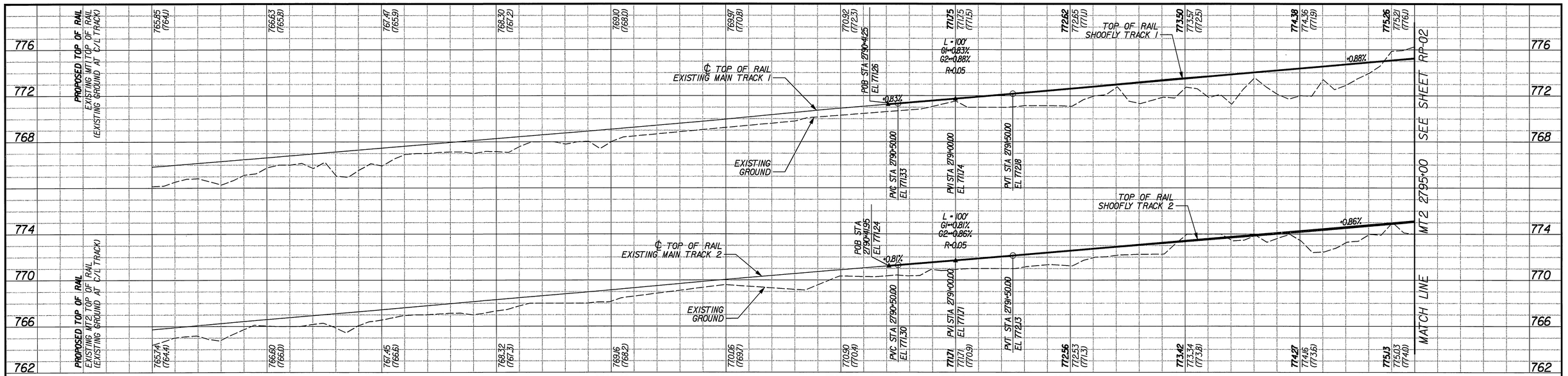
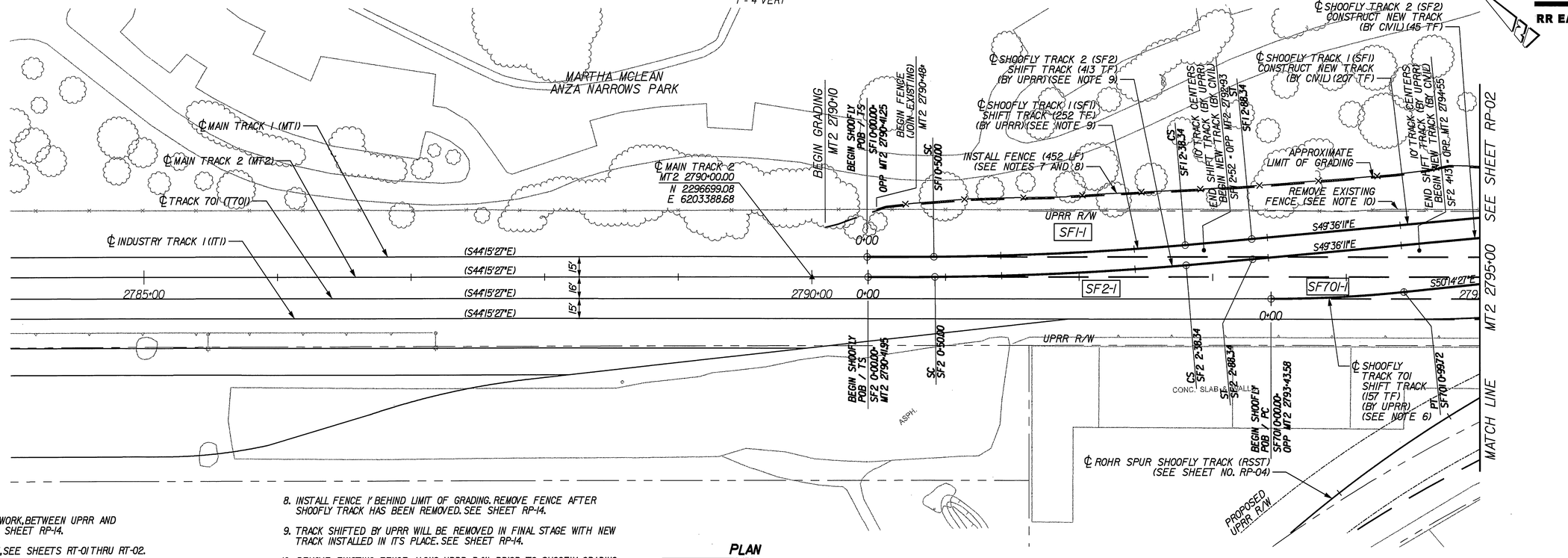


PROFILE

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

TO LOS ANGELES
RR WEST

TO RIVERSIDE
RR EAST



PLAN

SCALE : 1" = 40'

AS BUILT 1-20-10

40' 20' 0 40' 80' HORIZ
GRAPHIC SCALE: 1" = 40'

4' 2' 0 4' 8' VERT
GRAPHIC SCALE: 1" = 4'

NOTES:

1. FOR DELINEATION OF WORK, BETWEEN UPRR AND CIVIL CONTRACTOR, SEE SHEET RP-14.
2. FOR TRACK GEOMETRY, SEE SHEETS RT-01 THRU RT-02.
3. SHOOFLY TRACK PROFILES ARE BASED ON MAIN TRACK 2 (MT2) STATIONING.
4. FOR TYPICAL CROSS-SECTIONS SEE SHEETS RC-01 THRU RC-02.
5. FOR TRACK CROSS-SECTIONS SEE SHEETS RX-01 THRU RX-03.
6. FOR SHOOFLY TRACK 701 PROFILE, SEE SHEET RP-07.
7. INSTALL 6' CHAIN LINK FENCE PER CITY OF RIVERSIDE STD PLAN 380.
8. INSTALL FENCE 1' BEHIND LIMIT OF GRADING. REMOVE FENCE AFTER SHOOFLY TRACK HAS BEEN REMOVED. SEE SHEET RP-14.
9. TRACK SHIFTED BY UPRR WILL BE REMOVED IN FINAL STAGE WITH NEW TRACK INSTALLED IN IT'S PLACE. SEE SHEET RP-14.
10. REMOVE EXISTING FENCE ALONG UPRR R/W PRIOR TO SHOOFLY GRADING. REPLACE FENCE AFTER SITE HAS BEEN RE-GRADED. ALONG UPRR R/W PER CITY OF RIVERSIDE STD PLAN 380. SEE SHEET RP-14.

RIVERSIDE COUNTY REGIONAL PARK AND OPEN-SPACE DISTRICT
APPROVED BY PAUL FRANDSEN
GENERAL MANAGER
DATE 1/4/2007

PATTERSON & ASSOCIATES, INC. CIVIL ENGINEERING CONSULTANTS
725 TOWN & COUNTRY ROAD
SUITE 300
ORANGE, CA 92868
DMJM HARRIS | AECOM
999 Town & Country Road
Orange, CA 92868
T 714.567.2501 F 714.567.2441

REGISTERED PROFESSIONAL ENGINEER
MORTEZA GHANDEHARI
No. C042150
EXP. 03/31/08
CIVIL
STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE

DESIGNED BY PM DRAWN BY SR CHECKED BY JLP

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
CONST. CONTRACT ADMIN		
STREET SERVICES		
SURVEYOR		
TRAFFIC DIVISION		
PARKS DEPARTMENT		

APPROVED BY
CITY ENGINEER
DATE 12/29/06

JURUPA AVENUE UNDERPASS PHASE II CONSTRUCTION

SHOOFLY PLAN & PROFILE
MT2 2784+00 TO MT2 2795+00

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

R-3634
RP-01

OCTOBER 9, 2006

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PROFILE

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

PLAN

SCALE : 1" = 40'

40' 20' 0 40' 80' HORIZ
GRAPHIC SCALE: 1" = 40'

4' 2' 0 4' 8' VERT
GRAPHIC SCALE: 1" = 4'

NOTES:

1. FOR DELINEATION OF WORK, BETWEEN UPRR AND CIVIL CONTRACTOR, SEE SHEET RP-14.
2. FOR TRACK GEOMETRY, SEE SHEETS RT-01 THRU RT-02.
3. SHOOFLY TRACK PROFILES ARE BASED ON MAIN TRACK 2 STATIONING.
4. FOR TYPICAL CROSS-SECTIONS, SEE SHEETS RC-01 THRU RC-02.
5. FOR TRACK CROSS-SECTIONS, SEE SHEETS RX-01 THRU RX-03.
6. INSTALL 6' CHAIN LINK FENCE PER CITY OF RIVERSIDE STD PLAN 380.
7. INSTALL FENCE ALONG UPRR R/W AFTER DETOUR ROAD IS REMOVED.
8. INSTALL FENCE 1' BEHIND LIMIT OF GRADING. REMOVE FENCE AFTER SHOOFLY TRACK HAS BEEN REMOVED. SEE SHEET RP-14.
9. REMOVE EXISTING FENCE ALONG UPRR R/W PRIOR TO SHOOFLY GRADING. REPLACE FENCE AFTER SITE HAS BEEN RE-GRADED. ALONG UPRR R/W PER CITY OF RIVERSIDE STD PLAN 380. SEE SHEET RP-14.
10. FOR SHOOFLY TRACK 701 PROFILE, SEE SHEET RP-07.
11. REMOVE FENCE FOR SHOOFLY CONSTRUCTION. AFTER SHOOFLY IS REMOVED, CONSTRUCT NEW FENCE PER CITY OF RIVERSIDE STD PLAN 380 ALONG UPRR R/W BETWEEN JURUPA AVE AND THE EXISTING FENCE AT THE CHURCH.

AS BUILT 1-20-10

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RIVERSIDE COUNTY REGIONAL PARK AND OPEN-SPACE DISTRICT
APPROVED BY PAUL FRANDSEN
Paul Frandsen
GENERAL MANAGER
DATE 1/4/2007

PATTERSON & ASSOCIATES, INC. CIVIL-TRACKWORK ENGINEERING
725 TOWN & COUNTRY ROAD SUITE 300 ORANGE, CA 92868

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999 Town & Country Road Orange, CA 92868
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REGISTERED PROFESSIONAL ENGINEER MORTEZA GHANDEHARI No. C042150 EXP. 03/31/0? CIVIL STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE
△	Revisd Std. Dwg. No. & Sta.	FM	3/27/07

DESIGNED BY PM DRAWN BY SR CHECKED BY JLP

CITY OF RIVERSIDE, CALIFORNIA PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER	FM	12/29/06
CONST. CONTRACT ADMIN		
STREET SERVICES		
SURVEYOR	—	—
TRAFFIC DIVISION		12-29-06
PARKS DEPARTMENT	—	—

APPROVED BY
CITY ENGINEER
DATE 12/29/06

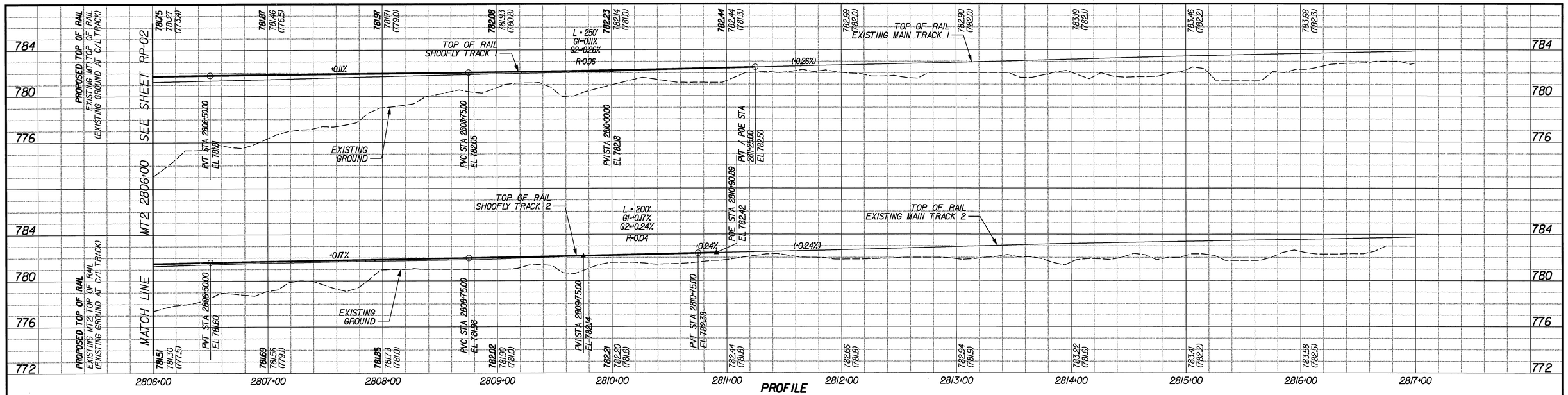
JURUPA AVENUE UNDERPASS
PHASE II CONSTRUCTION

SHOOFLY PLAN & PROFILE
MT2 2795+00 TO MT2 2806+00

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

R-3634
RP-02

OCTOBER 9, 2006

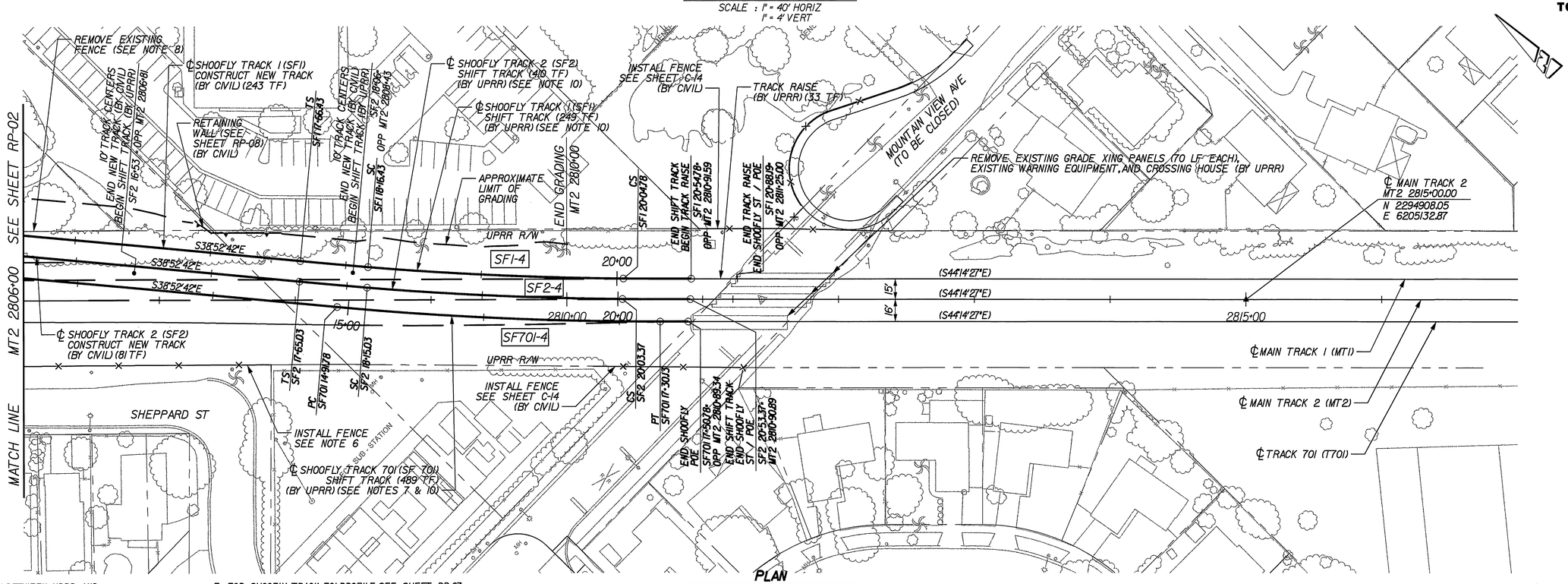


PROFILE

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

TO LOS ANGELES
RR WEST

TO RIVERSIDE
RR EAST



PLAN

SCALE : 1" = 40'

GRAPHIC SCALE: 40' 20' 0 40' 80' — 1" = 40' HORIZ

GRAPHIC SCALE: 4' 2' 0 4' 8' — 1" = 4' VERT

AS BUILT 1-20-10

NOTES:

1. FOR DELINEATION OF WORK, BETWEEN UPRR AND CIVIL CONTRACTOR, SEE SHEET RP-14.
2. FOR TRACK GEOMETRY, SEE SHEETS RT-01 THRU RT-02.
3. SHOOFLY TRACK PROFILES ARE BASED ON MAIN TRACK 2 STATIONING.
4. FOR TYPICAL CROSS-SECTIONS SEE SHEETS RC-01 THRU RC-02.
5. FOR TRACK CROSS-SECTIONS SEE SHEETS RX-01 THRU RX-03.
6. INSTALL 6' CHAIN LINK FENCE PER CITY OF RIVERSIDE STD PLAN 380. INSTALL FENCE ALONG UPRR R/W AND JOIN EXISTING CHAIN LINK FENCE AROUND ELECTRIC SUBSTATION.
7. FOR SHOOFLY TRACK 701 PROFILE, SEE SHEET RP-07.
8. REMOVE FENCE FOR SHOOFLY CONSTRUCTION. AFTER SHOOFLY IS REMOVED, CONSTRUCT NEW FENCE PER CITY OF RIVERSIDE STD PLAN 380 ALONG UPRR R/W BETWEEN JURUPA AVE AND THE EXISTING FENCE AT THE CHURCH.
9. NOT USED.
10. TRACK SHIFTED BY UPRR WILL BE REMOVED IN FINAL STAGE WITH NEW TRACK INSTALLED IN ITS PLACE. SEE SHEET RP-14.

PATTERSON & ASSOCIATES, INC. CIVIL ENGINEERING CONSULTANTS
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REGISTERED PROFESSIONAL ENGINEER MONTEJA GHANDEHARI No. C042150 EXP. 03/31/08 CIVIL STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE

DESIGNED BY PM DRAWN BY SR CHECKED BY JLP

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
CONST. CONTRACT ADMIN		
STREET SERVICES		
SURVEYOR		
TRAFFIC DIVISION		
PARKS DEPARTMENT		

APPROVED BY
CITY ENGINEER
DATE 12/29/06

JURUPA AVENUE UNDERPASS PHASE II CONSTRUCTION

SHOOFLY PLAN & PROFILE MT2 2806+00 TO MT2 2817+00

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

R-3634
RP-03

OCTOBER 9, 2006

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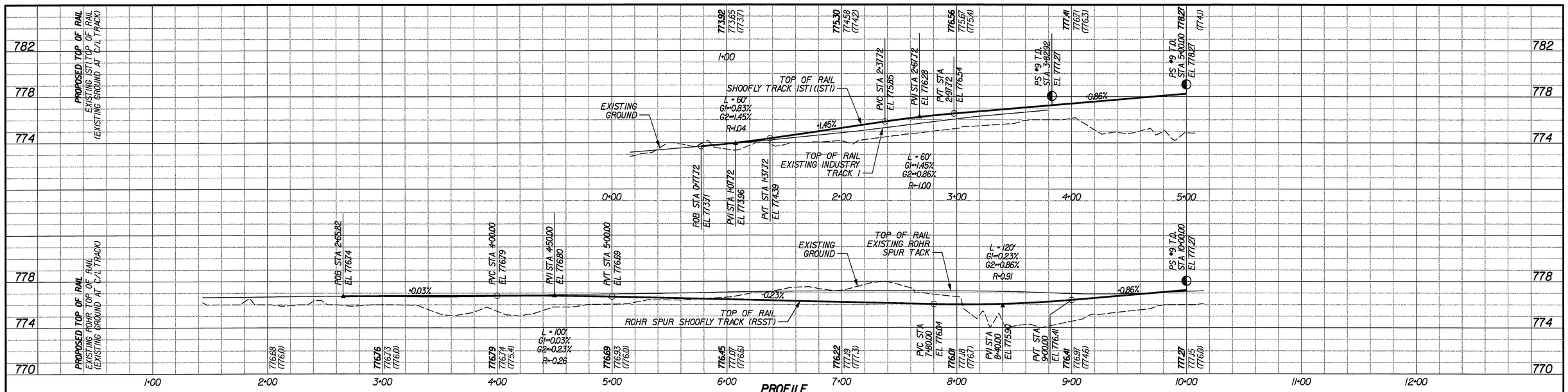
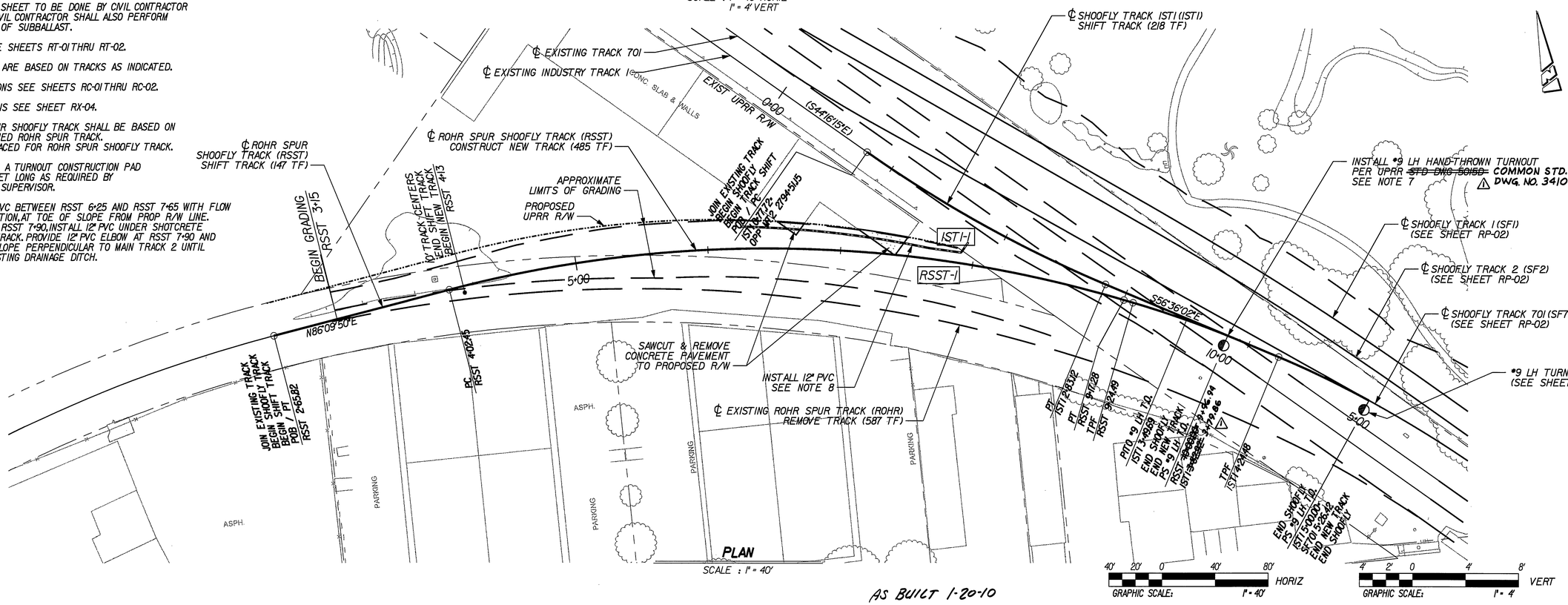


PROFILE

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

NOTES:

1. ALL TRACK WORK ON THIS SHEET TO BE DONE BY CIVIL CONTRACTOR (RAIL, TIES, OTM, BALLAST). CIVIL CONTRACTOR SHALL ALSO PERFORM ALL GRADING TO THE TOP OF SUBBALLAST.
2. FOR TRACK GEOMETRY, SEE SHEETS RT-01 THRU RT-02.
3. SHOOFLY TRACK PROFILES ARE BASED ON TRACKS AS INDICATED.
4. FOR TYPICAL CROSS-SECTIONS SEE SHEETS RC-01 THRU RC-02.
5. FOR TRACK CROSS-SECTIONS SEE SHEET RX-04.
6. SUBGRADE FOR ROHR SPUR SHOOFLY TRACK SHALL BE BASED ON FINAL GRADING OF REALIGNED ROHR SPUR TRACK. SUBBALLAST SHALL BE PLACED FOR ROHR SPUR SHOOFLY TRACK.
7. CONTRACTOR SHALL GRADE A TURNOUT CONSTRUCTION PAD 30 FEET WIDE BY 150 FEET LONG AS REQUIRED BY THE UPRR CONSTRUCTION SUPERVISOR.
8. INSTALL 12" PERFORATED PVC BETWEEN RSST 6+25 AND RSST 7+65 WITH FLOW LINE AT SUBGRADE ELEVATION, AT TOE OF SLOPE FROM PROP R/W LINE. BETWEEN RSST 7+65 AND RSST 7+90, INSTALL 12" PVC UNDER SHOTCRETE SLOPE, 8' LEFT OF RSST TRACK. PROVIDE 12" PVC ELBOW AT RSST 7+90 AND EXTEND PIPE THROUGH SLOPE PERPENDICULAR TO MAIN TRACK 2 UNTIL PIPE DAYLIGHTS INTO EXISTING DRAINAGE DITCH.



PLAN

SCALE : 1" = 40'

AS BUILT 1-20-10

PATTERSON & ASSOCIATES, INC. CIVIL ENGINEERING
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REGISTERED PROFESSIONAL ENGINEER MORTEZA GHANDEHARI No. C042150 EXP. 03/31/08 CIVIL STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE
⚠	Revised Std. Dwg. No. & Sta.	FM	3/29/07

DESIGNED BY PM DRAWN BY SR CHECKED BY JLP

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER	FM	12/29/06
CONST. CONTRACT ADMIN		
STREET SERVICES		
SURVEYOR		
TRAFFIC DIVISION		12-29-06
PARKS DEPARTMENT		

APPROVED BY _____ CITY ENGINEER
DATE 12/29/06

JURUPA AVENUE UNDERPASS
PHASE II CONSTRUCTION
SHOOFLY PLAN & PROFILE
ROHR SPUR TRACK
RSST 2+65.82 TO RSST 10+00

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

R-3634
RP-04

OCTOBER 9, 2006

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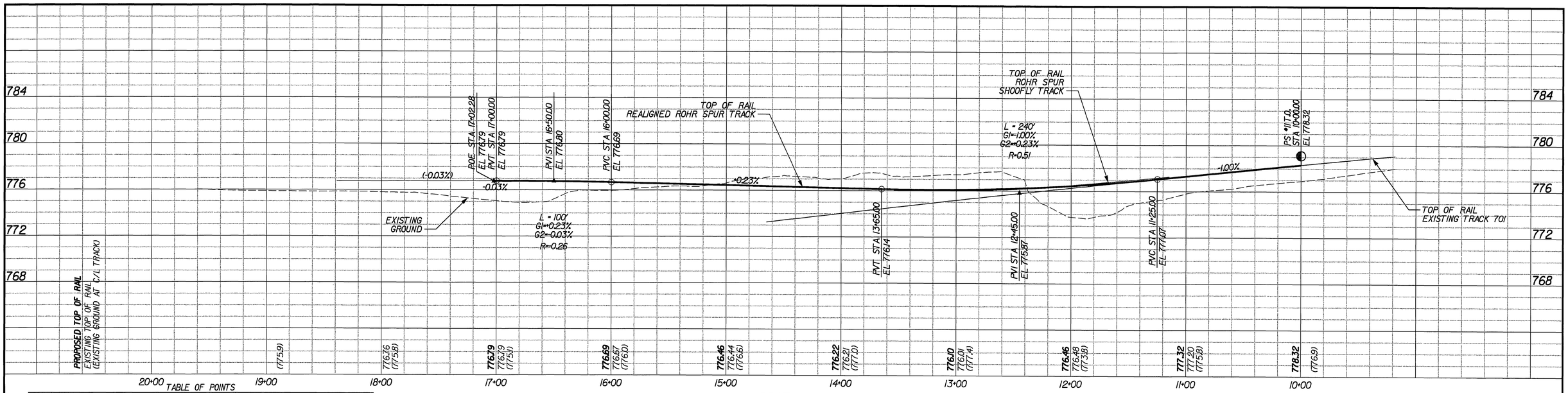

TABLE OF POINTS

POINT	DESCRIPTION	LINE	STATION	OFFSET	FS ELEV
1	JOIN EX / EDGE OF PAVEMENT	RRST	16+41.50	43.25' LT	(778.0) FS
2	EDGE OF PAVEMENT	RRST	16+40.00	26.00' LT	778.0 FS
3	EDGE OF PAVEMENT	RRST	15+85.00	27.00' LT	777.8 FS
4	EDGE OF PAVEMENT	RRST	15+23.66	28.75' LT	777.5 FS
5	EDGE OF PAVEMENT	RRST	14+00.00	32.90' LT	777.0 FS
6	EDGE OF PAVEMENT	RRST	13+49.00	33.00' LT	776.8 FS
7	JOIN EX / EDGE OF PAVEMENT	RRST	13+41.00	56.20' LT	(777.3) FS
8	JOIN EX / LIMIT OF OVERLAY	RRST	13+39.50	61.80' LT	(777.4) FS
9	JOIN EX / LIMIT OF OVERLAY	RRST	13+96.80	61.90' LT	(778.0) FS
10	EX EDGE OF CONC / LIMIT OF OVERLAY	RRST	13+98.10	56.90' LT	(778.0) FS

CURVE RRST-1
Dc = 7°30'
V = 15
Ea = 0"
Eu = 1.18"
Ls = 0'
Lc = 592'

PROFILE

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

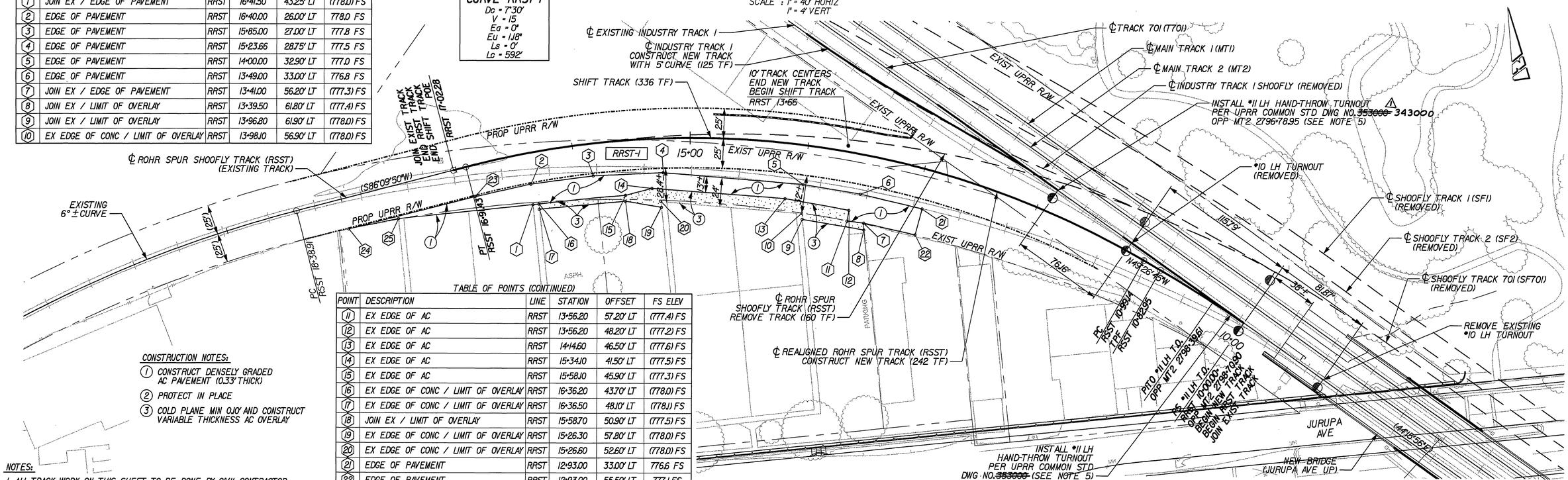

TABLE OF POINTS (CONTINUED)

POINT	DESCRIPTION	LINE	STATION	OFFSET	FS ELEV
11	EX EDGE OF AC	RRST	13+56.20	57.20' LT	(777.4) FS
12	EX EDGE OF AC	RRST	13+56.20	48.20' LT	(777.2) FS
13	EX EDGE OF AC	RRST	14+14.60	46.50' LT	(777.6) FS
14	EX EDGE OF AC	RRST	15+34.10	41.50' LT	(777.5) FS
15	EX EDGE OF AC	RRST	15+58.10	45.90' LT	(777.3) FS
16	EX EDGE OF CONC / LIMIT OF OVERLAY	RRST	16+36.20	43.70' LT	(778.0) FS
17	EX EDGE OF CONC / LIMIT OF OVERLAY	RRST	16+36.50	48.10' LT	(778.1) FS
18	JOIN EX / LIMIT OF OVERLAY	RRST	15+58.70	50.90' LT	(777.5) FS
19	EX EDGE OF CONC / LIMIT OF OVERLAY	RRST	15+26.30	57.80' LT	(778.0) FS
20	EX EDGE OF CONC / LIMIT OF OVERLAY	RRST	15+26.60	52.60' LT	(778.0) FS
21	EDGE OF PAVEMENT	RRST	12+93.00	33.00' LT	776.6 FS
22	EDGE OF PAVEMENT	RRST	12+93.00	55.50' LT	777.1 FS
23	EDGE OF PAVEMENT	RRST	16+90.00	26.00' LT	777.8 FS
24	JOIN EX / EDGE OF PAVEMENT	RRST	18+00.00	25.60' LT	(777.4) FS
25	JOIN EX / EDGE OF PAVEMENT	RRST	17+57.20	27.70' LT	(778.0) FS

CONSTRUCTION NOTES:

1. CONSTRUCT DENSELY GRADED AC PAVEMENT (0.33' THICK)
2. PROTECT IN PLACE
3. COLD PLANE MIN 0.10' AND CONSTRUCT VARIABLE THICKNESS AC OVERLAY

NOTES:

1. ALL TRACK WORK ON THIS SHEET TO BE DONE BY CIVIL CONTRACTOR (RAIL,TIES,OTM,BALLAST). THERE IS NO GRADING WORK BY THE CIVIL CONTRACTOR FOR RAILROAD PURPOSES ON THIS SHEET. CONTRACTOR SHALL PERFORM GRADING AND PAVING FOR PAVEMENT SECTION ADJACENT TO BUILDING.
2. FOR TRACK GEOMETRY, SEE SHEETS RT-01 THRU RT-02.
3. FOR TYPICAL CROSS-SECTIONS SEE SHEETS RC-01 THRU RC-02.
4. FOR CROSS-SECTIONS, SEE SHEET RX-05.
5. CONTRACTOR SHALL GRADE A TURNOUT CONSTRUCTION PAD 30 FEET WIDE BY 150 FEET LONG AS REQUIRED BY THE UPRR CONSTRUCTION SUPERVISOR.

PLAN

SCALE: 1"=40'

GRAPHIC SCALE: 40' 20' 0 40' 80' — 1" = 40' HORIZ

GRAPHIC SCALE: 4' 2' 0 4' 8' — 1" = 4' VERT

PATTERSON & ASSOCIATES, INC. CIVIL-TRANSPORTATION ENGINEERING
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REGISTERED PROFESSIONAL ENGINEER MORTEZA GHANDEHARI No. C042150 EXP. 03/31/09 CIVIL STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE
⚠	Corrected Std. Dwg. No.	FM.	3/29/07

DESIGNED BY PM DRAWN BY SR CHECKED BY JLP

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER	FM	12/29/06
CONST. CONTRACT ADMIN		
STREET SERVICES		
SURVEYOR		
TRAFFIC DIVISION	FM	12-29-06
PARKS DEPARTMENT		

APPROVED BY _____ CITY ENGINEER
DATE 12/29/06

JURUPA AVENUE UNDERPASS
PHASE II CONSTRUCTION
PLAN & PROFILE
REALIGNED ROHR SPUR TRACK
RRST 10+00 TO RRST 18+93

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

R-3634
RP-06
OCTOBER 9, 2006

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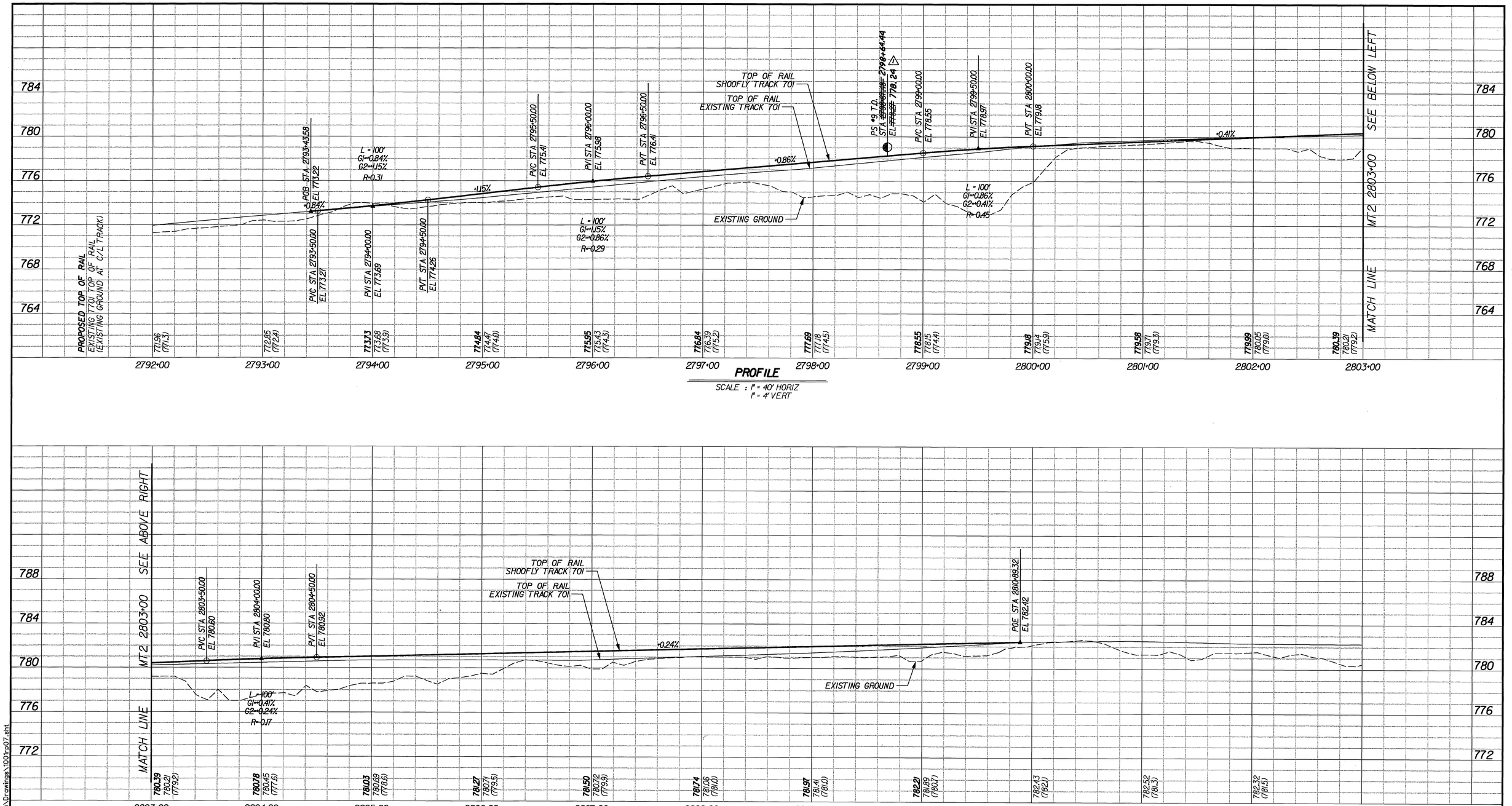

PROFILE

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

PROFILE

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

NOTES:

1. TRACK PROFILE IS BASED ON MAIN TRACK 2 (MT2) STATIONING.

40' 20' 0 40' 80' HORIZ
GRAPHIC SCALE: 1" = 40'

4' 2' 0 4' 8' VERT
GRAPHIC SCALE: 1" = 4'

AS BUILT 1-20-10

PATTERSON & ASSOCIATES, INC.
CIVIL/PROJECTS/ENGINEERING
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ORANGE, CA 92868

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REGISTERED PROFESSIONAL ENGINEER
MORTEZA GHANDEHARI
No. C042150
EXP. 03/31/08
CIVIL
STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE
1	Corrected Sta.	F.M.	3/29/07

DESIGNED BY PM DRAWN BY SR CHECKED BY JLP

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER	FM	4/7/06
CONST. CONTRACT ADMIN	[illegible]	11/20/06
STREET SERVICES	[illegible]	11/20/06
SURVEYOR	—	—
TRAFFIC DIVISION	[illegible]	12-5-06
PARKS DEPARTMENT	—	—

APPROVED BY
CITY ENGINEER
DATE 12/8/06

JURUPA AVENUE UNDERPASS
PHASE II CONSTRUCTION

SHOOFLY TRACK 701 PROFILE
MT2 2792+00 TO MT2 2814+00

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

R-3634
RP-07

OCTOBER 9, 2006

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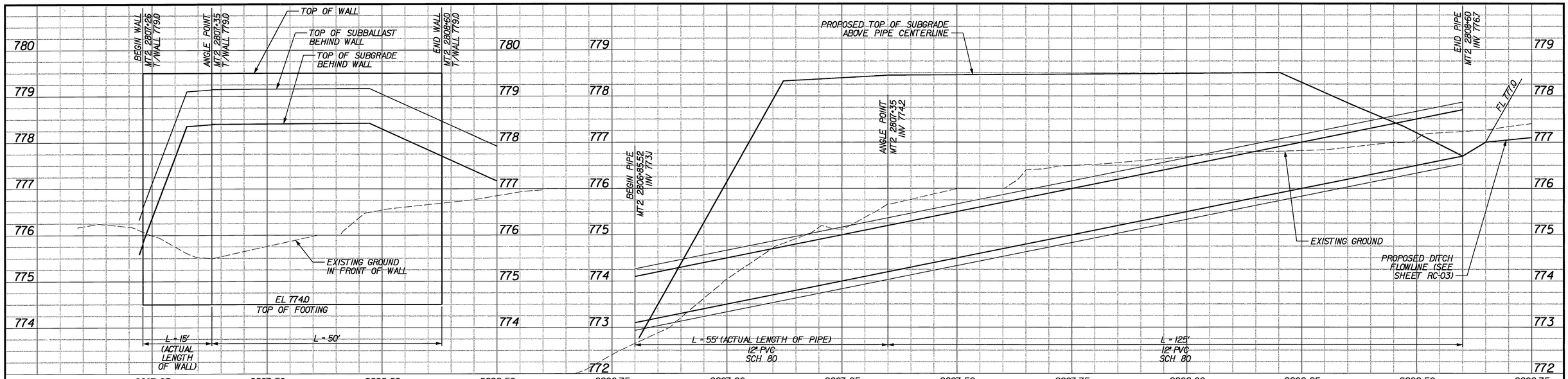
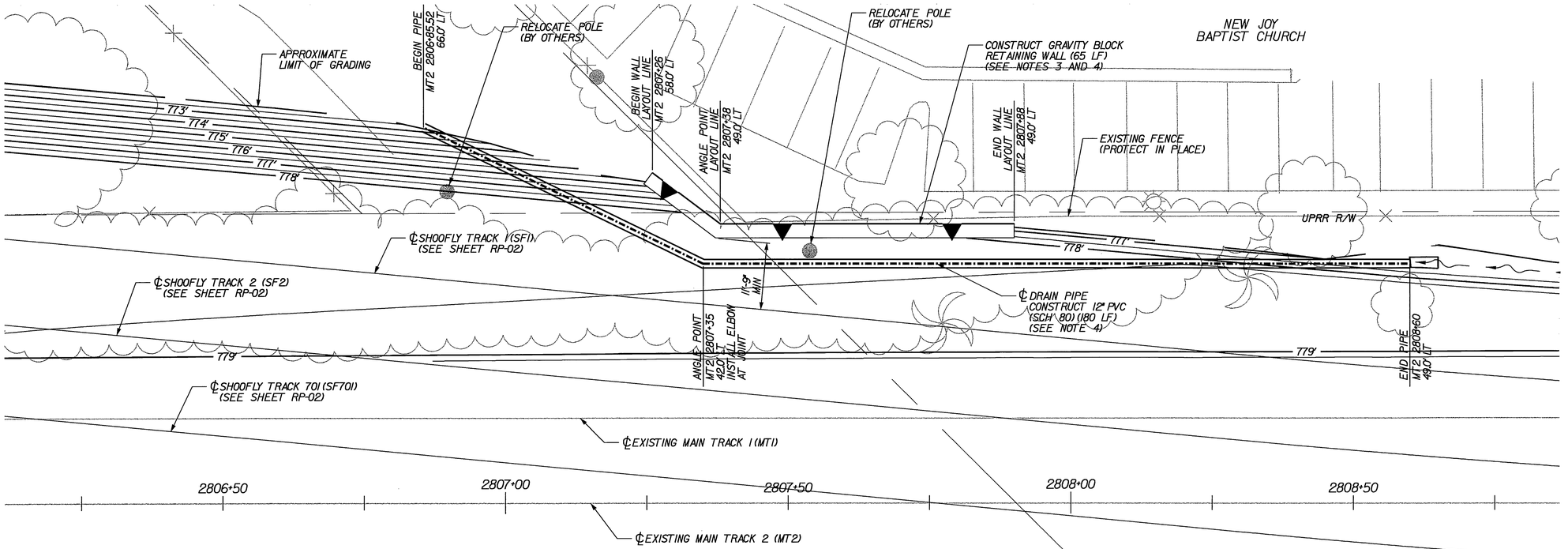


PROFILE

SCALE : 1" = 10' HORIZ
1" = 1' VERT



PLAN

SCALE : 1" = 10'

NOTES:

1. FOR TRACK ALIGNMENTS, SEE SHEET RP-02.
2. ALL STATIONING IS BASED ON MAIN TRACK 2 (MT2), UNLESS NOTED OTHERWISE.
3. FOR RETAINING WALL DETAILS, SEE SHEET RP-09.
4. AFTER THE SHOOFLY TRACKS HAVE BEEN REMOVED, REMOVE THE GRAVITY BLOCK RETAINING WALL AND DRAIN PIPE, AND RE-GRADE TO EXISTING CONDITION.

10' 5' 0 10' 20' HORIZ
GRAPHIC SCALE: 1" = 10'

1' 0.5 0 1' 2' VERT
GRAPHIC SCALE: 1" = 1'

AS BUILT 1-20-10

PATTERSON & ASSOCIATES, INC. CIVIL ENGINEERING CONSULTANTS
725 TOWN & COUNTRY ROAD SUITE 300 ORANGE, CA 92868
DMJM HARRIS | AECOM
999 Town & Country Road Orange, CA 92868 T 714.567.2501 F 714.567.2441

REGISTERED PROFESSIONAL ENGINEER MONTEZA GHANDEHARI No. C042150 EXP. 03/31/08 CIVIL STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE

DESIGNED BY PM DRAWN BY SR CHECKED BY JLP

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
CONST. CONTRACT ADMIN		
STREET SERVICES		
SURVEYOR		
TRAFFIC DIVISION		
PARKS DEPARTMENT		

APPROVED BY _____ CITY ENGINEER
DATE 12/8/06

JURUPA AVENUE UNDERPASS
PHASE II CONSTRUCTION

PLAN & PROFILE
DRAIN PIPE AND RETAINING WALL

HORIZ. SCALE: 1" = 10' VERT. SCALE: 1" = 1'

R-3634
RP-08

OCTOBER 9, 2006

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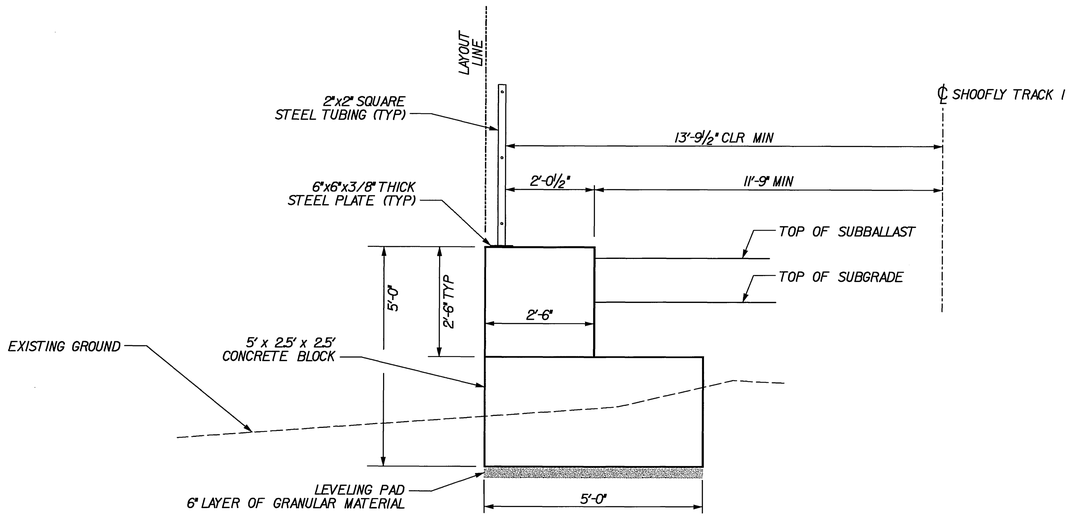
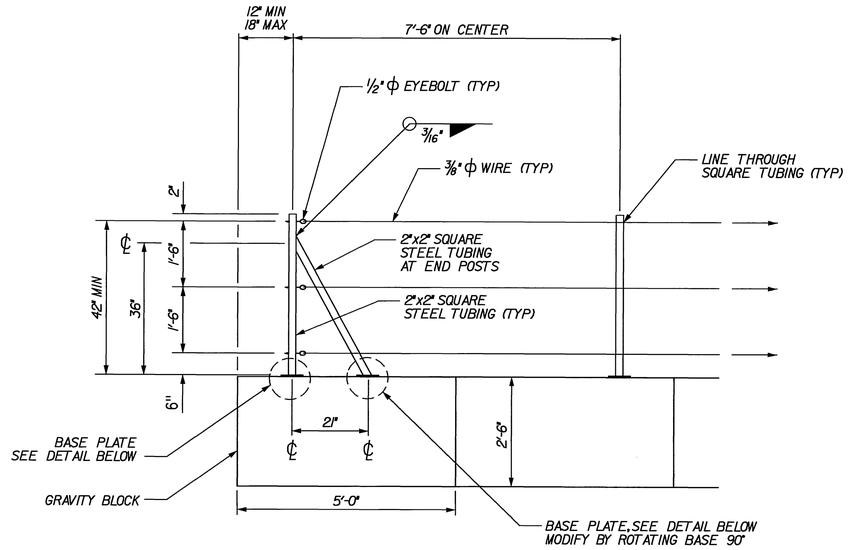


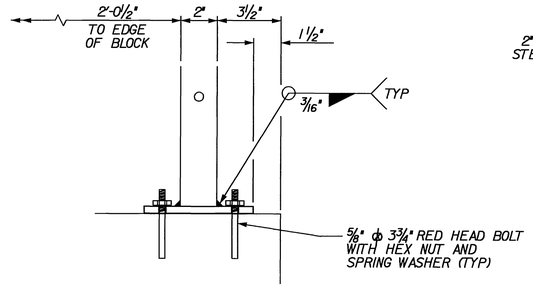
GRAVITY BLOCK RETAINING WALL SECTION

SCALE: NONE

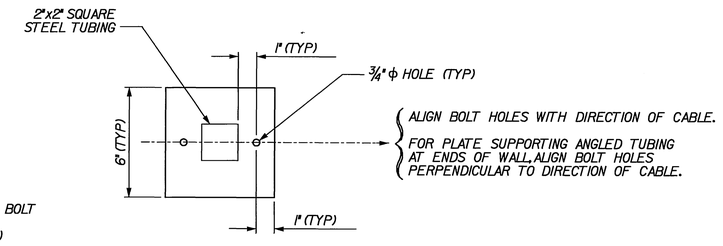


GRAVITY BLOCK RETAINING WALL RAILING

SCALE: NONE



ELEVATION



PLAN

BASE PLATE DETAIL

SCALE: NONE

AS BUILT 1-20-10

PATTERSON & ASSOCIATES, INC. CIVIL ENGINEERING CONSULTANTS
725 TOWN & COUNTRY ROAD SUITE 300 ORANGE, CA 92868
DMJM HARRIS | AECOM
999 Town & Country Road Orange, CA 92868 T 714.567.2501 F 714.567.2441

REGISTERED PROFESSIONAL ENGINEER MARTEZA GHANDOUR No. C042150 EXP. 03/31/08 CIVIL STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE

DESIGNED BY PM DRAWN BY SR CHECKED BY JLP

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER	[illegible]	12/8/06
CONST. CONTRACT ADMIN	[illegible]	12/8/06
STREET SERVICES	[illegible]	12/6/06
SURVEYOR	—	—
TRAFFIC DIVISION	[illegible]	12-5-06
PARKS DEPARTMENT	—	—

APPROVED BY [signature] CITY ENGINEER
DATE 12/8/06

JURUPA AVENUE UNDERPASS PHASE II CONSTRUCTION

RETAINING WALL DETAILS

SCALE: NOT TO SCALE

R-3634
RP-09

OCTOBER 9, 2006

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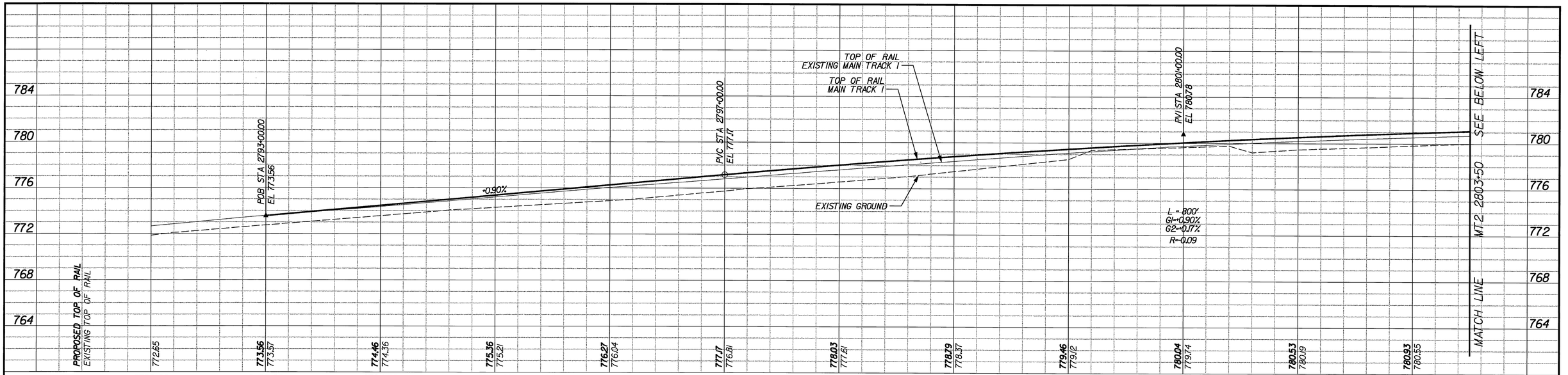
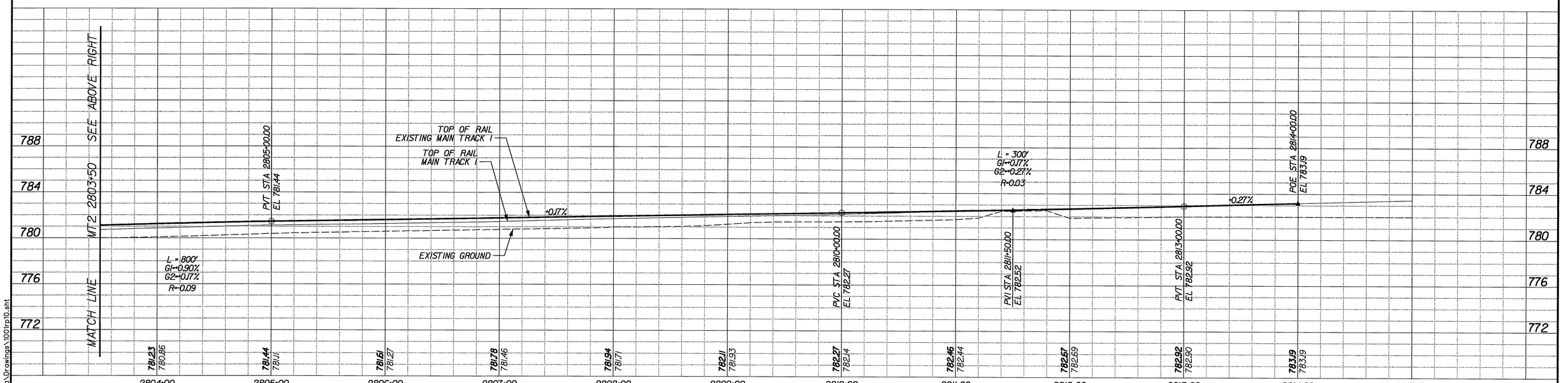


PROFILE

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



PROFILE

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

NOTES:

1. TRACK PROFILE IS BASED ON MAIN TRACK 2 (MT2) STATIONING.

AS BUILT 1-20-10

GRAPHIC SCALE: 40' 20' 0 40' 80' HORIZ 1" = 40'

GRAPHIC SCALE: 4' 2' 0 4' 8' VERT 1" = 4'

PATTERSON & ASSOCIATES, INC. CIVIL-TRANSPORTATION ENGINEERING
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REGISTERED PROFESSIONAL ENGINEER
MORTEZA GHANDEHARI
No. C042150
EXP. 03/31/08
CIVIL
STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE

DESIGNED BY PM DRAWN BY SR CHECKED BY JLP

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
CONST. CONTRACT ADMIN		
STREET SERVICES		
SURVEYOR	—	—
TRAFFIC DIVISION		
PARKS DEPARTMENT	—	—

APPROVED BY
CITY ENGINEER
DATE 12/8/06

JURUPA AVENUE UNDERPASS
PHASE II CONSTRUCTION

FINAL MAIN TRACK 1 PROFILE
MT2 2792+00 TO MT2 2815+00

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

R-3634
RP-10

OCTOBER 9, 2006

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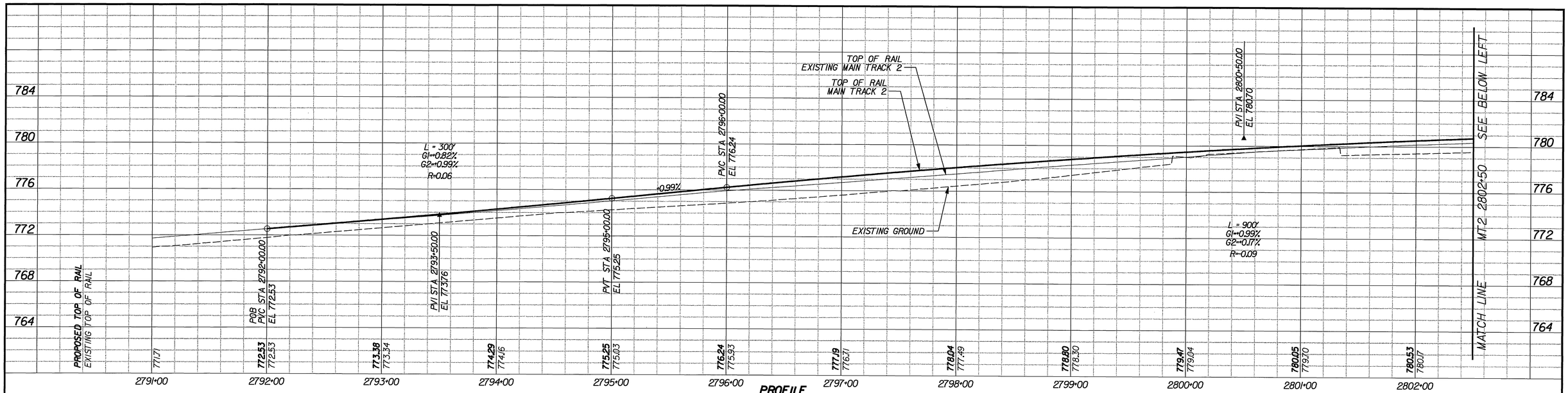
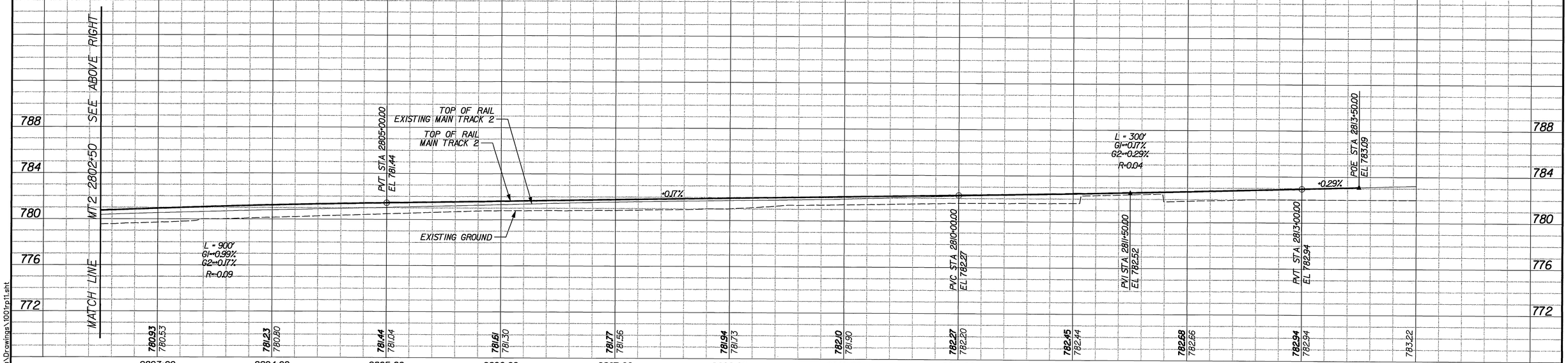


PROFILE

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



PROFILE

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

NOTES:

1. TRACK PROFILE IS BASED ON MAIN TRACK 2 (MT2) STATIONING.

GRAPHIC SCALE: 40' 20' 0 40' 80' — 1" = 40' HORIZ

GRAPHIC SCALE: 4' 2' 0 4' 8' — 1" = 4' VERT

AS BUILT 1-20-10

PATTERSON & ASSOCIATES, INC. CIVIL ENGINEERING CONSULTANTS
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REGISTERED PROFESSIONAL ENGINEER — MORTEZA GHAMDENAMI — No. C042150 EXP. 03/31/08 — CIVIL — STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE

DESIGNED BY PM DRAWN BY SR CHECKED BY JLP

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
CONST. CONTRACT ADMIN		
STREET SERVICES		
SURVEYOR		
TRAFFIC DIVISION		
PARKS DEPARTMENT		

APPROVED BY _____ CITY ENGINEER
DATE 12/8/06

JURUPA AVENUE UNDERPASS
PHASE II CONSTRUCTION

FINAL MAIN TRACK 2 PROFILE
MT2 2792+00 TO MT2 2815+00

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

R-3634
RP-11

OCTOBER 9, 2006

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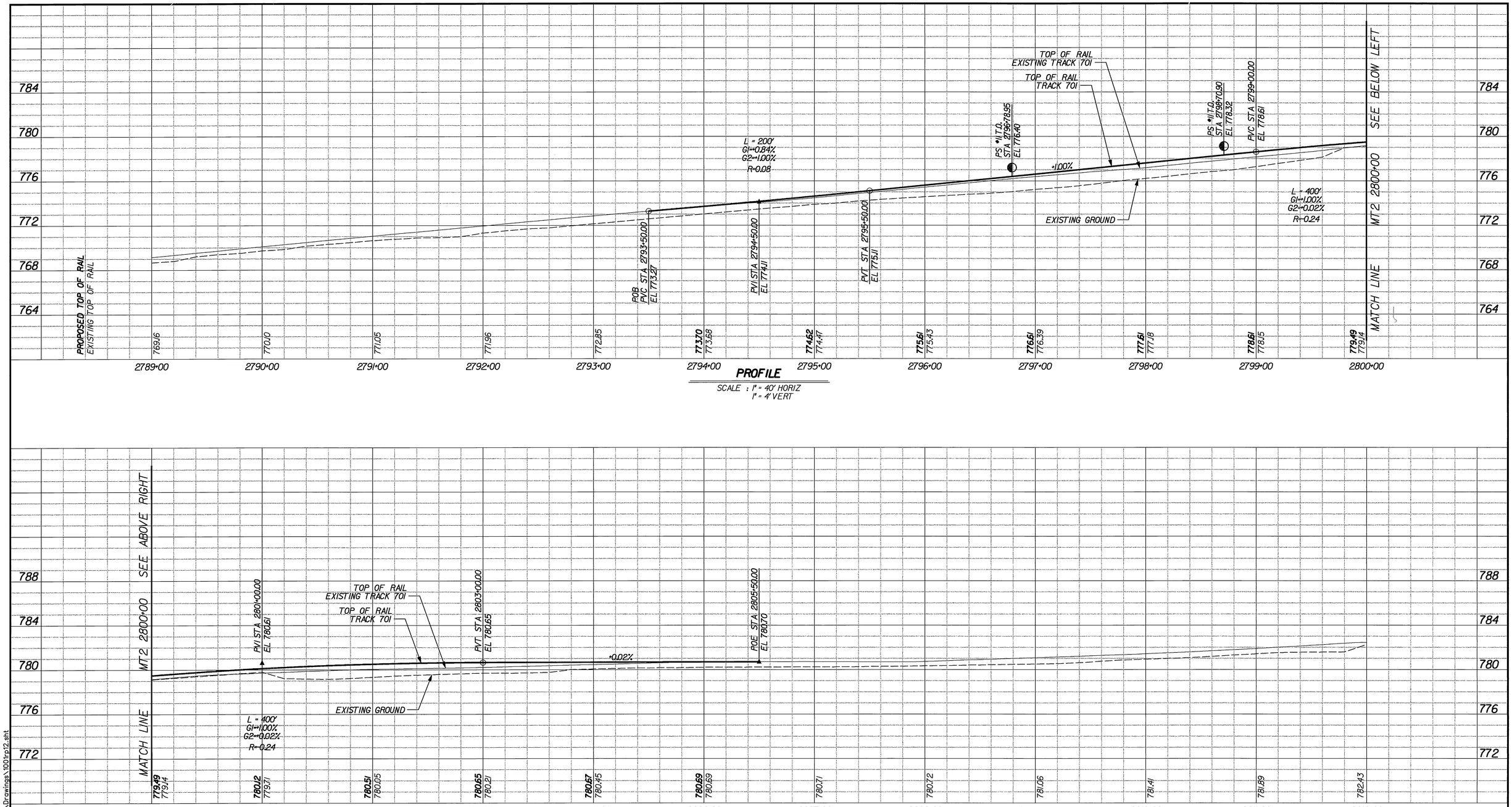

PROFILE

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

NOTES:

1. TRACK PROFILE IS BASED ON MAIN TRACK 2 (MT2) STATIONING.

AS BUILT 1-20-10

40' 20' 0 40' 80' HORIZ
GRAPHIC SCALE: 1" = 40'

4' 2' 0 4' 8' VERT
GRAPHIC SCALE: 1" = 4'

PATTERSON & ASSOCIATES, INC.
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REGISTERED PROFESSIONAL ENGINEER
MORTEZA GHANDEHARI
No. C042150
EXP. 03/31/08
CIVIL
STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE

DESIGNED BY PM DRAWN BY SR CHECKED BY JLP

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
CONST. CONTRACT ADMIN		
STREET SERVICES		
SURVEYOR		
TRAFFIC DIVISION		
PARKS DEPARTMENT		

APPROVED BY _____ CITY ENGINEER
DATE 11/8/06

JURUPA AVENUE UNDERPASS
PHASE II CONSTRUCTION

FINAL TRACK 701 PROFILE
MT2 2789+00 TO MT2 2812+00

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

R-3634
RP-12

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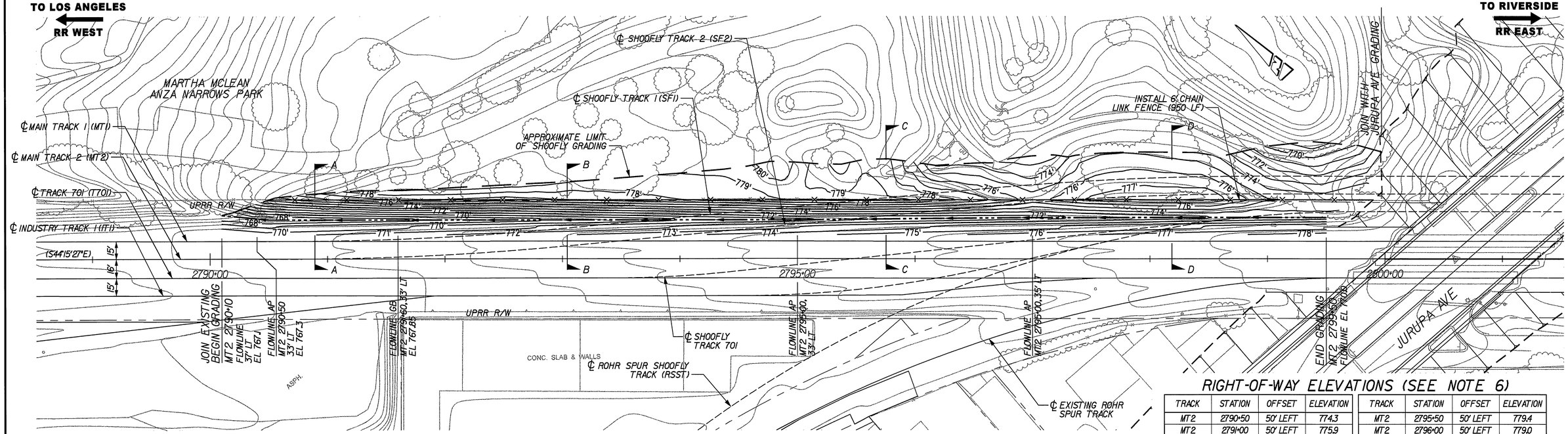


PLAN

SCALE : 1" = 40'

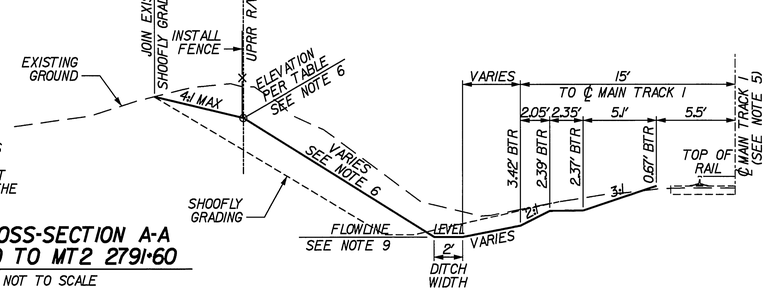
RIGHT-OF-WAY ELEVATIONS (SEE NOTE 6)

TRACK	STATION	OFFSET	ELEVATION
MT2	2790+50	50' LEFT	774.3
MT2	2791+00	50' LEFT	775.9
MT2	2791+50	50' LEFT	777.0
MT2	2792+00	50' LEFT	776.9
MT2	2792+50	50' LEFT	776.4
MT2	2793+00	50' LEFT	777.0
MT2	2793+50	50' LEFT	777.5
MT2	2794+00	50' LEFT	778.0
MT2	2794+50	50' LEFT	778.4
MT2	2795+00	50' LEFT	779.2
MT2	2795+50	50' LEFT	779.4
MT2	2796+00	50' LEFT	779.0
MT2	2796+50	50' LEFT	777.6
MT2	2797+00	50' LEFT	775.6
MT2	2797+50	50' LEFT	777.2
MT2	2798+00	50' LEFT	777.9
MT2	2798+50	50' LEFT	777.4
MT2	2799+00	50' LEFT	775.7
MT2	2799+50	50' LEFT	774.7
MT2	2799+80	50' LEFT	774.5

NOTES:

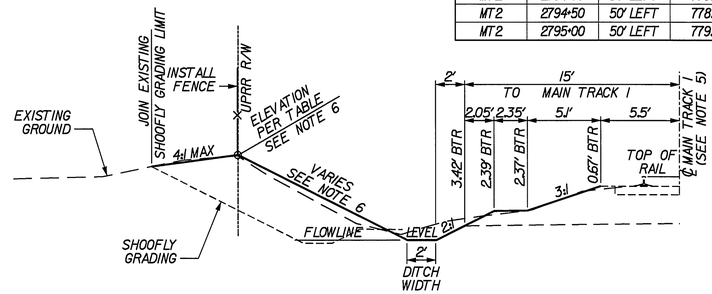
1. FOR TRACK REMOVALS, REFER TO THE SPECIFICATIONS. CIVIL CONTRACTOR IS RESPONSIBLE FOR REMOVING BALLAST AND SUBBALLAST.
2. CIVIL CONTRACTOR SHALL PERFORM FINISHED GRADING TO ELEVATIONS INDICATED ON THIS PLAN.
3. ALL STATIONING IS BASED ON MAIN TRACK 2 (MT2).
4. FOR CROSS-SECTIONS SEE SHEET RX-06.
5. BTR= BELOW TOP OF RAIL. DISTANCES AND ELEVATION OFFSETS ARE SHOWN FROM THE FINAL TRACK PROFILE OF MAIN TRACK 1. FOR MAIN TRACK 1 PROFILE, SEE DRAWING NO. RP-10.
6. PRIOR TO SHOOFLY GRADING, THE CIVIL CONTRACTOR SHALL SURVEY EXISTING PARK ELEVATIONS WITHIN THE GRADING LIMITS. ELEVATIONS WITHIN PARK SHALL BE RESTORED AS NEAR AS POSSIBLE. CONTRACTOR SHALL VERIFY ELEVATIONS AT RIGHT-OF-WAY SUCH THAT THE MAXIMUM GRADE WITHIN THE PARK AREA IS A 4:1 SLOPE, AND THE SLOPE ON THE UPRR R/W IS MINIMIZED, BUT NO MORE THAN 1.75:1.

NOTES ARE CONTINUED BELOW.



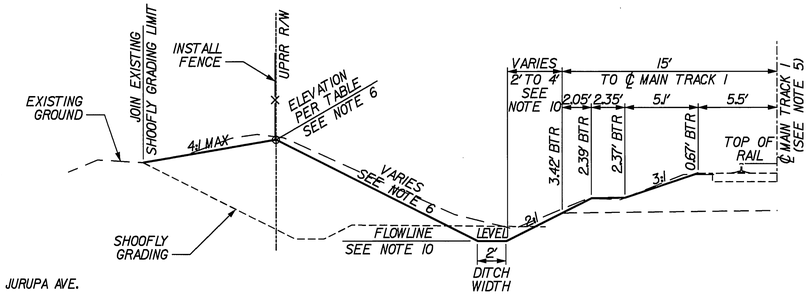
TYPICAL CROSS-SECTION A-A
MT2 2090+10 TO MT2 2791+60

SCALE: NOT TO SCALE



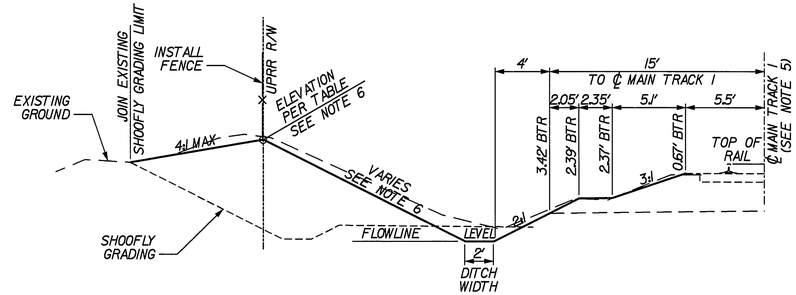
TYPICAL CROSS-SECTION B-B
MT2 2791+60 TO MT2 2795+00

SCALE: NOT TO SCALE



TYPICAL CROSS-SECTION C-C
MT2 2795+00 TO MT2 2797+00

SCALE: NOT TO SCALE



TYPICAL CROSS-SECTION D-D
MT2 2797+00 TO MT2 2799+50

SCALE: NOT TO SCALE

NOTES (CONTINUED):

7. GRADING SHALL JOIN WITH THE FINISHED GRADING OF JURUPA AVE. AND THE BRIDGE CONSTRUCTION.
8. ANGLE DITCH AWAY FROM MAIN TRACK 1 BETWEEN MT2 2790+10 AND MT2 2791+50 TO JOIN WITH THE EXISTING DITCH.
9. FLOWLINE ELEVATIONS VARY RELATIVE TO TOP OF RAIL OF MAIN TRACK 1 STRAIGHT GRADE FLOWLINE BETWEEN ELEVATIONS INDICATED ON PLAN.
10. BETWEEN MT2 2795+00 AND MT2 2797+00, STRAIGHT GRADE DITCH. DITCH DEPTH SHALL VARY LINEARLY FROM 1' AT MT2 2795+00 TO 2' AT MT2 2797+00.

40' 20' 0 40' 80' HORIZ

GRAPHIC SCALE: 1" = 40'

AS BUILT 1-20-10

RIVERSIDE COUNTY REGIONAL PARK AND OPEN-SPACE DISTRICT

APPROVED BY PAUL FRANDSEN
GENERAL MANAGER
DATE 12/12/06

PATTERSON & ASSOCIATES, INC. CIVIL ENGINEERING SURVEYING
725 TOWN & COUNTRY ROAD SUITE 300 ORANGE, CA 92868

DMJM HARRIS | AECOM
999 Town & Country Road Orange, CA 92868 T 714.567.2501 F 714.567.2441

REGISTERED PROFESSIONAL ENGINEER MORTEZA GHANDEHARI No. C042150 EXP. 03/31/09 CIVIL STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE
1	TRACKWORK BY CIVIL CONTRACTOR	MG	12/5/06

DESIGNED BY PM DRAWN BY SR CHECKED BY JLP

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
CONST. CONTRACT ADMIN		
STREET SERVICES		
SURVEYOR		
TRAFFIC DIVISION		
PARKS DEPARTMENT		

APPROVED BY CITY ENGINEER
DATE 12/13/06

JURUPA AVENUE UNDERPASS
PHASE 1I CONSTRUCTION

FINISHED PARK GRADING PLAN
MT2 2789+00 TO MT2 2801+00

SCALE: 1" = 40'

R-3634
RP-13

OCTOBER 9, 2006

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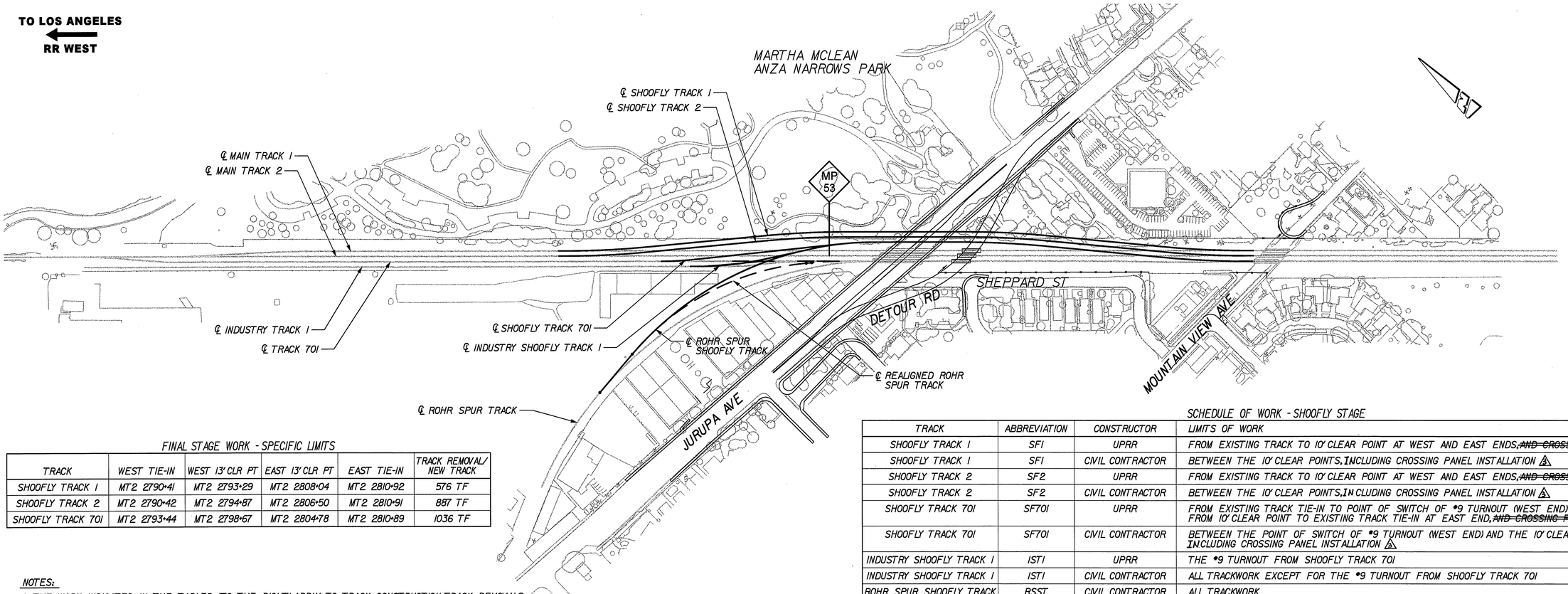
TO LOS ANGELES
RR WEST

TO RIVERSIDE
RR EAST



FINAL STAGE WORK - SPECIFIC LIMITS

TRACK	WEST TIE-IN	WEST 13' CLR PT	EAST 13' CLR PT	EAST TIE-IN	TRACK REMOVAL/ NEW TRACK
SHOOFLY TRACK 1	MT2 2790+41	MT2 2793+29	MT2 2808+04	MT2 2810+92	576 TF
SHOOFLY TRACK 2	MT2 2790+42	MT2 2794+87	MT2 2806+50	MT2 2810+91	887 TF
SHOOFLY TRACK 701	MT2 2793+44	MT2 2798+67	MT2 2804+78	MT2 2810+89	1036 TF

NOTES:

1. THE WORK INDICATED IN THE TABLES (TO THE RIGHT) APPLY TO TRACK CONSTRUCTION, TRACK REMOVALS, SPECIAL TRACKWORK CONSTRUCTION, AND INSTALLATION AND REMOVAL OF CONCRETE CROSSING PANELS.
2. THE CIVIL CONTRACTOR SHALL PERFORM ALL GRADING ACTIVITIES.
3. UPRR SHALL PERFORM ALL SIGNAL RELATED INSTALLATIONS AND REMOVALS.
4. ALL WORK ON UPRR RIGHT OF WAY SHALL BE PERFORMED ONLY WHEN A UPRR FLAGMAN IS PRESENT.
5. ~~REGARDLESS OF LIMITS OF WORK, THE CIVIL CONTRACTOR SHALL FURNISH AND CONSTRUCT ALL TURNOUTS.~~ FOR TURNOUTS WITHIN UPRR LIMITS OF WORK, THE CIVIL CONTRACTOR SHALL CONSTRUCT THE ~~TURNOUT ON A~~ TURNOUT PAD, AND UPRR SHALL **FURNISH AND INSTALL THE TURNOUT. UPPR SHALL INSTALL AND/OR REMOVE** ALL TURNOUTS AND PERFORM ALL TIE-INS ON ACTIVE (OR 'LIVE') TRACK. 2
6. FOR LOCATION OF THE 10' CLEAR POINTS, SEE TRACK PLANS.
7. CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL, AND EQUIPMENT TO SUPPORT UPRR IN INSTALLING TRACKS, TURNOUTS, GRADE CROSSINGS, AND ALL OTHER CONSTRUCTION WORK TO BE PERFORMED BY THE UPRR FORCES. ~~SUCH MATERIALS INCLUDE BUT NOT LIMITED TO BALLAST, TIES, RAIL, OTHER TRACK MATERIAL, CROSSING PANELS, TURNOUTS, AND GRADING.~~ 2
8. ~~CONTRACTOR SHALL FURNISH AND ASSEMBLE THE UPRR INSTALLED TURNOUTS AND DELIVER TO 50' FROM THE FINAL POSITION OF THE TURNOUT.~~ **TRACK MATERIAL FOR UPRR INSTALLED TRACK WILL BE FURNISHED BY UPRR.** 2
9. ~~ALL RELEASED MATERIAL WILL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE SALVAGED AND REMOVED FROM THE JOB SITE.~~ **FOR RELEASED MATERIAL, SEE SPECIFICATIONS.**
10. CONTRACTOR SHALL PERFORM GRADING, PLACE SUB-BALLAST AND BALLAST FOR UPRR INSTALLED TRACK.
11. UPRR SIGNAL WILL FURNISH AND INSTALL THE GRADE CROSSING SIGNAL EQUIPMENT. CONTRACTOR SHALL FURNISH LABOR, MATERIAL, EQUIPMENT FOR ROADWAY IMPROVEMENTS INCLUDING GRADING, PAVEMENT, CURB AND GUTTER, SIGNING AND STRIPING, TRAFFIC DETOUR AND ALL ASSOCIATED WORK REQUIRED BY GRADE CROSSING SIGNAL EQUIPMENT. CONTRACTOR SHALL PROTECT EXISTING SIGNAL SHELTER IN PLACE UNTIL THE TEMPORARY GRADE CROSSINGS ARE ABANDONED AND REMOVED. UPON ABANDONMENT OF THE GRADE CROSSINGS UPRR SIGNAL WILL REMOVE THE ABANDONED SIGNAL SHELTER AND CONTRACTOR SHALL COMPLETE GRADING AS REQUIRED.
12. IN THE FINAL STAGE, UPRR WILL REMOVE TRACK BETWEEN TIE-IN POINTS AND THE 13' CLEAR POINT ON THE 3 SHOOFLY TRACKS, AND STOCKPILE THE REMOVED TRACK ON THE RAILROAD RIGHT-OF-WAY. THE CONTRACTOR SHALL REMOVE THIS TRACK FROM THE PROJECT SITE, AS WELL AS THE REMAINDER OF THE SHOOFLY TRACKS. UPRR WILL INSTALL NEW TRACK TO JOIN THE ORIGINAL ALIGNMENT. ~~THE CONTRACTOR SHALL FURNISH NEW TRACK PANELS FOR UPRR TO INSTALL. STATIONING OF 13' CLEAR POINTS AND APPROXIMATE TRACK LENGTHS ARE IN THE ABOVE TABLE.~~
13. PRIOR TO THE CONTRACTOR WORKING ON THE ROHR SPUR TRACK AND INDUSTRY TRACK 1, AND SHOOFLY TRACKS OF EACH, UPRR SHALL TAKE THESE TRACKS OUT OF SERVICE.

SCHEDULE OF WORK - SHOOFLY STAGE

TRACK	ABBREVIATION	CONSTRUCTOR	LIMITS OF WORK
SHOOFLY TRACK 1	SF1	UPRR	FROM EXISTING TRACK TO 10' CLEAR POINT AT WEST AND EAST ENDS, ~~AND CROSSING PANEL INSTALLATION~~ 3
SHOOFLY TRACK 1	SF1	CIVIL CONTRACTOR	BETWEEN THE 10' CLEAR POINTS, **INCLUDING CROSSING PANEL INSTALLATION** 3
SHOOFLY TRACK 2	SF2	UPRR	FROM EXISTING TRACK TO 10' CLEAR POINT AT WEST AND EAST ENDS, ~~AND CROSSING PANEL INSTALLATION~~ 3
SHOOFLY TRACK 2	SF2	CIVIL CONTRACTOR	BETWEEN THE 10' CLEAR POINTS, **INCLUDING CROSSING PANEL INSTALLATION** 3
SHOOFLY TRACK 701	SF701	UPRR	FROM EXISTING TRACK TIE-IN TO POINT OF SWITCH OF #9 TURNOUT (WEST END) FROM 10' CLEAR POINT TO EXISTING TRACK TIE-IN AT EAST END, ~~AND CROSSING PANEL INSTALLATION~~ 3
SHOOFLY TRACK 701	SF701	CIVIL CONTRACTOR	BETWEEN THE POINT OF SWITCH OF #9 TURNOUT (WEST END) AND THE 10' CLEAR POINT (EAST END), **INCLUDING CROSSING PANEL INSTALLATION** 3
INDUSTRY SHOOFLY TRACK 1	IST1	UPRR	THE #9 TURNOUT FROM SHOOFLY TRACK 701
INDUSTRY SHOOFLY TRACK 1	IST1	CIVIL CONTRACTOR	ALL TRACKWORK EXCEPT FOR THE #9 TURNOUT FROM SHOOFLY TRACK 701
ROHR SPUR SHOOFLY TRACK	RSST	CIVIL CONTRACTOR	ALL TRACKWORK
ROHR SPUR TRACK	RST	CIVIL CONTRACTOR	ALL TRACKWORK
MAIN TRACK 1	MT1	UPRR	ALL TRACKWORK AND CROSSING PANEL INSTALLATION
MAIN TRACK 2	MT2	UPRR	ALL TRACKWORK AND CROSSING PANEL INSTALLATION
TRACK 701	T701	UPRR	ALL TRACKWORK AND CROSSING PANEL INSTALLATION, EXCEPT FOR THE #10 TURNOUTS TO INDUSTRY TRACK 1 AND ROHR SPUR TRACK
TRACK 701	T701	CIVIL CONTRACTOR	THE #10 TURNOUTS TO INDUSTRY TRACK 1 AND ROHR SPUR TRACK

SCHEDULE OF WORK - FINAL STAGE

TRACK	ABBREVIATION	CONSTRUCTOR	LIMITS OF WORK
SHOOFLY TRACK 1	SF1	UPRR	FROM EXISTING TRACK TO 13' CLEAR POINT AT WEST AND EAST ENDS, ~~AND CROSSING PANEL REMOVAL~~ 3
SHOOFLY TRACK 1	SF1	CIVIL CONTRACTOR	BETWEEN THE 13' CLEAR POINTS, **INCLUDING CROSSING PANEL REMOVAL** 3
SHOOFLY TRACK 2	SF2	UPRR	FROM EXISTING TRACK TO 13' CLEAR POINT AT WEST AND EAST ENDS, ~~AND CROSSING PANEL REMOVAL~~ 3
SHOOFLY TRACK 2	SF2	CIVIL CONTRACTOR	BETWEEN THE 13' CLEAR POINTS, **INCLUDING CROSSING PANEL REMOVAL** 3
SHOOFLY TRACK 701	SF701	UPRR	FROM EXISTING TRACK TIE-IN TO POINT OF SWITCH OF #9 TURNOUT (WEST END) FROM 13' CLEAR POINT TO EXISTING TRACK TIE-IN AT EAST END, ~~AND CROSSING PANEL REMOVAL~~ 3
SHOOFLY TRACK 701	SF701	CIVIL CONTRACTOR	BETWEEN THE POINT OF SWITCH OF #9 TURNOUT (WEST END) AND THE 13' CLEAR POINT (EAST END), **INCLUDING CROSSING PANEL REMOVAL** 3
INDUSTRY SHOOFLY TRACK 1	IST1	UPRR	THE #9 TURNOUT FROM SHOOFLY TRACK 701
INDUSTRY SHOOFLY TRACK 1	IST1	CIVIL CONTRACTOR	ALL TRACKWORK EXCEPT FOR THE #9 TURNOUT FROM SHOOFLY TRACK 701
ROHR SPUR SHOOFLY TRACK	RSST	CIVIL CONTRACTOR	ALL TRACKWORK
REALIGNED ROHR SPUR TRACK	RRST	CIVIL CONTRACTOR	ALL TRACKWORK
MAIN TRACK 1	MT1	UPRR	ALL TRACKWORK AND CROSSING PANEL REMOVAL
MAIN TRACK 2	MT2	UPRR	ALL TRACKWORK AND CROSSING PANEL REMOVAL
TRACK 701	T701	UPRR	ALL TRACKWORK AND CROSSING PANEL REMOVAL, EXCEPT FOR THE #11 TURNOUTS TO INDUSTRY TRACK 1 AND REALIGNED ROHR SPUR TRACK
TRACK 701	T701	CIVIL CONTRACTOR	THE #11 TURNOUTS TO INDUSTRY TRACK 1 AND REALIGNED ROHR SPUR TRACK

AS BUILT 1-20-10

PATTERSON & ASSOCIATES, INC. CIVIL • TRANSPORTATION • ENGINEERING
725 TOWN & COUNTRY ROAD SUITE 300 ORANGE, CA 92868

DMJM HARRIS | AECOM
999 Town & Country Road Orange, CA 92868 T 714.567.2501 F 714.567.2441

REGISTERED PROFESSIONAL ENGINEER MORTEZA A. GHANDEHARI No. C042150 EXP. 03/31/08 CIVIL STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE
4	Revised Schedule wording	F.M.	4/24/07
3	Revised notes 5, 7 & 8	F.M.	8/28/07
1	Revised notes	F.M.	12/21/07

DESIGNED BY PM DRAWN BY SR CHECKED BY JLP

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER	F.M.	12/27/07
CONST. CONTRACT ADMIN		
STREET SERVICES		
SURVEYOR	—	—
TRAFFIC DIVISION	C.K.	12-27-07
PARKS DEPARTMENT	—	—

APPROVED BY _____ CITY ENGINEER
DATE 12/29/08

JURUPA AVENUE UNDERPASS
PHASE II CONSTRUCTION

DELINEATION OF RAILROAD WORK

SCALE: NOT TO SCALE

R-3634
RP-14

OCTOBER 9, 2006

12/26/06 4:11:41 PM J:\HV\PROJECTS\Jurupa\Drawings\1001rp14.sht