

RIVERSIDE CALIFORNIA



PUBLIC WORKS DEPARTMENT CURED-IN-PLACE PIPE LINER PROJECT

GENERAL NOTES:

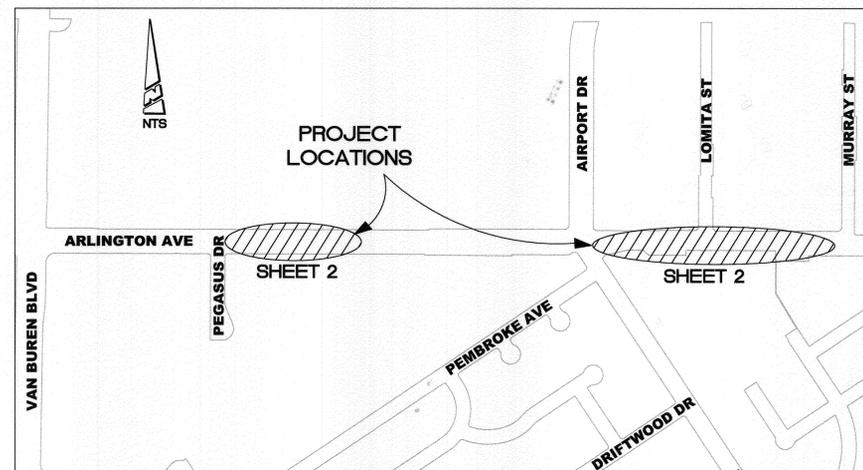
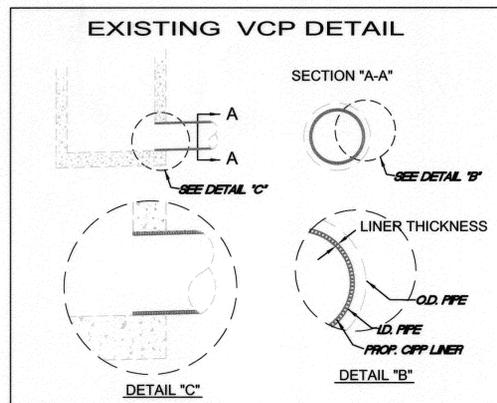
- EXISTING UTILITIES SHOWN ON THE PLAN, ARE PLOTTED FROM UTILITY RECORDS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO LOCATE AND PROTECT ALL UTILITIES WHETHER OR NOT SHOWN ON THIS PLAN.
- PRIME CONTRACTORS BIDDING THIS WORK SHALL HAVE A CLASS "A", "C-34", OR A "C-42" LICENSE.
- CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF RIVERSIDE DEPARTMENT OF PUBLIC WORKS STANDARD DRAWINGS AND THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION", 2012 EDITION.
- CONTRACTOR SHALL PERFORM A PRE AND POST CONSTRUCTION VIDEO OF THE EXISTING SEWER MAIN LINE.
- LINER MATERIAL SHALL BE CURED-IN-PLACE PIPE LINER PER 500-1.4. 6" LINER THICKNESS SHALL BE A MINIMUM OF 4.5MM, 8" LINER THICKNESS SHALL BE A MINIMUM OF 4.5MM, 12" LINER THICKNESS SHALL BE A MINIMUM OF 6MM, 15" LINER THICKNESS SHALL BE A MINIMUM OF 7.5MM AND 24" LINER THICKNESS SHALL BE A MINIMUM OF 13.5MM.

SPECIFIC CONSTRUCTION NOTES:

- NUMBERS ABOVE 100 IN A HEXAGON ON THE PLAN REFER TO THE RESPECTIVE STANDARD DRAWING AND SHALL BE CONSTRUCTED ACCORDINGLY. UNLESS MODIFICATIONS ARE NOTED ON THE PLAN, ANY NUMBER SHOWN BELOW THE STANDARD DRAWING NUMBER INDICATES THE SPECIFIC ALTERNATE TO BE CONSTRUCTED.
- CUT CONTRACTOR SHALL CUT OUT PROTRUDING SEWER LATERAL INTERNALLY WITH A ROBOTIC CUTTER.
- CAP CONTRACTOR SHALL CAP EXISTING SEWER LATERAL.
- ADJ ADJUST STORM DRAIN/SEWER MANHOLE TO GRADE.

EXISTING UNDERGROUND UTILITIES:

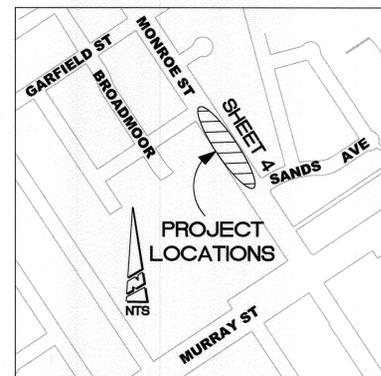
- EXISTING SEWER ——— EX SWR
- EXISTING WATER ——— EX WTR
- EXISTING STORM DRAIN ——— EX SD
- EXISTING TELEPHONE ——— E



SEWER SHEET INDEX:

| SHEET NO. | DESCRIPTION |
|-----------|---|
| 1 | TITLE SHEET |
| 2 | ARLINGTON AVE BETWEEN VAN BUREN BLVD AND WEAVER ST. |
| 3 | LIME ST BETWEEN 3RD ST AND 4TH ST, RIVERSIDE AVE BETWEEN 91 FREEWAY AND CARLSBAD WY, ALLEY BETWEEN 3RD, LEMON, 4TH AND ORANGE ST. |

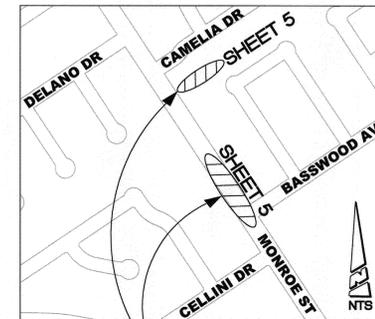
VICINITY MAP



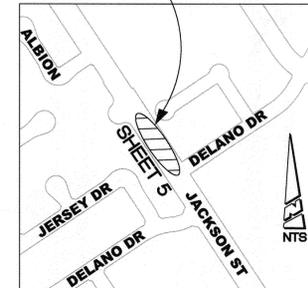
NTS

CONSTRUCTION LEGEND:

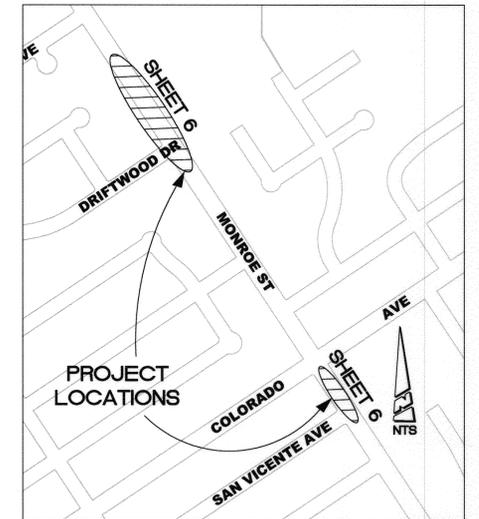
- R/W ——— STREET R/W
- PL ——— PROPERTY LINE
- C — CURB
- ⊙ SEWER MANHOLE
- ⊠ SEWER CLEANOUT



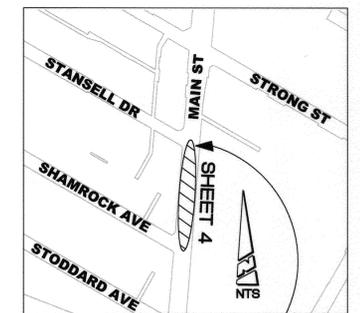
PROJECT LOCATIONS



PROJECT LOCATIONS



PROJECT LOCATIONS



PROJECT LOCATIONS

| SHEET NO. | DESCRIPTION |
|-----------|---|
| 4 | MONROE ST BETWEEN MAGNOLIA AVE AND HAYDEN CT, LINCOLN AVE BETWEEN ANNA ST AND VICTORIA AVE, MAIN STREET BETWEEN SHAMROCK AVE AND STANSELL DR. |
| 5 | LARKIN CT, MONROE ST BETWEEN BASSWOOD AVE AND CAMELIA DR, JACKSON ST BETWEEN DELANO DR AND ALBION DR. |
| 6 | MONROE ST BETWEEN PEMBROKE AVE AND SAN VICENTE AVE. |

AS-BUILT
01-29-2014

IMPORTANT NOTICE
Section 4216/4217 of the Government Code requires a Dig Alert Identification Number to be issued before a "Permit to Excavate" will be valid. For your Dig Alert I.D. Number call CALL TOLL FREE 48 HOURS BEFORE YOU DIG UNDERGROUND SERVICE ALERT 1-800-227-2600

BENCHMARK : G4-Z3
P.K NAIL AND CITY ENGINEER TAG IN THE BASE OF STREET LIGHT ALONG THE SOUTHERLY CURB OF ARLINGTON AVE, 325 FT EASTERLY OF MURRAY ST, AND 50 FT EASTERLY OF A DRIVEWAY E.C.R. ELEV - 769.102 (NGVD 29)



ENGINEER IN RESPONSIBLE CHARGE
THUY NGUYEN
R.C.E. No. 64751 EXP 06-30-2013

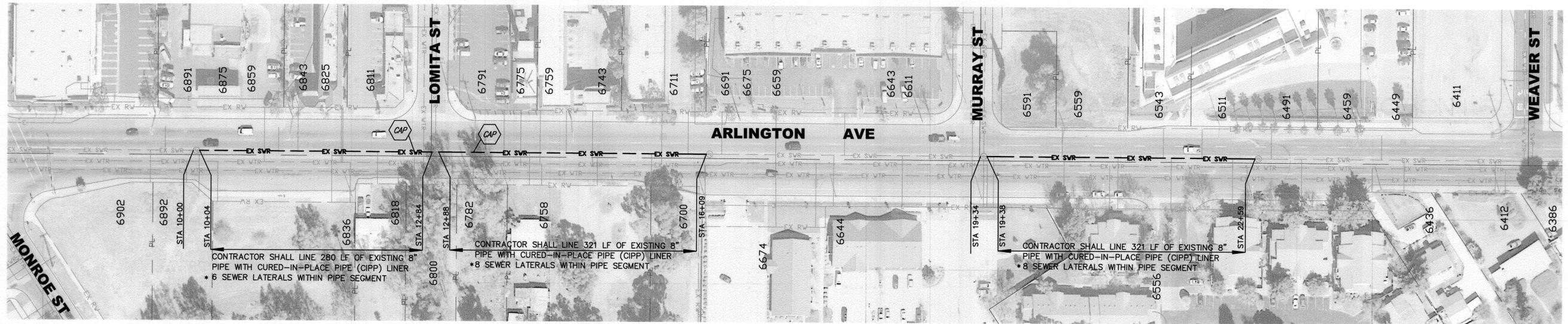


| MARK | REVISIONS | APPR. | DATE |
|------|-----------|-------|------|
| | | | |

| CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS | | | |
|---|------|---------|----------------|
| APPROVED BY | BY | DATE | APPROVED BY |
| ENGINEERING MANAGER | PM | 3/12/13 | [Signature] |
| TRAFFIC ENGINEERING | D.H. | 3-13-13 | CITY ENGINEER |
| CONSTRUCTION ADMIN. | D.C. | 3/8/13 | DATE 3/13/2013 |
| SURVEY | CS | 3/11/13 | |

| CURED IN PLACE PIPE LINER PROJECT | |
|--|------------------|
| CURED IN PLACE PIPE LINER PROJECT AT VARIOUS LOCATIONS | |
| TITLE SHEET | |
| HORIZ. SCALE: N/A | VERT. SCALE: N/A |

| |
|---|
| ACCT. NO. 986392303 DESIGN WORK ORDER NO.: 1226340 |
| S-2110 |
| SHEET 1 OF 6 |
| FILE NAME: S-2110-01 |



SPECIFIC CONSTRUCTION NOTES:

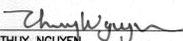
-  NUMBERS ABOVE 100 IN A HEXAGON ON THE PLAN REFER TO THE RESPECTIVE STANDARD DRAWING AND SHALL BE CONSTRUCTED ACCORDINGLY. UNLESS MODIFICATIONS ARE NOTED ON THE PLAN. ANY NUMBER SHOWN BELOW THE STANDARD DRAWING NUMBER INDICATES THE SPECIFIC ALTERNATE TO BE CONSTRUCTED.
-  CONTRACTOR SHALL CUT OUT PROTRUDING SEWER LATERAL INTERNALLY WITH A ROBOTIC CUTTER.
-  CONTRACTOR SHALL CAP EXISTING SEWER LATERAL.
-  ADJUST STORM DRAIN/SEWER MANHOLE TO GRADE.

* SEWER LATERAL INFORMATION SHOWN HERE IS FOR REFERENCE ONLY. CONTRACTOR SHALL PERFORM VIDEO INSPECTIONS OF THE SEWER MAIN PRIOR TO LINING TO VERIFY THE PRESENCE OF ALL SEWER LATERALS. ALL ACTIVE LATERALS NEED TO BE OPENED AFTER THE COMPLETION OF THE LINING PROCESS UNLESS NOTED OTHERWISE.



IMPORTANT NOTICE
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BENCHMARK : G4-Z3
 P.K. NAIL AND CITY ENGINEER TAG IN THE BASE OF STREET LIGHT ALONG THE SOUTHERLY CURB OF ARLINGTON AVE, 325 FT EASTERLY OF MURRAY ST, AND 50 FT EASTERLY OF A DRIVEWAY E.C.R. ELEV - 769.102 (NGVD 29)

ENGINEER IN RESPONSIBLE CHARGE

 THUY NGUYEN
 R.C.E. No. 64751 EXP 06-30-2013
 DATE _____

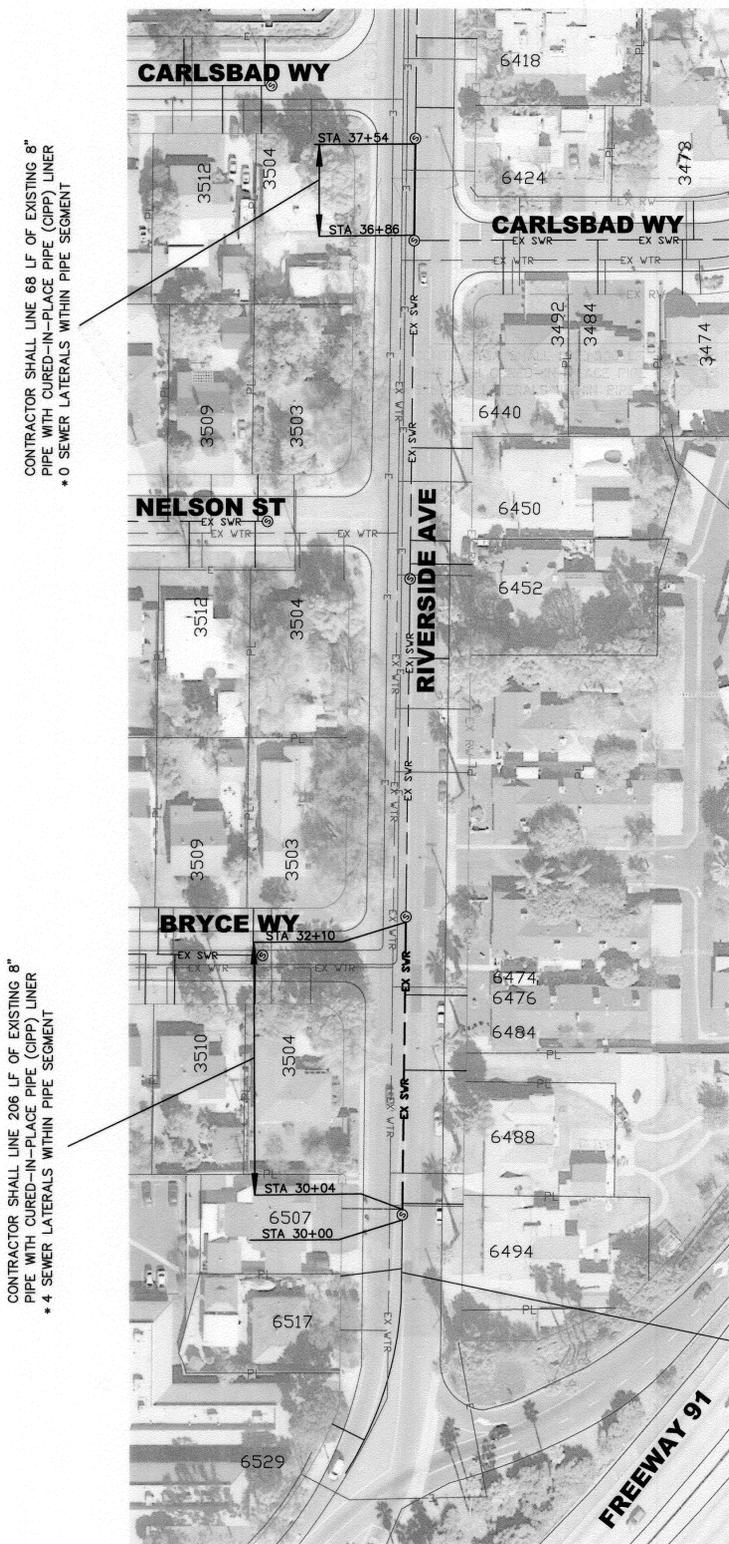


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CITY OF RIVERSIDE, CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS

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|---------------------|------|---------|---|
| APPROVED BY | BY | DATE | APPROVED BY |
| ENGINEERING MANAGER | FM | 3/12/13 |  |
| TRAFFIC ENGINEERING | J.H. | 3-13-13 | CITY ENGINEER |
| CONSTRUCTION ADMIN. | D.G. | 3/16/13 | DATE 3/13/2013 |
| SURVEY | B | 3/20/13 | |

| | |
|--|--|
| CURED IN PLACE PIPE LINER PROJECT | ACCT. NO. 9863923203 DESIGN WORK ORDER NO.: 1226340 |
| ARLINGTON AVE BETWEEN VAN BUREN BLVD TO WEAVER ST. | S-2110 |
| TITLE SHEET | SHEET 2 OF 6 |
| HORIZ. SCALE: 1"=60' | VERT. SCALE: N/A |
| FILE NAME: S-2110-02 | |



CONTRACTOR SHALL LINE 68 LF OF EXISTING 8" PIPE WITH CURED-IN-PLACE PIPE (CIPP) LINER * 0 SEWER LATERALS WITHIN PIPE SEGMENT

CONTRACTOR SHALL LINE 206 LF OF EXISTING 8" PIPE WITH CURED-IN-PLACE PIPE (CIPP) LINER * 4 SEWER LATERALS WITHIN PIPE SEGMENT



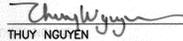
SPECIFIC CONSTRUCTION NOTES:

-  NUMBERS ABOVE 100 IN A HEXAGON ON THE PLAN REFER TO THE RESPECTIVE STANDARD DRAWING AND SHALL BE CONSTRUCTED ACCORDINGLY. UNLESS MODIFICATIONS ARE NOTED ON THE PLAN, ANY NUMBER SHOWN BELOW THE STANDARD DRAWING NUMBER INDICATES THE SPECIFIC ALTERNATE TO BE CONSTRUCTED.
-  CONTRACTOR SHALL CUT OUT PROTRUDING SEWER LATERAL INTERNALLY WITH A ROBOTIC CUTTER.
-  CONTRACTOR SHALL CAP EXISTING SEWER LATERAL.
-  ADJUST STORM DRAIN/SEWER MANHOLE TO GRADE.

* SEWER LATERAL INFORMATION SHOWN HERE IS FOR REFERENCE ONLY. CONTRACTOR SHALL PERFORM VIDEO INSPECTIONS OF THE SEWER MAIN PRIOR TO LINING TO VERIFY THE PRESENCE OF ALL SEWER LATERALS. ALL ACTIVE LATERALS NEED TO BE OPENED AFTER THE COMPLETION OF THE LINING PROCESS UNLESS NOTED OTHERWISE.

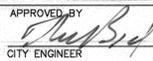
IMPORTANT NOTICE
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BENCHMARK : G4-23
 P.K NAIL AND CITY ENGINEER TAG IN THE BASE OF STREET LIGHT ALONG THE SOUTHERLY CURB OF ARLINGTON AVE, 325 FT EASTERLY OF MURRAY ST, AND 50 FT EASTERLY OF A DRIVEWAY E.C.R. ELEV - 769.102 (NGVD 29)

ENGINEER IN RESPONSIBLE CHARGE

 THUY NGUYEN
 R.G.E. No. 64751 EXP 06-30-2013
 DATE

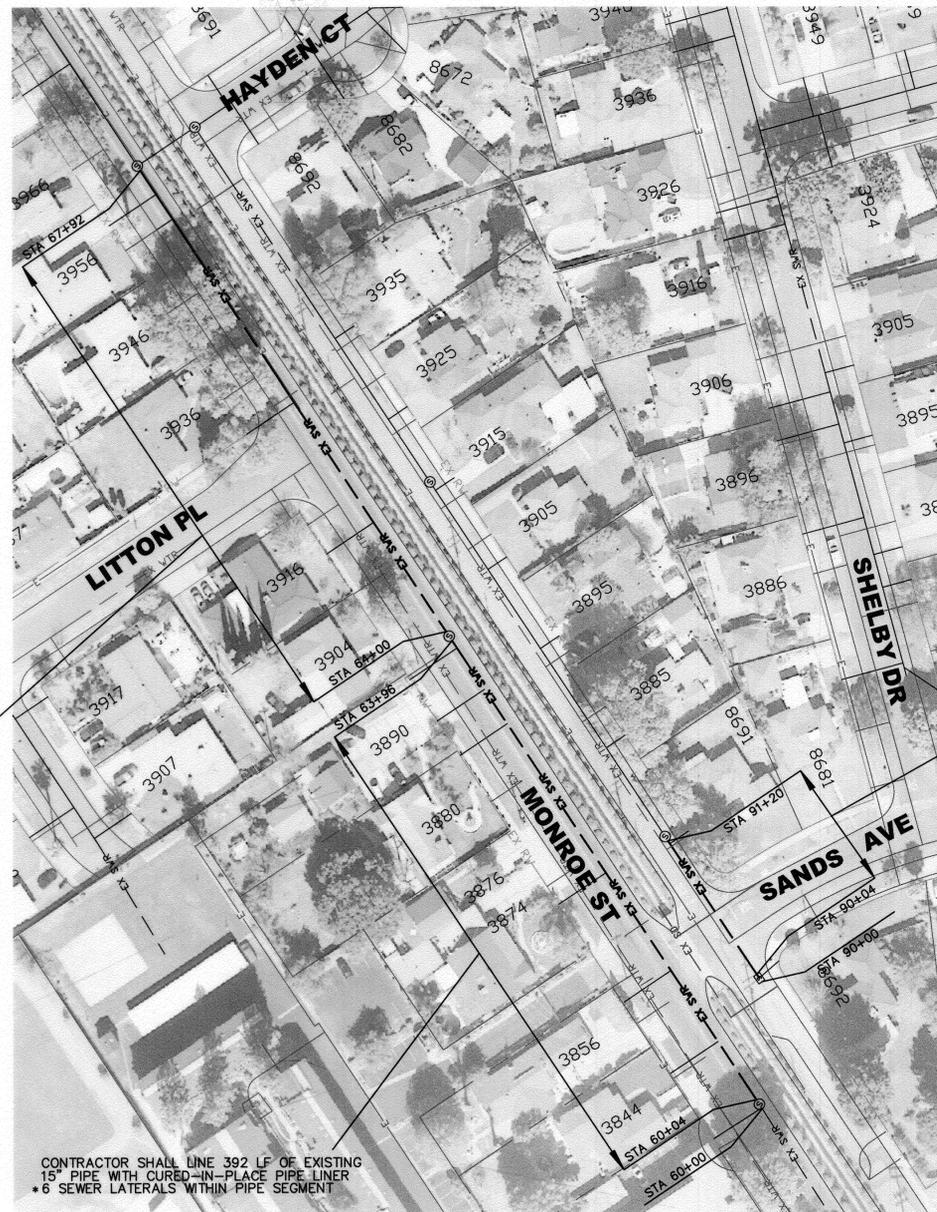
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CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS

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|---------------------|----|---------|---|
| APPROVED BY | BY | DATE | APPROVED BY |
| ENGINEERING MANAGER | EM | 3/12/13 |  |
| TRAFFIC ENGINEERING | TE | 3-12-13 | CITY ENGINEER |
| CONSTRUCTION ADMIN | CA | 3/12/13 | DATE 3/13/2013 |
| SURVEY | S | 3/12/13 | |

CURED IN PLACE PIPE LINER PROJECT
 LIME ST BETWEEN 3RD ST AND 4TH ST.
 RIVERSIDE AVE BETWEEN 91 FWY AND CARLSBAD WY
 ALLEY BETWEEN 3RD ST, 4TH ST, LEMON AND ORANGE
PLAN VIEW
 HORIZ. SCALE: 1"=60' VERT. SCALE: N/A

ACCT. NO. 9863923203
 DESIGN WORK ORDER NO. 1226340
S-2110
 SHEET **3** OF **6**
 FILE NAME: S-2110-03



CONTRACTOR SHALL LINE 392 LF OF EXISTING 15" PIPE WITH CURED-IN-PLACE PIPE LINER
* 6 SEWER LATERALS WITHIN PIPE SEGMENT

CONTRACTOR SHALL LINE 392 LF OF EXISTING 15" PIPE WITH CURED-IN-PLACE PIPE LINER
* 6 SEWER LATERALS WITHIN PIPE SEGMENT

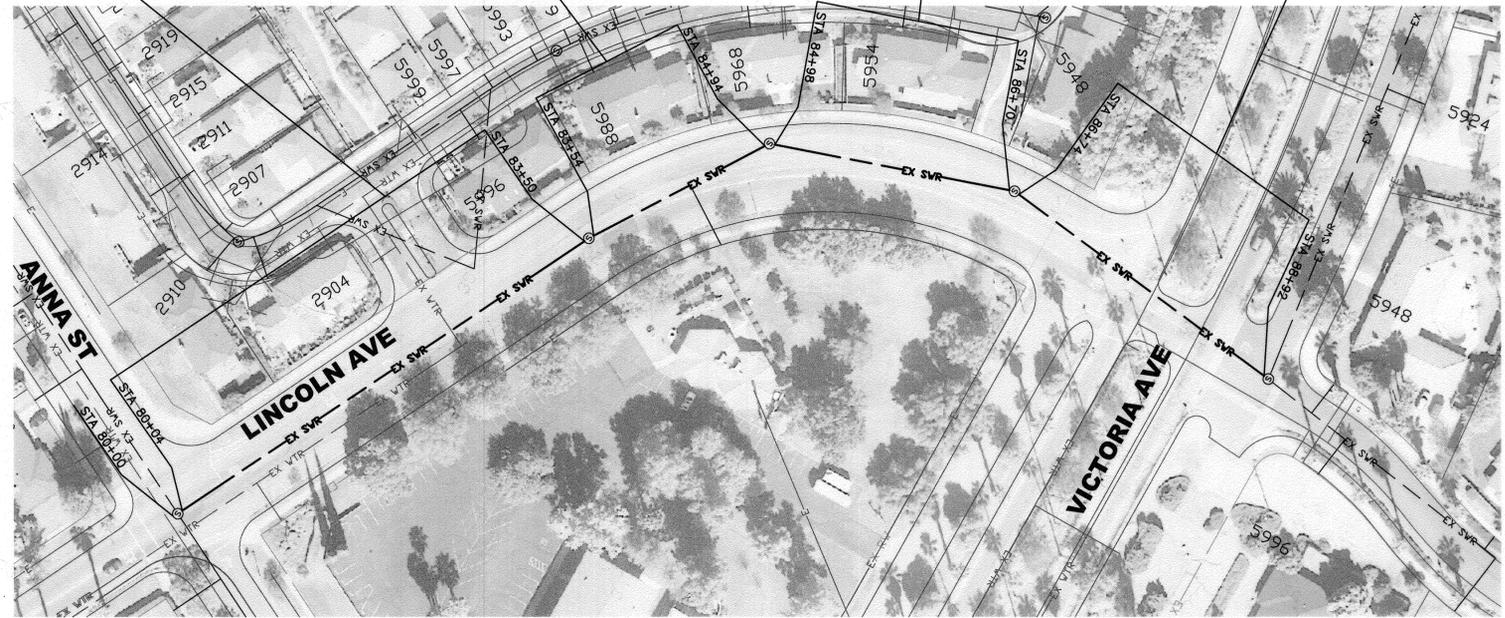
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CONTRACTOR SHALL LINE 346 LF OF EXISTING 8" PIPE WITH CURED-IN-PLACE PIPE (CIPP) LINER
* 0 SEWER LATERALS WITHIN PIPE SEGMENT

CONTRACTOR SHALL LINE 140 LF OF EXISTING 8" PIPE WITH CURED-IN-PLACE PIPE (CIPP) LINER
* 1 SEWER LATERALS WITHIN PIPE SEGMENT

CONTRACTOR SHALL LINE 172 LF OF EXISTING 8" PIPE WITH CURED-IN-PLACE PIPE (CIPP) LINER
* 0 SEWER LATERALS WITHIN PIPE SEGMENT

CONTRACTOR SHALL LINE 218 LF OF EXISTING 8" PIPE WITH CURED-IN-PLACE PIPE (CIPP) LINER
* 0 SEWER LATERALS WITHIN PIPE SEGMENT



CONTRACTOR SHALL LINE 116 LF OF EXISTING 8" PIPE WITH CURED-IN-PLACE PIPE LINER
* 3 SEWER LATERALS WITHIN PIPE SEGMENT

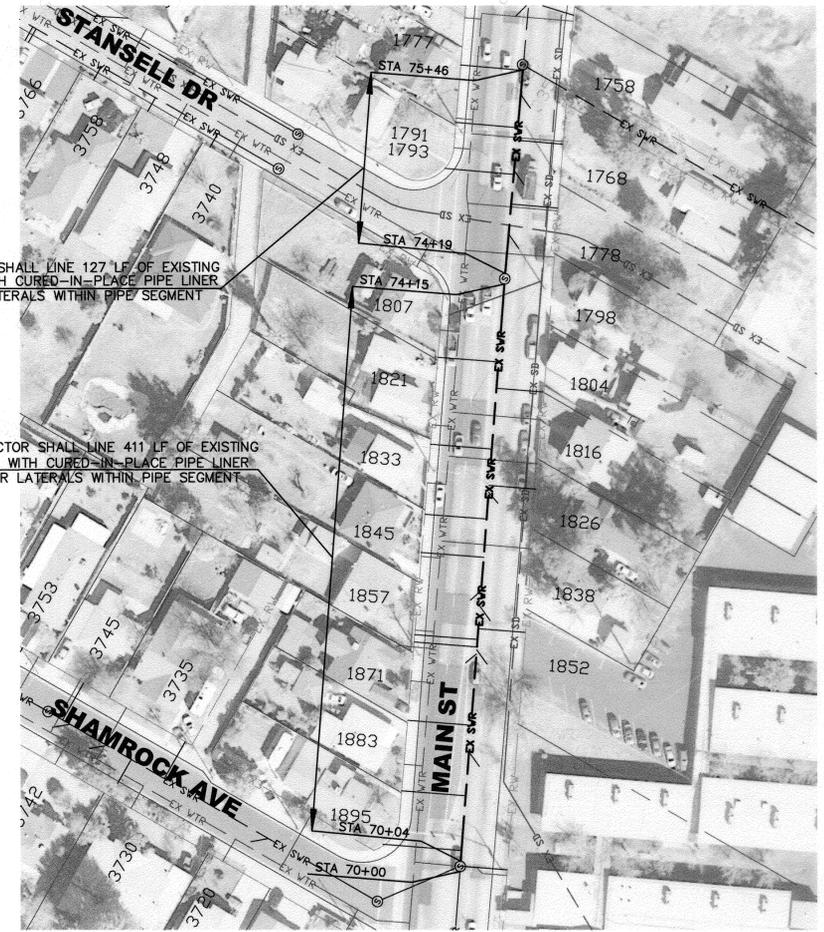
CONTRACTOR SHALL LINE 127 LF OF EXISTING 12" PIPE WITH CURED-IN-PLACE PIPE LINER
* 4 SEWER LATERALS WITHIN PIPE SEGMENT

CONTRACTOR SHALL LINE 411 LF OF EXISTING 12" PIPE WITH CURED-IN-PLACE PIPE LINER
* 12 SEWER LATERALS WITHIN PIPE SEGMENT



SPECIFIC CONSTRUCTION NOTES:

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- CUT CONTRACTOR SHALL CUT OUT PROTRUDING SEWER LATERAL INTERNALLY WITH A ROBOTIC CUTTER.
- CAP CONTRACTOR SHALL CAP EXISTING SEWER LATERAL.
- ADJ ADJUST STORM DRAIN/SEWER MANHOLE TO GRADE.



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BENCHMARK : G4-Z3
P.K. NAIL AND CITY ENGINEER TAG IN THE BASE OF STREET LIGHT ALONG THE SOUTHERLY CURB OF ARLINGTON AVE, 325 FT EASTERLY OF MURRAY ST, AND 50 FT EASTERLY OF A DRIVEWAY E.C.R. ELEV - 769.102 (NGVD 29)

ENGINEER IN RESPONSIBLE CHARGE
THUY NGUYEN
R.C.E. No. 64751 EXP 06-30-2013
DATE

| MARK | REVISIONS | APPR. | DATE |
|------|-----------|-------|------|
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CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

| | | | |
|---------------------|------|---------|-------------|
| APPROVED BY | BY | DATE | APPROVED BY |
| ENGINEERING MANAGER | FM | 3/12/13 | |
| TRAFFIC ENGINEERING | | 3-13-13 | |
| CONSTRUCTION ADMIN. | D.C. | 3/18/13 | |
| SURVEY | | 2/11/13 | |

DATE: 3/13/2013

CURED IN PLACE PIPE LINER PROJECT
MONROE ST BETWEEN MAGNOLIA AVE AND HAYDEN CT,
LINCOLN AVE BETWEEN ANNA ST AND VICTORIA AVE,
MAIN ST BETWEEN SHAMROCK AVE AND STANSELL DR.

PLAN VIEW

HORIZ. SCALE: 1"=60' VERT. SCALE: N/A

ACT. NO. 9863923203
DESIGN WORK ORDER NO.: 1226340

S-2110

SHEET **4** OF **6**

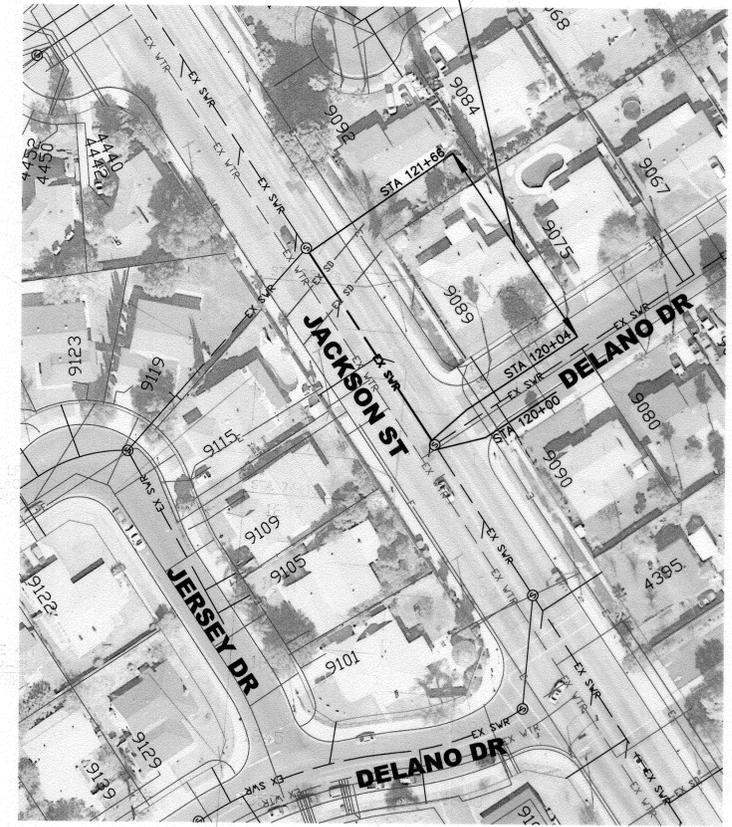
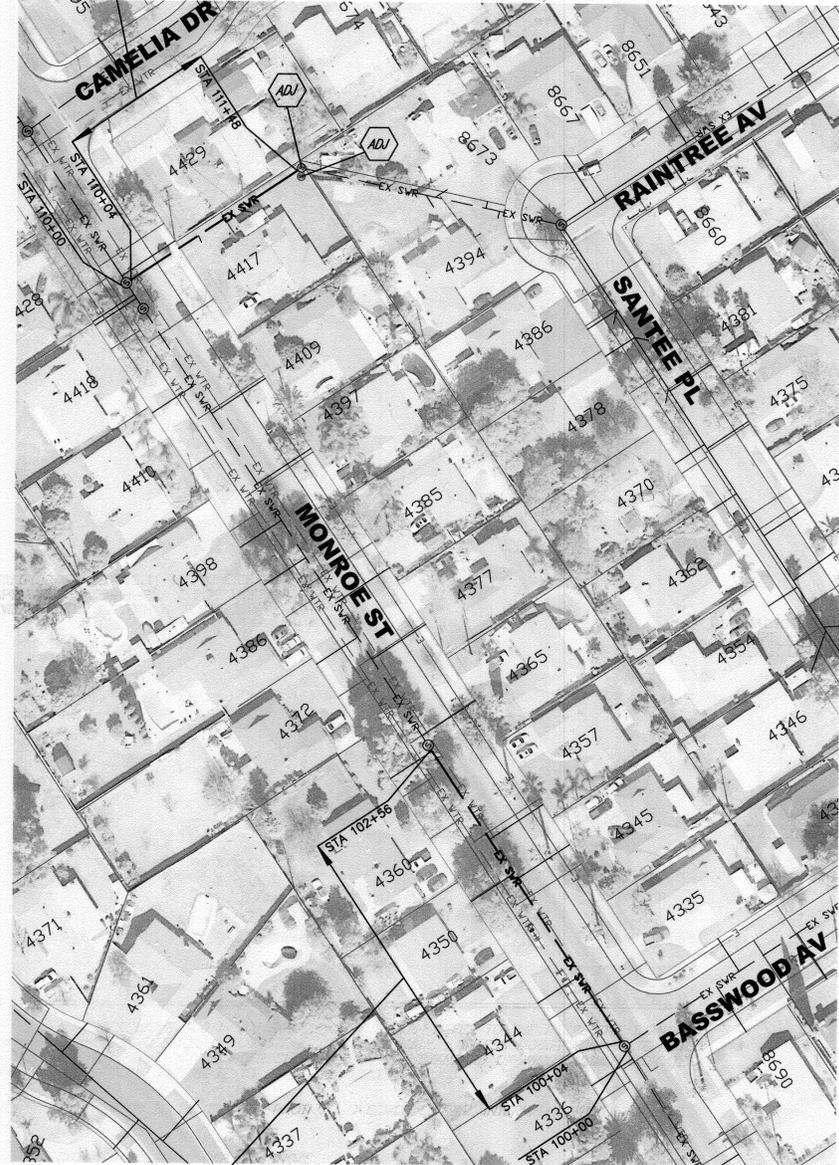
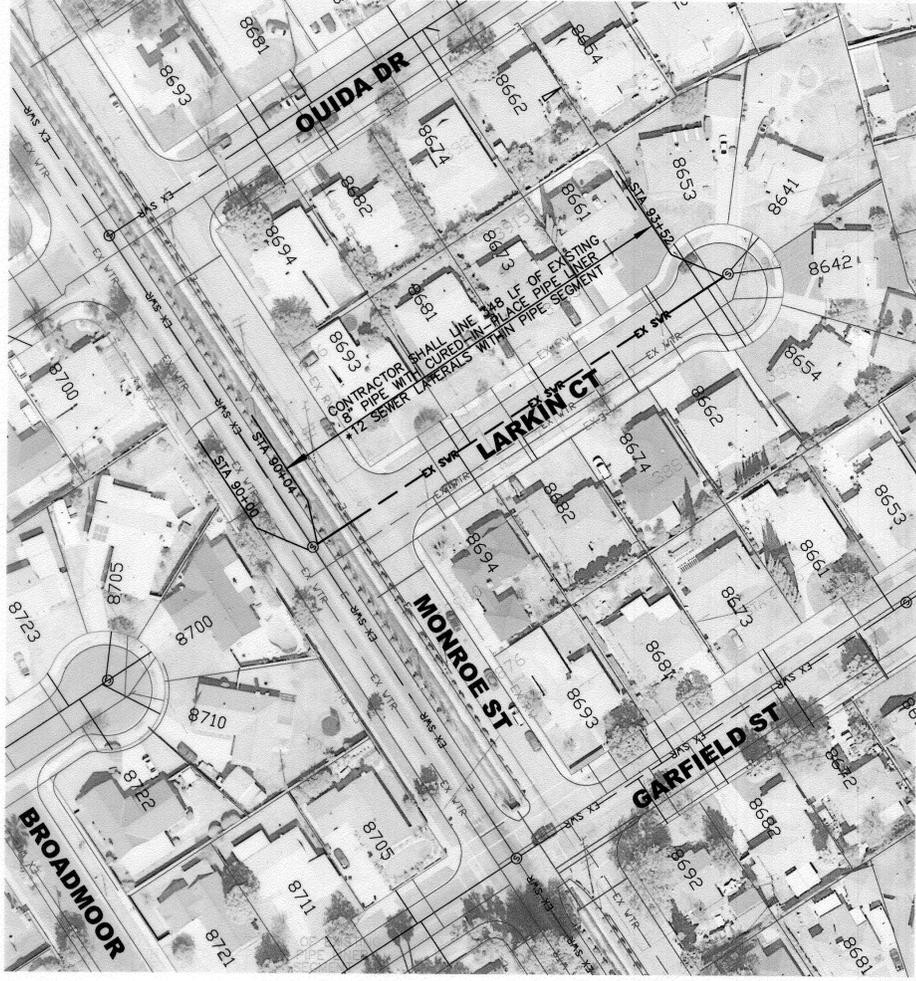
FILE NAME: S-2110-04

SPECIFIC CONSTRUCTION NOTES:

-  NUMBERS ABOVE 100 IN A HEXAGON ON THE PLAN REFER TO THE RESPECTIVE STANDARD DRAWING AND SHALL BE CONSTRUCTED ACCORDINGLY. UNLESS MODIFICATIONS ARE NOTED ON THE PLAN, ANY NUMBER SHOWN BELOW THE STANDARD DRAWING NUMBER INDICATES THE SPECIFIC ALTERNATE TO BE CONSTRUCTED.
-  CONTRACTOR SHALL CUT OUT PROTRUDING SEWER LATERAL INTERNALLY WITH A ROBOTIC CUTTER.
-  CONTRACTOR SHALL CAP EXISTING SEWER LATERAL.
-  ADJUST STORM DRAIN/SEWER MANHOLE TO GRADE.

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CONTRACTOR SHALL LINE 144 LF OF EXISTING 8" PIPE WITH CURED-IN-PLACE PIPE (CIPP) LINER
*1 SEWER LATERALS WITHIN PIPE SEGMENT
1"=60'



CONTRACTOR SHALL LINE 162 LF OF EXISTING 24" PIPE WITH CURED-IN-PLACE PIPE (CIPP) LINER
*1 SEWER LATERALS WITHIN PIPE SEGMENT

CONTRACTOR SHALL LINE 252 LF OF EXISTING 8" PIPE WITH CURED-IN-PLACE PIPE (CIPP) LINER
*5 SEWER LATERALS WITHIN PIPE SEGMENT



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BENCHMARK : G4-Z3
P.K NAIL AND CITY ENGINEER TAG IN THE BASE OF STREET LIGHT ALONG THE SOUTHERLY CURB OF ARLINGTON AVE, 325 FT EASTERLY OF MURRAY ST, AND 50 FT EASTERLY OF A DRIVEWAY E.C.R. ELEV - 769.102 (NGVD 29)

ENGINEER IN RESPONSIBLE CHARGE
THUY NGUYEN
R.C.E. No. 64751 EXP 06-30-2013

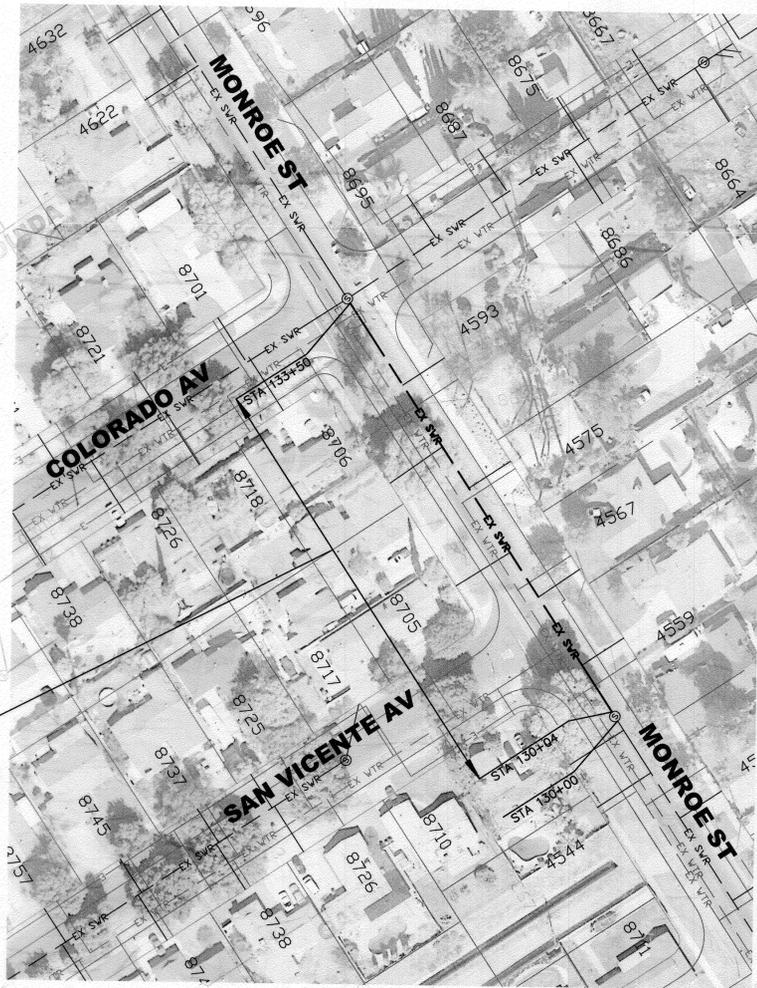
| CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS | | | |
|---|------|---------|----------------|
| APPROVED BY | BY | DATE | APPROVED BY |
| ENGINEERING MANAGER | FM | 3/12/13 | [Signature] |
| TRAFFIC ENGINEERING | E.H. | 3-13-13 | CITY ENGINEER |
| CONSTRUCTION ADMIN. | D.C. | 3/8/13 | |
| SURVEY | CS | 3/11/13 | DATE 2/13/2013 |

CURED IN PLACE PIPE LINER PROJECT
LARKIN CT, MONROE ST BETWEEN BASSWOOD AVE AND CAMELIA DR, JACKSON ST BETWEEN DELANO DR AND ALBION DR.
PLAN VIEW
HORIZ. SCALE: 1"=60' VERT. SCALE: N/A

ACCT. NO. 9863022003
DESIGN WORK ORDER NO.: 1226340
S-2110
SHEET 5 OF 6
FILE NAME: S-2110-05

SPECIFIC CONSTRUCTION NOTES:

-  NUMBERS ABOVE 100 IN A HEXAGON ON THE PLAN REFER TO THE RESPECTIVE STANDARD DRAWING AND SHALL BE CONSTRUCTED ACCORDINGLY. UNLESS MODIFICATIONS ARE NOTED ON THE PLAN, ANY NUMBER SHOWN BELOW THE STANDARD DRAWING NUMBER INDICATES THE SPECIFIC ALTERNATE TO BE CONSTRUCTED.
-  CONTRACTOR SHALL CUT OUT PROTRUDING SEWER LATERAL INTERNALLY WITH A ROBOTIC CUTTER.
-  CONTRACTOR SHALL CAP EXISTING SEWER LATERAL.
-  ADJUST STORM DRAIN/SEWER MANHOLE TO GRADE.



CONTRACTOR SHALL LINE 346 LF OF EXISTING 8" PIPE WITH CURED-IN-PLACE PIPE (CIPP) LINER *6 SEWER LATERALS WITHIN PIPE SEGMENT

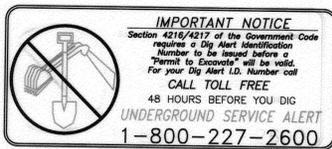
CONTRACTOR SHALL LINE 269 LF OF EXISTING 8" PIPE WITH CURED-IN-PLACE PIPE (CIPP) LINER *6 SEWER LATERALS WITHIN PIPE SEGMENT



CONTRACTOR SHALL LINE 268 LF OF EXISTING 8" PIPE WITH CURED-IN-PLACE PIPE (CIPP) LINER *7 SEWER LATERALS WITHIN PIPE SEGMENT

CONTRACTOR SHALL LINE 230 LF OF EXISTING 8" PIPE WITH CURED-IN-PLACE PIPE (CIPP) LINER *3 SEWER LATERALS WITHIN PIPE SEGMENT

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BENCHMARK : G4-Z3
P.K NAIL AND CITY ENGINEER TAG IN THE BASE OF STREET LIGHT ALONG THE SOUTHERLY CURB OF ARLINGTON AVE, 325 FT EASTERLY OF MURRAY ST, AND 50 FT EASTERLY OF A DRIVEWAY E.C.R. ELEV - 769.102 (NGVD 29)

ENGINEER IN RESPONSIBLE CHARGE
THUY NGUYEN
R.C.E. No. 64751 EXP 06-30-2013

| MARK | REVISIONS | APPR. | DATE |
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| CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS | | | |
|---|-------|----------|--------------------|
| APPROVED BY | BY | DATE | APPROVED BY |
| ENGINEERING MANAGER | EN | 3/12/13 | <i>[Signature]</i> |
| TRAFFIC ENGINEERING | EN | 3-13-13 | CITY ENGINEER |
| CONSTRUCTION ADMIN. | EN | 3/13/13 | |
| SURVEY | EN | 3/13/13 | |
| DESIGNED BY | LA/TN | DRAWN BY | LA |
| CHECKED BY | TN | DATE | 3/13/2013 |

| CURED IN PLACE PIPE LINER PROJECT | | ACCT. NO. 986392203 |
|---|--|--------------------------------|
| MONROE ST BETWEEN PEMBROKE AVE AND SAN VICENTE AVE. | | DESIGN WORK ORDER NO.: 1226340 |
| PLAN VIEW | | S-2110 |
| HORIZ. SCALE: 1"=60' | | SHEET 6 OF 6 |
| VERT. SCALE: N/A | | FILE NAME: S-2110-06 |