIDE STD. DWG. NO. 452
 - ④ CONSTRUCT SANITARY SEWER MANHOLE PER CITY OF RIVERSIDE STD. DWG. NO. 500.
 - ④ INSTALL 8" PLUG.

NOTE:
ALL WATER AND NON POTABLE WATER LINES SHOWN ON THIS SHEET IS PROPOSED PER RIVERSIDE HIGHLAND WATER COMPANY IMPROVEMENT PLANS
ALL STORM DRAIN SHOWN ON THIS SHEET IS PROPOSED PER COUNTY OF RIVERSIDE MISCELLANEOUS DRAWING (MS) 4013 IMPROVEMENT PLANS



TRACT 29597



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

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| DATE | BY | MARK | REVISIONS | APPR. | DATE |
|------|----|------|-----------|-------|------|
| | | | | | |

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

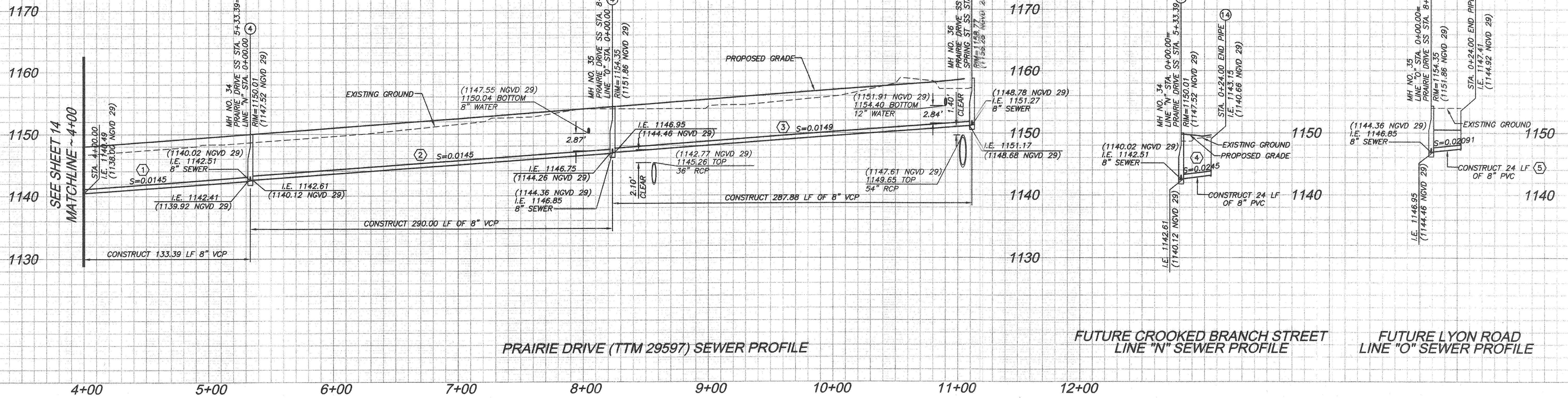
SEAL
REGISTERED PROFESSIONAL ENGINEER
DANIEL A. LEE
No. 33950
Exp. 6/30/06
CIVIL
STATE OF CALIFORNIA

CITY OF RIVERSIDE
RECOMMENDS APPROVAL
Tom Reed 10/12/06
CITY ENGINEER
DATE

CITY OF RIVERSIDE DRAWING # S-1896
WDID No. 833C327881 PW06-0020

COUNTY OF RIVERSIDE
C.F.D. SEWER IMPROVEMENT PLANS
SPRING MOUNTAIN RANCH
BACKBONE SYSTEM FOR TRACT 29597 AND 29741
29592, 29599, 29800, 29740
MS 4013
PRAIRIE DRIVE (TTM 29597)
STA. 0+00 TO STA. 4+00
SHEET NO. 14 OF 26 SHTS.

SEE SHEET 1 FOR BENCHMARK DATA
PREPARED BY: *Daniel A. Lee*
R.C.E. NO. 38396
DATE: 6-27-06
SCALE: HOR: 1"=40' VERT: 1"=8'



PRAIRIE DRIVE (TTM 29597) SEWER PROFILE
 FUTURE CROOKED BRANCH STREET
 LINE "N" SEWER PROFILE
 FUTURE LYON ROAD
 LINE "O" SEWER PROFILE

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

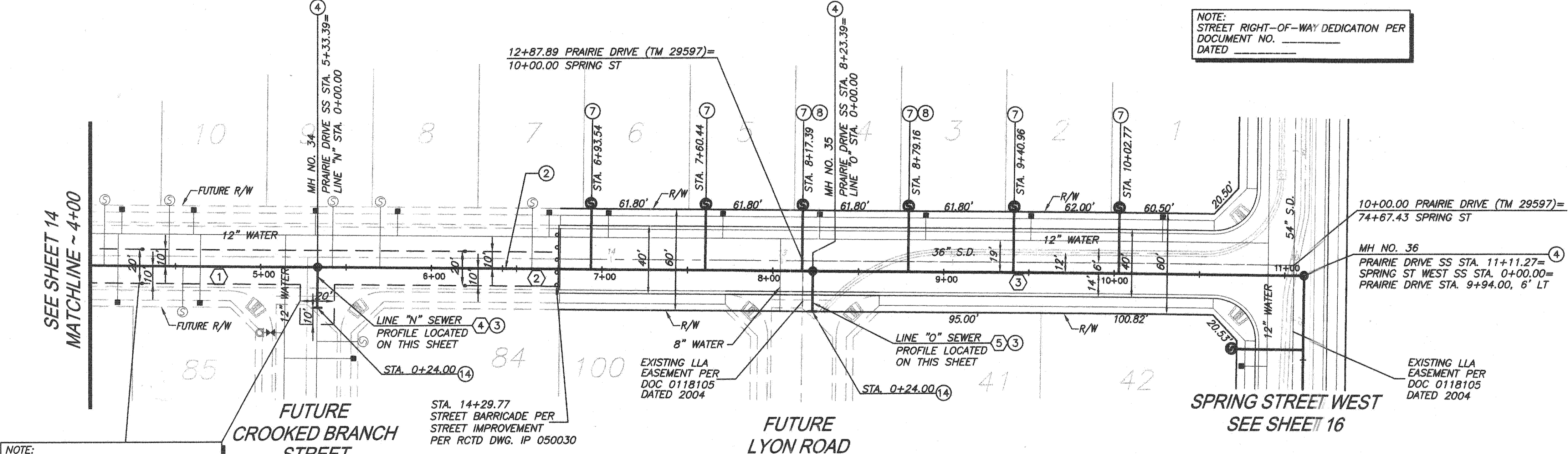
| SANITARY SEWER DATA TABLE | | | | | |
|---------------------------|---------------|--------|---------|---------|---------|
| NO. | BEARING/Delta | RADIUS | LENGTH | TANGENT | REMARKS |
| 1 | N00°37'43"E | - | 133.39' | - | 8" VCP |
| 2 | N00°37'43"E | - | 290.00' | - | " " |
| 3 | N00°37'43"E | - | 287.88' | - | " " |
| 4 | S89°22'17"E | - | 24.00' | - | 8" PVC |
| 5 | S89°22'17"E | - | 24.00' | - | " " |

NOTE:
 ALL DATA TABLE PIPE LENGTHS ARE MEASURED TO CENTER OF MANHOLE.
 ALL PIPE SLOPES ARE CALCULATE FROM INSIDE MANHOLE WALL TO INSIDE MANHOLE WALL

- CONSTRUCTION NOTES:**
- (22) INSTALL 8" VCP SEWER MAIN. BEDDING PER CITY OF RIVERSIDE STD. DWG. NO. 452.
 - (33) INSTALL 8" PVC (SDR 35) SEWER MAIN. BEDDING PER CITY OF RIVERSIDE STD. DWG. NO. 452.
 - (44) CONSTRUCT SANITARY SEWER MANHOLE PER CITY OF RIVERSIDE STD. DWG. NO. 500.
 - (77) INSTALL 4" PVC (SDR 35) SEWER LATERAL W/ CLEANOUT PER CITY OF RIVERSIDE STD. DWG. NO. 562A.
 - (88) BACKWATER VALVE
 - (104) INSTALL 8" PLUG.

NOTE:
 ALL WATER AND NON POTABLE WATER LINES SHOWN ON THIS SHEET IS PROPOSED PER RIVERSIDE HIGHLAND WATER COMPANY IMPROVEMENT PLANS
 ALL STORM DRAIN SHOWN ON THIS SHEET IS PROPOSED PER COUNTY OF RIVERSIDE MISCELLANEOUS DRAWING (MS) 4013 IMPROVEMENT PLANS

NOTE:
 STREET RIGHT-OF-WAY DEDICATION PER DOCUMENT NO. _____ DATED _____



TRACT 29597

PRAIRIE DRIVE

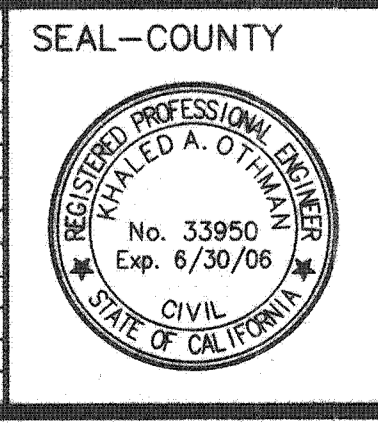
NOTE:
 SEWER EASEMENT DEDICATION PER DOCUMENT NO. _____ DATED _____



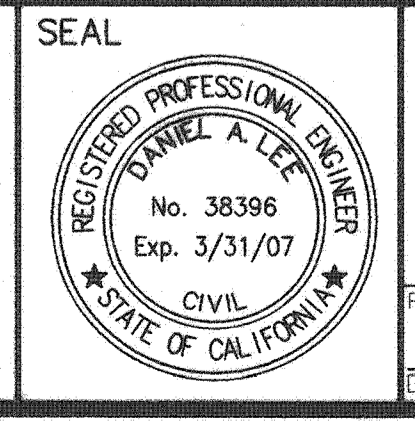
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| DATE | BY | MARK | REVISIONS | APPR. | DATE |
|------|----|------|-----------|-------|------|
| | | | | | |



SEAL-COUNTY
 COUNTY OF RIVERSIDE
 TRANSPORTATION DEPARTMENT
 APPROVED BY:
 KHALED A. OTHMAN DATE: _____
 RECOMMENDED BY PBS & J DATE: _____



Stantec Consulting, Inc.
 277 Rancheros Drive Suite 300
 San Marcos, CA 92069
 Tel. (760) 891-3200
 Fax. (760) 891-3201
 www.stantec.com
 PREPARED BY: Daniel A. Lee
 R.C.E. NO. 38396
 DATE: 2-4-06

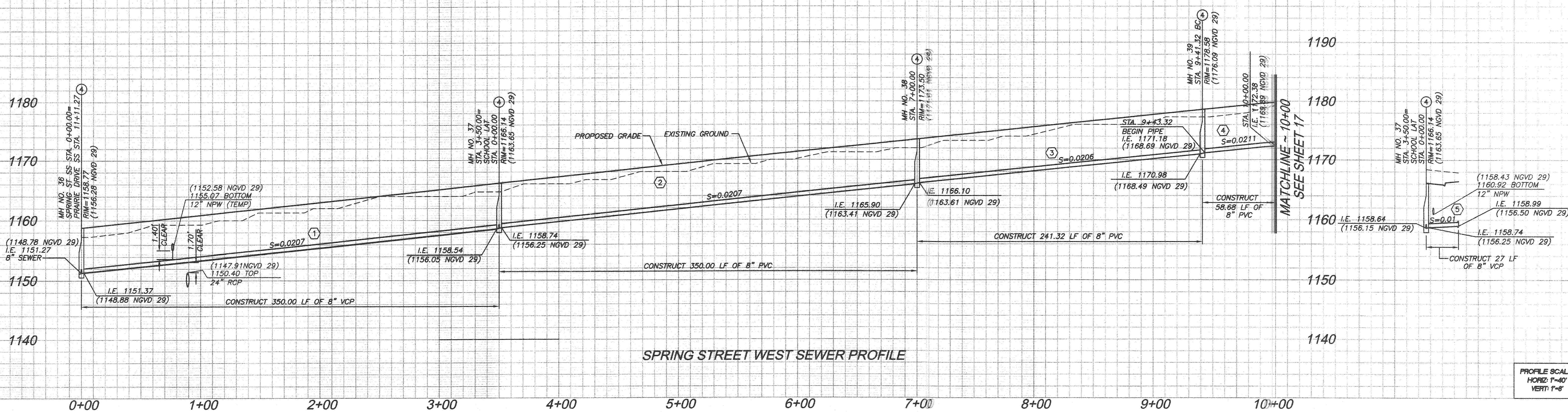
CITY OF RIVERSIDE
 RECOMMENDS APPROVAL
 [Signature] 10/22/06
 CITY ENGINEER DATE: _____

CITY OF RIVERSIDE DRAWING # S-1896
 WDID No. 833C327881 PW06-0020

COUNTY OF RIVERSIDE
 C.F.D. SEWER IMPROVEMENT PLANS
 SPRING MOUNTAIN RANCH
 BACKBONE SYSTEM FOR TRACT 29597 AND 29741
 29592, 29599, 29600, 29740
 MS 4013
PRAIRIE DRIVE (TTM 29597)
STA. 4+00 TO STA. 11+127
 SHEET NO. 15
 OF 26 SHTS.

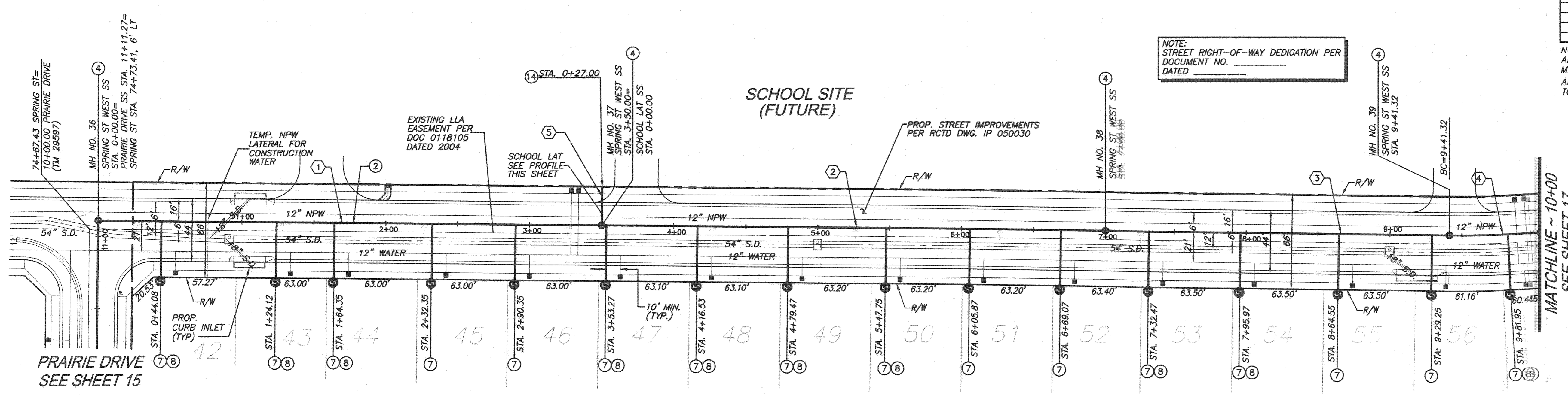
SEE SHEET 1 FOR BENCHMARK DATA
 SCALE: HOR: 1"=40' VERT: 1"=8'

FOR: W.O. COUNTY FILE NO. INDEXED S-02-07

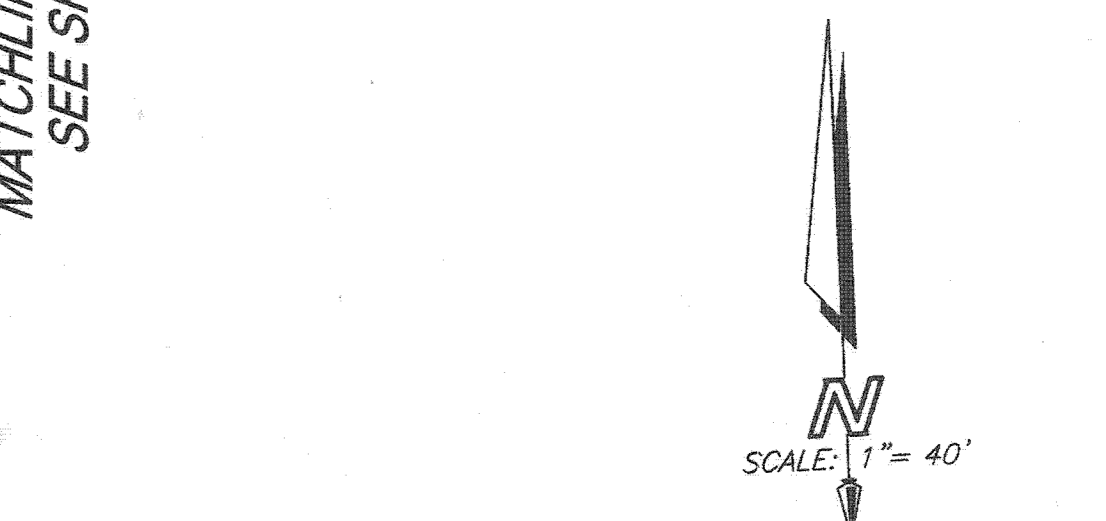


| SANITARY SEWER DATA TABLE | | | | | |
|---------------------------|---------------|---------|---------|---------|---------|
| NO. | BEARING/Delta | RADIUS | LENGTH | TANGENT | REMARKS |
| 1 | S89°17'25"E | - | 350.00' | - | 8" VCP |
| 2 | S89°17'25"E | - | 350.00' | - | 8" PVC |
| 3 | S89°17'25"E | - | 241.33' | - | 8" PVC |
| 4 | N00°42'35"E | 594.00' | 58.67' | 29.36' | 8" PVC |
| 5 | N00°42'35"E | - | 27.00' | - | 8" PVC |

NOTE: ALL DATA TABLE PIPE LENGTHS ARE MEASURED TO CENTER OF MANHOLE. ALL PIPE SLOPES ARE CALCULATE FROM INSIDE MANHOLE WALL TO INSIDE MANHOLE WALL.



NOTE: STREET RIGHT-OF-WAY DEDICATION PER DOCUMENT NO. _____ DATED _____



NOTE:
ALL WATER AND NON POTABLE WATER LINES SHOWN ON THIS SHEET IS PROPOSED PER RIVERSIDE HIGHLAND WATER COMPANY IMPROVEMENT PLANS
ALL STORM DRAIN SHOWN ON THIS SHEET IS PROPOSED PER COUNTY OF RIVERSIDE MISCELLANEOUS DRAWING (MS) 4013 IMPROVEMENT PLANS

- CONSTRUCTION NOTES:**
- 2) INSTALL 8" VCP SEWER MAIN. BEDDING PER CITY OF RIVERSIDE STD. DWG. NO. 452.
 - 4) CONSTRUCT SANITARY SEWER MANHOLE PER CITY OF RIVERSIDE STD. DWG. NO. 500.
 - 7) INSTALL 4" PVC (SDR 35) SEWER LATERAL W/ CLEANOUT PER CITY OF RIVERSIDE STD. DWG. NO. 562A.
 - 8) BACKWATER VALVE
 - 14) INSTALL 8" PLUG.

CITY OF RIVERSIDE
RECOMMENDS APPROVAL
Don Byrd 02/22/06
CITY ENGINEER DATE

CITY OF RIVERSIDE DRAWING # S-1896
WDID No. 833C327881 PW06-0020

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

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| DATE | BY | MARK | REVISIONS | APPR. | DATE |
|------|----|------|-----------|-------|------|
| | | | | | |

SEAL-COUNTY
COUNTY OF RIVERSIDE
TRANSPORTATION DEPARTMENT
APPROVED BY:
Khaled A. Othman

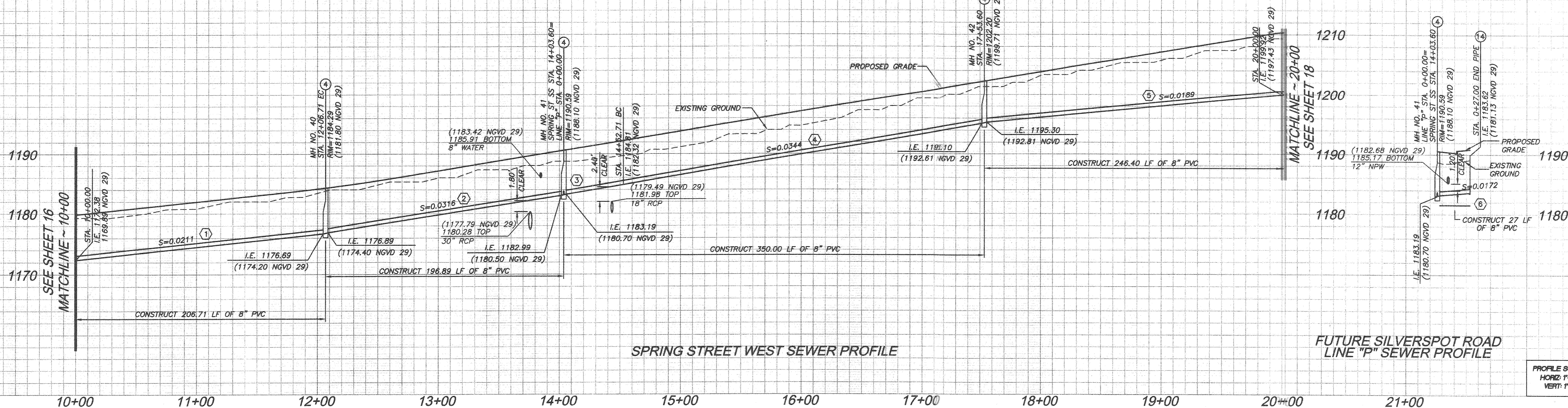
SEAL
REGISTERED PROFESSIONAL ENGINEER
DANIEL A. LEE
No. 33950
Exp. 3/31/07
CIVIL
STATE OF CALIFORNIA

Stantec Consulting, Inc.
277 Rancheros Drive Suite 300
San Marcos, CA 92069
Tel. (760) 891-3200
Fax. (760) 891-3201
www.stantec.com
R.C.E. No. 33396
DATE: 2-1-06

SEE SHEET 1 FOR BENCHMARK DATA
SCALE: HOR: 1"=40' VERT: 1"=8'

COUNTY OF RIVERSIDE
C.F.D. SEWER IMPROVEMENT PLANS
SPRING MOUNTAIN RANCH
BACKBONE SYSTEM FOR TRACT 29597 AND 29741
29592, 29599, 29600, 29740
MS 4013
SPRING STREET WEST
STA. 0+00 TO STA. 10+00
SHEET NO. 16
OF 26 SHTS.

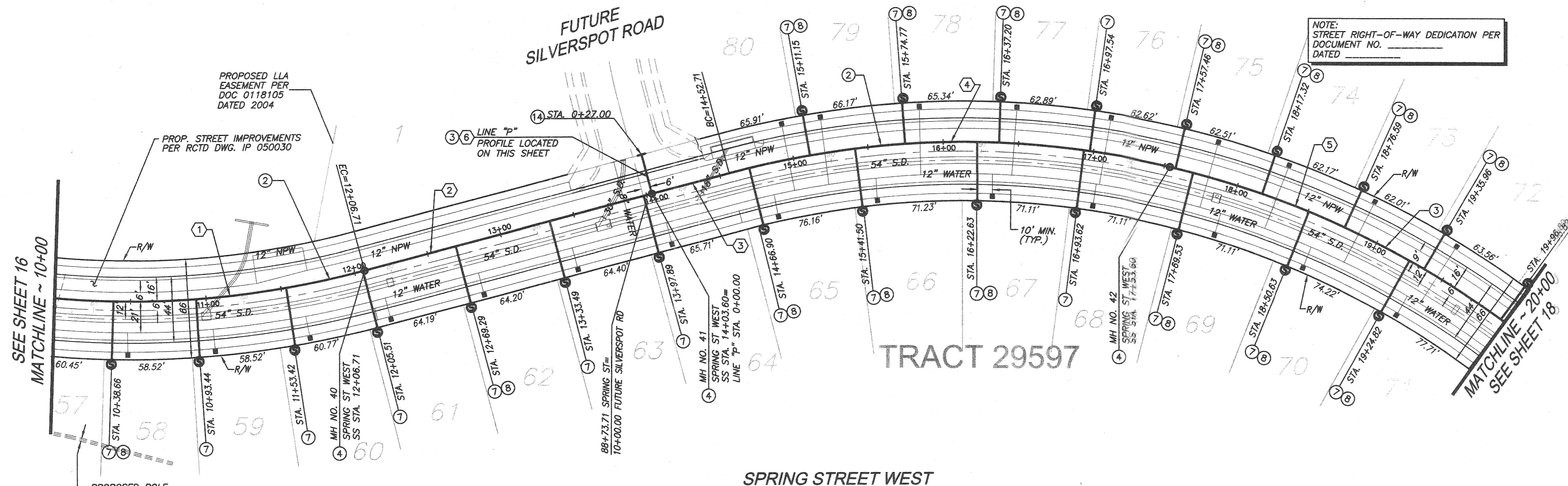
INDEXED 5-02-07 lft



SPRING STREET WEST SEWER PROFILE

FUTURE SILVERSPOT ROAD LINE "P" SEWER PROFILE

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



SPRING STREET WEST

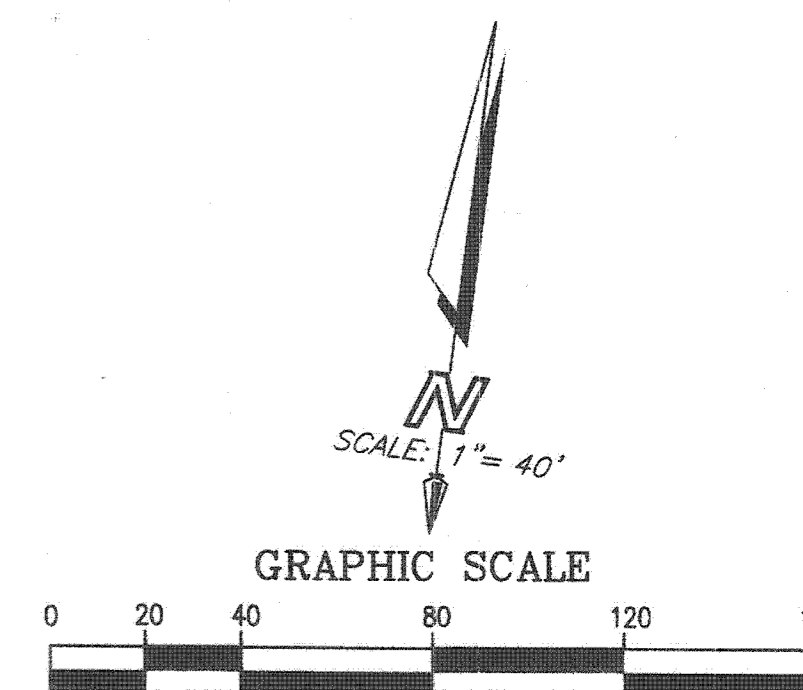
| SANITARY SEWER DATA TABLE | | | | | |
|---------------------------|---------------|---------|---------|---------|---------|
| NO. | BEARING/DELTA | RADIUS | LENGTH | TANGENT | REMARKS |
| 1 | A=19°56'22" | 594.00' | 206.71' | 104.41' | 8" PVC |
| 2 | N65°06'39"E | -- | 196.89' | -- | " " |
| 3 | N65°06'39"E | -- | 52.71' | -- | " " |
| 4 | A=28°06'29" | 608.00' | 297.29' | 151.70' | " " |
| 5 | A=32°07'07" | 608.00' | 339.71' | 174.45' | " " |
| 6 | N24°53'21"W | -- | 27.00' | -- | " " |

NOTE:
STREET RIGHT-OF-WAY DEDICATION PER DOCUMENT NO. _____ DATED _____

NOTE:
ALL DATA TABLE PIPE LENGTHS ARE MEASURED TO CENTER OF MANHOLE.
ALL PIPE SLOPES ARE CALCULATE FROM INSIDE MANHOLE WALL TO INSIDE MANHOLE WALL.

CONSTRUCTION NOTES:

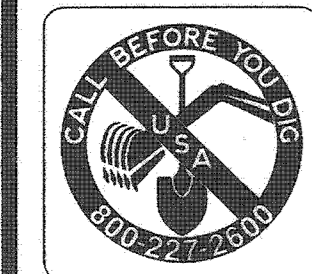
- ③ INSTALL 8" PVC (SDR 35) SEWER MAIN. BEDDING PER CITY OF RIVERSIDE STD. DWG. NO. 452.
- ④ CONSTRUCT SANITARY SEWER MANHOLE PER CITY OF RIVERSIDE STD. DWG. NO. 500.
- ⑦ INSTALL 4" PVC (SDR 35) SEWER LATERAL W/ CLEANOUT PER CITY OF RIVERSIDE STD. DWG. NO. 562A.
- ⑧ BACKWATER VALVE
- ⑭ INSTALL 8" PLUG.



NOTE:
ALL WATER AND NON POTABLE WATER LINES SHOWN ON THIS SHEET IS PROPOSED PER RIVERSIDE HIGHLAND WATER COMPANY IMPROVEMENT PLANS
ALL STORM DRAIN SHOWN ON THIS SHEET IS PROPOSED PER COUNTY OF RIVERSIDE MISCELLANEOUS DRAWING (MS) 4013 IMPROVEMENT PLANS

CITY OF RIVERSIDE
RECOMMENDS APPROVAL
Ann Byrd 10/27/06
CITY ENGINEER DATE

CITY OF RIVERSIDE DRAWING # S-1896
WDID No. 833C327881 PW06-0020



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
REGISTERED PROFESSIONAL ENGINEER
DANIEL A. OTHMAN
No. 33950
Exp. 6/30/06
CIVIL
STATE OF CALIFORNIA

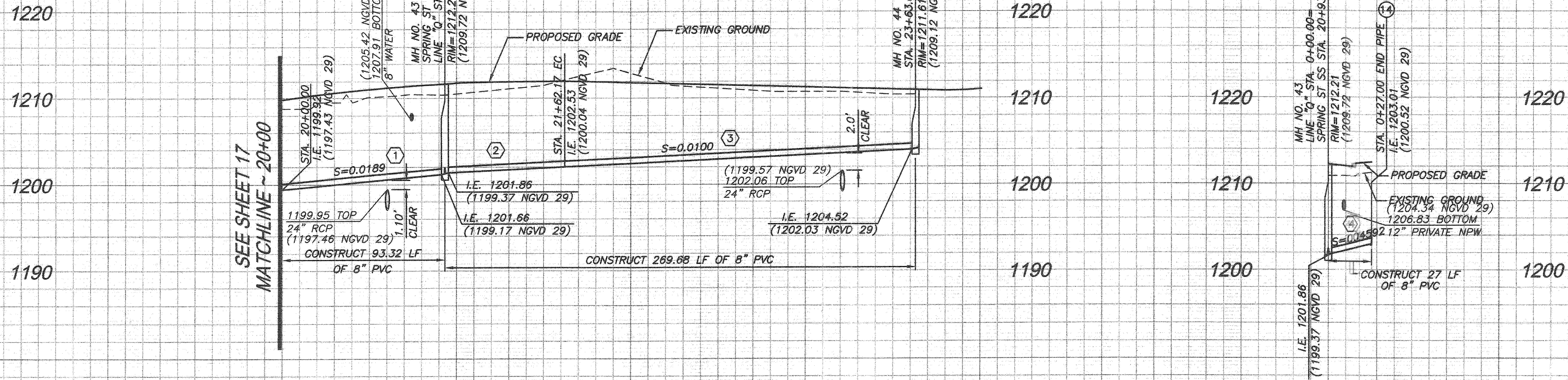
COUNTY OF RIVERSIDE
TRANSPORTATION DEPARTMENT
APPROVED BY:
RHALED A. OTHMAN DATE: _____
RECOMMENDED BY PBS & J DATE: _____

SEAL
REGISTERED PROFESSIONAL ENGINEER
DANIEL A. LEE
No. 38396
Exp. 3/31/07
CIVIL
STATE OF CALIFORNIA

Stantec Consulting, Inc.
277 Rancheros Drive Suite 300
San Marcos, CA 92069
Tel. (760) 891-3200
Fax. (760) 891-3201
www.stantec.com
R.C.E. NO. 38396
DATE: 2-4-06

SEE SHEET 1 FOR BENCHMARK DATA
SCALE: HOR: 1"=40' VERT: 1"=8'

COUNTY OF RIVERSIDE
C.F.D. SEWER IMPROVEMENT PLANS
SPRING MOUNTAIN RANCH
BACKBONE SYSTEM FOR TRACT 29597 AND 29740
29592, 29599, 29600, 29740
MS 4013
SPRING STREET WEST
STA. 10+00 TO STA. 20+00
SHEET NO. 17
OF 28 SHTS.



SPRING STREET WEST SEWER PROFILE

FUTURE BLUE OAK ROAD LINE "Q" SEWER PROFILE

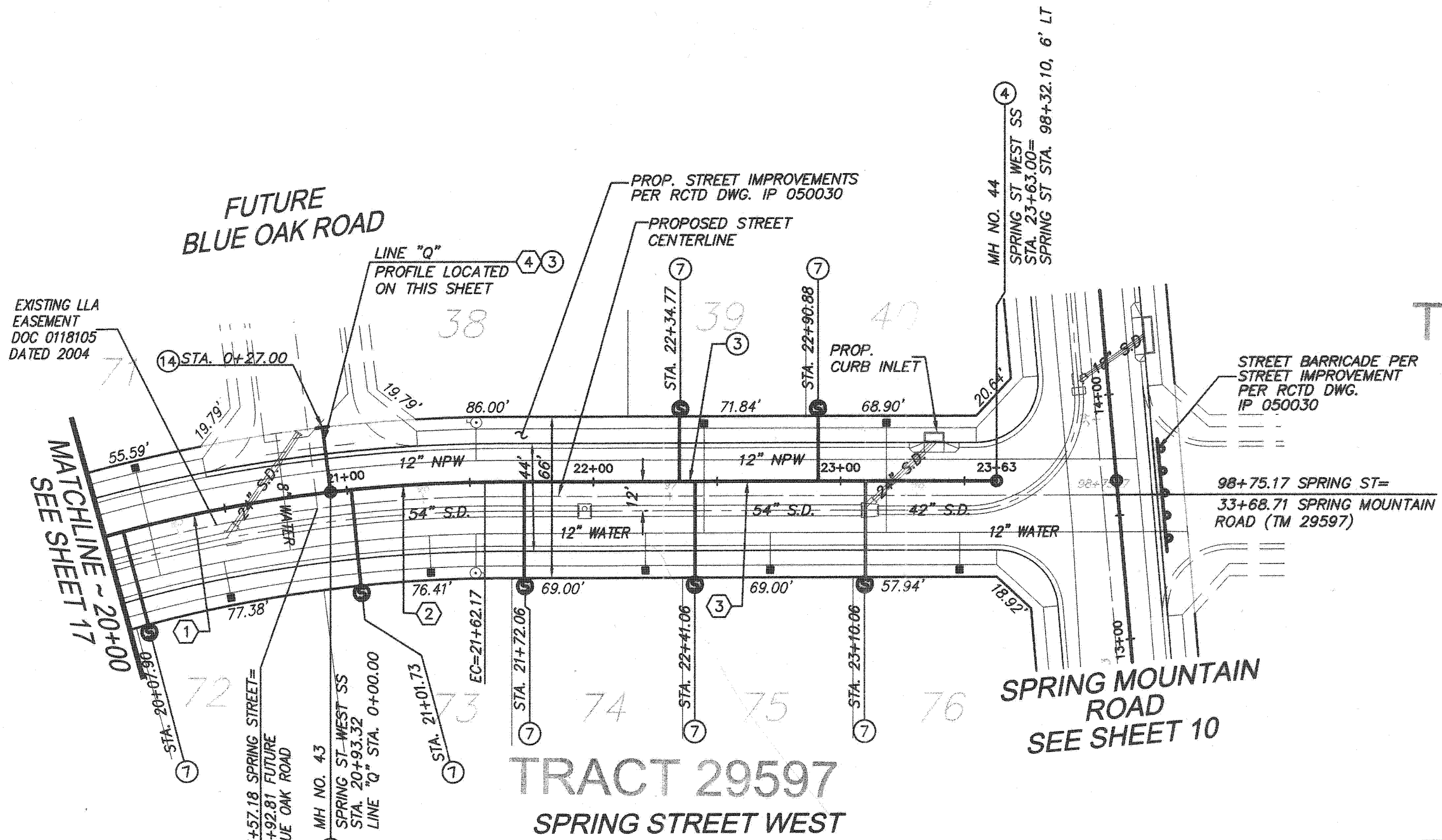
PROFILE SCALE
HORIZ: 1"=40'
VERT: 1"=8'

20+00 21+00 22+00 23+00 24+00

| SANITARY SEWER DATA TABLE | | | | | |
|---------------------------|---------------|---------|---------|---------|---------|
| NO. | BEARING/Delta | RADIUS | LENGTH | TANGENT | REMARKS |
| 1 | A=08°49'24" | 606.00' | 93.32' | 46.75' | 8" PVC |
| 2 | A=06°30'30" | 606.00' | 68.84' | 34.46' | " " |
| 3 | S48°07'24" E | - | 200.51' | - | " " |
| 4 | N34°46'16" E | - | 27.00' | - | " " |

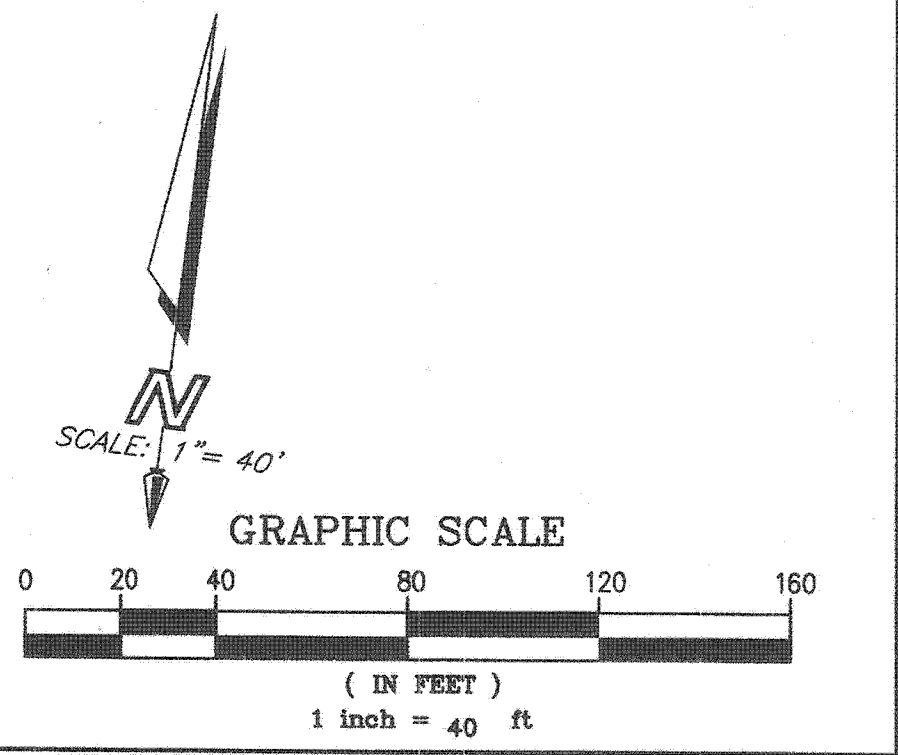
NOTE:
ALL DATA TABLE PIPE LENGTHS ARE MEASURED TO CENTER OF MANHOLE.
ALL PIPE SLOPES ARE CALCULATE FROM INSIDE MANHOLE WALL TO INSIDE MANHOLE WALL.

- CONSTRUCTION NOTES:**
- ③ INSTALL 8" PVC (SDR 35) SEWER MAIN. BEDDING PER CITY OF RIVERSIDE STD. DWG. NO. 452.
 - ④ CONSTRUCT SANITARY SEWER MANHOLE PER CITY OF RIVERSIDE STD. DWG. NO. 500.
 - ⑦ INSTALL 4" PVC (SDR 35) SEWER LATERAL W/ CLEANOUT PER CITY OF RIVERSIDE STD. DWG. NO. 562A.
 - ⑩ INSTALL 8" PLUG.



TRACT 2958

TRACT 2959
SPRING STREET WEST



NOTE:
ALL WATER AND NON POTABLE WATER LINES SHOWN ON THIS SHEET IS PROPOSED PER RIVERSIDE HIGHLAND WATER COMPANY IMPROVEMENT PLANS
ALL STORM DRAIN SHOWN ON THIS SHEET IS PROPOSED PER COUNTY OF RIVERSIDE MISCELLANEOUS DRAWING (MS) 4013 IMPROVEMENT PLANS

CITY OF RIVERSIDE
RECOMMENDS APPROVAL
Tom Boyd 10/22/06
CITY ENGINEER DATE

CITY OF RIVERSIDE DRAWING # S-1896
WDID No. 833C327881 PW06-0020



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 REVISIONS TO THE PLANS FOR APPROVAL BY THE COUNTY.

| DATE | BY | MARK | REVISIONS | APPR. | DATE |
|------|----|------|-----------|-------|------|
| | | | | | |

SEAL-COUNTY
REGISTERED PROFESSIONAL ENGINEER
KHALED A. OTHMAN
No. 33950
Exp. 6/30/06
CIVIL
STATE OF CALIFORNIA

COUNTY OF RIVERSIDE
TRANSPORTATION DEPARTMENT
APPROVED BY:
KHALED A. OTHMAN DATE: _____
RECOMMENDED BY PBS & J DATE: _____

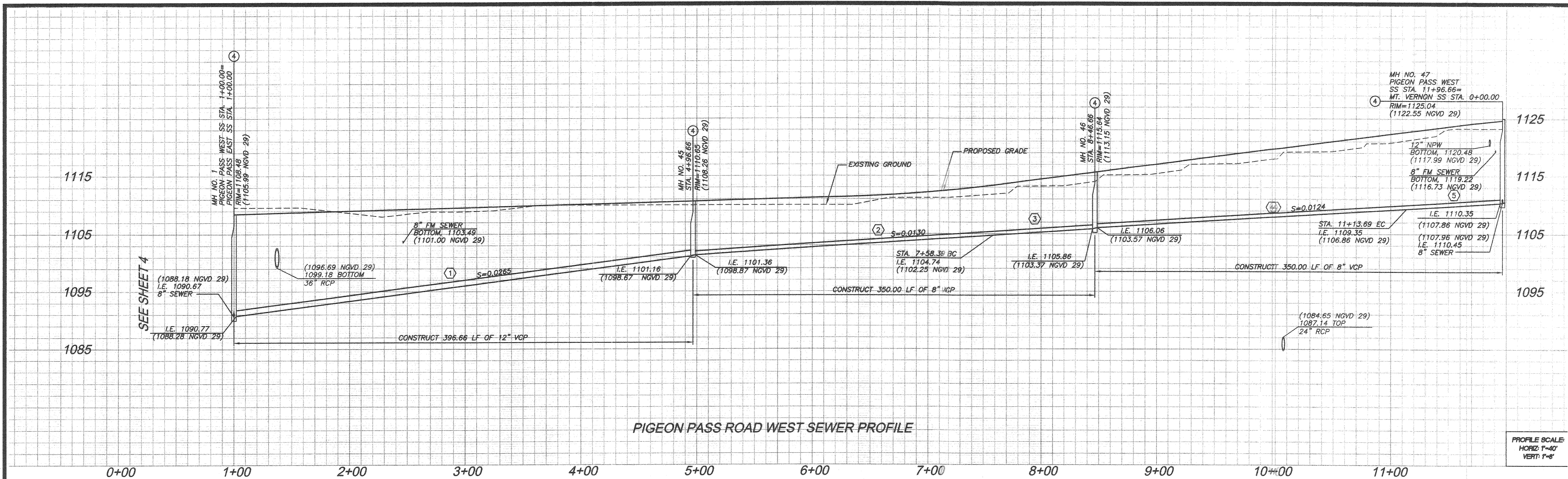
SEAL
REGISTERED PROFESSIONAL ENGINEER
DANIEL A. LEE
No. 38396
Exp. 3/31/07
CIVIL
STATE OF CALIFORNIA

Stantec Consulting, Inc.
277 Rancheros Drive Suite 300
San Marcos, CA 92069
Tel. (760) 891-3200
Fax. (760) 891-3201
www.stantec.com
R.C.E. NO. 38396
DATE: 2-4-06

SEE SHEET 1 FOR BENCHMARK DATA
SCALE: HOR: 1"=40' VERT: 1"=8'

COUNTY OF RIVERSIDE
C.F.D. SEWER IMPROVEMENT PLANS
BACKBONE SYSTEM FOR TRACT 29597 AND 29741
29592, 29599, 29600, 29740
MS 4013
SPRING STREET WEST
STA. 20+00 TO STA. 23+63
SHEET NO. 18
OF 26 SHTS.

INDEXED 5-02-07 LTT



PIGEON PASS ROAD WEST SEWER PROFILE

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

NOTE:

ALL WATER AND NON POTABLE WATER LINES SHOWN ON THIS SHEET IS PROPOSED PER RIVERSIDE HIGHLAND WATER COMPANY IMPROVEMENT PLANS

ALL STORM DRAIN SHOWN ON THIS SHEET IS PROPOSED PER COUNTY OF RIVERSIDE MISCELLANEOUS DRAWING (MS) 4013 IMPROVEMENT PLANS

| SANITARY SEWER DATA TABLE | | | | | |
|---------------------------|---------------|---------|---------|---------|---------|
| NO. | BEARING/Delta | RADIUS | LENGTH | TANGENT | REMARKS |
| 1 | N81°21'12"W | - | 396.66' | - | 12" VCP |
| 2 | N81°21'12"W | - | 261.73' | - | 8" VCP |
| 3 | A=08°16'29" | 806.00' | 88.27' | 44.18' | " |
| 4 | A=18°58'56" | 806.00' | 267.03' | 134.75' | " |
| 5 | S73°23'23"W | - | 82.97' | - | " |

NOTE: ALL DATA TABLE PIPE LENGTHS ARE MEASURED TO CENTER OF MANHOLE.
ALL PIPE SLOPES ARE CALCULATE FROM INSIDE MANHOLE WALL TO INSIDE MANHOLE WALL

NOTE: STREET RIGHT-OF-WAY DEDICATION PER DOCUMENT NO. _____ DATED _____

NOTE: SEWER EASEMENT DEDICATION PER DOCUMENT NO. _____ DATED _____

EXISTING LLA MRF GROVES BOUNDARY DOC 0118105 DATED 2004

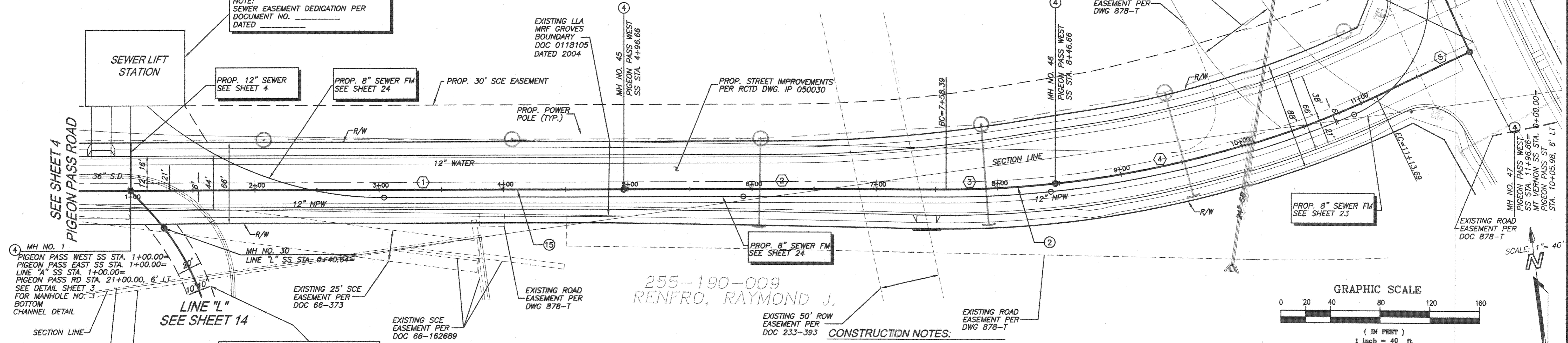
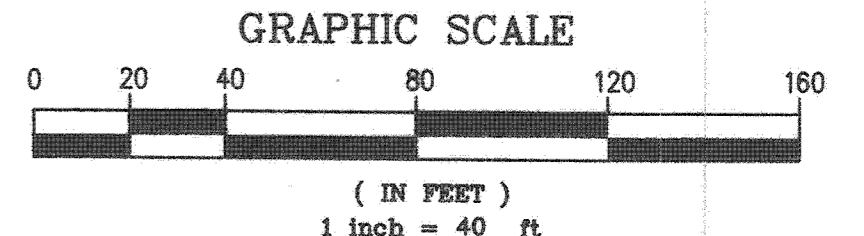
EXISTING LLA MRF GROVES BOUNDARY DOC 983759 DATED 2003

EXISTING ROAD EASEMENT PER DWG 878-T

SCALE: 1"=40'

TRACT 29741

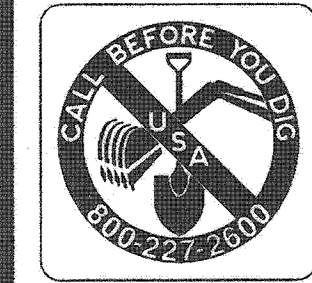
255-190-009
RENFRO, RAYMOND J.



- CONSTRUCTION NOTES:**
- ② INSTALL 8" VCP SEWER MAIN. BEDDING PER CITY OF RIVERSIDE STD. DWG. NO. 452.
 - ④ CONSTRUCT SANITARY SEWER MANHOLE PER CITY OF RIVERSIDE STD. DWG. NO. 500.
 - ⑮ INSTALL 12" VCP SEWER MAIN. BEDDING PER CITY OF RIVERSIDE STD. DWG. NO. 452.

CITY OF RIVERSIDE
RECOMMENDS APPROVAL
Tom Boyd 1/11/06
CITY ENGINEER DATE

CITY OF RIVERSIDE DRAWING # S-1896
WDID No. 833C-327881 PW06-0020



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 HEREIN. 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
REGISTERED PROFESSIONAL ENGINEER
KHALED A. OTHMAN
No. 33950
Exp. 6/30/06
CIVIL
STATE OF CALIFORNIA

COUNTY OF RIVERSIDE
TRANSPORTATION DEPARTMENT
APPROVED BY:
KHALED A. OTHMAN DATE: _____
RECOMMENDED BY P&J DATE: _____

SEAL
REGISTERED PROFESSIONAL ENGINEER
DANIEL A. LEE
No. 38396
Exp. 3/31/07
CIVIL
STATE OF CALIFORNIA

Stantec Consulting, Inc.
277 Rancheros Drive Suite 300
San Marcos, CA 92069
Tel. (760) 891-3200
Fax. (760) 891-3201
www.stantec.com

R.C.E. NO. 38396
DATE: 2-4-06

SEE SHEET 1 FOR BENCHMARK DATA

SCALE: HOR: 1"=40' VERT: 1"=8'

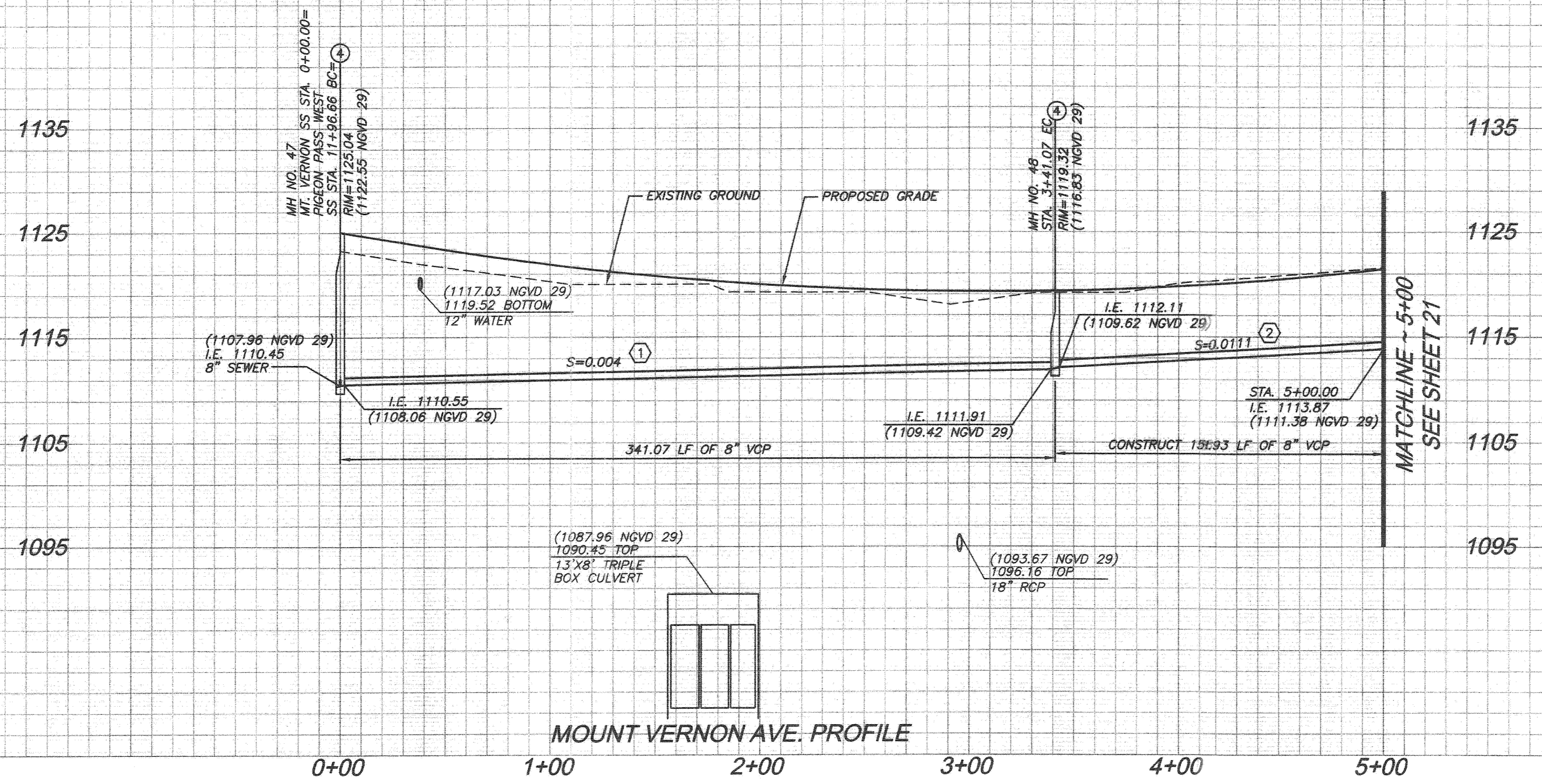
COUNTY OF RIVERSIDE
C.F.D. SEWER IMPROVEMENT PLANS
SPRING MOUNTAIN RANCH
BACKBONE SYSTEM FOR TRACT 29597 AND 29741
29592, 29599, 29600, 29740
MS 4013

PIGEON PASS ROAD WEST
STA. 1+00 TO STA. 11+08.66

SHEET NO. 19 OF 26 SHTS.

FOR: W.O. COUNTY FILE NO.

INDEXED 5-02-07 LHH



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

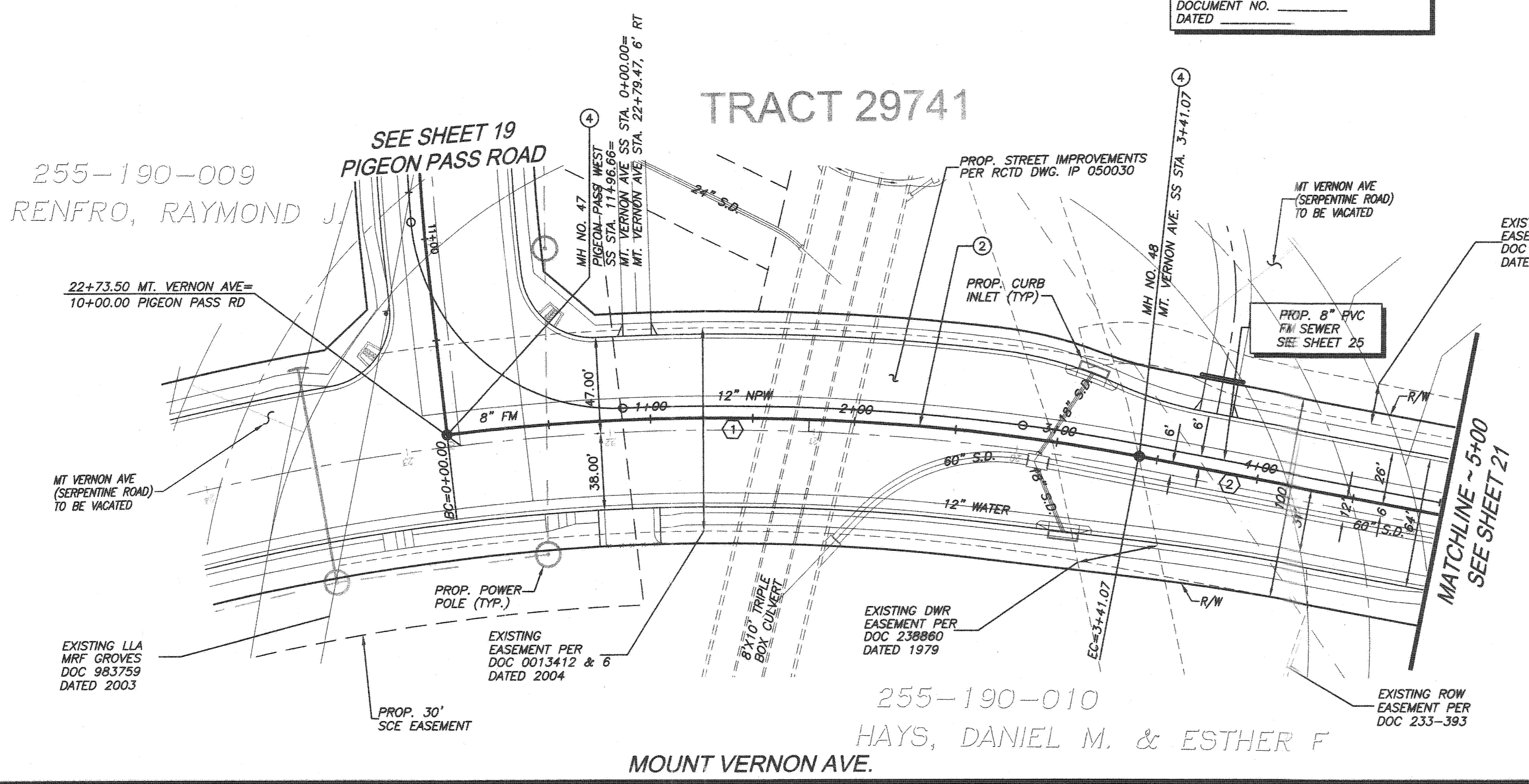
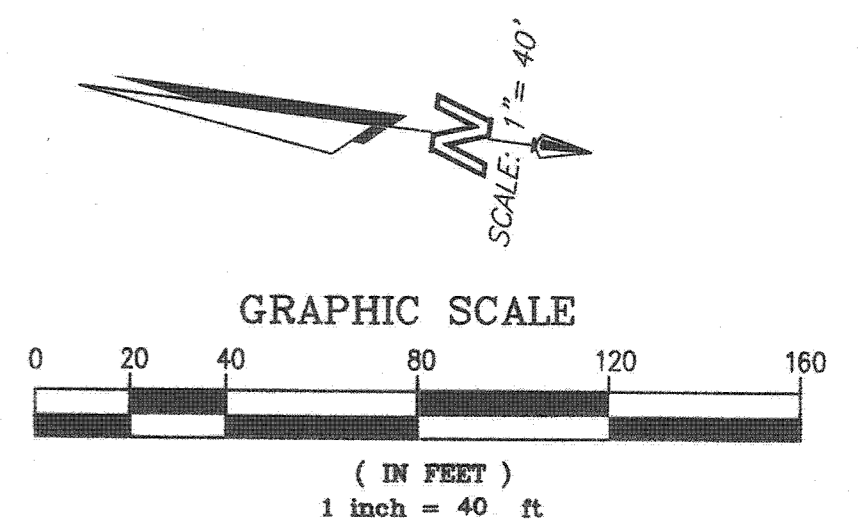
NOTE:
STREET RIGHT-OF-WAY DEDICATION PER
DOCUMENT NO. _____
DATED _____

| SANITARY SEWER DATA TABLE | | | | | |
|---------------------------|---------------|----------|---------|---------|---------|
| NO. | BEARING/Delta | RADIUS | LENGTH | TANGENT | REMARKS |
| 1 | 174°08' | 1106.00' | 341.07' | 171.90' | 8" VCP |
| 2 | S80°44'52" W | - | 158.93' | - | " " |

NOTE:
ALL DATA TABLE PIPE LENGTHS ARE MEASURED TO CENTER OF MANHOLE.
ALL PIPE SLOPES ARE CALCULATE FROM INSIDE MANHOLE WALL TO INSIDE MANHOLE WALL

CONSTRUCTION NOTES:
② INSTALL 8" VCP SEWER MAIN. BEDDING PER CITY OF RIVERSIDE STD. DWG. NO. 452.
④ CONSTRUCT SANITARY SEWER MANHOLE PER CITY OF RIVERSIDE STD. DWG. NO. 500.

NOTE:
ALL WATER AND NON POTABLE WATER LINES SHOWN ON THIS SHEET IS PROPOSED PER RIVERSIDE HIGHLAND WATER COMPANY IMPROVEMENT PLANS
ALL STORM DRAIN SHOWN ON THIS SHEET IS PROPOSED PER COUNTY OF RIVERSIDE MISCELLANEOUS DRAWING (MS) 4013 IMPROVEMENT PLANS



CITY OF RIVERSIDE
RECOMMENDS APPROVAL
[Signature] 10/12/06
CITY ENGINEER DATE

THIS SHEET HAS CFD FACILITIES
CITY OF RIVERSIDE DRAWING # S-1896
WDID No. 833C327881 PW06-0020



NOTE: WORK CONTAINED WITHIN THESE PLANS SHALL NOT COMMENCE UNTIL AN ENCROACHMENT PERMIT AND/OR GRADING PERMIT HAS BEEN ISSUED.
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| DATE | BY | MARK | REVISIONS | APPR. | DATE |
|------|----|------|-----------|-------|------|
| | | | | | |

SEAL-COUNTY
REGISTERED PROFESSIONAL ENGINEER
DANIEL A. OTHMAN
No. 33950
Exp. 6/30/06
CIVIL
STATE OF CALIFORNIA

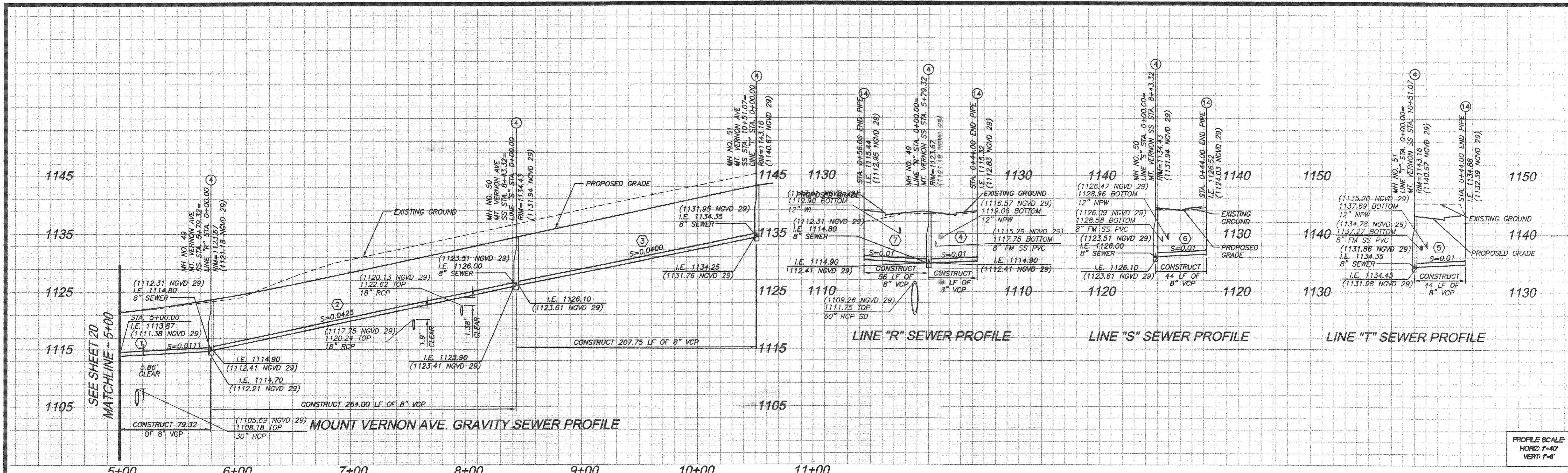
COUNTY OF RIVERSIDE
TRANSPORTATION DEPARTMENT
APPROVED BY:
RHALED A. OTHMAN DATE: _____
RECOMMENDED BY PBS & J DATE: _____

SEAL
REGISTERED PROFESSIONAL ENGINEER
DANIEL A. LEE
No. 38396
Exp. 3/31/07
CIVIL
STATE OF CALIFORNIA

Stantec Consulting, Inc.
277 Rancheros Drive Suite 300
San Marcos, CA 92069
Tel. (760) 891-3200
Fax. (760) 891-3201
www.stantec.com
R.C.E. NO. 38396
DATE: 2-7-06

SEE SHEET 1 FOR BENCHMARK DATA
SCALE: HOR: 1"=40' VERT: 1"=8'

COUNTY OF RIVERSIDE
C.F.D. SEWER IMPROVEMENT PLANS
SPRING MOUNTAIN RANCH
BACKBONE SYSTEM FOR TRACT 29597 AND 29741
29592, 29599, 29600, 29740
MS 4013
MOUNT VERNON AVE.
STA. 0+00 TO STA. 5+00
SHEET NO. 20 OF 26 SHTS.



| SANITARY SEWER DATA TABLE | | | | | |
|---------------------------|---------------|--------|---------|---------|---------|
| NO. | BEARING/Delta | RADIUS | LENGTH | TANGENT | REMARKS |
| 1 | S00°44'52"W | - | 79.32' | - | 8" VCP |
| 2 | S00°44'52"W | - | 121.75' | - | " " |
| 3 | S00°44'52"W | - | 350.00' | - | " " |
| 4 | S89°15'08"E | - | 44.00' | - | 8" VCP |
| 5 | S89°15'08"E | - | 44.00' | - | " " |
| 6 | S89°15'08"E | - | 44.00' | - | " " |
| 7 | S89°15'08"E | - | 56.00' | - | " " |

NOTE:
ALL DATA TABLE PIPE LENGTHS ARE MEASURED TO CENTER OF MANHOLE.

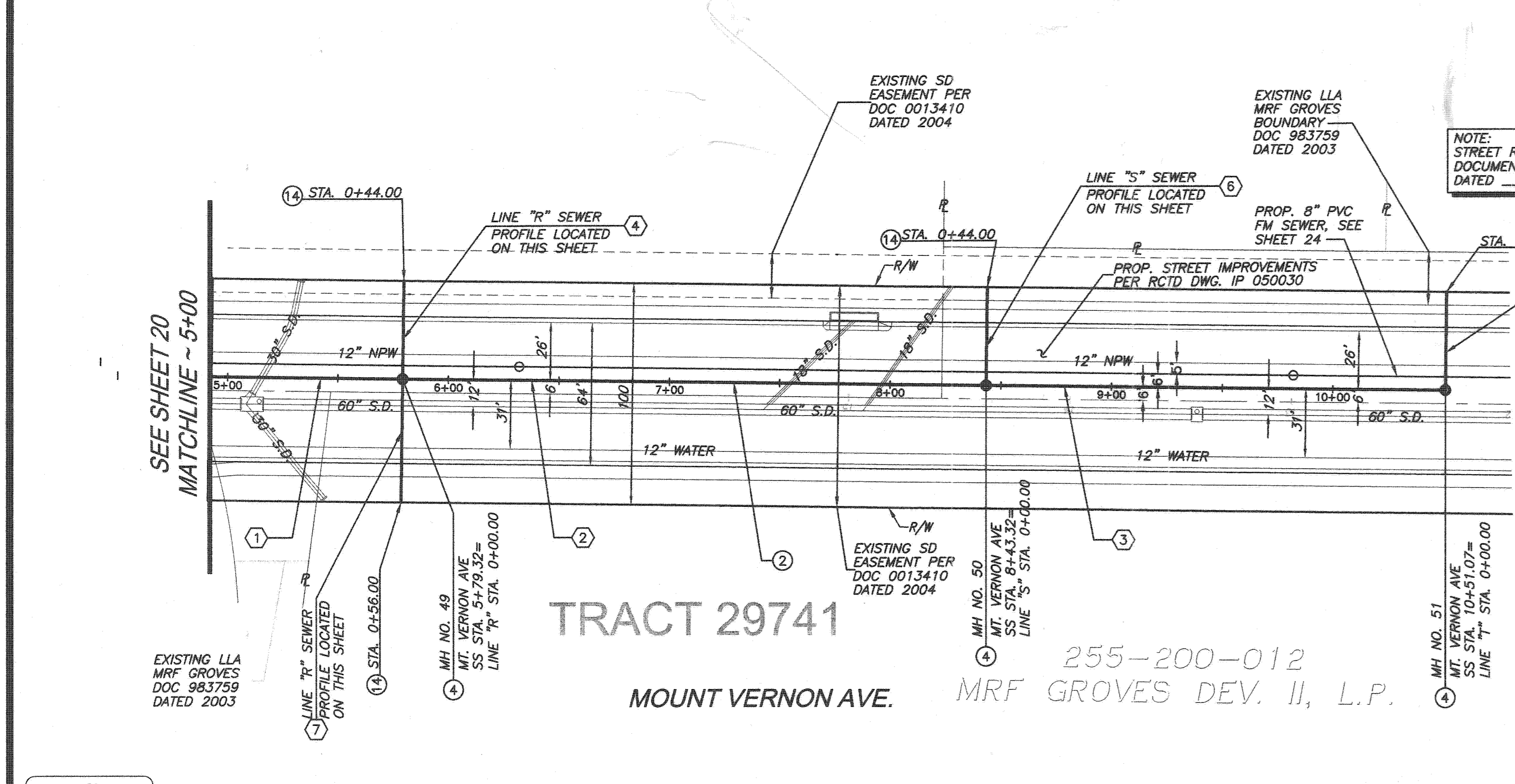
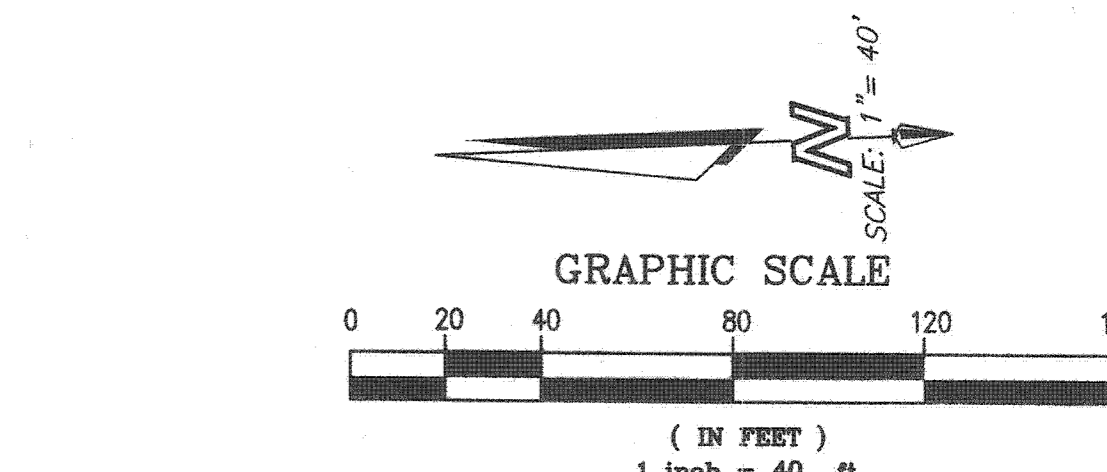
ALL PIPE SLOPES ARE CALCULATE FROM INSIDE MANHOLE WALL TO INSIDE MANHOLE WALL.

CONSTRUCTION NOTES:

- ② INSTALL 8" VCP SEWER MAIN, BEDDING PER CITY OF RIVERSIDE STD. DWG. NO. 452.
- ④ CONSTRUCT SANITARY SEWER MANHOLE PER CITY OF RIVERSIDE STD. DWG. NO. 500.
- ⑭ INSTALL 8" PLUG.

NOTE:
ALL WATER AND NON POTABLE WATER LINES SHOWN ON THIS SHEET IS PROPOSED PER RIVERSIDE HIGHLAND WATER COMPANY IMPROVEMENT PLANS

ALL STORM DRAIN SHOWN ON THIS SHEET IS PROPOSED PER COUNTY OF RIVERSIDE MISCELLANEOUS DRAWING (MS) 4013 IMPROVEMENT PLANS



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SEAL-COUNTY

COUNTY OF RIVERSIDE
TRANSPORTATION DEPARTMENT
APPROVED BY:

KHALED A. OTHMAN

SEAL

REGISTERED PROFESSIONAL ENGINEER
DANIEL A. LEE
No. 38396
Exp. 3/31/07
CIVIL
STATE OF CALIFORNIA

CITY OF RIVERSIDE
RECOMMENDS APPROVAL

[Signature] 10/22/06
CITY ENGINEER DATE

CITY OF RIVERSIDE DRAWING # S-1896

WDID No. 833C327881 PW06-0020

COUNTY OF RIVERSIDE
C.F.D. SEWER IMPROVEMENT PLANS
SPRING MOUNTAIN RANCH
BACKBONE SYSTEM FOR TRACT 29597 AND 29741
29592, 29599, 29600, 29740
MS 4013

MOUNT VERNON AVE.
STA. 5+00 TO STA. 10+51.07

SHEET NO. 21
OF 26 SHTS.

DATE BY MARK
ENGINEER

REVISIONS

APPR. DATE
COUNTY

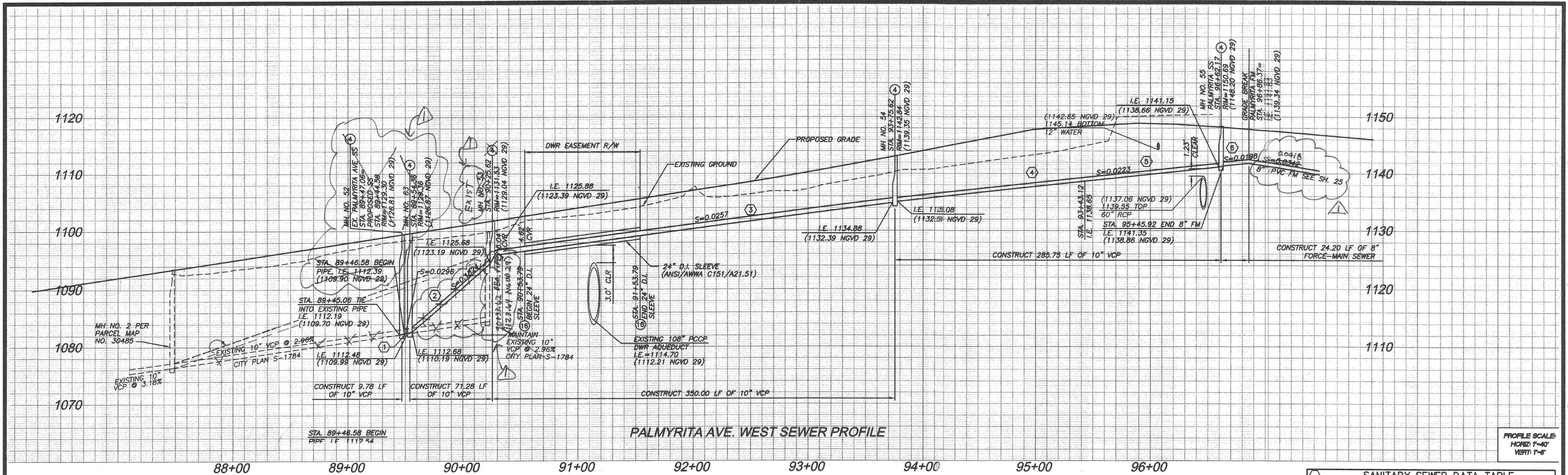
RECOMMENDED BY PBS & J

DATE: 2-7-06

SCALE: HOR: 1"=40' VERT: 1"=8'

FOR: W.O. COUNTY FILE NO.

INDEXED 5-02-07 LH



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

| SANITARY SEWER DATA TABLE | | | | | |
|---------------------------|---------------|---------|---------|---------|---------|
| NO. | BEARING/Delta | RADIUS | LENGTH | TANGENT | REMARKS |
| 1 | N45°37'19"E | - | 9.78' | - | 10" VCP |
| 2 | N69°17'29"W | - | 71.28' | - | " |
| 3 | S89°17'29"E | - | 350.00' | - | " |
| 4 | S89°16'16"E | - | 168.30' | - | " |
| 5 | A=68°53'53" | 100.00' | 118.25' | 68.60' | 8" PVC |
| 6 | A=21°04'59" | 100.00' | 38.80' | 18.61' | 8" PVC |

NOTE:
ALL DATA TABLE PIPE LENGTHS ARE MEASURED TO CENTER OF MANHOLE.
ALL PIPE SLOPES ARE CALCULATE FROM INSIDE MANHOLE WALL TO INSIDE MANHOLE WALL

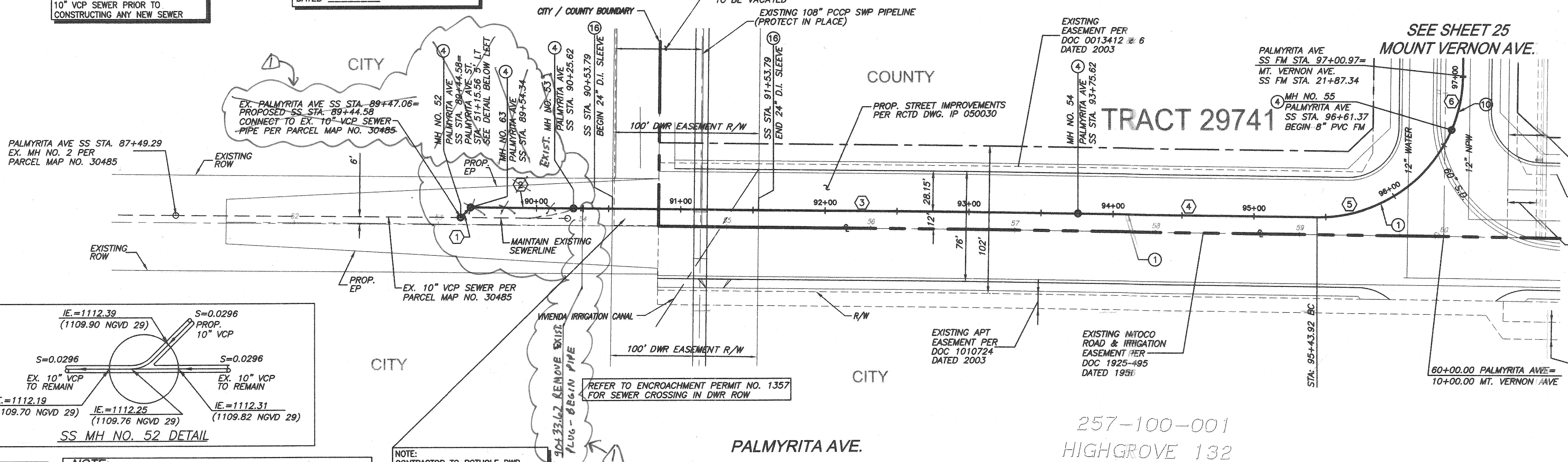
- CONSTRUCTION NOTES:**
- INSTALL 10" VCP SEWER MAIN. BEDDING PER CITY OF RIVERSIDE STD. DWG. NO. 452.
 - CONSTRUCT SANITARY SEWER MANHOLE PER CITY OF RIVERSIDE STD. DWG. NO. 500.
 - INSTALL 8" PVC (SDR 35) SEWER FORCE-MAIN. BEDDING PER CITY OF RIVERSIDE STD. DWG. NO. 452.
 - SLEEVES TO BE PER PLAN. SEWER MAIN TO BE INSTALLED IN THE SLEEVE WITH A CONTINUOUS 2"x6" REDWOOD LUMBER SKID AND 1" STAINLESS STEEL BANDS AT 5' ON CENTER. ATTACHING INSERT SIZE OF SEWER MAIN, HERE TO THE SKID.

NOTE:
CONTRACTOR TO HORIZONTALLY AND VERTICALLY LOCATE THE EXISTING 10" VCP SEWER PRIOR TO CONSTRUCTING ANY NEW SEWER

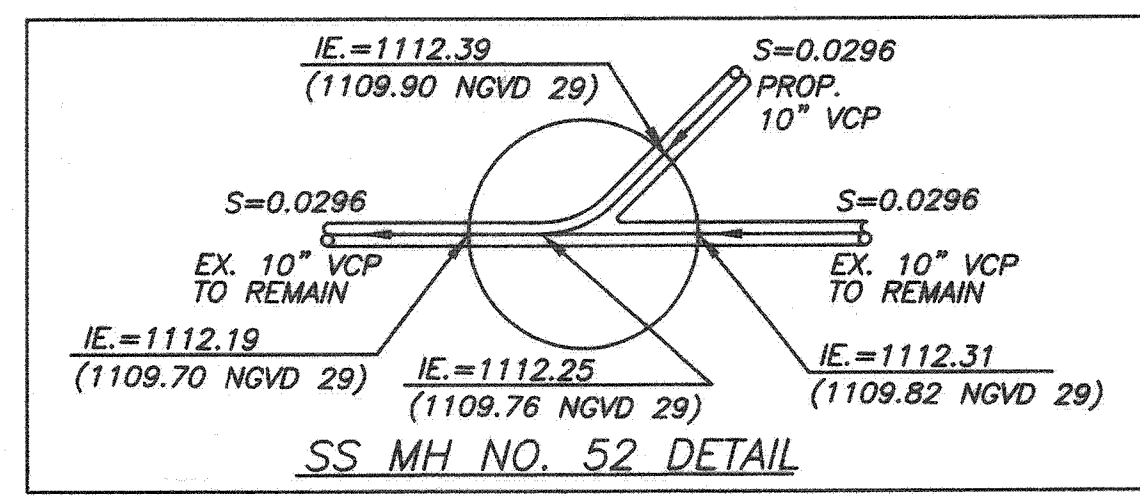
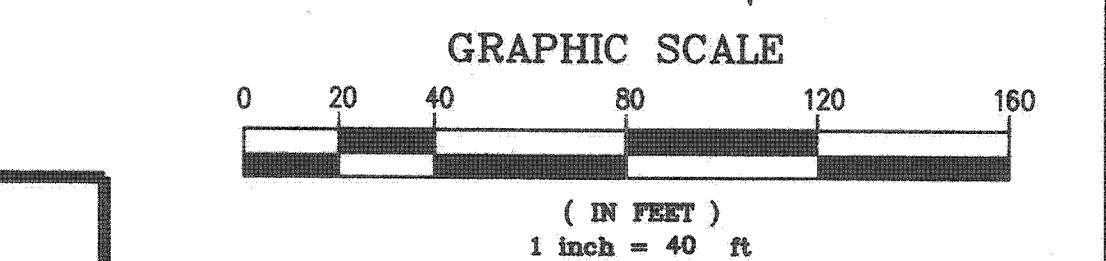
NOTE:
STREET RIGHT-OF-WAY DEDICATION PER DOCUMENT NO. _____ DATED _____

255-200-012
MRF GROVES DEV. II, L.P.

SEE SHEET 25
MOUNT VERNON AVE.



EXISTING LLA MRF GROVES BOUNDARY DOC 983759 DATED 2004
EXISTING EASEMENT PER DOC 0013412 & 6 DATED 2004
EXISTING EASEMENT PER DOC 0013410 DATED 2004
EXISTING APT EASEMENT PER DOC 1010724 DATED 2003



NOTE:
ALL WATER AND NON POTABLE WATER LINES SHOWN ON THIS SHEET IS PROPOSED PER RIVERSIDE HIGHLAND WATER COMPANY IMPROVEMENT PLANS
ALL STORM DRAIN SHOWN ON THIS SHEET IS PROPOSED PER COUNTY OF RIVERSIDE MISCELLANEOUS DRAWING (MS) 4013 IMPROVEMENT PLANS

NOTE:
CONTRACTOR TO POTHOLE DWR SAPL PRIOR TO SEWER INSTALLATION TO VERIFY LOCATION & DEPTH.



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

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| DATE | BY | MARK | REVISIONS | APPR. | DATE |
|---------|----|------|---|-------|---------|
| 6/27/06 | DL | (1) | REVISIONS FOR LOWERING FOREBRAIN RAISING LINE B + LINE B MARK PROFILE | (2) | 6/27/06 |

SEAL-COUNTY
REGISTERED PROFESSIONAL ENGINEER
KHALED A. OTHMAN
No. 33950
Exp. 6/30/06
CIVIL
STATE OF CALIFORNIA

COUNTY OF RIVERSIDE
TRANSPORTATION DEPARTMENT
APPROVED BY:
KHALED A. OTHMAN
DATE:
RECOMMENDED BY PBS & J
DATE:

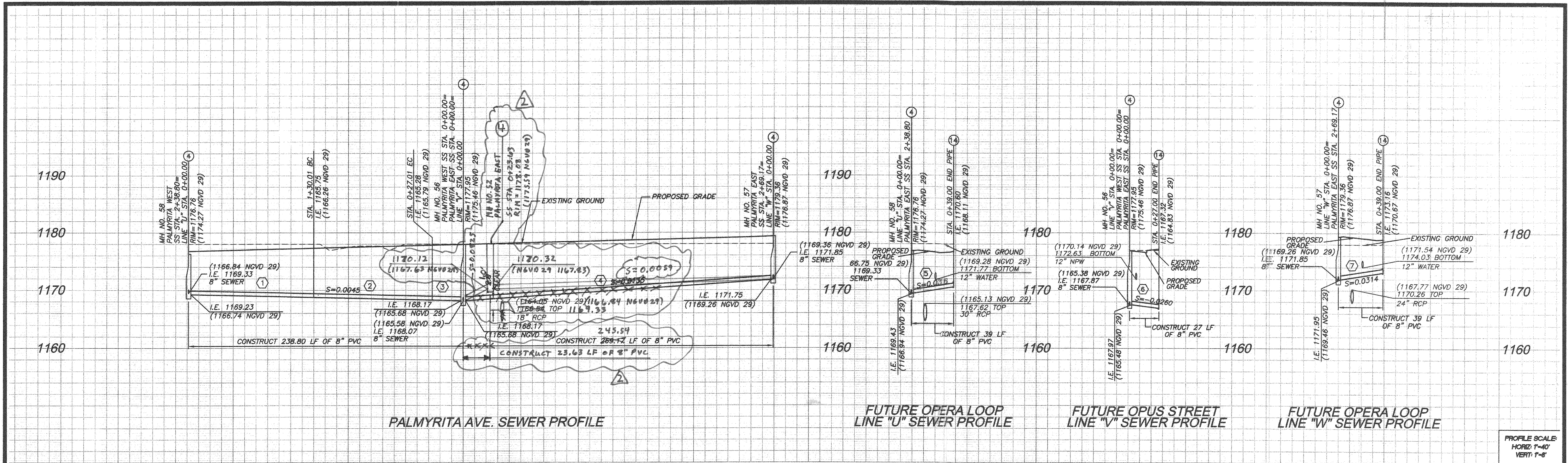
SEAL
REGISTERED PROFESSIONAL ENGINEER
DANIEL A. LEE
No. 38396
Exp. 3/31/07
CIVIL
STATE OF CALIFORNIA

Stantec Consulting, Inc.
277 Rancheros Drive Suite 300
San Marcos, CA 92069
Tel. (760) 891-3200
Fax. (760) 891-3201
www.stantec.com
R.C.E. NO. 38396
DATE: 6-28-06

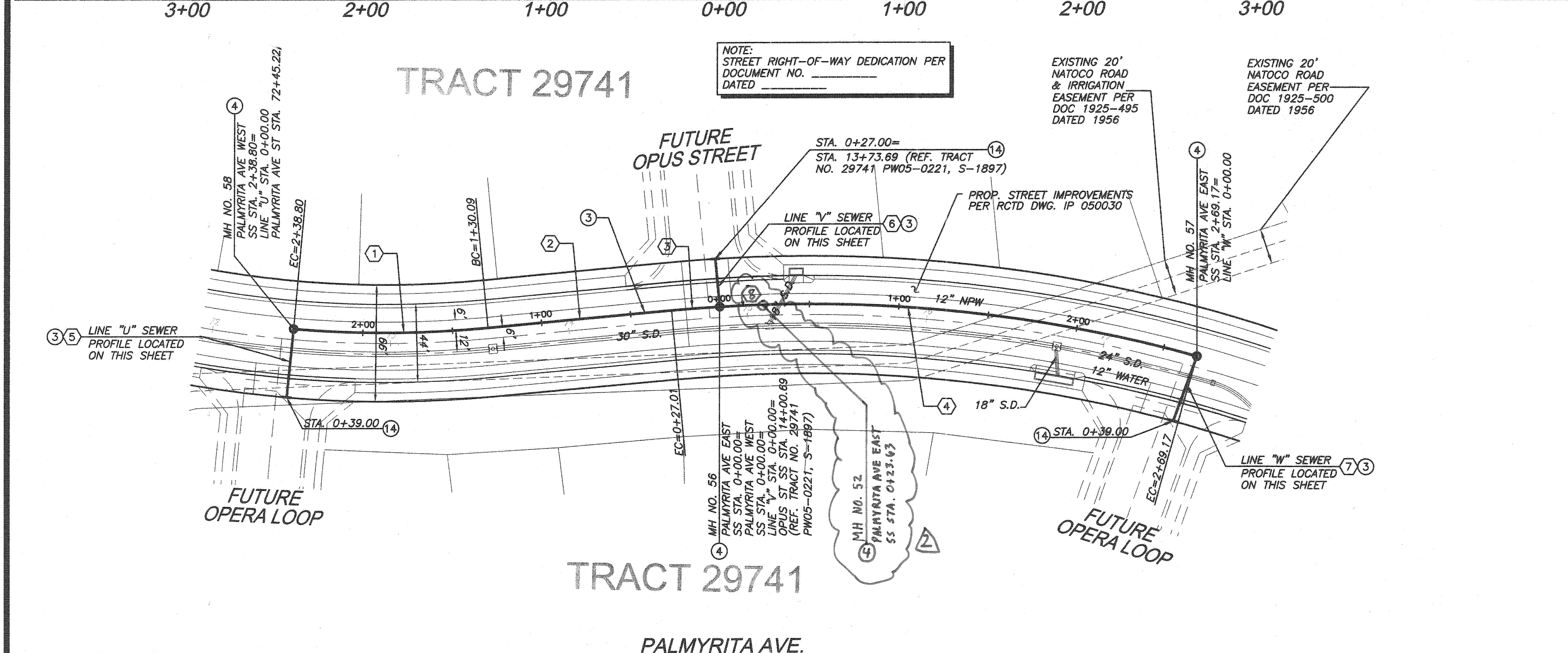
CITY OF RIVERSIDE
RECOMMENDS APPROVAL
CITY ENGINEER
DATE: 6/27/06

CITY OF RIVERSIDE DRAWING # S-1896
WDID No. 833C327881 PW06-0020

COUNTY OF RIVERSIDE
C.F.D. SEWER IMPROVEMENT PLANS
SPRING MOUNTAIN RANCH
BACKBONE SYSTEM FOR TRACT 29597 AND 29741
29592, 29599, 29600, 29740
MS 4013
PALMYRITA AVE.
STA. 74+47.20 TO STA. 83+54.05
SHEET NO. 22 OF 26 SHTS.



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



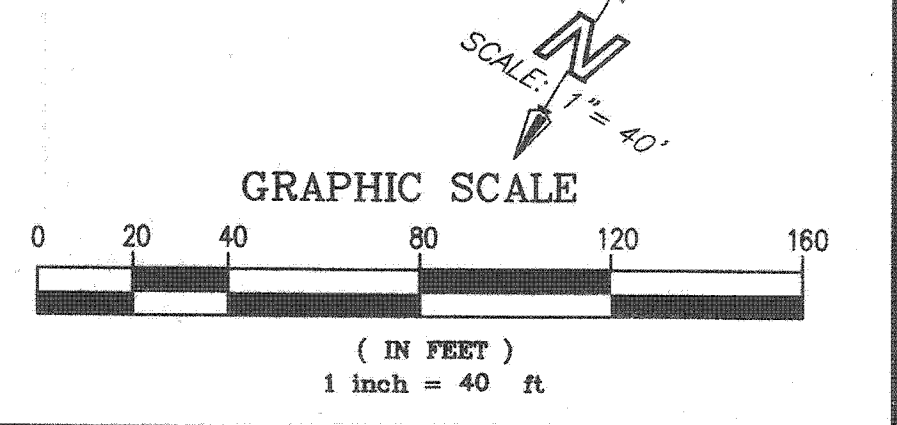
| No. | BEARING/DELTA | RADIUS | LENGTH | TANGENT |
|-----|------------------------------|---------|-------------|---------|
| 4 | $\Delta = 17^\circ 27' 17''$ | 806.00' | 239.245.54' | 123.73' |
| 5 | $\Delta = 1^\circ 40' 47''$ | 806.00' | 23.63' | 11.82' |

| NO. | BEARING/DELTA | RADIUS | LENGTH | TANGENT | REMARKS |
|-----|------------------------------|---------|---------|---------|---------|
| 11 | $\Delta = 10^\circ 39' 06''$ | 584.76' | 108.71' | 54.51' | 8" PVC |
| 22 | $\Delta = 53^\circ 26' 46''$ | 103.08' | 103.08' | - | " |
| 33 | $\Delta = 01^\circ 55' 31''$ | 803.72' | 27.01' | 13.50' | " |
| 44 | $\Delta = 39^\circ 06' 06''$ | 808.96' | 268.14' | 133.65' | " |
| 55 | $\Delta = 25^\circ 29' 35''$ | - | 39.00' | - | " |
| 66 | $\Delta = 36^\circ 33' 14''$ | - | 27.00' | - | " |
| 77 | $\Delta = 11^\circ 24' 01''$ | - | 39.00' | - | " |

NOTE:
ALL DATA TABLE PIPE LENGTHS ARE MEASURED TO CENTER OF MANHOLE.
ALL PIPE SLOPES ARE CALCULATE FROM INSIDE MANHOLE WALL TO INSIDE MANHOLE WALL

CONSTRUCTION NOTES:
 (33) INSTALL 8" PVC (SDR 35) SEWER MAIN. BEDDING PER CITY OF RIVERSIDE STD. DWG. NO. 452.
 (44) CONSTRUCT SANITARY SEWER MANHOLE PER CITY OF RIVERSIDE STD. DWG. NO. 500.
 (144) INSTALL 8" PLUG.

NOTE:
ALL WATER AND NON POTABLE WATER LINES SHOWN ON THIS SHEET IS PROPOSED PER RIVERSIDE HIGHLAND WATER COMPANY IMPROVEMENT PLANS
ALL STORM DRAIN SHOWN ON THIS SHEET IS PROPOSED PER COUNTY OF RIVERSIDE MISCELLANEOUS DRAWING (MS) 4013 IMPROVEMENT PLANS



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 REVISIONS TO THE PLANS FOR APPROVAL BY THE COUNTY.

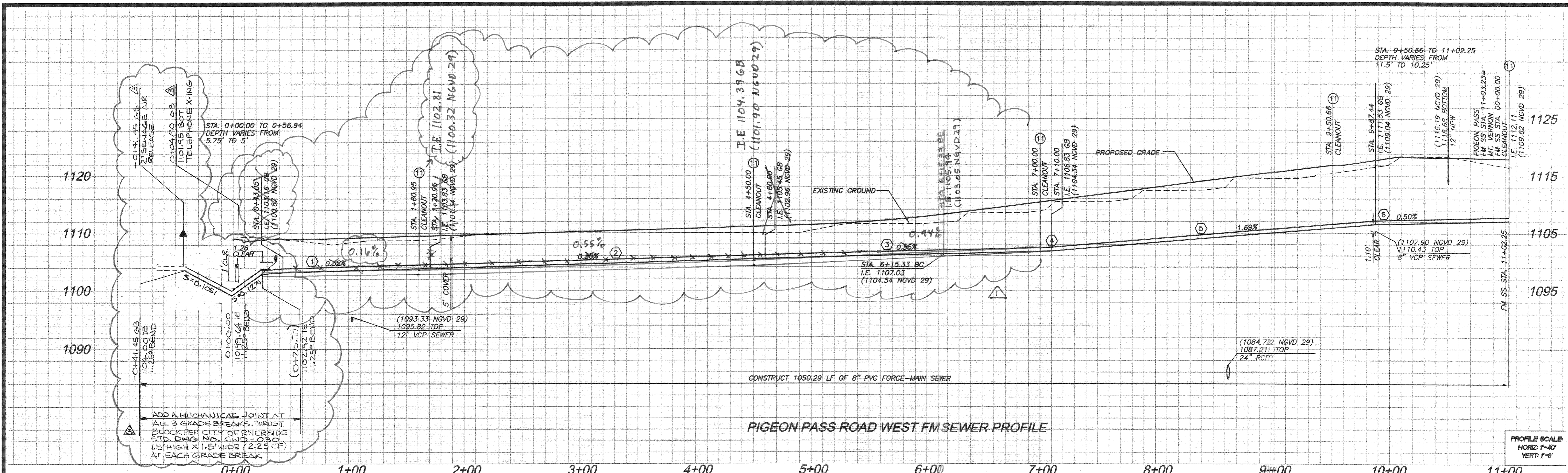
| DATE | BY | MARK | REVISIONS | APPR. | DATE |
|-------|----|------|--|-------|---------|
| 07/07 | DL | | REVISED SEWER AND ADDED MH #52 TO AVOID CONFLICTING WITH STORM DRAIN | | 7-10-07 |

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

SEAL
 REGISTERED PROFESSIONAL ENGINEER
 DANIEL A. LEE
 No. 38396
 Exp. 3/31/07
 CIVIL
 STATE OF CALIFORNIA

CITY OF RIVERSIDE
 RECOMMENDS APPROVAL
 [Signature]
 CITY ENGINEER
 DATE: 10/22/06

CITY OF RIVERSIDE DRAWING # S-1896
 WDID No. 833C327881 PW06-0020
 COUNTY OF RIVERSIDE
 C.F.D. SEWER IMPROVEMENT PLANS
 SPRING MOUNTAIN RANCH
 BACKBONE SYSTEM FOR TRACT 29597 AND 29741
 29592, 29599, 29600, 29740
 MS 4013
 PALMYRITA AVE.
 STA. 0+00 TO STA. 2+69.17 &
 STA. 0+00 TO STA. 2+38.80
 SHEET NO. 23
 OF 26 SHTS.



PIGEON PASS ROAD WEST FM SEWER PROFILE

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

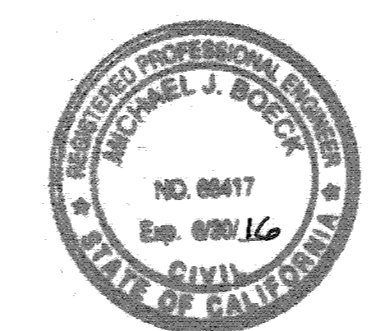
NOTE:
ALL WATER AND NON POTABLE WATER LINES SHOWN ON THIS SHEET IS PROPOSED PER RIVERSIDE HIGHLAND WATER COMPANY IMPROVEMENT PLANS
ALL STORM DRAIN SHOWN ON THIS SHEET IS PROPOSED PER COUNTY OF RIVERSIDE MISCELLANEOUS DRAWING (MS) 4013 IMPROVEMENT PLANS

| SANITARY SEWER DATA TABLE | | | | | |
|---------------------------|---------------|---------|---------|---------|---------|
| NO. | BEARING/DELTA | RADIUS | LENGTH | TANGENT | REMARKS |
| 1 | A=41°24'52" | 280.00' | 202.36' | 105.84' | 8" PVC |
| 2 | N81°21'12" W | - | 289.05' | - | " |
| 3 | Δ=5°58'28" | 812.00' | 84.67' | 42.37' | " |
| 4 | Δ=17°41'13" | 812.00' | 250.66' | 126.34' | " |
| 5 | Δ=87°25'07" | 100.00' | 152.57' | 95.59' | " |

NOTE:
ALL DATA TABLE PIPE LENGTHS ARE MEASURED TO CENTER OF MANHOLE.
ALL PIPE SLOPES ARE CALCULATE FROM INSIDE MANHOLE WALL TO INSIDE MANHOLE WALL

CONSTRUCTION NOTES:
⑩ INSTALL 8" PVC (SDR 35) SEWER FORCE-MAIN. BEDDING PER CITY OF RIVERSIDE STD. DWG. NO. 452.
⑪ FORCEMAIN CLEANOUT PER STD 559

NOTE:
STREET RIGHT-OF-WAY DEDICATION PER DOCUMENT NO. _____ DATED _____



ALL REVISIONS MARKED **Δ**
PREPARED UNDER THE SUPERVISION OF:
Michael Boeck 1/27/15
MICHAEL J. BOECK DATE:
RCE NO. 06417 EXP. 06-30-16
RBF CONSULTING 40810 COUNTY
CENTRE DR. TEMECULA CA 92591
951-676-8042 FAX 951-676-7240

NOTE:
SEWER EASEMENT DEDICATION PER DOCUMENT NO. _____ DATED _____

SEWER LIFT STATION TO BE CONSTRUCTED PER PLAN DW 05-0064

SEWERS TO BE CONSTRUCTED PER PLAN DW 05-0064

PROP. 30' SCE EASEMENT

NOTE: SEE SHEET 19 FOR GRAVITY SEWER

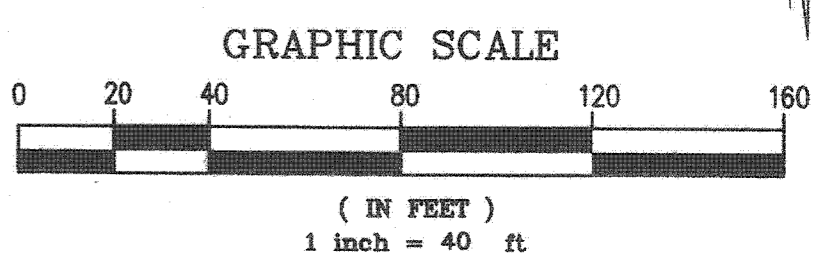
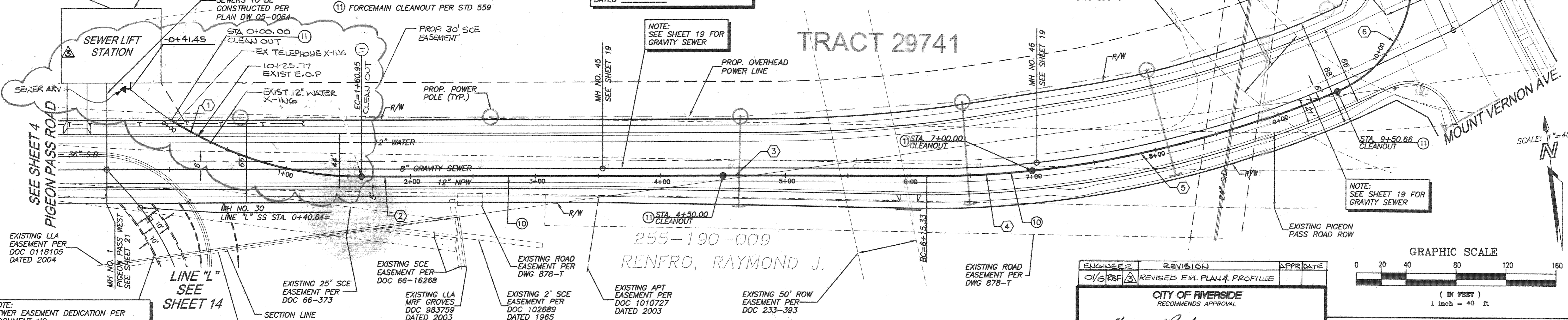
EXISTING ROAD EASEMENT PER DWG 878-T

EXISTING SERPENTINE ROAD ROW

EXISTING EASEMENT PER DOC 00134412-6 DATED 20084

SEE SHEET 25 MOUNT VERNON AVE.

EC/BC=11+03.23
MH NO. 47
SEE SHEET 19



| ENGINEER | REVISION | APPR DATE |
|-----------|-----------------------------|-----------|
| CIVIL RBF | REVISED F.M. PLAN & PROFILE | |

CITY OF RIVERSIDE RECOMMENDS APPROVAL

Tom Boyd 10/27/06 DATE

CITY ENGINEER

CITY OF RIVERSIDE DRAWING # S-1896
WDID No. 833C327881 PW06-0020

COUNTY OF RIVERSIDE
C.F.D. SEWER IMPROVEMENT PLANS
SPRING MOUNTAIN RANCH
BACKBONE SYSTEM FOR TRACT 29597 AND 29741
29592, 29599, 29600, 29740
MS 4013

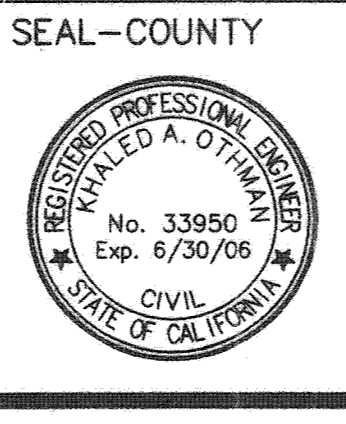
PIGEON PASS ROAD WEST
STA. 1+00 TO STA. 11+26.60

SHEET NO. 24
OF 26 SHTS.

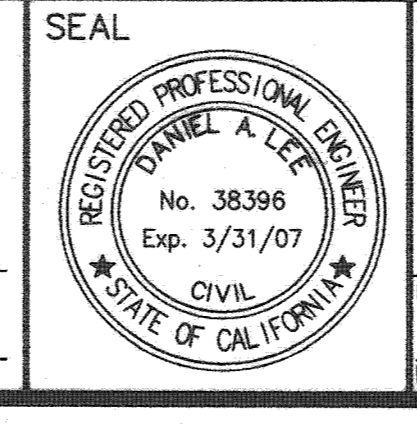
NOTE: WORK CONTAINED WITHIN THESE PLANS SHALL NOT COMMENCE UNTIL AN ENCROACHMENT PERMIT AND/OR GRADING PERMIT HAS BEEN ISSUED.

THE PRIVATE ENGINEER SIGNING THESE PLANS IS RESPONSIBLE FOR ASSURING THE ACCURACY AND ACCEPTIBILITY 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 |
|-------|-----|------|--------------------------------------|------------|--------|
| 6/07 | DL | Δ | REVISIONS FOR LOWERING FORCEMAIN RIZ | | |
| 12/14 | RBF | Δ | RAISING LINE B + LINE B FORK PROFILE | | |
| | | | REVISED FORCE MAIN PLAN & PROFILE | | |



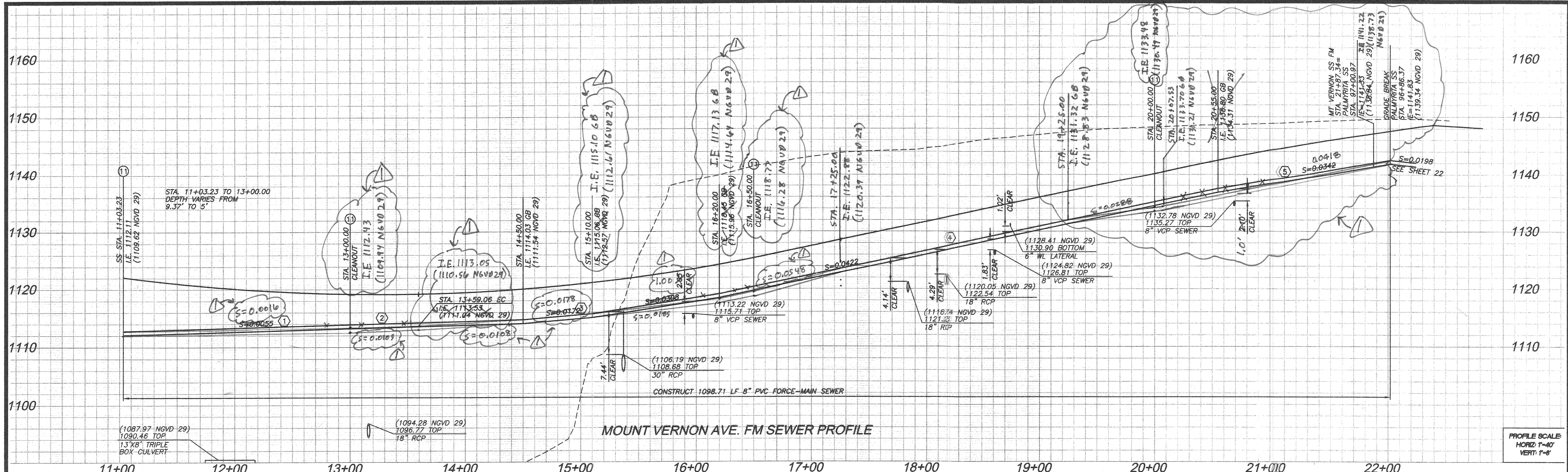
COUNTY OF RIVERSIDE
TRANSPORTATION DEPARTMENT
APPROVED BY:
KHALED A. OTHMAN DATE:
RECOMMENDED BY P&S & J DATE:



Stantec Consulting, Inc.
277 Rancheros Drive Suite 300
San Marcos, CA 92069
Tel. (760) 891-3200
Fax. (760) 891-3201
www.stantec.com
R.C.E. NO. 38396
DATE: 2-4-06

SEE SHEET 1 FOR BENCHMARK DATA

SCALE: HOR: 1"=40' VERT: 1"=8'



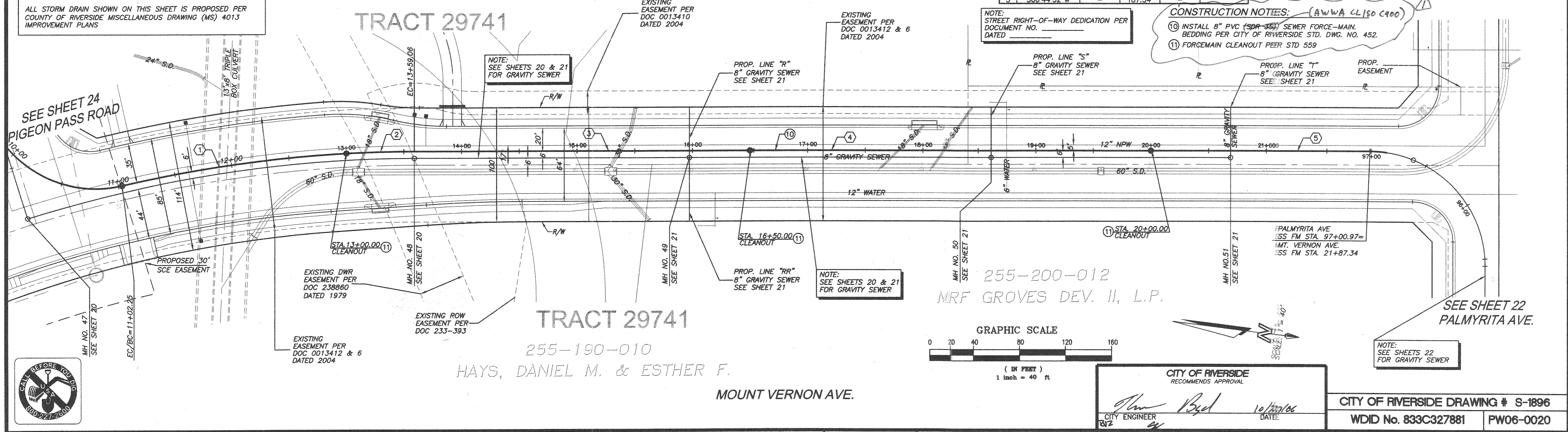
NOTE:
 ALL WATER AND NON POTABLE WATER LINES SHOWN ON THIS SHEET IS PROPOSED PER RIVERSIDE HIGHLAND WATER COMPANY IMPROVEMENT PLANS
 ALL STORM DRAIN SHOWN ON THIS SHEET IS PROPOSED PER COUNTY OF RIVERSIDE MISCELLANEOUS DRAWING (MS) 4013 IMPROVEMENT PLANS

SANITARY SEWER DATA TABLE

| NO. | BEARING/DELTA | RADIUS | LENGTH | TANGENT | REMARKS |
|-----|---------------|----------|---------|---------|-----------|
| 1 | A=10°08'18" | 1112.00' | 196.77' | 98.64' | 8" PVC FM |
| 2 | A=03°02'34" | 1112.00' | 59.06' | 29.53' | " " |
| 3 | S00°44'52" W | - | 290.94' | - | " " |
| 4 | S00°44'52" W | - | 350.00' | - | " " |
| 5 | S00°44'52" W | - | 187.34' | - | " " |

NOTE:
 ALL DATA TABLE PIPE LENGTHS ARE MEASURED TO CENTER OF MANHOLE.
 ALL PIPE SLOPES ARE CALCULATE FROM INSIDE MANHOLE WALL TO INSIDE MANHOLE WALL

CONSTRUCTION NOTES: (AWWA C150 C900)
 (10) INSTALL 8" PVC (SDR-35) SEWER FORCE-MAIN. BEDDING PER CITY OF RIVERSIDE STD. DWG. NO. 452.
 (11) FORCEMAIN CLEANOUT PEER STD 559



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 |
|------|----|------|---|-------|------|
| | | | REVISIONS FOR LOWERING FORCEMAIN, RAISING LINE B + LINE B PARK PROFILES | | |

SEAL-COUNTY
 REGISTERED PROFESSIONAL ENGINEER
 DANIEL A. OTHMAN
 No. 33950
 Exp. 6/30/06
 CIVIL
 STATE OF CALIFORNIA

COUNTY OF RIVERSIDE
 TRANSPORTATION DEPARTMENT
 APPROVED BY:
 KRHALED A. OTHMAN
 DATE: _____
 RECOMMENDED BY: P.B.S. & J.
 DATE: _____

SEAL
 REGISTERED PROFESSIONAL ENGINEER
 DANIEL A. LEE
 No. 38396
 Exp. 6/30/07
 CIVIL
 STATE OF CALIFORNIA

Stantec Consulting, Inc.
 277 Rancheros Olive Suite 300
 San Marcos, CA 92069
 Tel. (760) 891-3200
 Fax. (760) 891-3201
 www.stantec.com

PREPARED BY: *[Signature]*
 R.C.E. NO. 38396
 DATE: 2-4-06

CITY OF RIVERSIDE
 RECOMMENDS APPROVAL
[Signature]
 CITY ENGINEER
 DATE: 10/27/06

CITY OF RIVERSIDE DRAWING # S-1896
 WDDID No. 833C327881 PW06-0020

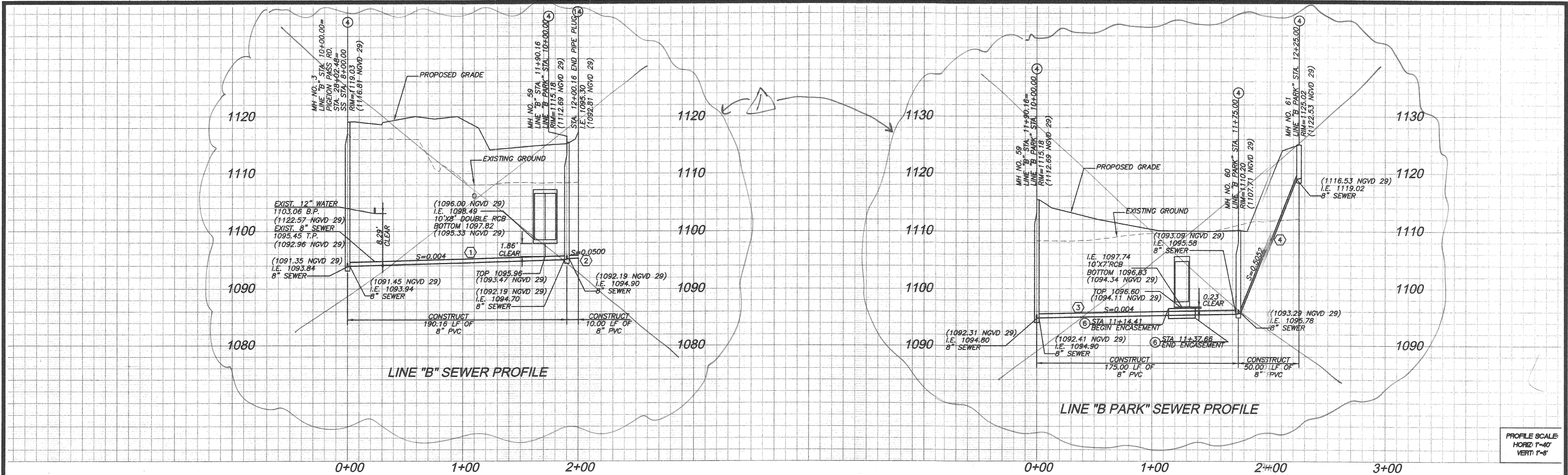
COUNTY OF RIVERSIDE
 C.F.D. SEWER IMPROVEMENT PLANS
 SPRING MOUNTAIN RANCH
 BACKBONE SYSTEM FOR TRACT 29697 AND 29741
 29592, 29598, 29600, 29740
 MS 4013

MOUNT VERNON AVE.
STA. 0+00 TO STA. 12+77.14

SHEET NO. 25
 OF 26 SHTS.

FOR: _____ W.O. _____ COUNTY FILE NO. _____

INDEXED 5-02-07 left



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

NOTE:
STREET RIGHT-OF-WAY DEDICATION PER
DOCUMENT NO. _____
DATED _____

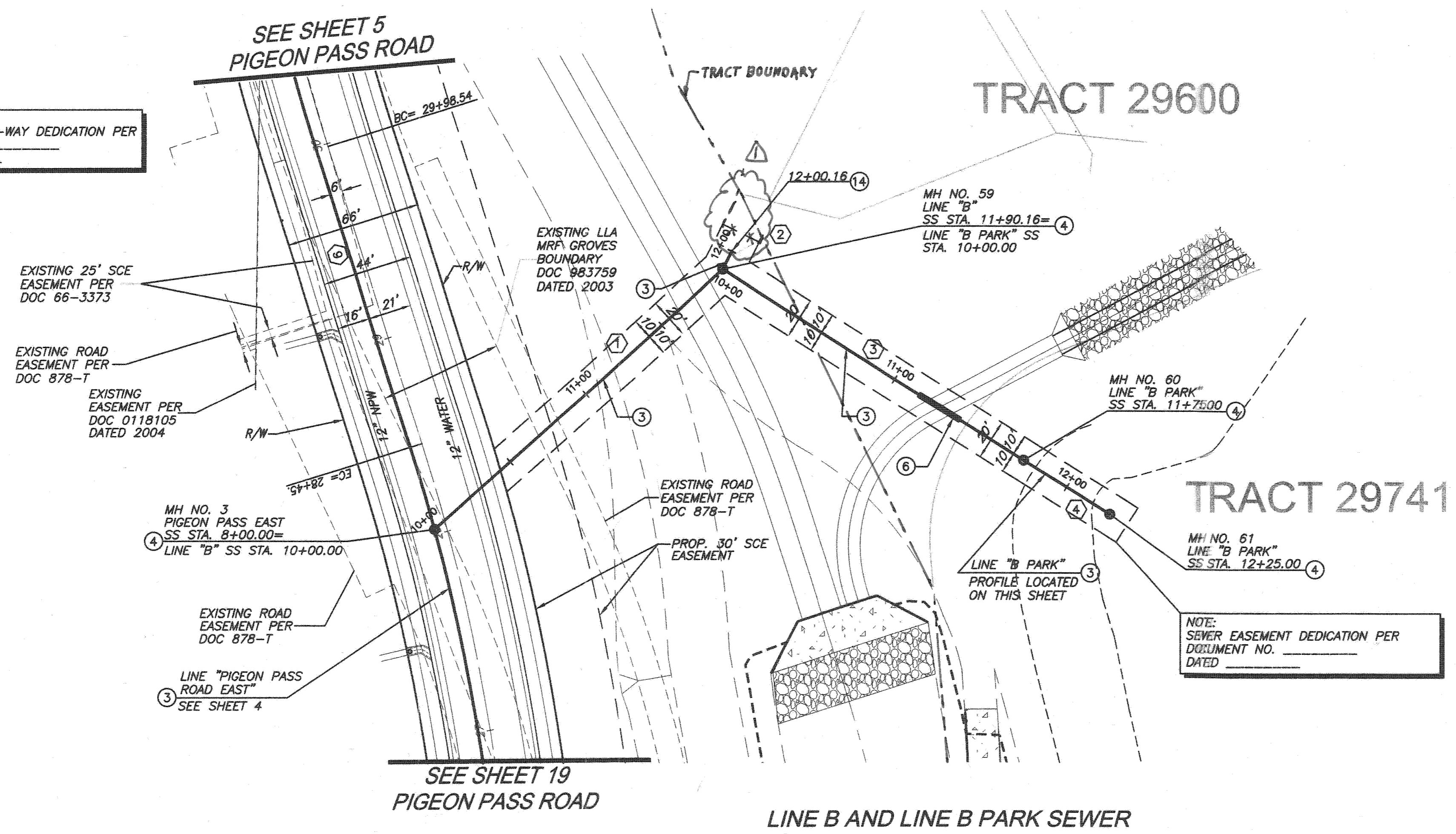
| SANITARY SEWER DATA TABLE | | | | | |
|---------------------------|---------------|--------|--------|---------|---------|
| NO. | BEARING/DELTA | RADIUS | LENGTH | TANGENT | REMARKS |
| 1 | S42°09'10"E | — | 190.16 | — | 8" PVC |
| 2 | S63°31'27"E | — | 10.00 | — | " " |
| 3 | S32°21'39"W | — | 175.00 | — | " " |
| 4 | S32°21'39"W | — | 50.00 | — | " " |

NOTE:
ALL DATA TABLE PIPE LENGTHS ARE MEASURED TO CENTER OF MANHOLE.
ALL PIPE SLOPES ARE CALCULATE FROM INSIDE MANHOLE WALL TO INSIDE MANHOLE WALL

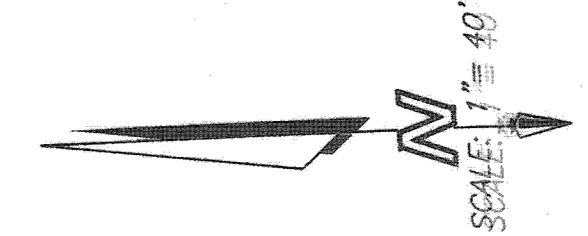
- CONSTRUCTION NOTES:**
- ③ INSTALL 8" PVC (SDR 35) SEWER MAIN. BEDDING PER CITY OF RIVERSIDE STD. DWG. NO. 452.
 - ④ CONSTRUCT SANITARY SEWER MANHOLE PER CITY OF RIVERSIDE STD. DWG. NO. 500.
 - ⑥ INSTALL SEWER PIPE ENCASEMENT PER CITY OF RIVERSIDE STD. DWG. NO. 564.
 - ⑬ INSTALL 8" PLUG.

NOTE:
ALL WATER AND NON POTABLE WATER LINES SHOWN ON THIS SHEET IS PROPOSED PER RIVERSIDE HIGHLAND WATER COMPANY IMPROVEMENT PLANS
ALL STORM DRAIN SHOWN ON THIS SHEET IS PROPOSED PER COUNTY OF RIVERSIDE MISCELLANEOUS DRAWING (MS) 401.3 IMPROVEMENT PLANS

TRACT 29597



NOTE:
SEWER EASEMENT DEDICATION PER
DOCUMENT NO. _____
DATED _____



CITY OF RIVERSIDE
RECOMMENDS APPROVAL
[Signature]
CITY ENGINEER
DATE: 10/27/06

CITY OF RIVERSIDE DRAWING # S-1896
WDID No. 833C327881 PW06-0020

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

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| DATE | BY | MARK | REVISIONS | APPR. | DATE |
|------|----|------|-----------|-------|------|
| | | | | | |

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

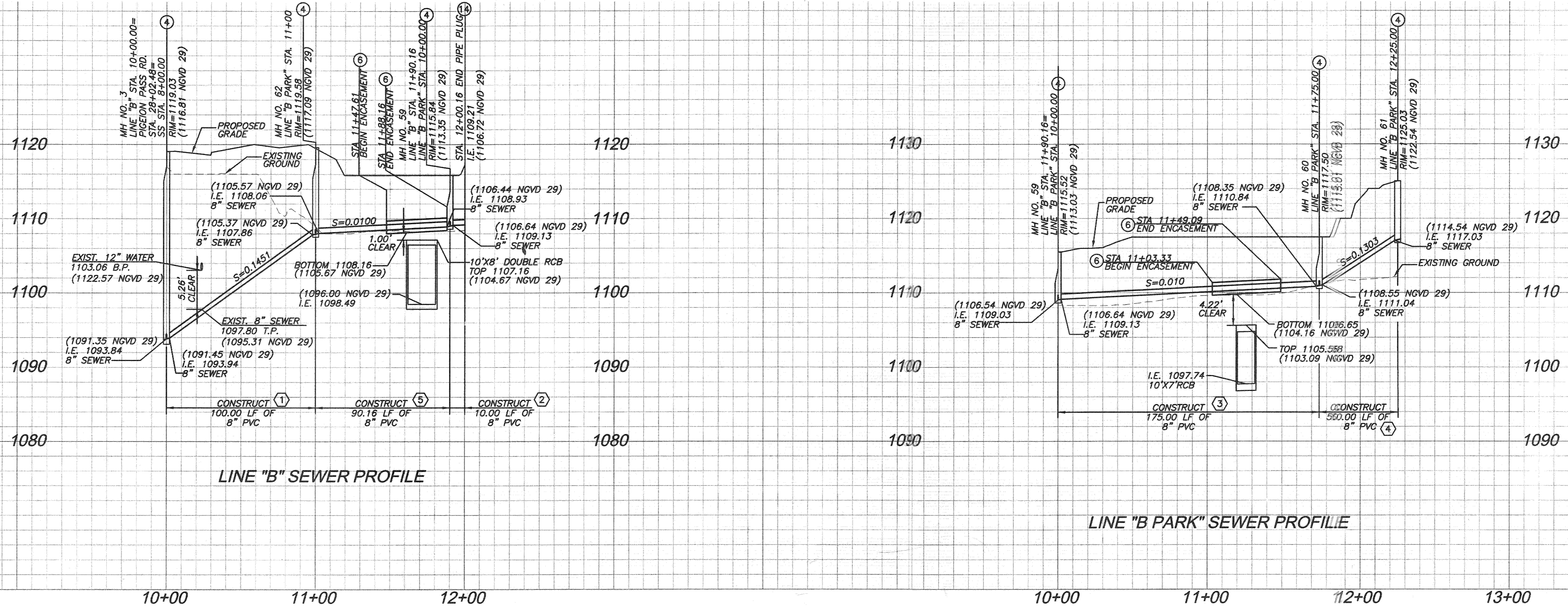
SEAL
REGISTERED PROFESSIONAL ENGINEER
DANIEL A. LEE
No. 38396
Exp. 3/31/07
CIVIL
STATE OF CALIFORNIA

Stantec Consulting, Inc.
277 Rancheros Drive Suite 300
San Marcos, CA 92069
Tel. (760) 891-3200
Fax. (760) 891-3201
www.stantec.com
R.C.E. No. 38396
DATE: 2-4-06

SEE SHEET 1 FOR BENCHMARK DATA
SCALE: HOR: 1"=40' VERT: 1"=8'

COUNTY OF RIVERSIDE
C.F.D. SEWER IMPROVEMENT PLANS
SPRING MOUNTAIN RANCH
BACKBONE SYSTEM FOR TRACT 29597 AND 29741
29592, 29598, 29600, 29740
MS 4013
LINE B & LINE B PARK
SHEET NO. 26
OF 26 SHTS.

INDEXED 5-02-07 LPH



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

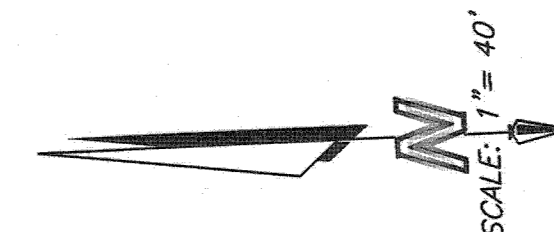
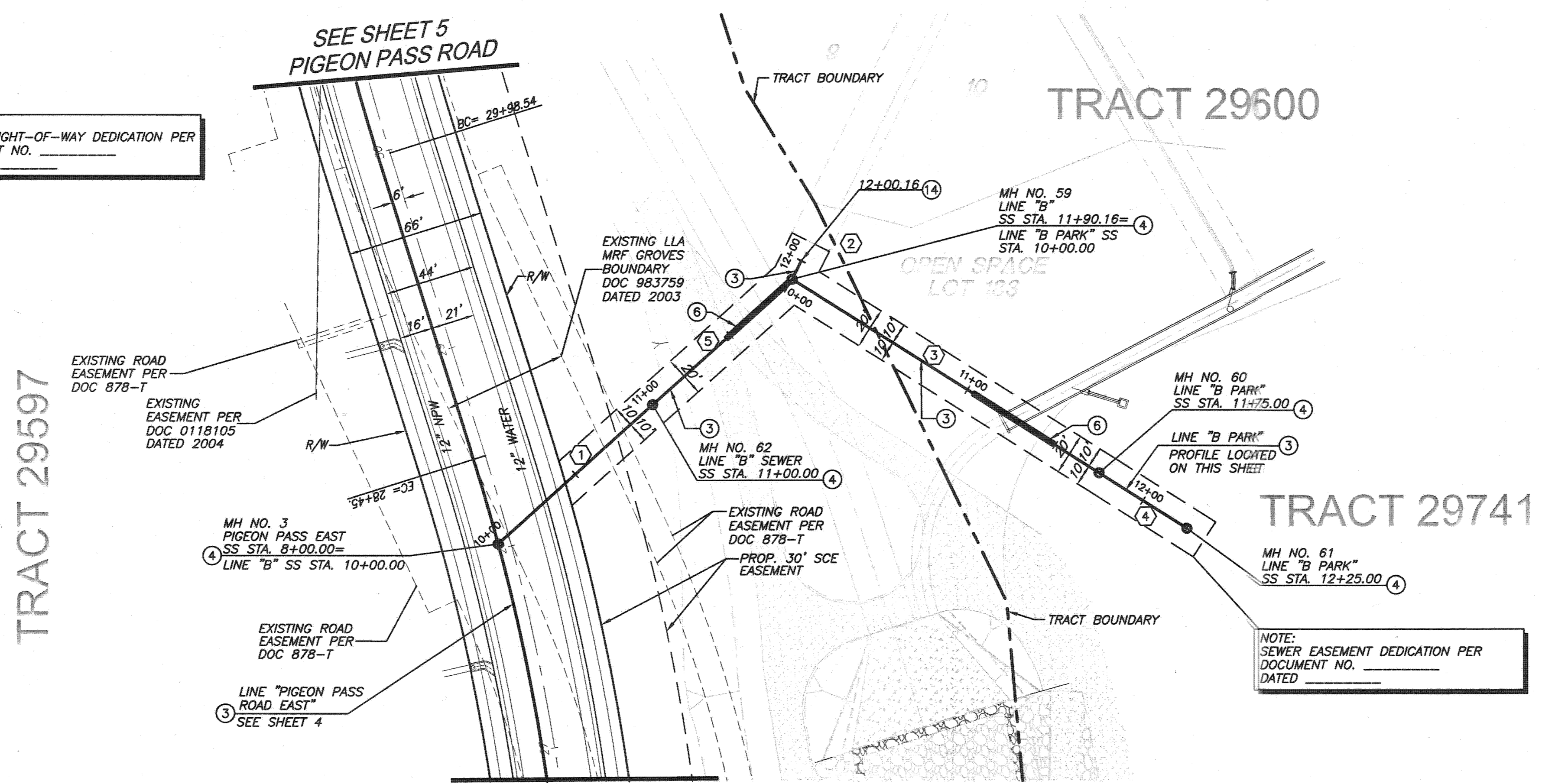
NOTE:
STREET RIGHT-OF-WAY DEDICATION PER
DOCUMENT NO. _____
DATED _____

| SANITARY SEWER DATA TABLE | | | | | |
|---------------------------|---------------|--------|---------|---------|---------|
| NO. | BEARING/Delta | RADIUS | LENGTH | TANGENT | REMARKS |
| 1 | S42°09'10"E | - | 100.00' | - | 8" PVC |
| 2 | S63°31'27"E | - | 10.00' | - | " " |
| 3 | S32°21'39"W | - | 175.00' | - | " " |
| 4 | S32°21'39"W | - | 50.00' | - | " " |
| 5 | S42°09'10"E | - | 90.16' | - | " " |

NOTE:
ALL DATA TABLE PIPE LENGTHS ARE MEASURED TO CENTER OF
MANHOLE.
ALL PIPE SLOPES ARE CALCULATE FROM INSIDE MANHOLE WALL
TO INSIDE MANHOLE WALL.

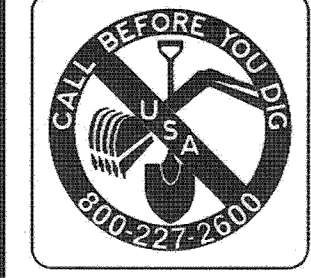
- CONSTRUCTION NOTES:**
- ③ INSTALL 8" PVC (SDR 35) SEWER MAIN. BEDDING PER CITY OF RIVERSIDE STD. DWG. NO. 452.
 - ④ CONSTRUCT SANITARY SEWER MANHOLE PER CITY OF RIVERSIDE STD. DWG. NO. 500.
 - ⑥ INSTALL SEWER PIPE ENCASUREMENT PER CITY OF RIVERSIDE STD. DWG. NO. 564.
 - ⑭ INSTALL 8" PLUG.

NOTE:
ALL WATER AND NON POTABLE WATER LINES SHOWN ON THIS SHEET IS PROPOSED PER RIVERSIDE HIGHLAND WATER COMPANY IMPROVEMENT PLANS
ALL STORM DRAIN SHOWN ON THIS SHEET IS PROPOSED PER COUNTY OF RIVERSIDE MISCELLANEOUS DRAWING (MS) 4013 IMPROVEMENT PLANS



CITY OF RIVERSIDE
RECOMMENDS APPROVAL
Alan Bred
CITY ENGINEER DATE

CITY OF RIVERSIDE DRAWING # S-1896
WDID No. 833C327881 PW06-0020



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

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| DATE | BY | MARK | REVISIONS | APPR. | DATE |
|------|----|------|-----------|-------|------|
| | | | | | |

SEAL-COUNTY
REGISTERED PROFESSIONAL ENGINEER
KHALED A. OTHMAN
No. 33950
Exp. 6/30/08
CIVIL
STATE OF CALIFORNIA

COUNTY OF RIVERSIDE
TRANSPORTATION DEPARTMENT
APPROVED BY:
KHALED A. OTHMAN DATE: _____
RECOMMENDED BY PBS & J DATE: _____

SEAL
REGISTERED PROFESSIONAL ENGINEER
BRUCE W. KIRBY
No. 042393
Exp. 3/31/08
CIVIL
STATE OF CALIFORNIA

Stantec
Stantec Consulting, Inc.
277 Rancheros Drive Suite 300
San Marcos, CA 92069
Tel. (760) 891-3200
Fax. (760) 891-3201
www.stantec.com
PREPARED BY: *Bruce Kirby*
R.C.E. NO. 042393
DATE: 8/1/07

SEE SHEET 1 FOR BENCHMARK DATA
SCALE: HOR: 1"=40' VERT: 1"=8'

COUNTY OF RIVERSIDE
C.F.D. SEWER IMPROVEMENT PLANS
SPRING MOUNTAIN RANCH
BACKBONE SYSTEM FOR TRACT 29597 AND 29741
29592, 29599, 29600, 29740
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LINE B & LINE B PARK
SHEET NO. S-1896
26A
OF 26 SHTS.