Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1471	1931

Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER — PATRICK NICHOLSON — No. C 40993 — Exp. 3-31-2013 — CIVIL — STATE OF CALIFORNIA

05-21-12
PLANS APPROVAL DATE

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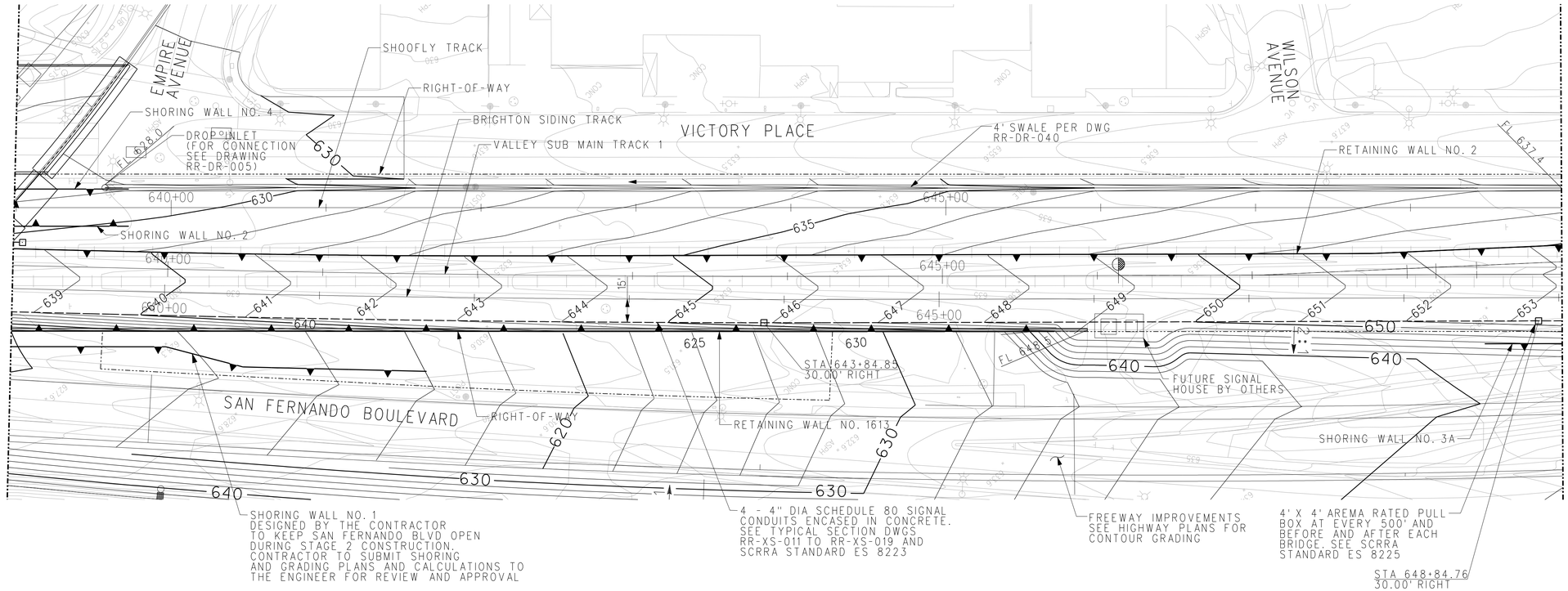
SAN DIMAS, CA 91773

AECOM
515 SOUTH FLOWER ST. 4th FLOOR
LOS ANGELES, CA 90071

MATCH LINE STA. 639+00.00
SEE DRAWING RR-GP-024



MATCH LINE STA. 649+00.00
SEE DRAWING RR-GP-026

SHORING WALL NO. 1
DESIGNED BY THE CONTRACTOR TO KEEP SAN FERNANDO BLVD OPEN DURING STAGE 2 CONSTRUCTION. CONTRACTOR TO SUBMIT SHORING AND GRADING PLANS AND CALCULATIONS TO THE ENGINEER FOR REVIEW AND APPROVAL

4 - 4" DIA SCHEDULE 80 SIGNAL CONDUITS ENCASED IN CONCRETE. SEE TYPICAL SECTION DWGS RR-XS-011 TO RR-XS-019 AND SCRRA STANDARD ES 8223

FREEWAY IMPROVEMENTS SEE HIGHWAY PLANS FOR CONTOUR GRADING

4' X 4' AREMA RATED PULL BOX AT EVERY 500' AND BEFORE AND AFTER EACH BRIDGE. SEE SCRRA STANDARD ES 8225

STA 648+84.76 30.00' RIGHT

40 30 20 10 0 40 80
1" = 40'-0"

FOR GRADING NOTES SEE DWG RR-GP-021

APPROVED FOR RAILROAD GRADING WORK.

RR - GRADING PLAN
SHEET 5 OF 12

RR-GP-025

RAILROAD SHEET NO.	
101	OF 394

HORIZ 1"=40'

LAST REVISION 00-00-00 DATE PLOTTED => 7/17/2012 TIME PLOTTED => 5:51:46 PM PLOT DRIVER => ...\Plotdrv\SCRRA_pdfBW.plt PEN TABLE => ...\CADD\Support\pen\PlotStamp.tbl

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BRIAN BALDERRAMA	RICHARD SILOS	PATRICK NICHOLSON		

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1472	1931

Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

05-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — PATRICK NICHOLSON — No. C 40993 — Exp. 3-31-2013 — CIVIL — STATE OF CALIFORNIA

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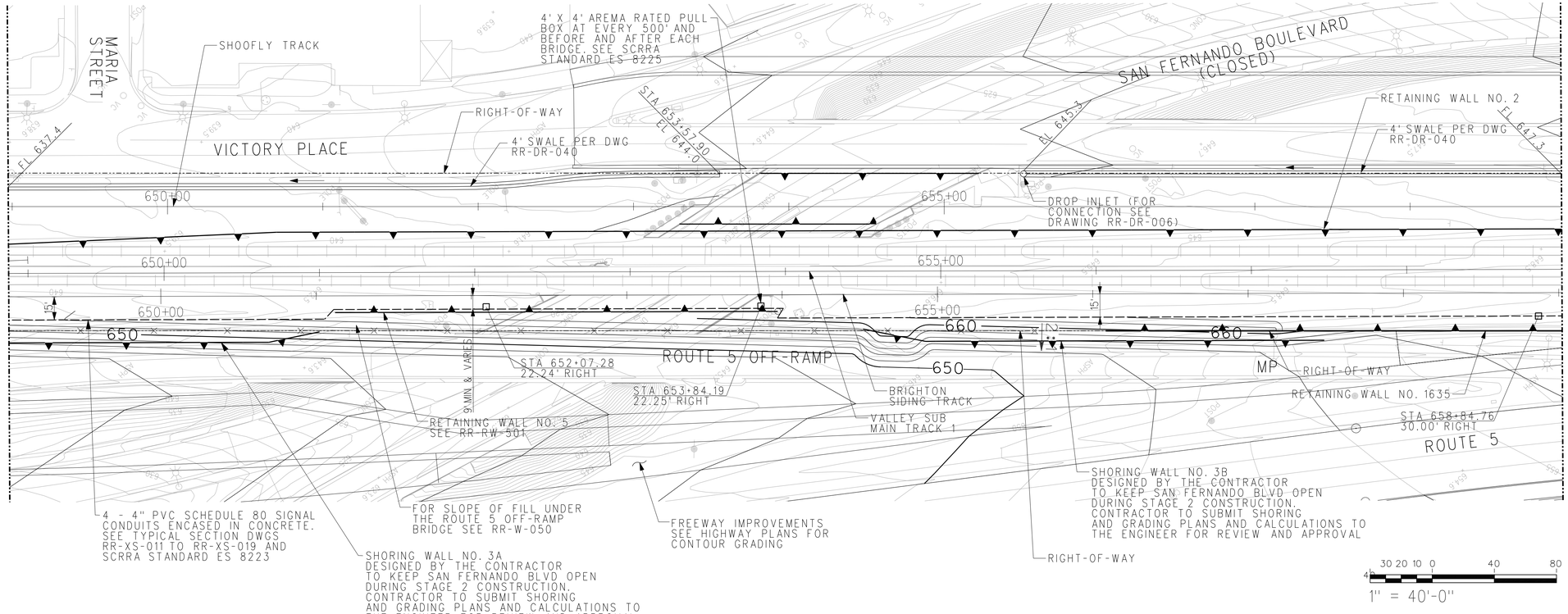
LOS ANGELES, CA 90071

MATCH LINE STA. 649+00.00
SEE DRAWING RR-GP-025



MATCH LINE STA. 659+00.00
SEE DRAWING RR-GP-027

NOTE:

1. FOR GRADING NOTES SEE DWG RR-GP-021
2. FOR CONSTRUCTION DETAILS SEE DWG RR-W-038 AND RR-W-039

APPROVED FOR RAILROAD GRADING WORK.

RR – GRADING PLAN
SHEET 6 OF 12

RR-GP-026

RAILROAD SHEET NO. 102 OF 394

HORIZ 1"=40'

LAST REVISION 00-00-00

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UNIT 1812
PROJECT NUMBER & PHASE 07000211191

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1473	1931

Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

05-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
PATRICK NICHOLSON
No. C 40993
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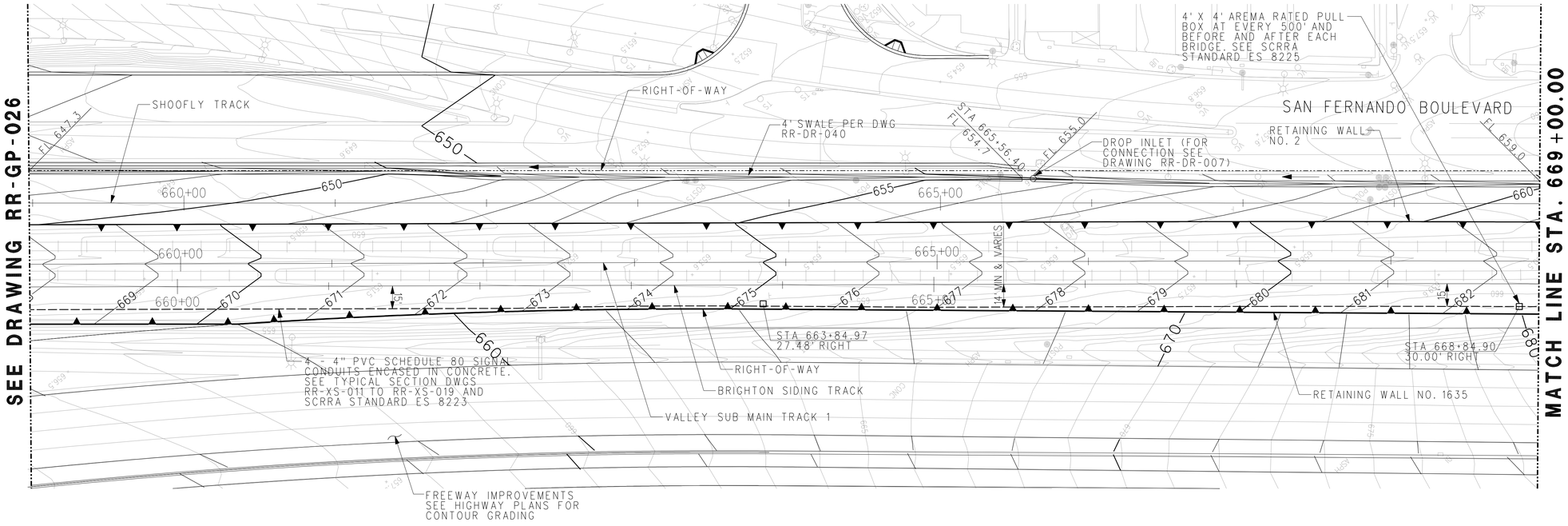

40 30 20 10 0 40 80
1" = 40'-0"

FOR GRADING NOTES SEE DWG RR-GP-021

APPROVED FOR RAILROAD GRADING WORK.

RR - GRADING PLAN
SHEET 7 OF 12

RR-GP-027

RAILROAD SHEET NO.	
103	OF 394

HORIZ 1"=40'

REVISED BY	DATE REVISED

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CONSULTANT FUNCTIONAL SUPERVISOR: PATRICK NICHOLSON
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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1812
PROJECT NUMBER & PHASE 07000211191

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1474	1931

Patrick Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

05-21-12
PLANS APPROVAL DATE

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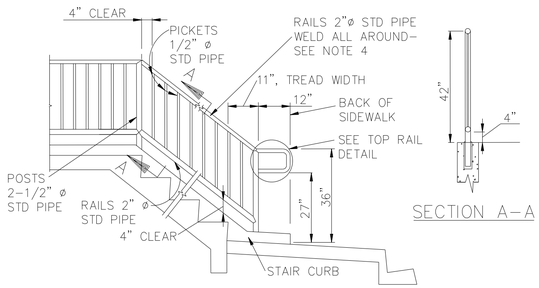
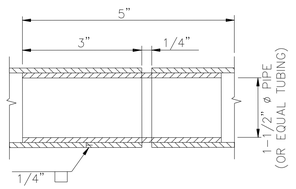
LOS ANGELES, CA 90071

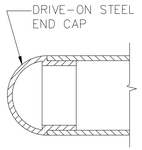


HANDRAIL INSTALLATION ON STAIRWAYS

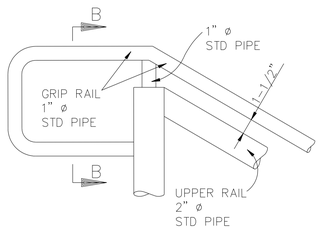
SECTION A–A



SLIP JOINT DETAIL



CAP DETAIL FOR RAIL END



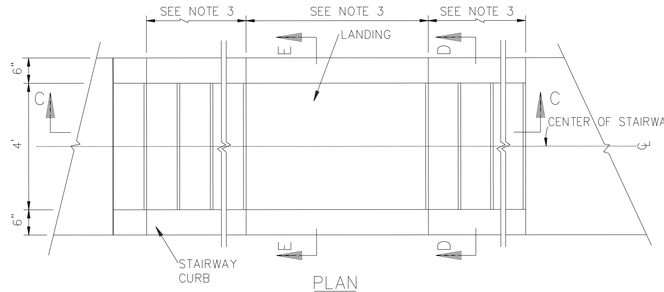
FRONT

SECTION B–B

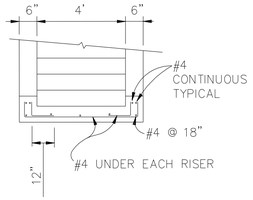
TOP RAIL DETAIL

HANDRAIL NOTES:

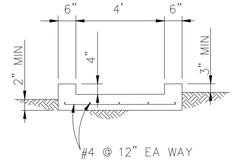
1. RAILS, POSTS, AND PICKETS SHALL BE GALVANIZED STEEL PIPE.
2. PROVIDE SLIP JOINTS AT STAIRWAY EXPANSION JOINTS, 24' MAXIMUM.
3. MAXIMUM SPACING OF POSTS SHALL BE 8'–0" ON STRAIGHT ALIGNMENTS, AND 6'–0" ON CURVED ALIGNMENTS WITH LESS THAN 30' RADIUS. MAKE SPACING UNIFORM BETWEEN CHANGES IN ALIGNMENT.
4. WELDS SHALL BE SLOT OR FILLET WELDS EQUAL TO THICKNESS OF PIPE. WELD ALL JOINTS ALL AROUND.



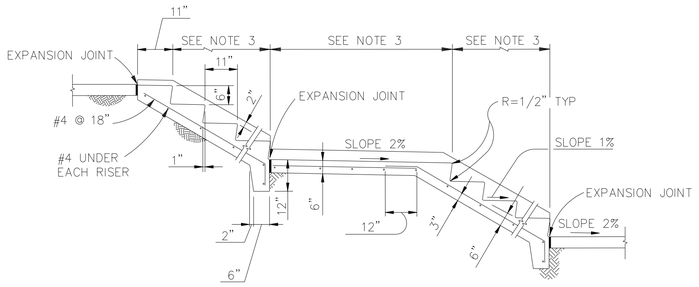
PLAN



SECTION D–D



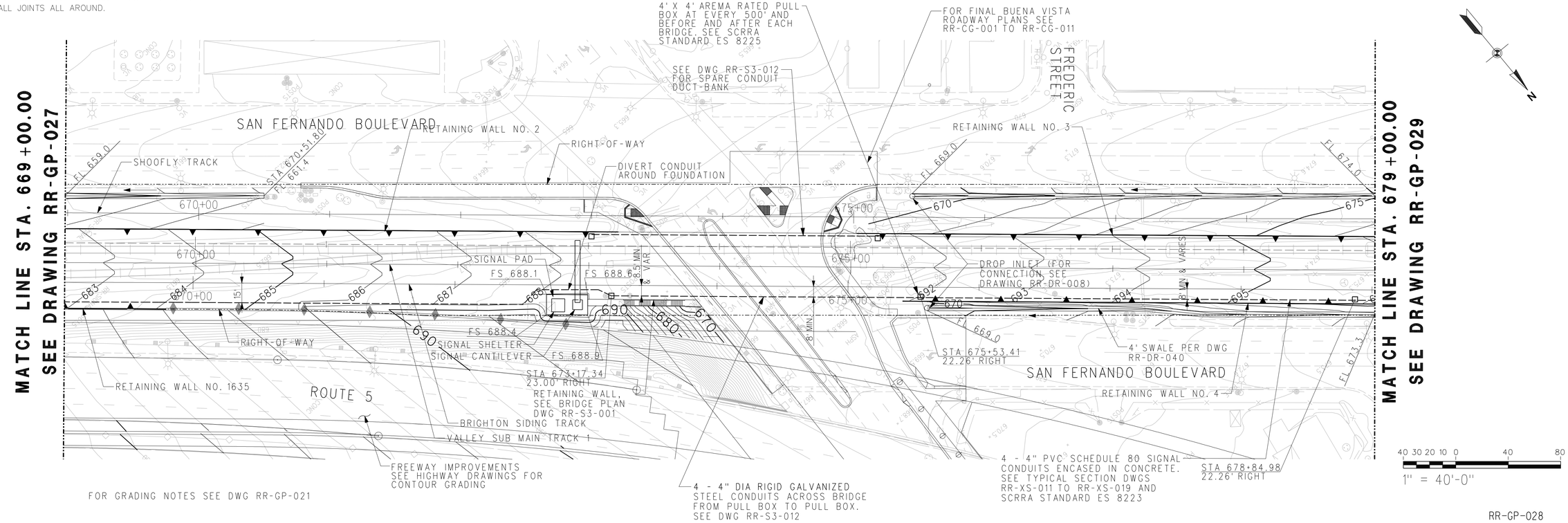
SECTION E–E



SECTION C–C

STAIRWAY NOTES:

1. CONCRETE FINISH FOR EXPOSED SURFACES SHALL BE CLASS 1, EXCEPT THAT TREADS AND LANDINGS SHALL BE TROWELLED SMOOTH AND GIVEN A FINE BROOM FINISH IN A DIRECTION PERPENDICULAR TO THE CENTERLINE OF THE STAIRWAY. THE BROOM FINISH SHALL BE BROUGHT TO THE NOSE OF THE TREADS AND LANDINGS.
2. ONE HANDRAIL IS REQUIRED FOR STAIRWAYS 4' WIDE OR LESS. TWO HANDRAILS ARE REQUIRED FOR WIDER STAIRWAYS.
3. SEE DWG RR–CG–004 FOR STAIRWAY LAYOUT DETAILS



FOR GRADING NOTES SEE DWG RR-GP-021

RR-GP-028

RAILROAD SHEET NO. 104 OF 394

HORIZ 1"=40'

RR – GRADING PLAN
SHEET 8 OF 12

APPROVED FOR RAILROAD GRADING WORK.

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STATE OF CALIFORNIA – DEPARTMENT OF TRANSPORTATION | CONSULTANT FUNCTIONAL SUPERVISOR | REVISED BY | DATE REVISED
DESIGN | PATRICK NICHOLSON | BRIAN BALDERRAMA | RICHARD SILOS

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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1812
PROJECT NUMBER & PHASE 07000211191

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1475	1931

Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

PATRICK NICHOLSON
No. C 40993
Exp. 3-31-2013
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

05-21-12
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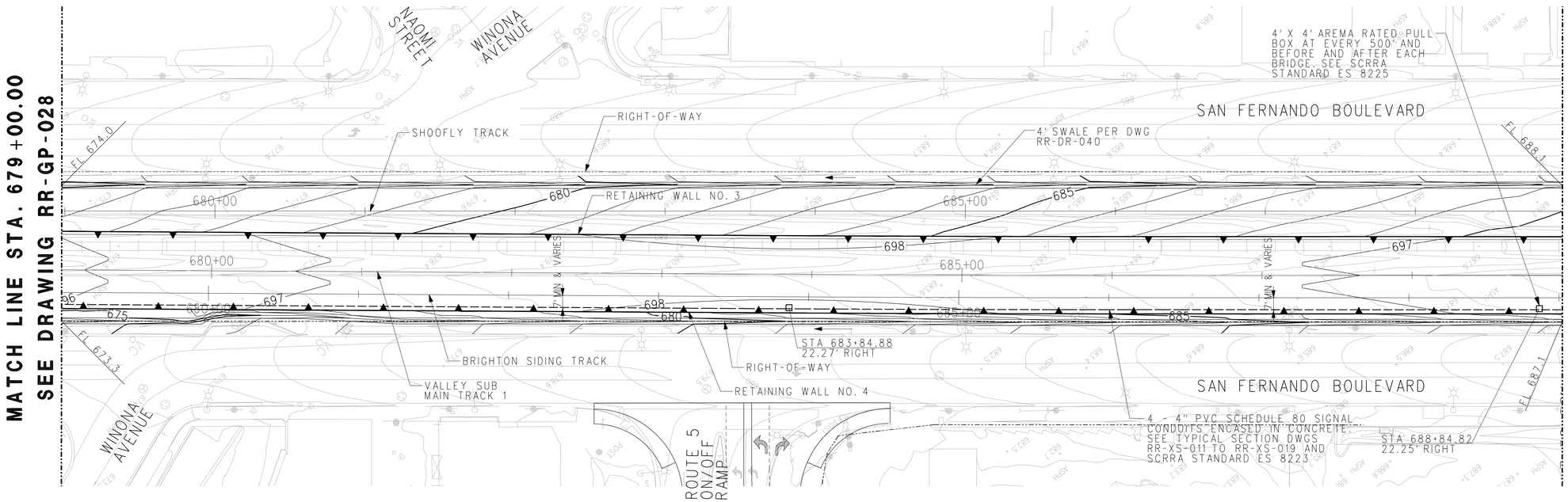
LOS ANGELES, CA 90071



FOR GRADING NOTES SEE DWG RR-GP-021

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1" = 40'-0"

RR-GP-029

RAILROAD SHEET NO.
105 OF 394

HORIZ 1"=40'

RR – GRADING PLAN
SHEET 9 OF 12

APPROVED FOR RAILROAD GRADING WORK.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN

CONSULTANT FUNCTIONAL SUPERVISOR: PATRICK NICHOLSON

CALCULATED-DESIGNED BY: BRIAN BALDERRAMA
CHECKED BY: RICHARD SILOS

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UNIT 1812
PROJECT NUMBER & PHASE 07000211191

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1476	1931

Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

PATRICK NICHOLSON No. C 40993 Exp. 3-31-2013 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

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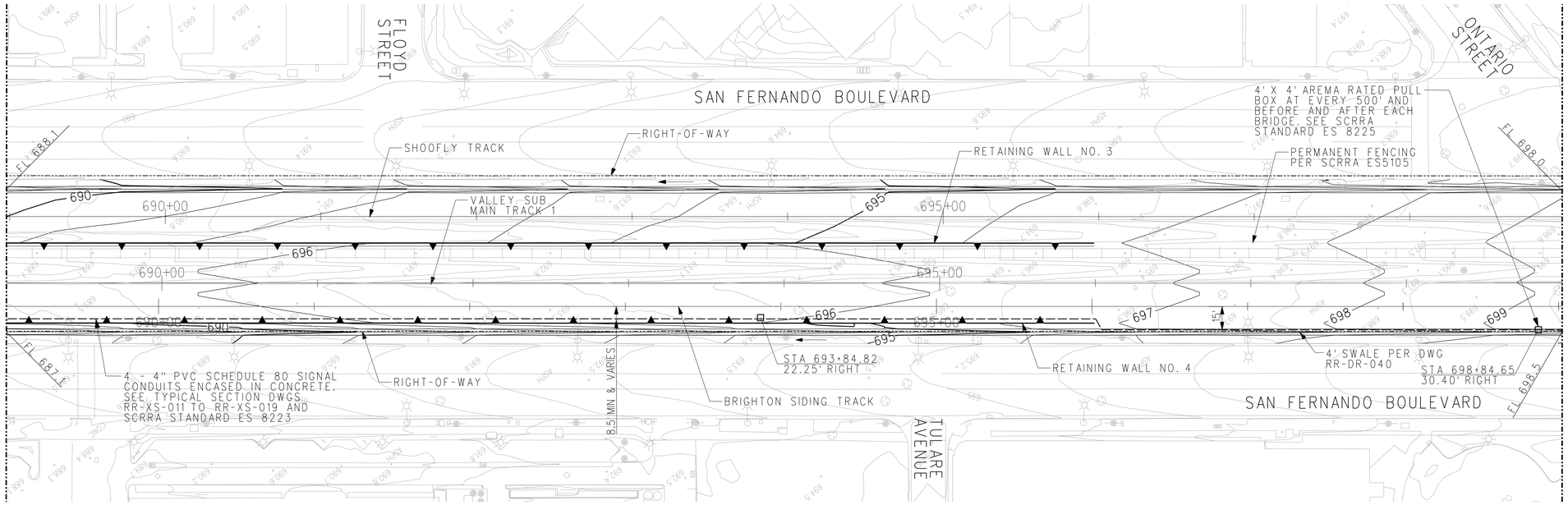
MATCH LINE STA. 689+00.00
SEE DRAWING RR-GP-029



MATCH LINE STA. 699+00.00
SEE DRAWING RR-GP-031

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1" = 40'-0"

FOR GRADING NOTES SEE DWG RR-GP-021

RR-GP-030
RAILROAD SHEET NO. 106 OF 394
HORIZ 1"=40'

RR - GRADING PLAN
SHEET 10 OF 12

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CHECKED BY: RICHARD SILOS
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DATE REVISED

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UNIT 1812
PROJECT NUMBER & PHASE 07000211191

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1477	1931

07-16-12

Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

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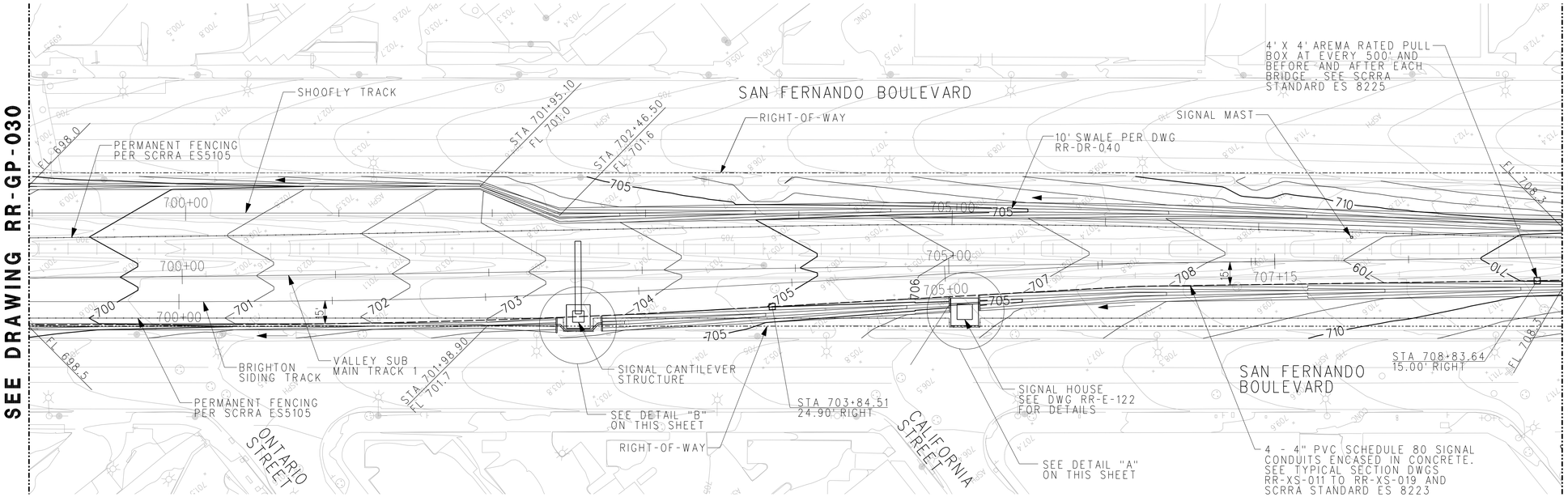

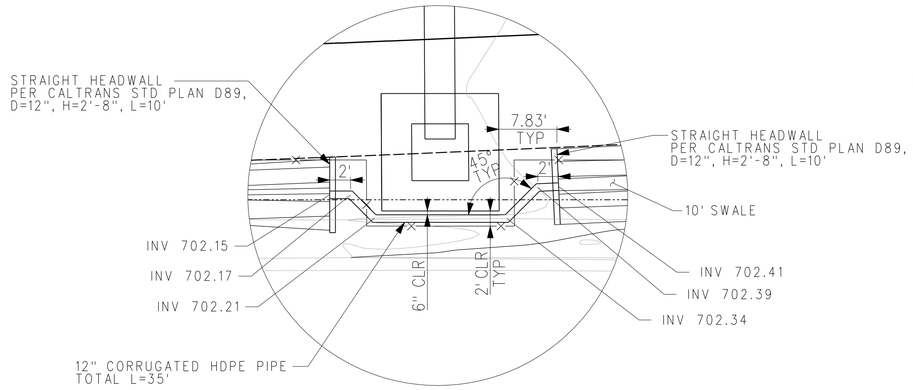

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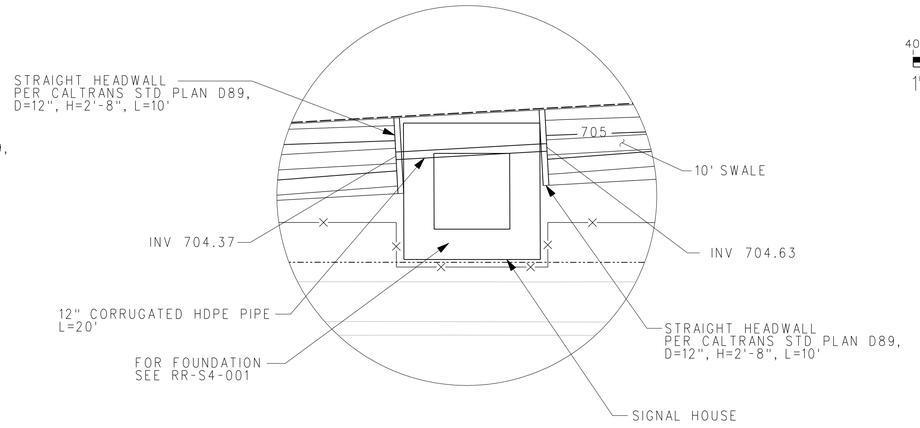

DETAIL "A"

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1" = 40'-0"

FOR GRADING NOTES SEE DWG RR-GP-021

RR-GP-031

RAILROAD SHEET NO. 107 OF 394

HORIZ 1"=40'

RR - GRADING PLAN
SHEET 11 OF 12

APPROVED FOR RAILROAD GRADING WORK.

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PROJECT NUMBER & PHASE 07000211191

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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Patrick Nicholson 05-21-12
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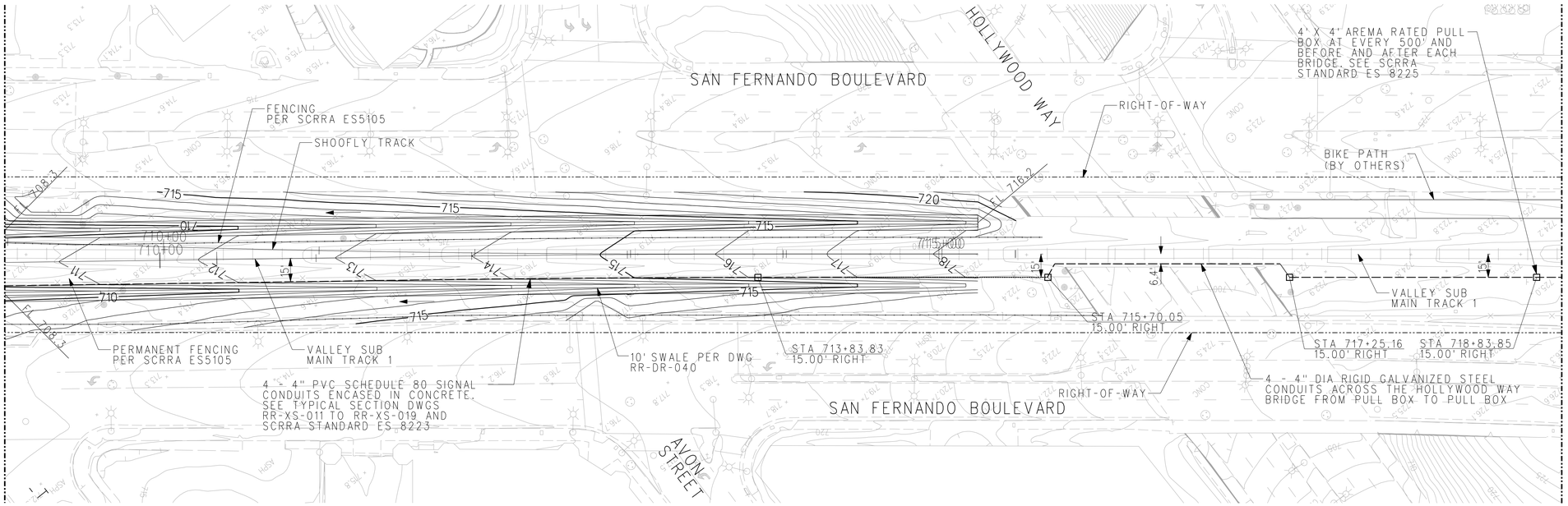
MATCH LINE STA. 709+00.00
SEE DRAWING RR-GP-031



MATCH LINE STA. 719+00.00
SEE DRAWING RR-E-503
FOR CONTINUATION OF SIGNAL CONDUIT

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1" = 40'-0"

FOR GRADING NOTES SEE DWG RR-GP-021

RR – GRADING PLAN
SHEET 12 OF 12

RR-GP-032
RAILROAD SHEET NO. 108 OF 394
HORIZ 1"=40'

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UNIT 1812
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Pat Nicholson 05-21-12
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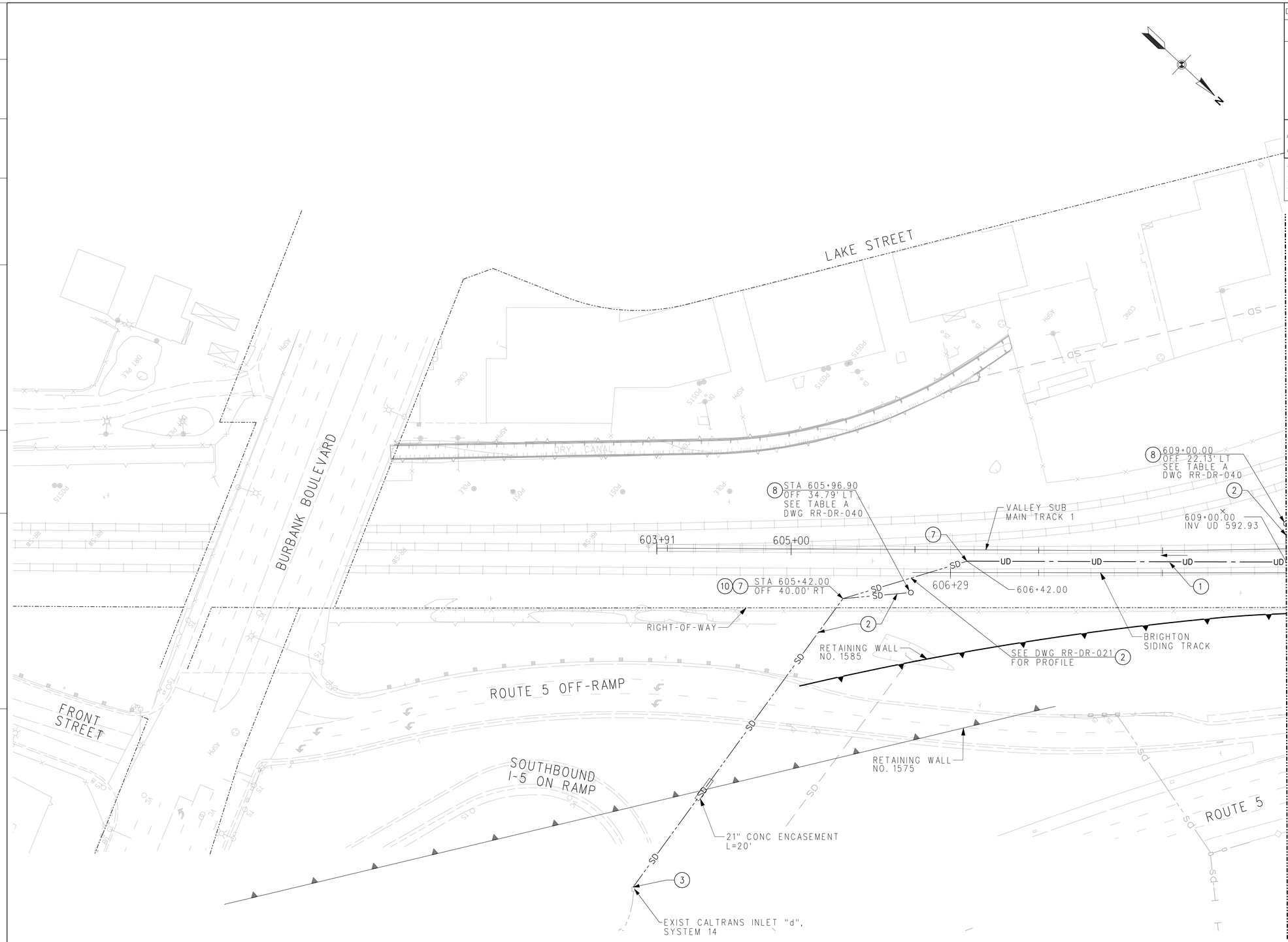
LOS ANGELES, CA 90071



NOTES:

1) FOR STORM DRAIN LATERAL PROFILES SEE DWGS RR-DR-021 TO RR-DR-027

2) FOR TRACKS ALIGNMENT AND PROFILE SEE DWGS RR-CT-001 TO RR-CT-032

3) FOR RETAINING WALLS LAYOUT AND PROFILE SEE DWGS RR-RW-099 TO RR-RW-902

CONSTRUCTION NOTES:

1. 12" CORRUGATED PERFORATED HDPE PIPE
2. 12" CORRUGATED HDPE PIPE
3. 12" CORRUGATED HDPE PIPE WITH L-3 COLLAR PER DETAIL ON DWG RR-DR-041
4. 6" CORRUGATED HDPE PIPE
5. 8" CORRUGATED HDPE PIPE
6. 12" CORRUGATED HDPE PIPE WITH L-2 COLLAR PER DETAIL ON DWG RR-DR-041
7. UNDERDRAIN CLEANOUT PER DETAIL ON DWG RR-DR-040
8. CSP DROP INLET PER DETAIL ON DWG RR-DR-040
9. NOT USED
10. 12" HDPE Y CONNECTION
11. NOT USED
12. 8" CORRUGATED PERFORATED HDPE UNDERDRAIN PER CALTRANS STD D102

40 30 20 10 0 40 80
1" = 40'-0"

RR-DR-001

RAILROAD SHEET NO. 109 OF 394

HORIZ 1"=40'

RR - DRAINAGE PLAN
SHEET 1 OF 12

APPROVED FOR RAILROAD DRAINAGE WORK.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
DESIGN

CONSULTANT FUNCTIONAL SUPERVISOR: PATRICK NICHOLSON

CALCULATED-DESIGNED BY
CHECKED BY
VYACHESLAV KOZITSKY
RICHARD SILOS

REVISED BY
DATE REVISED

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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1812
PROJECT NUMBER & PHASE 07000211191

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1480	1931

Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

05-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
PATRICK NICHOLSON
No. C 40993
Exp. 3-31-2013
CIVIL
STATE OF CALIFORNIA

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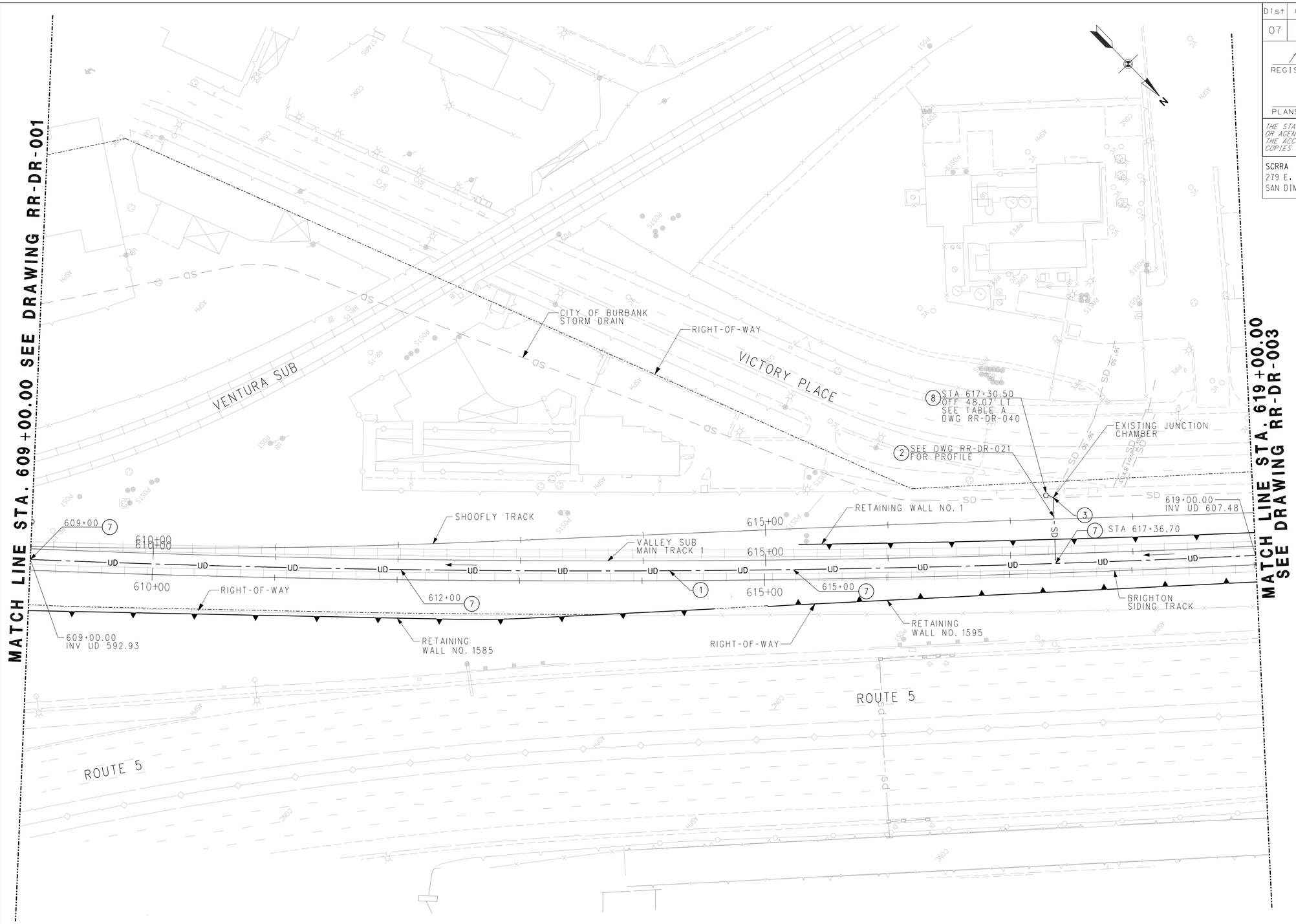
SCRRA
279 E. ARROW HIGHWAY
SAN DIMAS, CA 91773

AECOM
515 SOUTH FLOWER ST, 4th FLOOR
LOS ANGELES, CA 90071



CONSTRUCTION NOTES:

FOR CONSTRUCTION NOTES SEE DWG RR-DR-001

40 30 20 10 0 40 80
1" = 40'-0"

RR-DR-002

RAILROAD SHEET NO. 110 OF 394

HORIZ 1"=40'

RR - DRAINAGE PLAN
SHEET 2 OF 12

APPROVED FOR RAILROAD DRAINAGE WORK.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

CONSULTANT FUNCTIONAL SUPERVISOR: PATRICK NICHOLSON
CALCULATED-DESIGNED BY: VYACHESLAV KOZITSKY
CHECKED BY: RICHARD SILOS
REVISED BY
DATE REVISED

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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1812
PROJECT NUMBER & PHASE 07000211191

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1481	1931

Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

05-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
PATRICK NICHOLSON
No. C 40993
Exp. 3-31-2013
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AECOM
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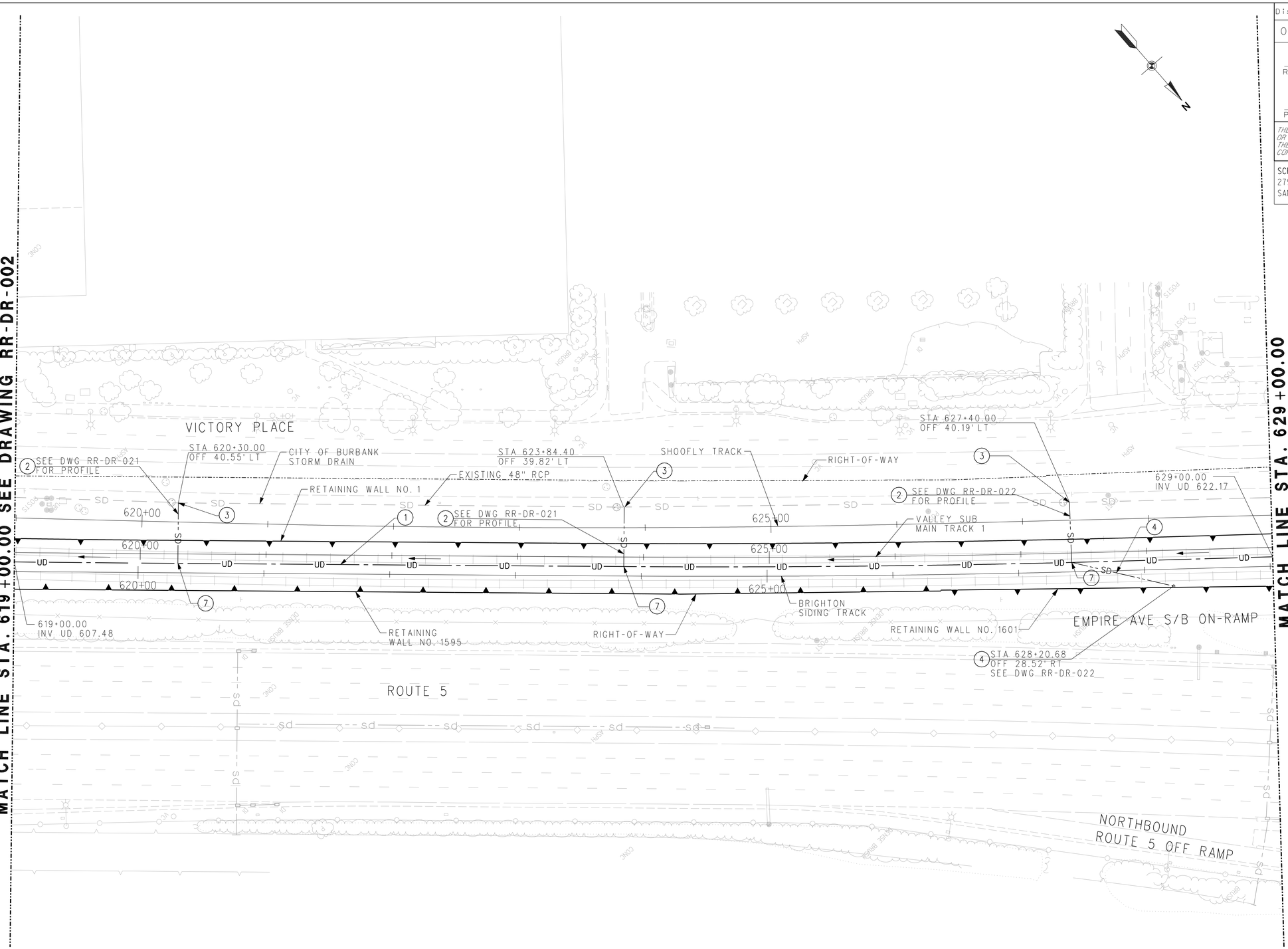
LOS ANGELES, CA 90071



CONSTRUCTION NOTES:

FOR CONSTRUCTION NOTES SEE DWG RR-DR-001

40 30 20 10 0 40 80
1" = 40'-0"

RR-DR-003

RAILROAD SHEET NO. 111 OF 394

HORIZ 1"=40'

RR - DRAINAGE PLAN
SHEET 3 OF 12

APPROVED FOR RAILROAD DRAINAGE WORK.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
CONSULTANT FUNCTIONAL SUPERVISOR: PATRICK NICHOLSON
CALCULATED-DESIGNED BY: VYACHESLAV KOZITSKY
CHECKED BY: RICHARD SILOS
REVISED BY
DATE REVISED

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UNIT 1812
PROJECT NUMBER & PHASE 07000211191

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1482	1931

Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

05-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
PATRICK NICHOLSON
No. C 40993
Exp. 3-31-2013
CIVIL
STATE OF CALIFORNIA

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279 E. ARROW HIGHWAY
SAN DIMAS, CA 91773

AECOM
515 SOUTH FLOWER ST. 4th FLOOR
LOS ANGELES, CA 90071

MATCH LINE STA. 629+00.00 SEE DRAWING RR-DR-003

MATCH LINE STA. 639+00.00 SEE DRAWING RR-DR-005

CITY OF BURBANK STORM DRAIN

RIGHT-OF-WAY

STA 631+00.00 OFF 38.33' LT

SEE DWG RR-DR-022 FOR PROFILE

630+00

630+00

630+00

VICTORY PLACE

EXISTING 48" RCP

RETAINING WALL NO.1

VALLEY SUB MAIN TRACK 1

BRIGHTON SIDING TRACK

629+00.00 INV UD 622.17

RETAINING WALL NO. 1601

RIGHT-OF-WAY

ROUTE 5

STA 634+35.70 OFF 37.22' LT

SEE DWG RR-DR-023 FOR PROFILE

STA 634+41.90 OFF 42.98' LT SEE DWG RR-DR-023 AND TABLE A DWG RR-DR-040

STA 634+36.70

635+00

635+00

635+00

RETAINING WALL NO. 1607

STORM DRAIN TO BE ABANDONED WITHIN RAILROAD ROW AND THE INTERFERING PORTIONS REMOVED. FOR THE PORTIONS REMAINING WITH THE RAILROAD ROW, FILL WITH SLURRY.

SHORING WALL NO. 1

FOR BRIDGE DECK DRAINAGE CONNECTION SEE DETAIL "A" ON SHEET RR-DR-042

FOR STORM DRAIN FACILITIES SEE HIGHWAY PLANS

SEE DWG RR-DR-023 FOR PROFILE

STA 638+89.92

SHORING WALL NO. 4

SHORING WALL NO. 2

SHOOFLY TRACK

636+18.50 INV UD 632.74

RETAINING WALL NO. 8

RIGHT-OF-WAY

FOR STORM DRAIN FACILITIES SEE HIGHWAY PLANS

SAN FERNANDO BOULEVARD

RETAINING WALL NO. 1613

STA 638+80.2 OFF 41.98' RT SEE DWG RR-DR-023

SEE DWG RR-DR-023 FOR PROFILE

PROPOSED MH

639+00.00 INV UD 636.86

CONSTRUCTION NOTES:

FOR CONSTRUCTION NOTES SEE DWG RR-DR-001

40 30 20 10 0 40 80
1" = 40'-0"

RR-DR-004

RAILROAD SHEET NO. 112 OF 394

HORIZ 1"=40'

RR - DRAINAGE PLAN
SHEET 4 OF 12

APPROVED FOR RAILROAD DRAINAGE WORK.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION | DESIGN | CONSULTANT FUNCTIONAL SUPERVISOR: PATRICK NICHOLSON | CALCULATED-DESIGNED BY: RICHARD SILOS | CHECKED BY: VYACHESLAV KOZITSKY | REVISED BY | DATE REVISED

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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1812
PROJECT NUMBER & PHASE 07000211191

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1483	1931

Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

05-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — PATRICK NICHOLSON — No. C 40993 — Exp. 3-31-2013 — CIVIL — STATE OF CALIFORNIA

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SAN DIMAS, CA 91773

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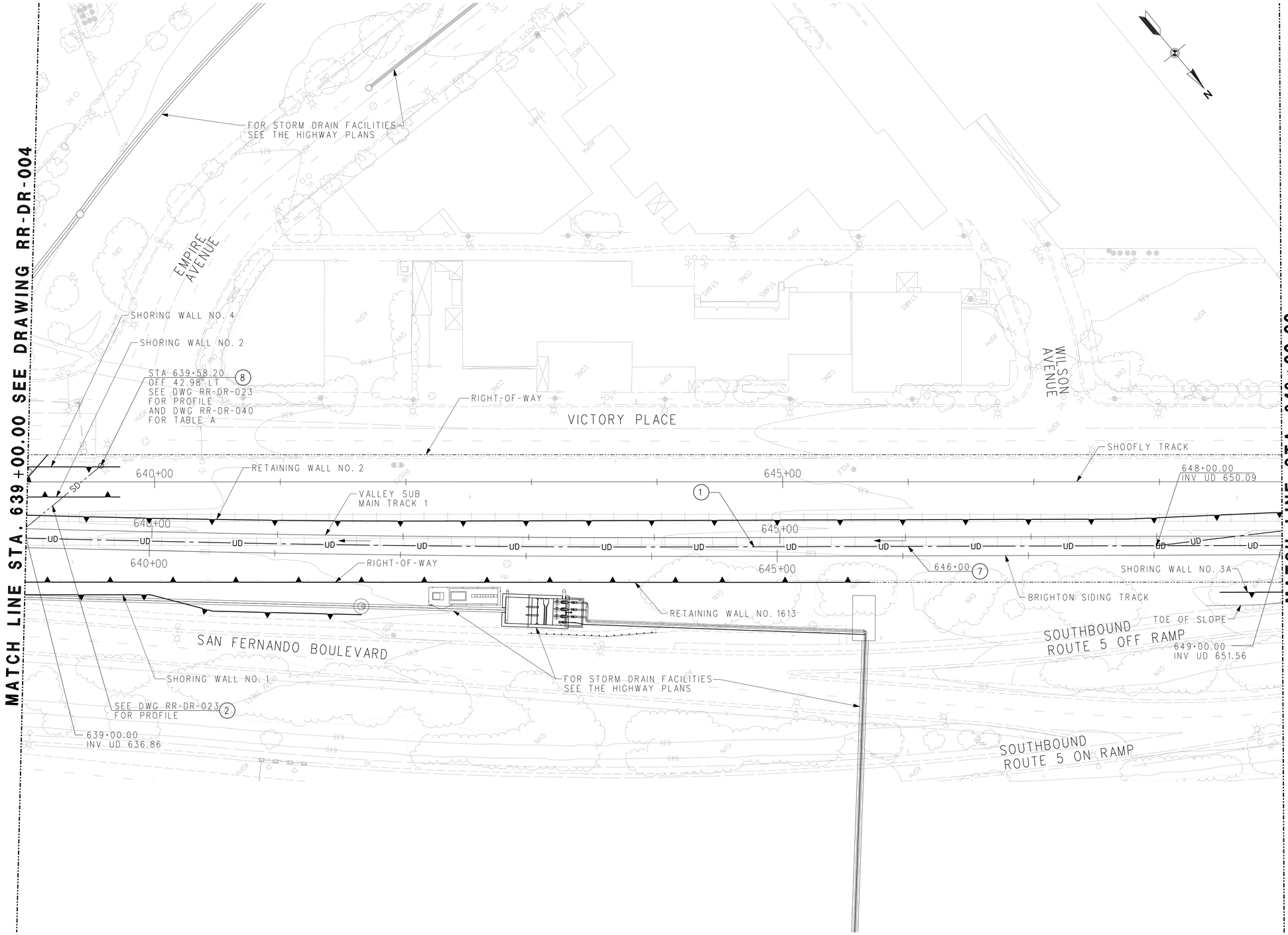
LOS ANGELES, CA 90071



CONSTRUCTION NOTES:

FOR CONSTRUCTION NOTES SEE DWG RR-DR-001

40 30 20 10 0 40 80
1" = 40'-0"

RR-DR-005

RAILROAD SHEET NO. 113 OF 394

HORIZ 1"=40'

RR - DRAINAGE PLAN
SHEET 5 OF 12

APPROVED FOR RAILROAD UTILITY WORK.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
CONSULTANT FUNCTIONAL SUPERVISOR: PATRICK NICHOLSON
CALCULATED-DESIGNED BY: YVACHESLAV KOZITSKY
CHECKED BY: RICHARD SILOS
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DATE REVISED

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UNIT 1812
PROJECT NUMBER & PHASE 07000211191

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1484	1931

Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

05-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
PATRICK NICHOLSON
No. C 40993
Exp. 3-31-2013
CIVIL
STATE OF CALIFORNIA

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SCRRA
279 E. ARROW HIGHWAY
SAN DIMAS, CA 91773

AECOM
515 SOUTH FLOWER ST. 4th FLOOR
LOS ANGELES, CA 90071

MATCH LINE STA. 649+00.00 SEE DRAWING RR-DR-005

MATCH LINE STA. 659+00.00 SEE DRAWING RR-DR-007

MARIA STREET

VICTORY PLACE

SAN FERNANDO BOULEVARD (CLOSED)

RIGHT-OF-WAY

649+00.00
INV UD 651.56

650+00

651+71.80, OFF 7.64' LT
INV UD 655.55

30" CONC ENCASEMENT
SEE RR-DR-024

EXIST CB
TO BE CAPPED

655+53.5
OFF 62.41' LT
SEE TABLE A
DWG RR-DR-040

EXIST 18" RCP

655+00

659+00.00
INV UD 666.25

SHOOFLY TRACK

RETAINING WALL NO. 2

VALLEY SUB MAIN TRACK 1

650+00

651+00

654+00

655+00

657+00

BRIGHTON SIDING TRACK

SHORING WALL NO. 3A

TOE OF SLOPE

RETAINING WALL NO. 5

STA 654+00
SEE DWG RR-DR-024
FOR DETAILS

EXIST CB
TO BE CAPPED

PROPOSED SD PROTECTION
SEE RR-DR-24

EXIST 18" RCP

EXIST JCT.
CHAMBER

EXIST 27" RCP
PROTECT IN PLACE

PUMP HOUSE

ROUTE 5 OFF-RAMP

SHORING WALL NO. 3B

RIGHT-OF-WAY

RETAINING
WALL NO. 1635

ROUTE 5

CONSTRUCTION NOTES:

FOR CONSTRUCTION NOTES SEE
DWG RR-DR-001

40 30 20 10 0 40 80
1" = 40'-0"

RR-DR-006

RAILROAD SHEET NO.
114 OF 394

HORIZ 1"=40'

RR – DRAINAGE PLAN
SHEET 6 OF 12

APPROVED FOR RAILROAD DRAINAGE WORK.

STATE OF CALIFORNIA – DEPARTMENT OF TRANSPORTATION
DESIGN
CONSULTANT FUNCTIONAL SUPERVISOR: PATRICK NICHOLSON
CALCULATED-DESIGNED BY: VYACHESLAV KOZITSKY
CHECKED BY: RICHARD SILOS
REVISED BY
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UNIT 1812
PROJECT NUMBER & PHASE 07000211191

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1485	1931

Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

05-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
PATRICK NICHOLSON
No. C 40993
Exp. 3-31-2013
CIVIL
STATE OF CALIFORNIA

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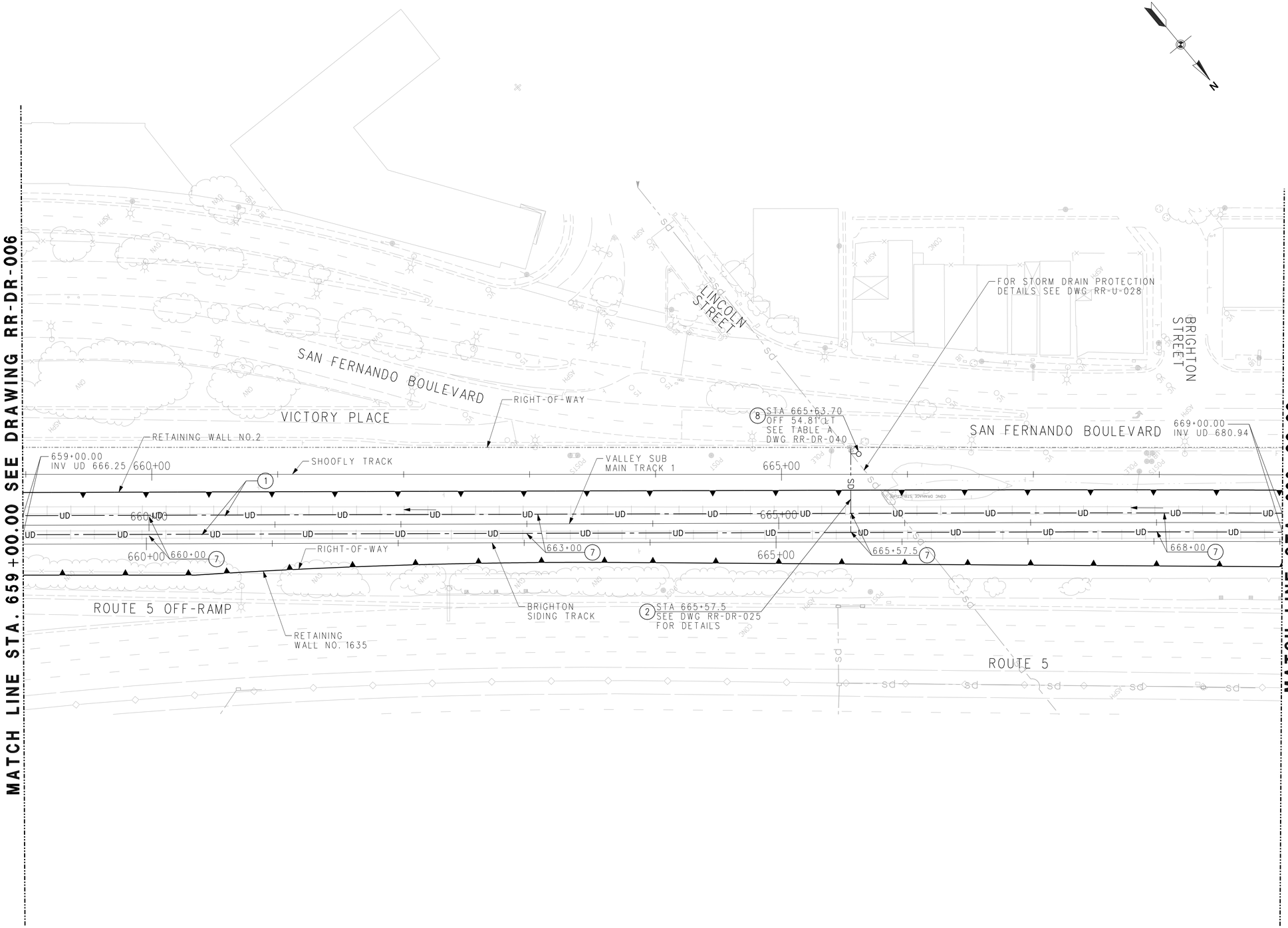
LOS ANGELES, CA 90071



CONSTRUCTION NOTES:

FOR CONSTRUCTION NOTES SEE DWG RR-DR-001

1" = 40'-0"

RR – DRAINAGE PLAN
SHEET 7 OF 12

RR-DR-007

RAILROAD SHEET NO. 115 OF 394

HORIZ 1"=40'

APPROVED FOR RAILROAD DRAINAGE WORK.

STATE OF CALIFORNIA – DEPARTMENT OF TRANSPORTATION
DESIGN
CONSULTANT FUNCTIONAL SUPERVISOR: PATRICK NICHOLSON
CALCULATED-DESIGNED BY
CHECKED BY
VYACHESLAV KOZITSKY
RICHARD SILOS
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UNIT 1812
PROJECT NUMBER & PHASE 07000211191

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1486	1931

Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

05-21-12
PLANS APPROVAL DATE

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PATRICK NICHOLSON
No. C 40993
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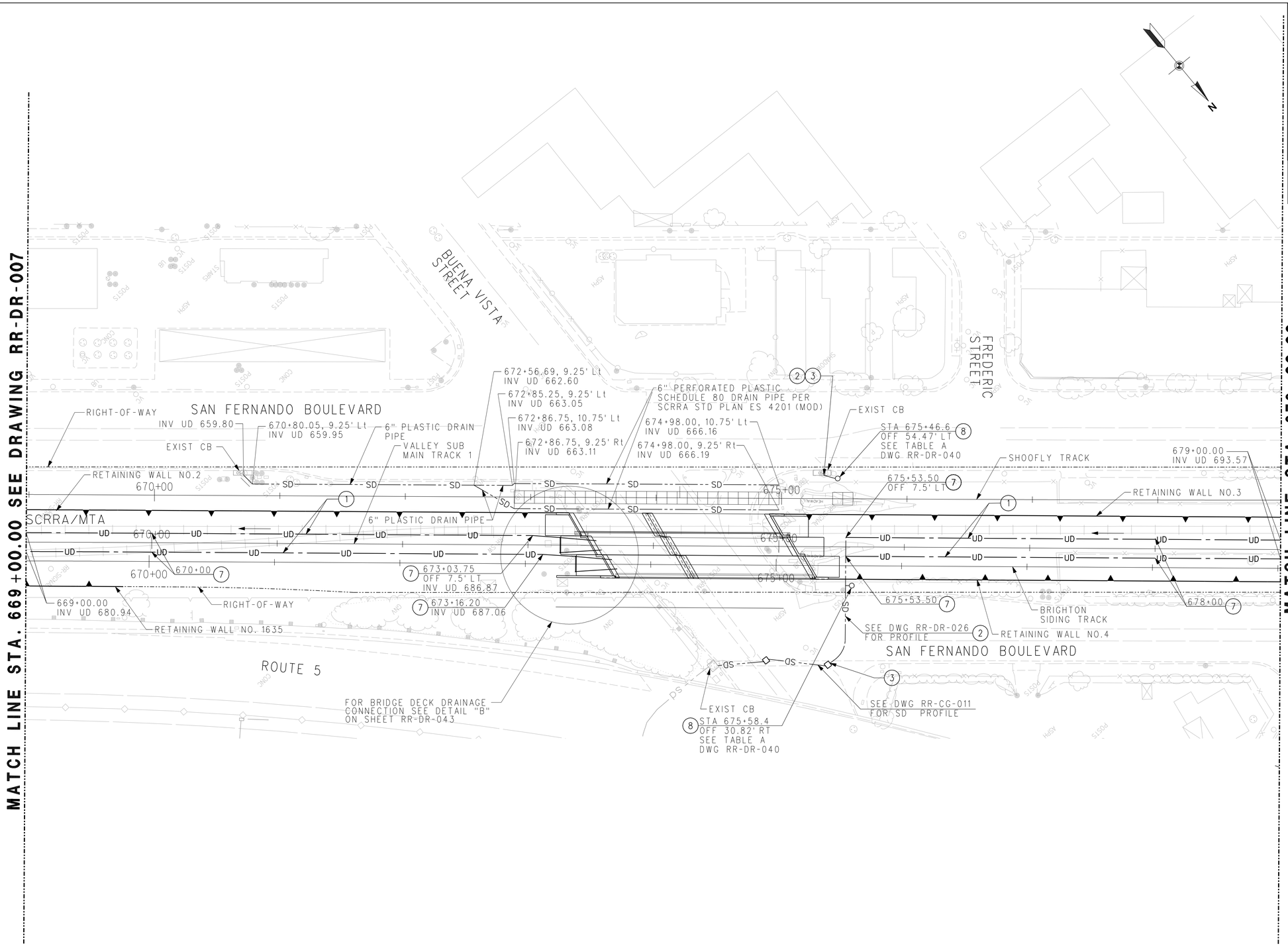

CONSTRUCTION NOTES:

FOR CONSTRUCTION NOTES SEE DWG RR-DR-001

40 30 20 10 0 40 80
1" = 40'-0"

RR-DR-008

RAILROAD SHEET NO.
116 OF 394

HORIZ 1"=40'

RR – DRAINAGE PLAN
SHEET 8 OF 12

APPROVED FOR RAILROAD DRAINAGE WORK.

STATE OF CALIFORNIA – DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN
CONSULTANT FUNCTIONAL SUPERVISOR: PATRICK NICHOLSON
CALCULATED-DESIGNED BY: VYACHESLAV KOZITSKY
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1487	1931

Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

05-21-12
PLANS APPROVAL DATE

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No. C 40993
Exp. 3-31-2013
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SCRRA
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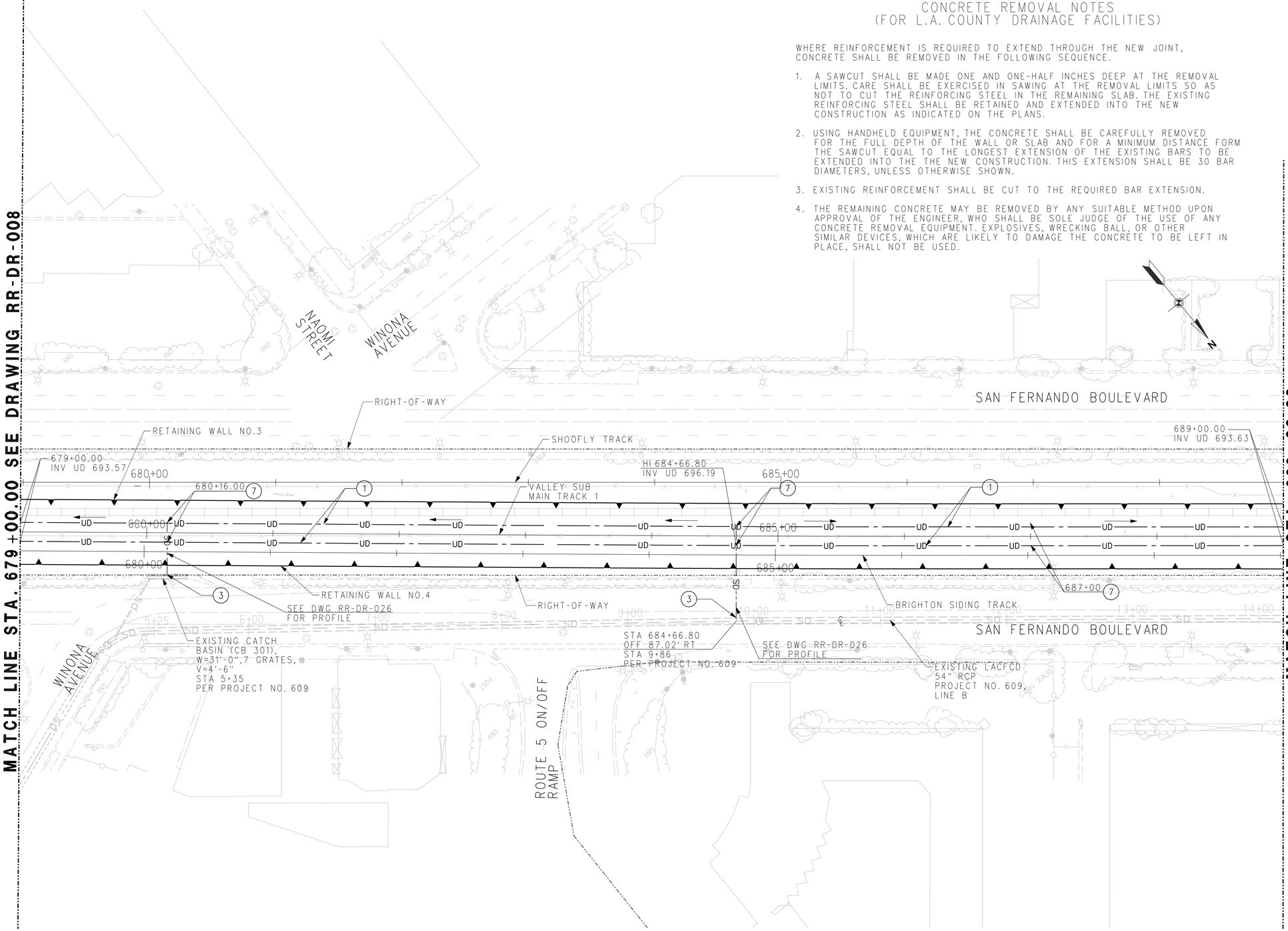
SAN DIMAS, CA 91773

AECOM
515 SOUTH FLOWER ST. 4th FLOOR
LOS ANGELES, CA 90071

CONCRETE REMOVAL NOTES
(FOR L.A. COUNTY DRAINAGE FACILITIES)

WHERE REINFORCEMENT IS REQUIRED TO EXTEND THROUGH THE NEW JOINT, CONCRETE SHALL BE REMOVED IN THE FOLLOWING SEQUENCE.

1. A SAWCUT SHALL BE MADE ONE AND ONE-HALF INCHES DEEP AT THE REMOVAL LIMITS. CARE SHALL BE EXERCISED IN SAWING AT THE REMOVAL LIMITS SO AS NOT TO CUT THE REINFORCING STEEL IN THE REMAINING SLAB. THE EXISTING REINFORCING STEEL SHALL BE RETAINED AND EXTENDED INTO THE NEW CONSTRUCTION AS INDICATED ON THE PLANS.
2. USING HANDHELD EQUIPMENT, THE CONCRETE SHALL BE CAREFULLY REMOVED FOR THE FULL DEPTH OF THE WALL OR SLAB AND FOR A MINIMUM DISTANCE FORM THE SAWCUT EQUAL TO THE LONGEST EXTENSION OF THE EXISTING BARS TO BE EXTENDED INTO THE THE NEW CONSTRUCTION. THIS EXTENSION SHALL BE 30 BAR DIAMETERS, UNLESS OTHERWISE SHOWN.
3. EXISTING REINFORCEMENT SHALL BE CUT TO THE REQUIRED BAR EXTENSION.
4. THE REMAINING CONCRETE MAY BE REMOVED BY ANY SUITABLE METHOD UPON APPROVAL OF THE ENGINEER, WHO SHALL BE SOLE JUDGE OF THE USE OF ANY CONCRETE REMOVAL EQUIPMENT. EXPLOSIVES, WRECKING BALL, OR OTHER SIMILAR DEVICES, WHICH ARE LIKELY TO DAMAGE THE CONCRETE TO BE LEFT IN PLACE, SHALL NOT BE USED.



CONSTRUCTION NOTES:

FOR CONSTRUCTION NOTES SEE DWG RR-DR-001

40 30 20 10 0 40 80
1" = 40'-0"

RR-DR-009

RAILROAD SHEET NO.
117 OF 394

HORIZ 1"=40'

RR - DRAINAGE PLAN
SHEET 9 OF 12

APPROVED FOR RAILROAD DRAINAGE WORK.

CALCULATED-DESIGNED BY	CHECKED BY	REVISED BY	DATE REVISED
VYACHESLAV KOZITSKY	RICHARD SILOS		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
Caltrans®
CONSULTANT FUNCTIONAL SUPERVISOR
PATRICK NICHOLSON

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BORDER LAST REVISED 7/2/2010
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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1812
PROJECT NUMBER & PHASE 07000211191

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1488	1931

Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

05-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — PATRICK NICHOLSON — No. C 40993 — Exp. 3-31-2013 — CIVIL — STATE OF CALIFORNIA

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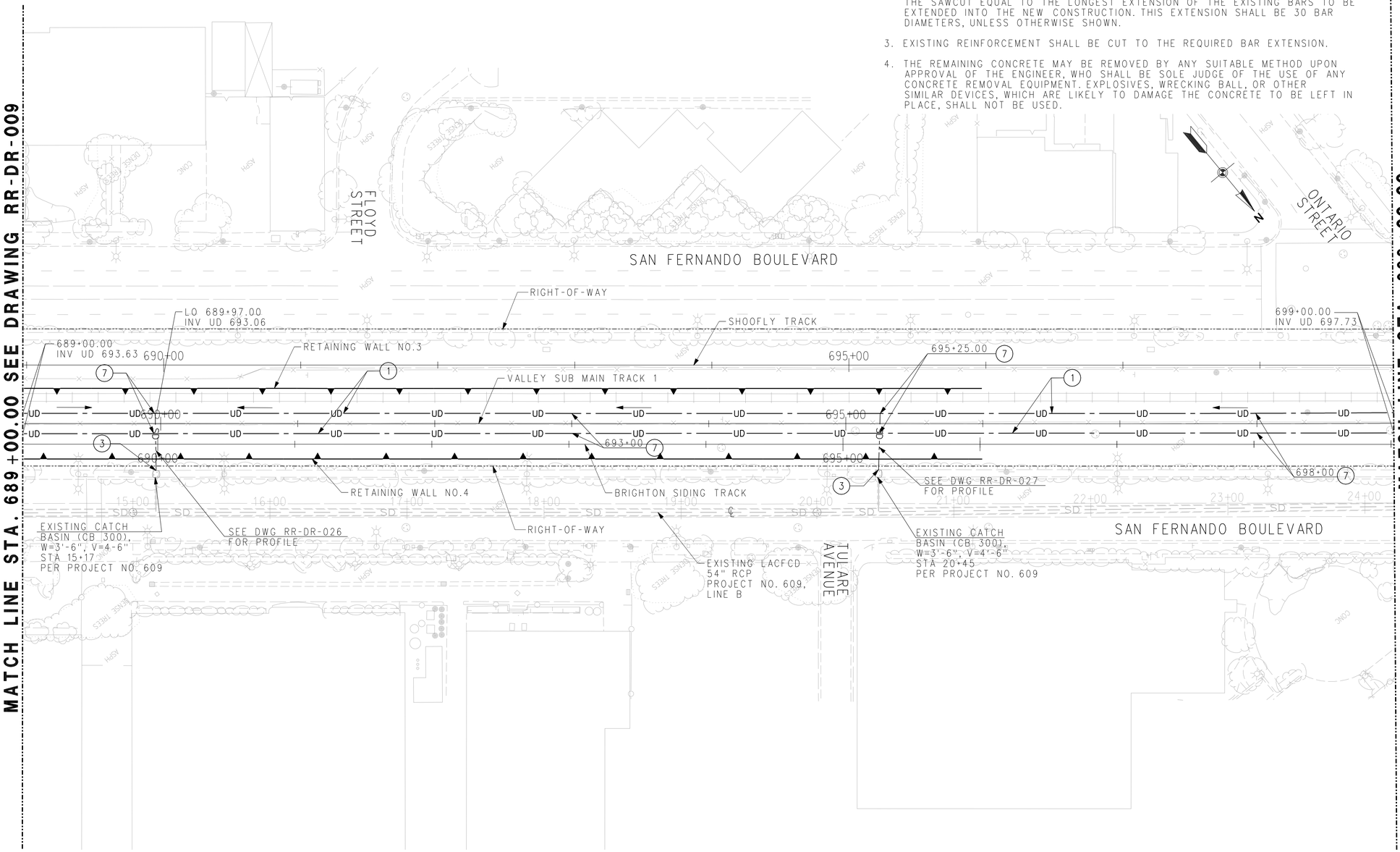
SAN DIMAS, CA 91773

AECOM
515 SOUTH FLOWER ST. 4th FLOOR
LOS ANGELES, CA 90071

CONCRETE REMOVAL NOTES
(FOR L.A. COUNTY DRAINAGE FACILITIES)

WHERE REINFORCEMENT IS REQUIRED TO EXTEND THROUGH THE NEW JOINT, CONCRETE SHALL BE REMOVED IN THE FOLLOWING SEQUENCE.

1. A SAWCUT SHALL BE MADE ONE AND ONE-HALF INCHES DEEP AT THE REMOVAL LIMITS. CARE SHALL BE EXERCISED IN SAWING AT THE REMOVAL LIMITS SO AS NOT TO CUT THE REINFORCING STEEL IN THE REMAINING SLAB. THE EXISTING REINFORCING STEEL SHALL BE RETAINED AND EXTENDED INTO THE NEW CONSTRUCTION AS INDICATED ON THE PLANS.
2. USING HANDHELD EQUIPMENT, THE CONCRETE SHALL BE CAREFULLY REMOVED FOR THE FULL DEPTH OF THE WALL OR SLAB AND FOR A MINIMUM DISTANCE FORM THE SAWCUT EQUAL TO THE LONGEST EXTENSION OF THE EXISTING BARS TO BE EXTENDED INTO THE NEW CONSTRUCTION. THIS EXTENSION SHALL BE 30 BAR DIAMETERS, UNLESS OTHERWISE SHOWN.
3. EXISTING REINFORCEMENT SHALL BE CUT TO THE REQUIRED BAR EXTENSION.
4. THE REMAINING CONCRETE MAY BE REMOVED BY any SUITABLE METHOD UPON APPROVAL OF THE ENGINEER, WHO SHALL BE SOLE JUDGE OF THE USE OF ANY CONCRETE REMOVAL EQUIPMENT. EXPLOSIVES, WRECKING BALL, OR OTHER SIMILAR DEVICES, WHICH ARE LIKELY TO DAMAGE THE CONCRETE TO BE LEFT IN PLACE, SHALL NOT BE USED.



NOTES:

FOR NOTES SEE DWG RR-DR-001

CONSTRUCTION NOTES:

FOR CONSTRUCTION NOTES SEE DWG RR-DR-001

40 30 20 10 0 40 80
1" = 40'-0"

RR-DR-010

RAILROAD SHEET NO. 118 OF 394

HORIZ 1"=40'

RR - DRAINAGE PLAN
SHEET 10 OF 12

APPROVED FOR RAILROAD DRAINAGE WORK.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION | CONSULTANT FUNCTIONAL SUPERVISOR: PATRICK NICHOLSON | CALCULATED-DESIGNED BY: VYACHESLAV KOZITSKY | CHECKED BY: RICHARD SILOS | REVISED BY | DATE REVISED

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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1812
PROJECT NUMBER & PHASE 07000211191

CONCRETE REMOVAL NOTES
(FOR L.A. COUNTY DRAINAGE FACILITIES)

WHERE REINFORCEMENT IS REQUIRED TO EXTEND THROUGH THE NEW JOINT, CONCRETE SHALL BE REMOVED IN THE FOLLOWING SEQUENCE.

1. A SAWCUT SHALL BE MADE ONE AND ONE-HALF INCHES DEEP AT THE REMOVAL LIMITS. CARE SHALL BE EXERCISED IN SAWING AT THE REMOVAL LIMITS SO AS NOT TO CUT THE REINFORCING STEEL IN THE REMAINING SLAB. THE EXISTING REINFORCING STEEL SHALL BE RETAINED AND EXTENDED INTO THE NEW CONSTRUCTION AS INDICATED ON THE PLANS.
2. USING HANDHELD EQUIPMENT, THE CONCRETE SHALL BE CAREFULLY REMOVED FOR THE FULL DEPTH OF THE WALL OR SLAB AND FOR A MINIMUM DISTANCE FORM THE SAWCUT EQUAL TO THE LONGEST EXTENSION OF THE EXISTING BARS TO BE EXTENDED INTO THE THE NEW CONSTRUCTION. THIS EXTENSION SHALL BE 30 BAR DIAMETERS, UNLESS OTHERWISE SHOWN.
3. EXISTING REINFORCEMENT SHALL BE CUT TO THE REQUIRED BAR EXTENSION.
4. THE REMAINING CONCRETE MAY BE REMOVED BY ANY SUITABLE METHOD UPON APPROVAL OF THE ENGINEER, WHO SHALL BE SOLE JUDGE OF THE USE OF ANY CONCRETE REMOVAL EQUIPMENT. EXPLOSIVES, WRECKING BALL, OR OTHER SIMILAR DEVICES, WHICH ARE LIKELY TO DAMAGE THE CONCRETE TO BE LEFT IN PLACE, SHALL NOT BE USED.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1489	1931

Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

PATRICK NICHOLSON, No. C 40993, Exp. 3-31-2013, CIVIL, REGISTERED PROFESSIONAL ENGINEER, STATE OF CALIFORNIA

05-21-12
PLANS APPROVAL DATE

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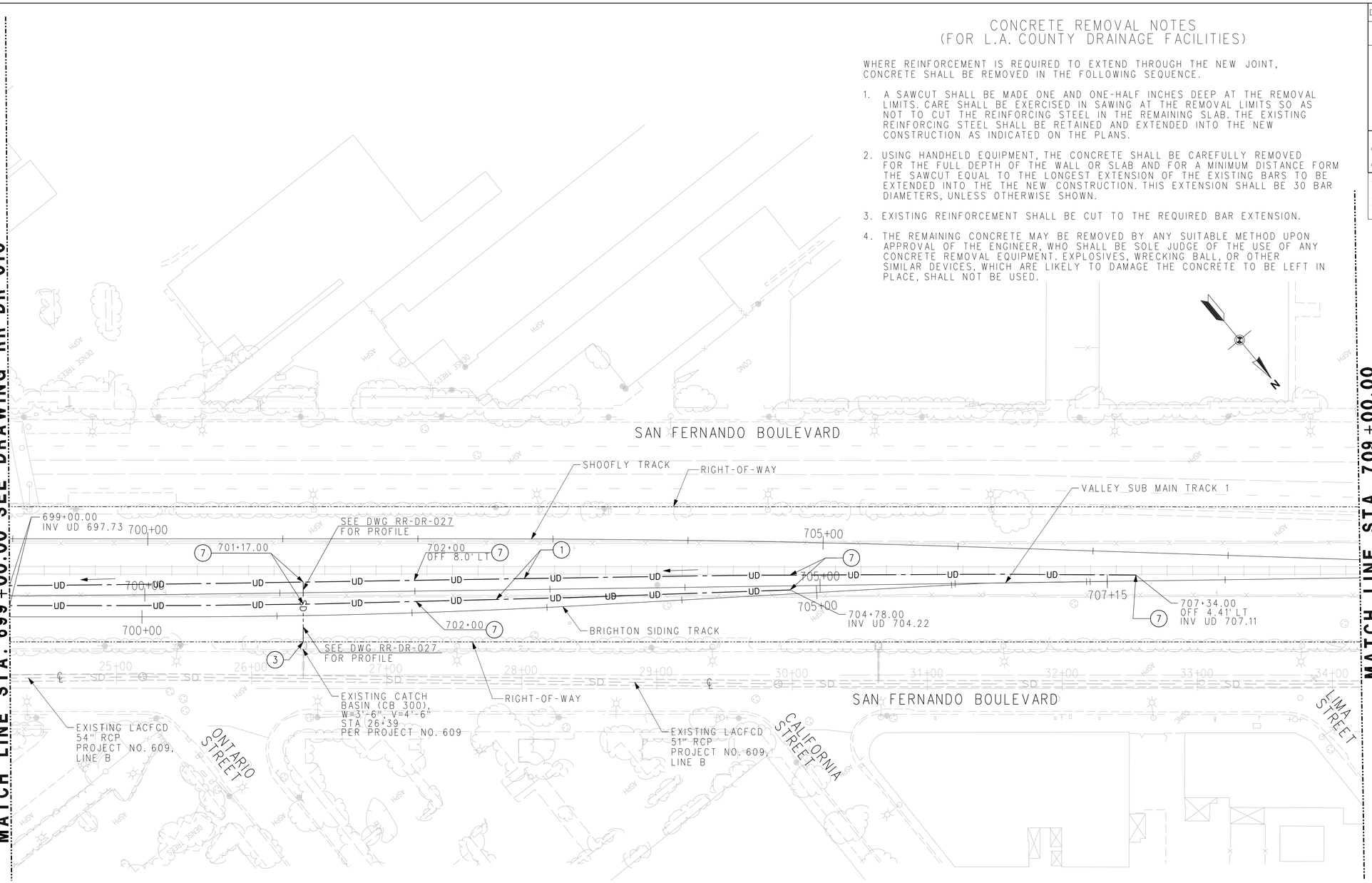
SCRRA 279 E. ARROW HIGHWAY SAN DIMAS, CA 91773	AECOM 515 SOUTH FLOWER ST. 4th FLOOR LOS ANGELES, CA 90071

MATCH LINE STA. 699+00.00 SEE DRAWING RR-DR-010



MATCH LINE STA. 709+00.00 SEE DRAWING RR-DR-012

CONSTRUCTION NOTES:

FOR CONSTRUCTION NOTES SEE DWG RR-DR-001

40 30 20 10 0 40 80
1" = 40'-0"

RR-DR-011

RAILROAD SHEET NO. 119 OF 394

HORIZ 1"=40'

RR - DRAINAGE PLAN
SHEET 11 OF 12

APPROVED FOR RAILROAD DRAINAGE WORK.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION | CONSULTANT FUNCTIONAL SUPERVISOR: PATRICK NICHOLSON | CALCULATED-DESIGNED BY: RICHARD SILOS | CHECKED BY: VYACHESLAV KOZITSKY | REVISED BY | DATE REVISED | DESIGN

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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1812
PROJECT NUMBER & PHASE 07000211191

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1490	1931

Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

05-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
PATRICK NICHOLSON
No. C 40993
Exp. 3-31-2013
CIVIL
STATE OF CALIFORNIA

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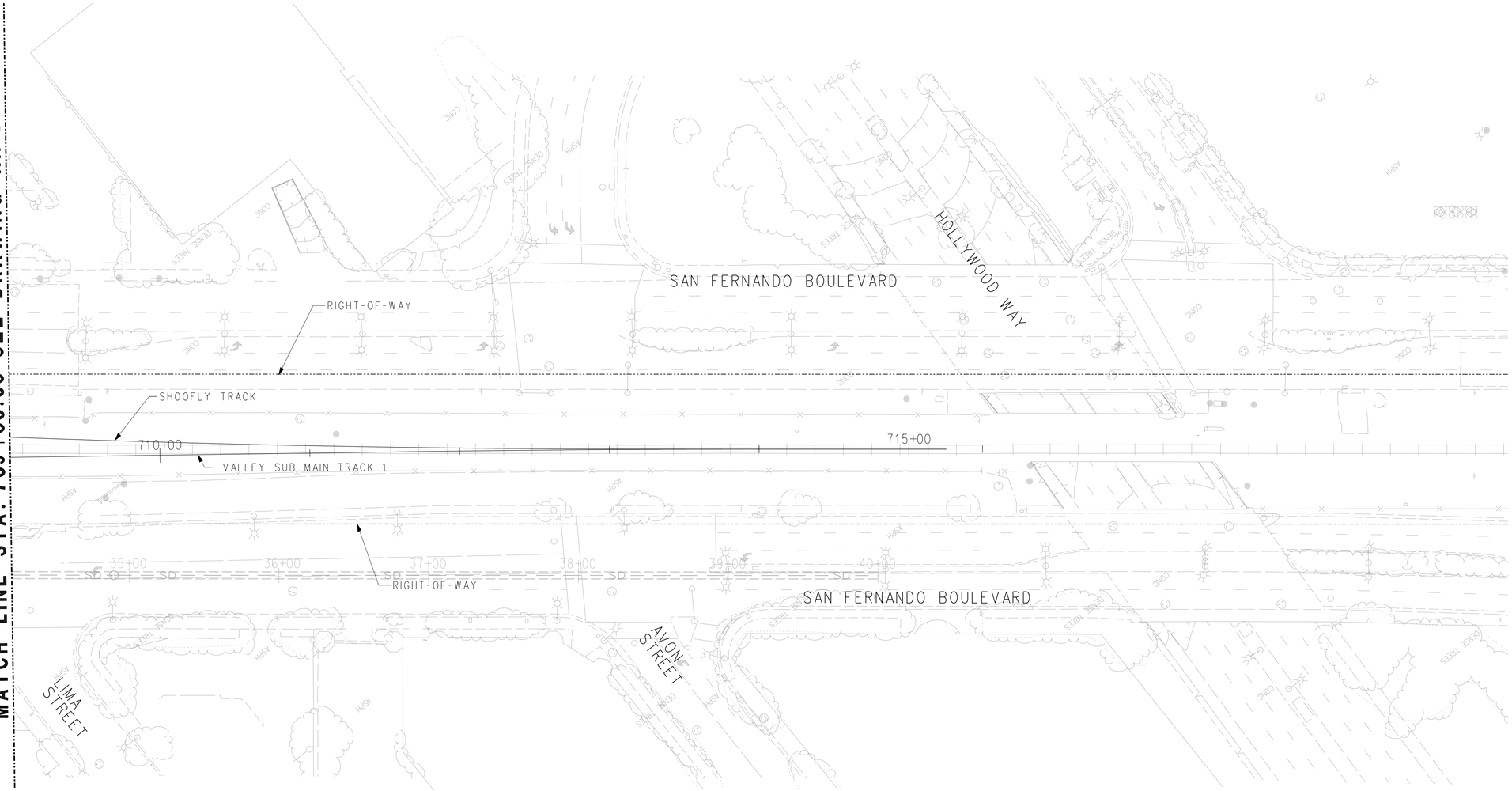
SCRRA
279 E. ARROW HIGHWAY
SAN DIMAS, CA 91773

AECOM
515 SOUTH FLOWER ST. 4th FLOOR
LOS ANGELES, CA 90071

MATCH LINE STA. 709+00.00 SEE DRAWING RR-DR-011



CONSTRUCTION NOTES:

FOR CONSTRUCTION NOTES SEE DWG RR-DR-001

40 30 20 10 0 40 80
1" = 40'-0"

RR-DR-012

RAILROAD SHEET NO. 120 OF 394

HORIZ 1"=40'

RR - DRAINAGE PLAN
SHEET 12 OF 12

APPROVED FOR RAILROAD DRAINAGE WORK.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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CONSULTANT FUNCTIONAL SUPERVISOR PATRICK NICHOLSON
CALCULATED-DESIGNED BY RICHARD SILOS
CHECKED BY VYACHESLAV KOZITSKY
REVISED BY
DATE REVISED

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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1812
PROJECT NUMBER & PHASE 07000211191

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1491	1931

Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

05-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
PATRICK NICHOLSON
No. C 40993
Exp. 3-31-2013
CIVIL
STATE OF CALIFORNIA

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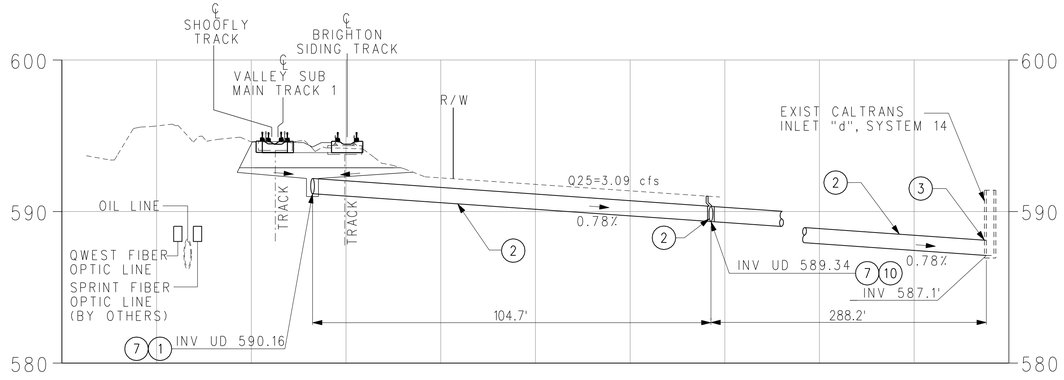
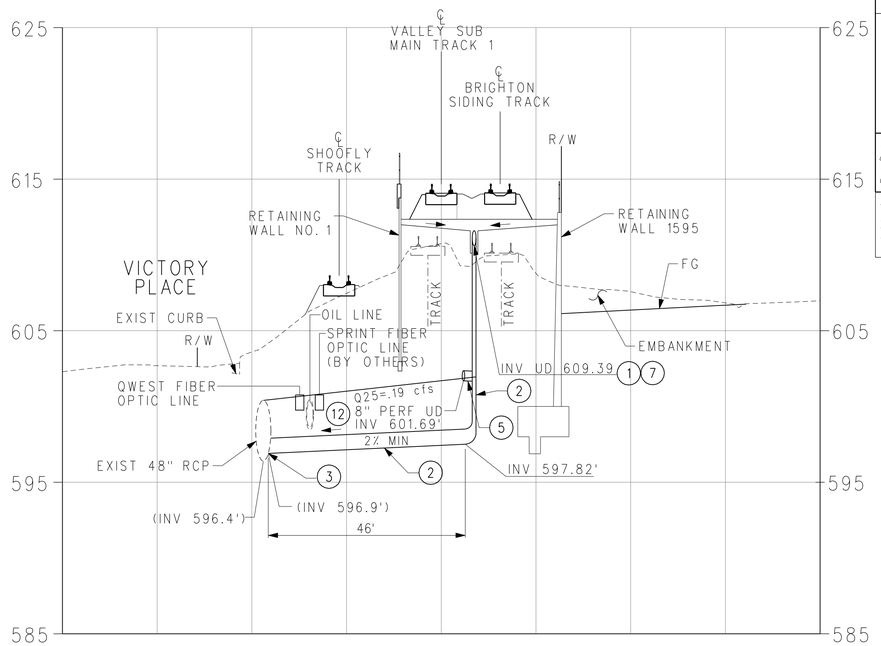
SCRRA
279 E. ARROW HIGHWAY
SAN DIMAS, CA 91773

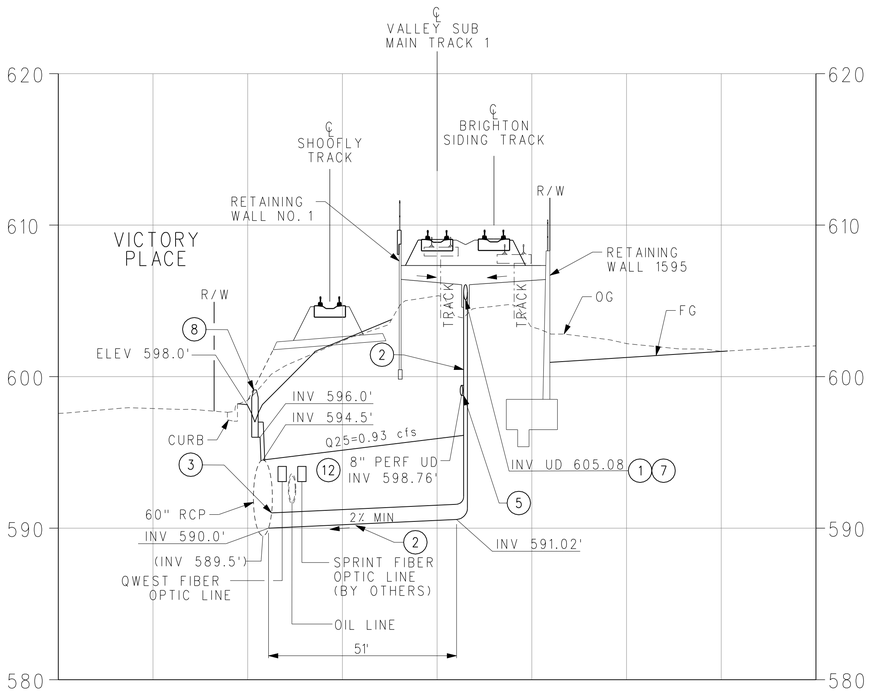
AECOM
515 SOUTH FLOWER ST, 4th FLOOR
LOS ANGELES, CA 90071



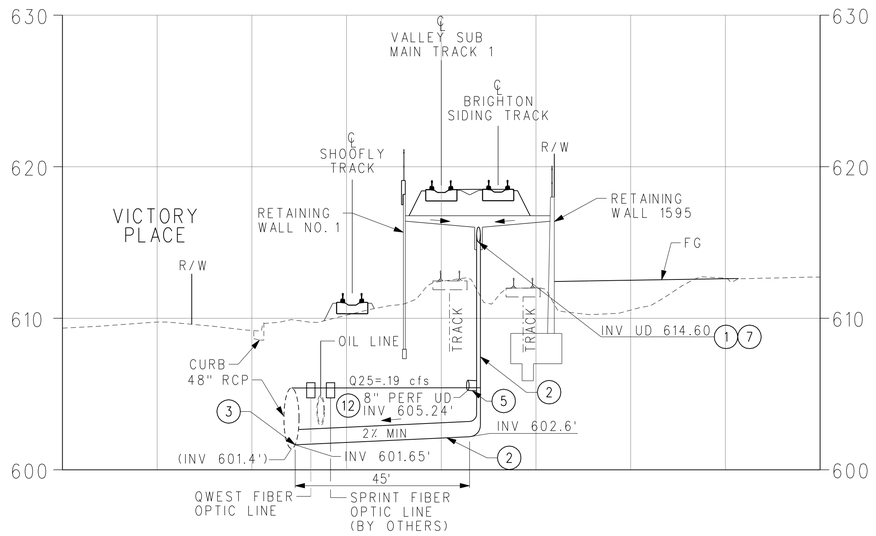
STA 606+42.00
(SEE DWG RR-DR-001)



STA 620+30.00
(SEE DWG RR-DR-003)



STA 617+36.70
(SEE DWG RR-DR-002)



STA 623+84.40
(SEE DWG RR-DR-003)

CONSTRUCTION NOTES:

FOR CONSTRUCTION NOTES SEE
DWG RR-DR-001

APPROVED FOR RAILROAD DRAINAGE WORK.

RR - DRAINAGE PROFILE
SHEET 1 OF 7

RR-DR-021

RAILROAD SHEET NO.
121 OF 394

HORIZ 1"=20'
VERT 1"=5'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
CONSULTANT FUNCTIONAL SUPERVISOR: PATRICK NICHOLSON
CALCULATED-DESIGNED BY:
CHECKED BY:
REVISED BY: VYACHESLAV KOZITSKY
DATE REVISED: RICHARD SILOS

LAST REVISION: 00-00-00
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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1812
PROJECT NUMBER & PHASE 07000211191

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1492	1931

Patrick Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

05-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
PATRICK NICHOLSON
No. C 40993
Exp. 3-31-2013
CIVIL
STATE OF CALIFORNIA

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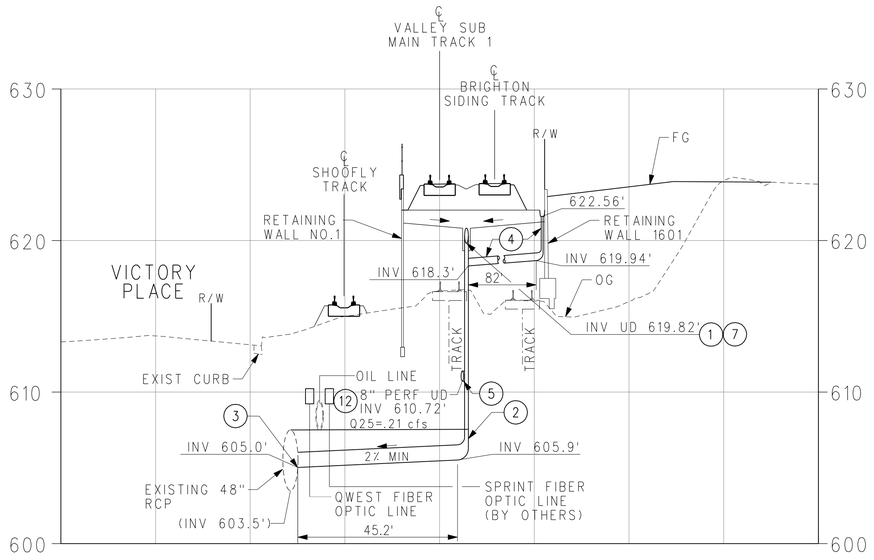
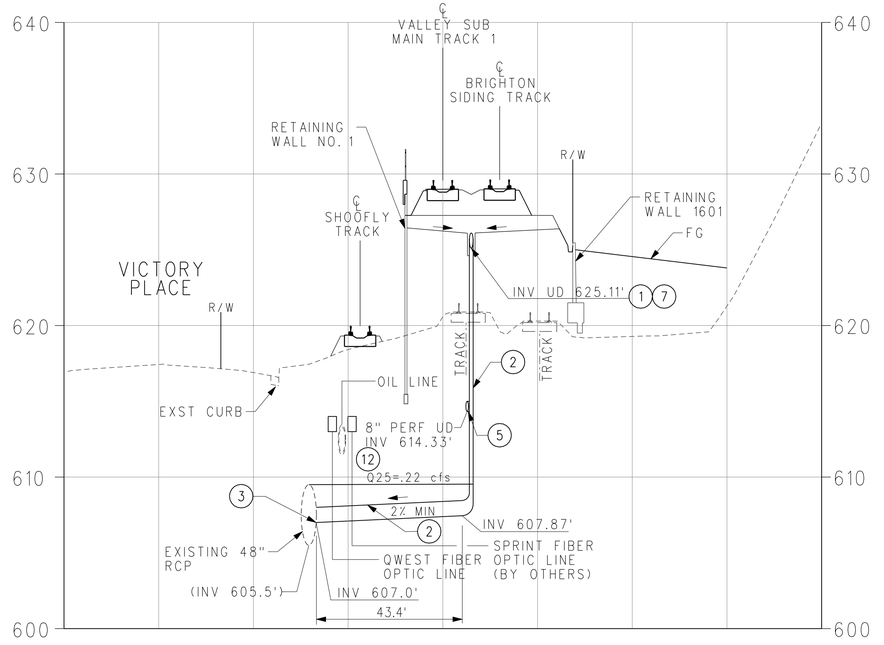
SCRRA
279 E. ARROW HIGHWAY
SAN DIMAS, CA 91773

AECOM
515 SOUTH FLOWER ST. 4th FLOOR
LOS ANGELES, CA 90071



STA 627+40.00
(SEE DWG RR-DR-003)



STA 631+00.00
(SEE DWG RR-DR-004)

CONSTRUCTION NOTES:

FOR CONSTRUCTION NOTES SEE DWG RR-DR-001

APPROVED FOR RAILROAD DRAINAGE WORK.

RR-DR-022

RR - DRAINAGE PROFILE
SHEET 2 OF 7

RAILROAD SHEET NO. 122 OF 394

HORIZ 1"=20'
VERT 1"=5'

LAST REVISION 00-00-00
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TIME PLOTTED => 5:52:52 PM
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REVISED BY | DATE REVISED
VYACHESLAV KOZITSKY | RICHARD SILOS
CALCULATED-DESIGNED BY | CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR: PATRICK NICHOLSON
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1812
PROJECT NUMBER & PHASE 07000211191

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1493	1931

Patrick Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

05-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
PATRICK NICHOLSON
No. C 40993
Exp. 3-31-2013
CIVIL
STATE OF CALIFORNIA

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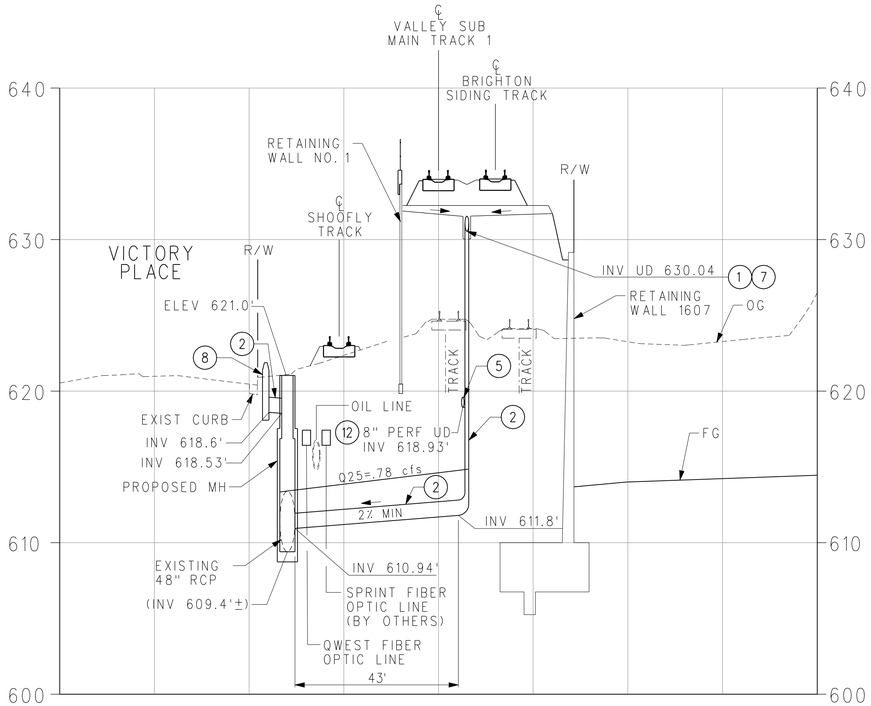
SCRRA
279 E. ARROW HIGHWAY
SAN DIMAS, CA 91773

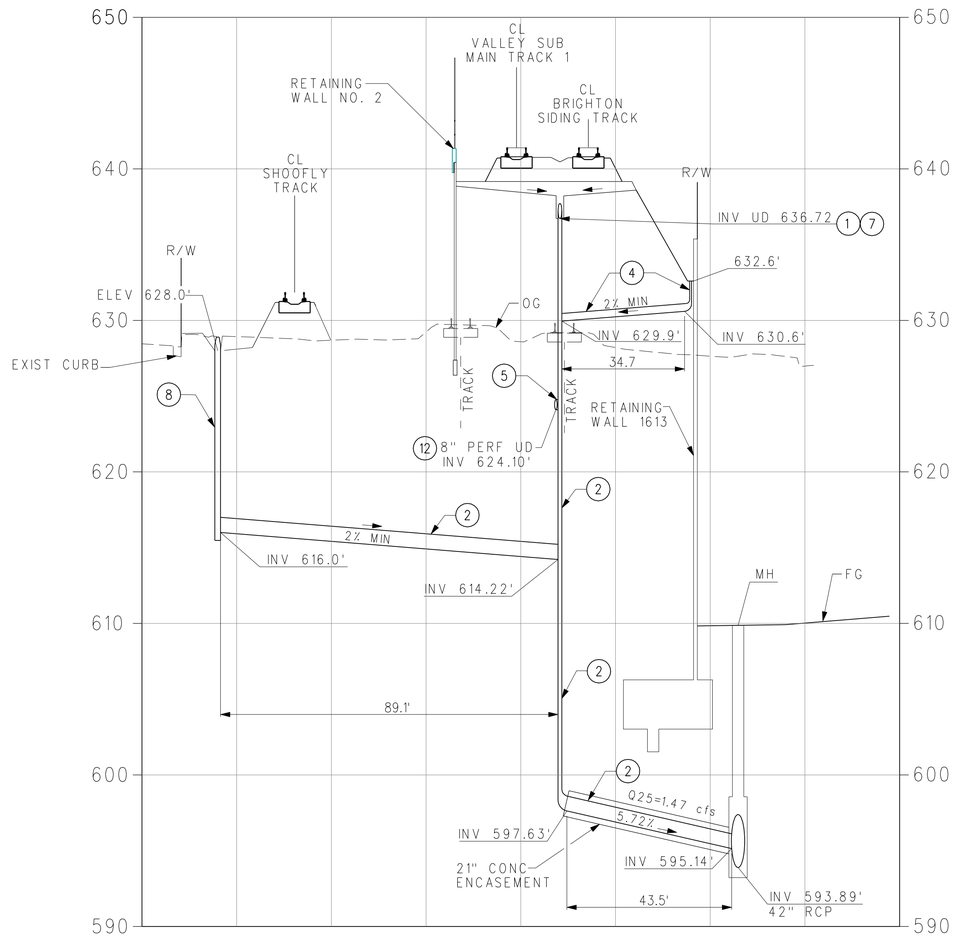
AECOM
515 SOUTH FLOWER ST. 4th FLOOR
LOS ANGELES, CA 90071

CONSTRUCTION NOTES:

FOR CONSTRUCTION NOTES SEE
DWG RR-DR-001



STA 634+35.70
(SEE DWG RR-DR-004)



STA 638+80.20
(SEE DWG RR-DR-004)

APPROVED FOR RAILROAD DRAINAGE WORK.

RR - DRAINAGE PROFILE
SHEET 3 OF 7

RR-DR-023
RAILROAD SHEET NO.
123 OF 394

HORIZ 1"=20'
VERT 1"=5'

LAST REVISION 00-00-00
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DESIGN
CONSULTANT FUNCTIONAL SUPERVISOR
PATRICK NICHOLSON
CALCULATED-DESIGNED BY
RICHARD SILOS
CHECKED BY
VYACHESLAV KOZITSKY
REVISED BY
DATE REVISED

BORDER LAST REVISED 7/2/2010
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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1812
PROJECT NUMBER & PHASE 07000211191

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1494	1931

Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

05-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
PATRICK NICHOLSON
No. C 40993
Exp. 3-31-2013
CIVIL
STATE OF CALIFORNIA

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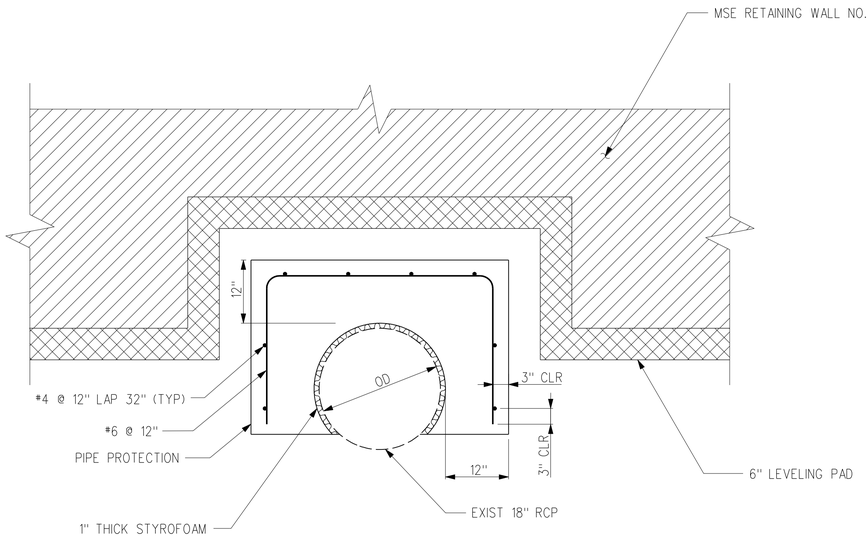
SCRRA
279 E. ARROW HIGHWAY
SAN DIMAS, CA 91773

AECOM
515 SOUTH FLOWER ST. 4th FLOOR
LOS ANGELES, CA 90071

CONSTRUCTION NOTES:

FOR CONSTRUCTION NOTES SEE DWG RR-DR-001



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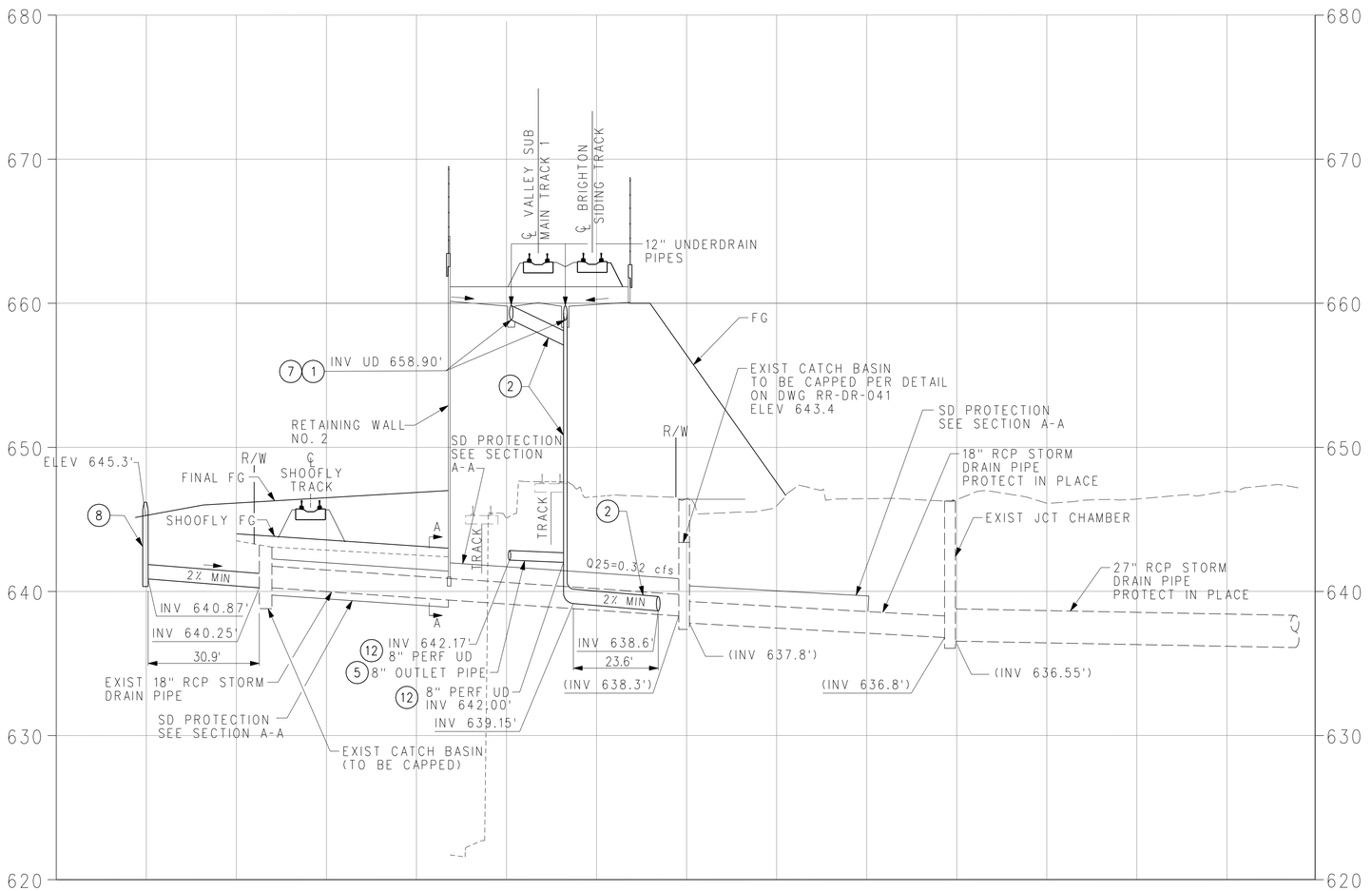

STA 654+00.00
(SEE DWG RR-DR-006)

APPROVED FOR RAILROAD DRAINAGE WORK.

RR - DRAINAGE PROFILE
SHEET 4 OF 7

RR-DR-024

RAILROAD SHEET NO. 124 OF 394

HORIZ 1"=20'
VERT 1"=5'

LAST REVISION 00-00-00

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
CONSULTANT FUNCTIONAL SUPERVISOR: PATRICK NICHOLSON
CALCULATED-DESIGNED BY: VYACHESLAV KOZITSKY
CHECKED BY: RICHARD SILOS
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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1812
PROJECT NUMBER & PHASE 07000211191

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1495	1931

Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

05-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
PATRICK NICHOLSON
No. C 40993
Exp. 3-31-2013
CIVIL
STATE OF CALIFORNIA

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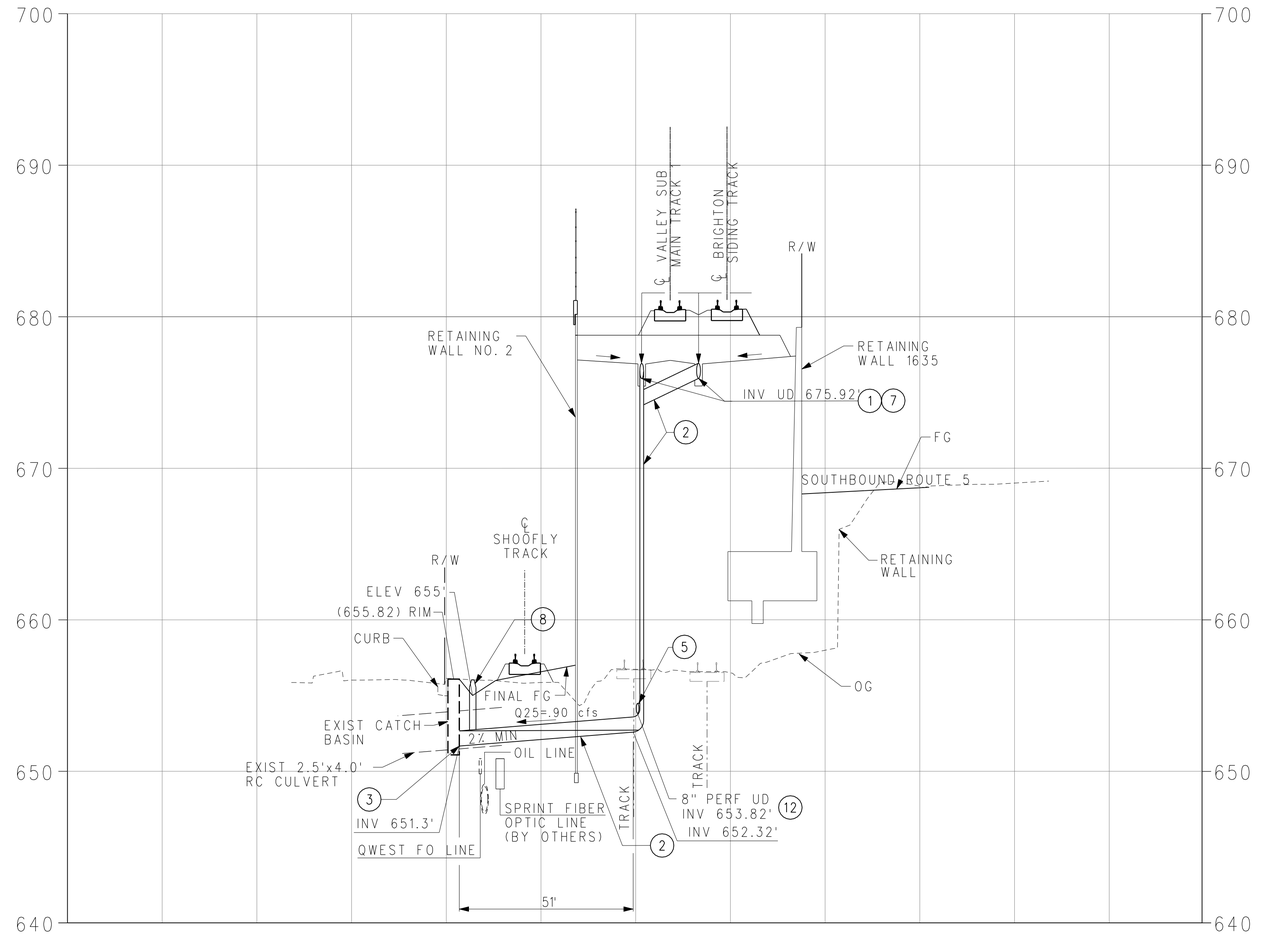
SCRRA
279 E. ARROW HIGHWAY
SAN DIMAS, CA 91773

AECOM
515 SOUTH FLOWER ST. 4th FLOOR
LOS ANGELES, CA 90071

CONSTRUCTION NOTES:

FOR CONSTRUCTION NOTES SEE
DWG RR-DR-001



STA 665+57.50
(SEE DWG RR-DR-007)

RR-DR-025

RAILROAD SHEET NO.
125 OF 394

HORIZ 1"=20'
VERT 1"=5'

RR - DRAINAGE PROFILE
SHEET 5 OF 7

APPROVED FOR RAILROAD UTILITY WORK.

DATE REVISED	REVISED BY

CALCULATED-DESIGNED BY
YVACHESLAV KOZITSKY

CHECKED BY
RICHARD SILOS

CONSULTANT FUNCTIONAL SUPERVISOR
PATRICK NICHOLSON

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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LAST REVISION 00-00-00

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1496	1931

Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

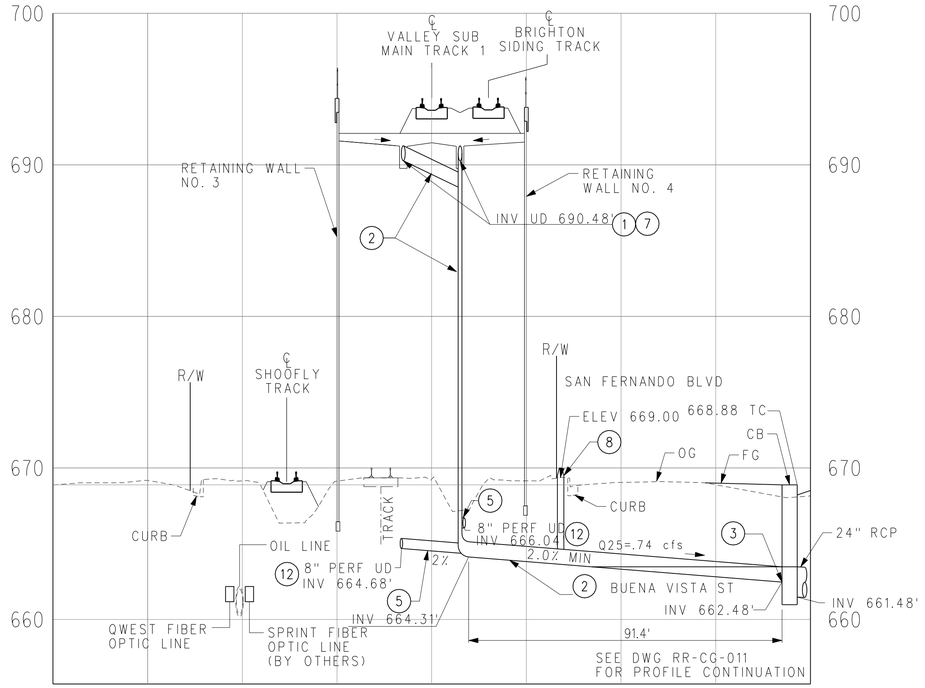
05-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — PATRICK NICHOLSON — No. C 40993 — Exp. 3-31-2013 — CIVIL — STATE OF CALIFORNIA

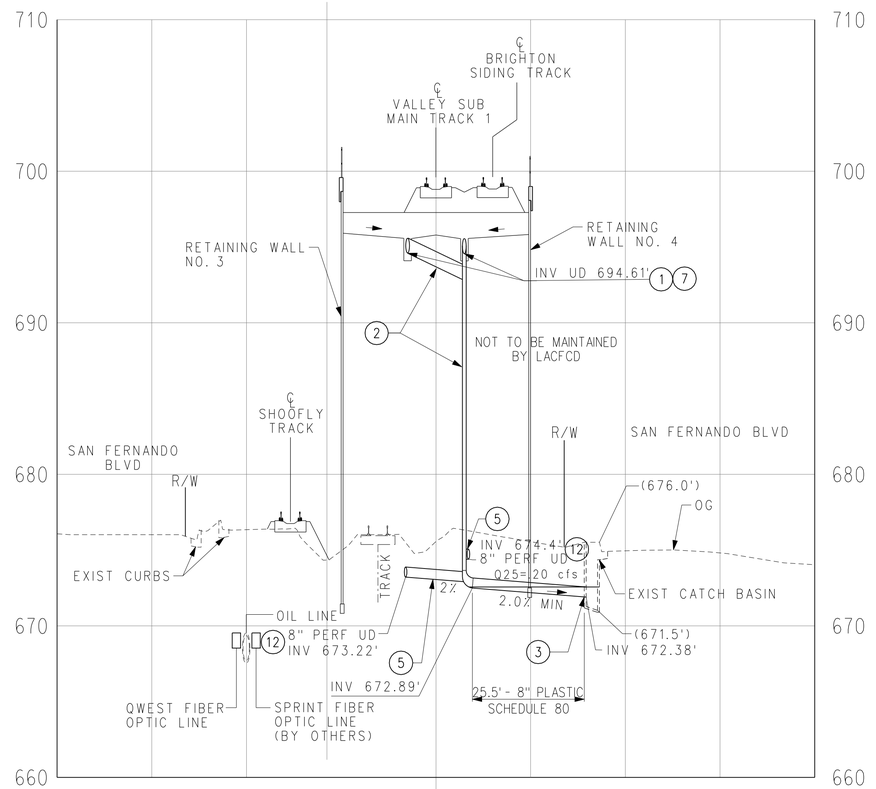
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

SCRRA
279 E. ARROW HIGHWAY
SAN DIMAS, CA 91773

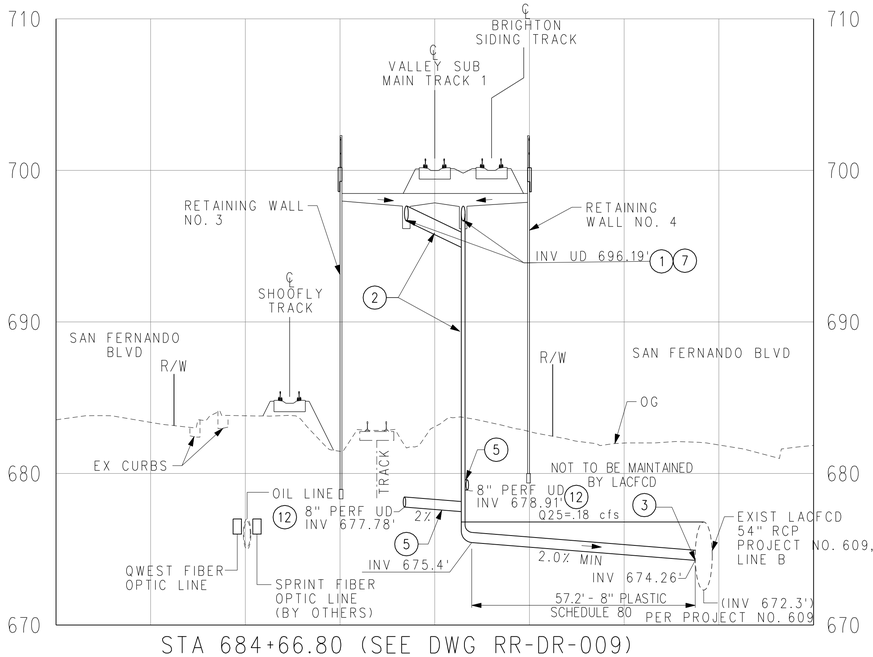
AECOM
515 SOUTH FLOWER ST, 4th FLOOR
LOS ANGELES, CA 90071



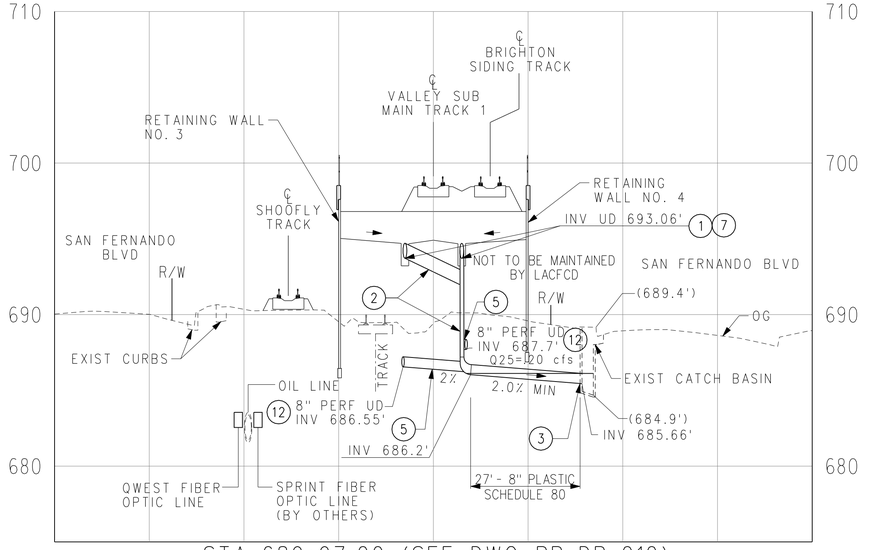
STA 675+53.50 (SEE DWG RR-DR-008)



STA 680+16.00 (SEE DWG RR-DR-009)
STA 5+32 PER LACFCD PROJECT NO. 609



STA 684+66.80 (SEE DWG RR-DR-009)
STA 9+86 PER LACFCD PROJECT NO. 609



STA 689+97.00 (SEE DWG RR-DR-010)
STA 15+17 PER LACFCD PROJECT NO. 609

CONSTRUCTION NOTES:

FOR CONSTRUCTION NOTES SEE DWG RR-DR-001

RR-DR-026

RAILROAD SHEET NO. 126 OF 394

HORIZ 1"=20'
VERT 1"=5'

RR - DRAINAGE PROFILE
SHEET 6 OF 7

APPROVED FOR RAILROAD DRAINAGE WORK.

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UNIT 1812
PROJECT NUMBER & PHASE 07000211191

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07	LA	5	29.4/31.6	1497	1931

Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

PATRICK NICHOLSON
No. C 40993
Exp. 3-31-2013
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

05-21-12
PLANS APPROVAL DATE

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CONSTRUCTION NOTES:

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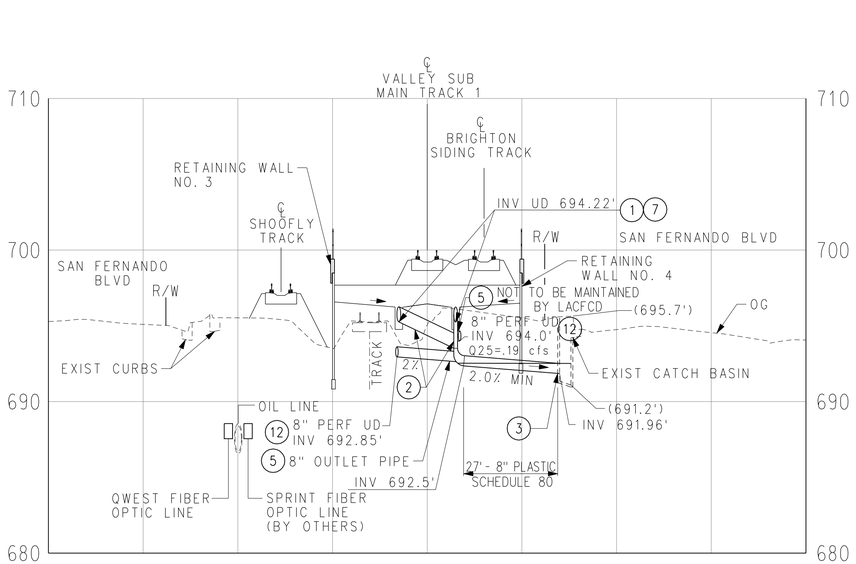
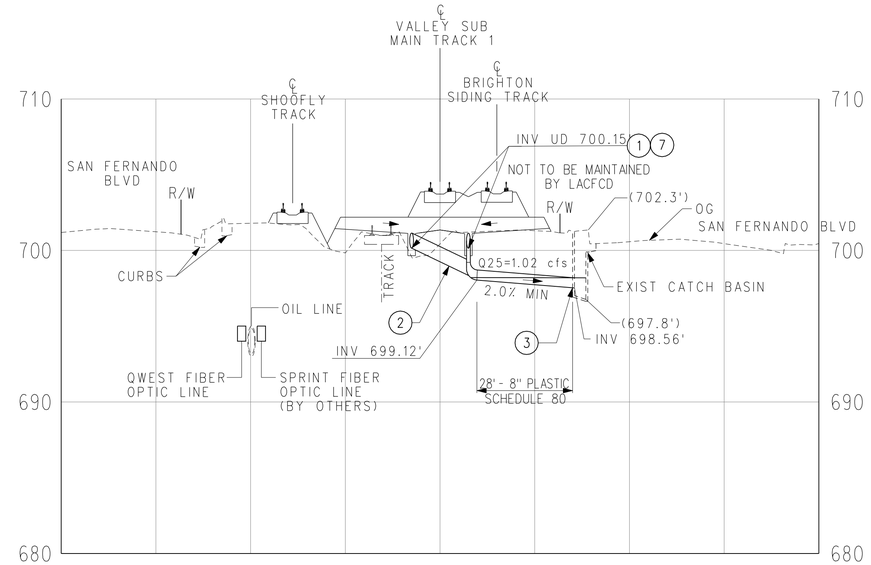


STA 695+25.00 (SEE DWG RR-DR-010)
STA 20+45 PER LACFCD PROJECT NO. 609



STA 701+17.00 (SEE DWG RR-DR-011)
STA 26+39 PER LACFCD PROJECT NO. 609

APPROVED FOR RAILROAD DRAINAGE WORK.

RR-DR-027

RR - DRAINAGE PROFILE
SHEET 7 OF 7

RAILROAD SHEET NO.
127 OF 394

HORIZ 1"=20'
VERT 1"=5'

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1498	1931

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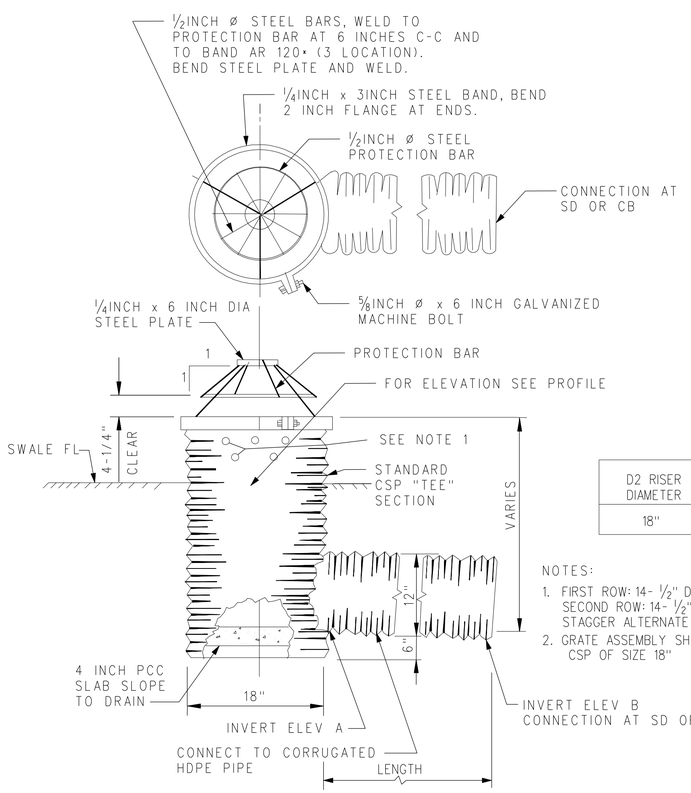


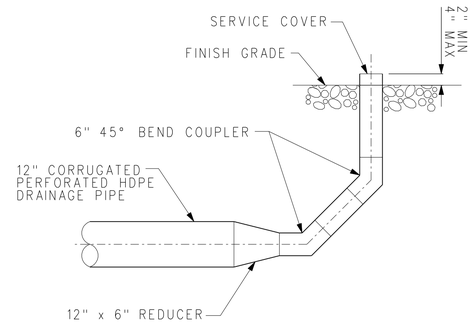
CSP DROP INLET DETAIL

D2 RISER DIAMETER	CSP GAUGE
18"	16

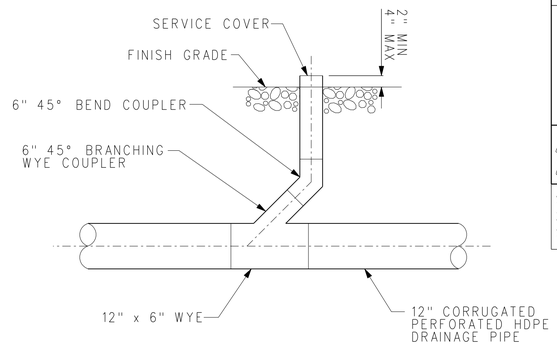
NOTES:
1. FIRST ROW: 14- ½" DIA DRAIN HOLES 4" ABOVE FINISH SURFACE ALL AROUND PIPE
   SECOND ROW: 14- ½" DIA DRAIN HOLES 1½" ABOVE FINISH SURFACE ALL AROUND PIPE
   STAGGER ALTERNATE ROWS
2. GRATE ASSEMBLY SHALL BE FABRICATED TO FIT CSP OF SIZE 18"

TABLE A

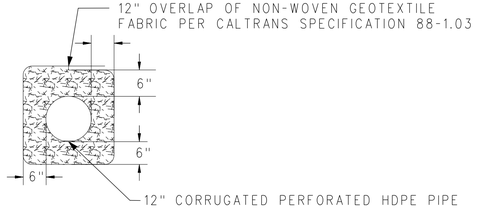
STATION	SWALE FL ELEV	INVERT ELEV A	INVERT ELEV B (CONNECT TO SD OR CB)	LENGTH
605•96.90	591.00'	589.50'	589.34'	53.0'
609•00.00	596.00'	594.00'	592.93'	29.0'
617•30.50	598.00'	596.00'	594.5'	4.5'
634•41.90	621.00'	618.60'	618.53'	3.4'
639•58.20	628.00'	616.00'	614.22'	89.1'
655•53.50	645.30'	640.87'	640.25'	30.9'
665•63.70	655.00'	653.00'	651.75'	4.3'
675•46.60	669.00'	667.00'	665.00'	9.3'
675•58.40	669.00'	664.00'	663.70'	3.5'



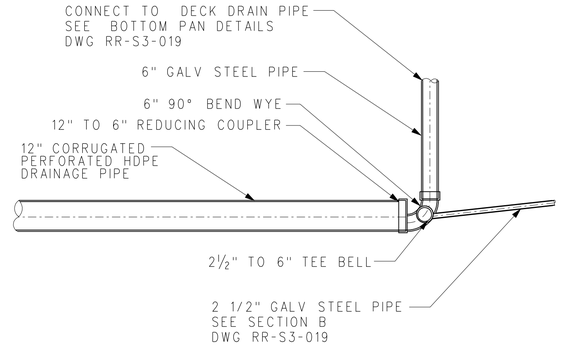
TERMINAL UNDERDRAIN CLEANOUT



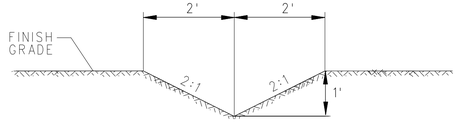
INTERMEDIATE UNDERDRAIN CLEANOUT



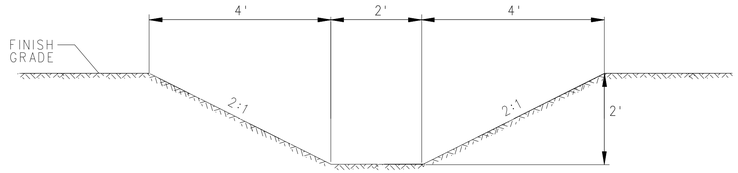
UNDERDRAIN DETAIL
NTS



BRIDGE DRAINAGE DETAIL



4' SWALE



10' SWALE

APPROVED FOR RAILROAD UTILITY WORK.

RR - DRAINAGE DETAILS
SHEET 1 OF 4

RR-DR-040

RAILROAD SHEET NO.
128 OF 394

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PROJECT NUMBER & PHASE 07000211191

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Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

05-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — PATRICK NICHOLSON — No. C 40993 — Exp. 3-31-2013 — CIVIL — STATE OF CALIFORNIA

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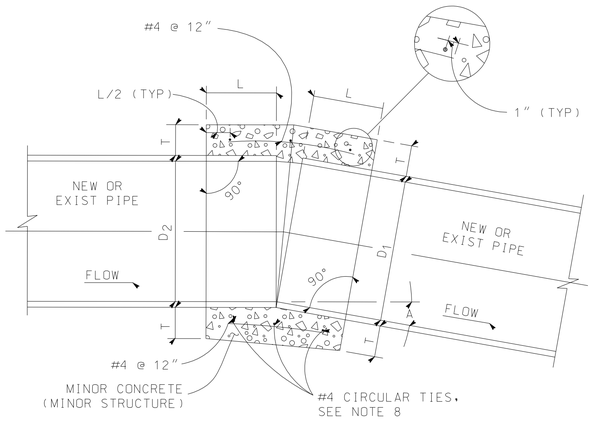


TYPE L-2 COLLAR

D	L	T
12"	12"	4"
18"	12"	5"
24"	12"	6"
30"	18"	7"
36"	18"	9"
42"	18"	9"
48"	18"	10"
56"	18"	10"
60"	21"	11"
66"	21"	11"
72"	24"	12"

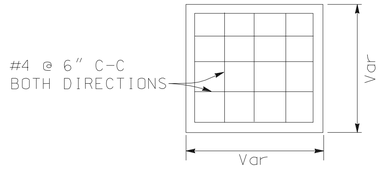
TYPE L-2 COLLAR NOTES:

1. A TYPE L-2 COLLAR IS REQUIRED WHERE THE CHANGE IN GRADE EXCEEDS 10 PERCENT.
2. A TYPE L-2 COLLAR IS REQUIRED FOR CURVE JOINTS WHERE THE JOINT OVERLAP IS LESS THAN AS DESCRIBED ON STD PLAN D97H.
3. CONCRETE COLLAR SHALL NOT BE USED FOR A SIZE CHANGE ON THE MAIN LINE.
4. CONNECTOR PIPES
   A. WHERE PIPES OF DIFFERENT DIAMETERS ARE JOINED WITH A TYPE L-2 COLLAR. L AND T SHALL BE THOSE OF THE LARGER PIPE. D=D1 OR D2, WHICHEVER IS GREATER
   B. WHEN D1 IS EQUAL TO OR LESS THAN D2, JOIN INVERTS AND WHEN D1 IS GREATER THAN D2, JOIN SOFFITS.
5. FOR PIPE DIAMETERS LARGER THAN 72" SPECIAL COLLAR DETAILS ARE REQUIRED.
6. WHERE REINFORCING IS REQUIRED THE DIAMETER OF THE CIRCULAR TIES SHALL BE D + (2X WALL THICKNESS) + T.
7. REINFORCING SHALL BE USED WHERE THE PIPE DIAMETER IS GREATER THAN 21" AND ON ALL PIPES WHERE THE SPACES BETWEEN THE EXTREME OUTER ENDS IS 3" OR LARGER.

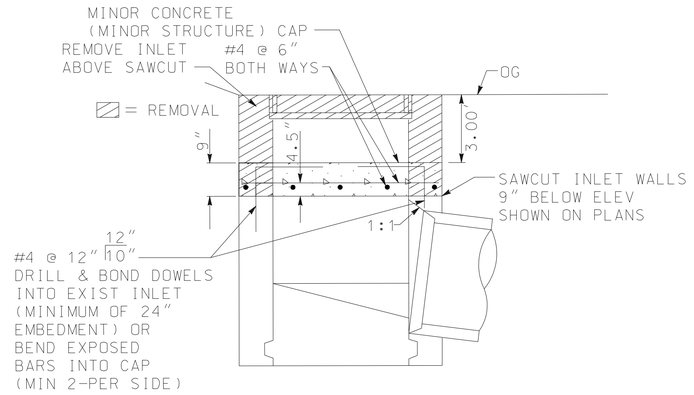
   CIRCULAR TIES:

PIPE DIAMETER	No. OF CIRCULAR TIES
21" OR LESS	3
24" TO 30"	3
32" TO 56"	4
60" TO 72"	5

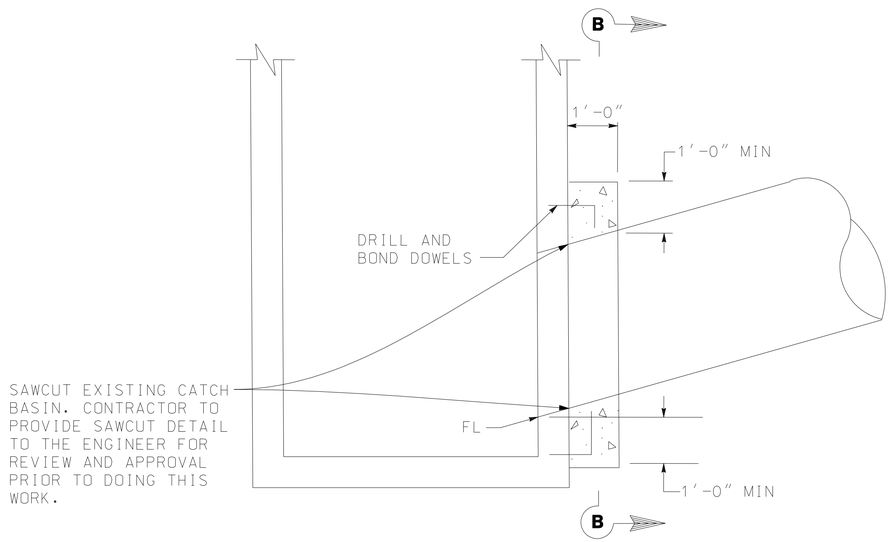
   WHERE THE SPACE BETWEEN PIPE ENDS EXCEEDS 3" THE NUMBER OF CIRCULAR TIES SHALL BE INCREASED TO MAINTAIN AN APPROXIMATE SPACING OF 6" C-C.
8. WHERE THE PIPE IS 21" OR LESS IN DIAMETER AN INTERIOR FORM OF UNSEALED SONO-TUBE OR EQUAL SHALL BE USED TO PROVIDE A SMOOTH INTERIOR JOINT. THE PAPER FORM MAY BE LEFT IN PLACE. WHEN THE PIPE IS 24" OR LARGER A REMOVABLE INTERIOR FORM SHALL BE USED OR THE INTERIOR JOINT SHALL BE COMPLETELY FILLED WITH MORTAR AND NEATLY POINTED.

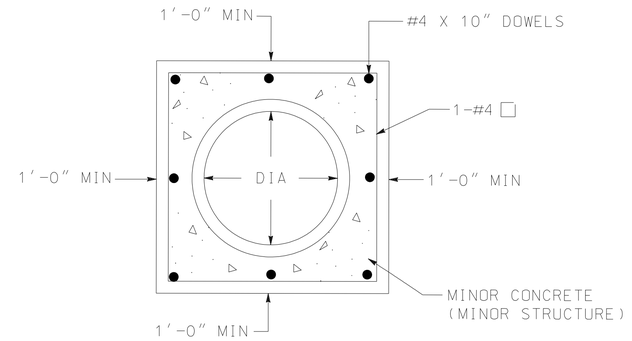


PLAN



CAP INLET





SECTION B-B

TYPE L-3 COLLAR

APPROVED FOR RAILROAD DRAINAGE WORK.

RR - DRAINAGE DETAILS
SHEET 2 OF 4

RR-DR-041

RAILROAD SHEET NO. 129 OF 394

NO SCALE

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07	LA	5	29.4/31.6	1500	1931

Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

05-21-12
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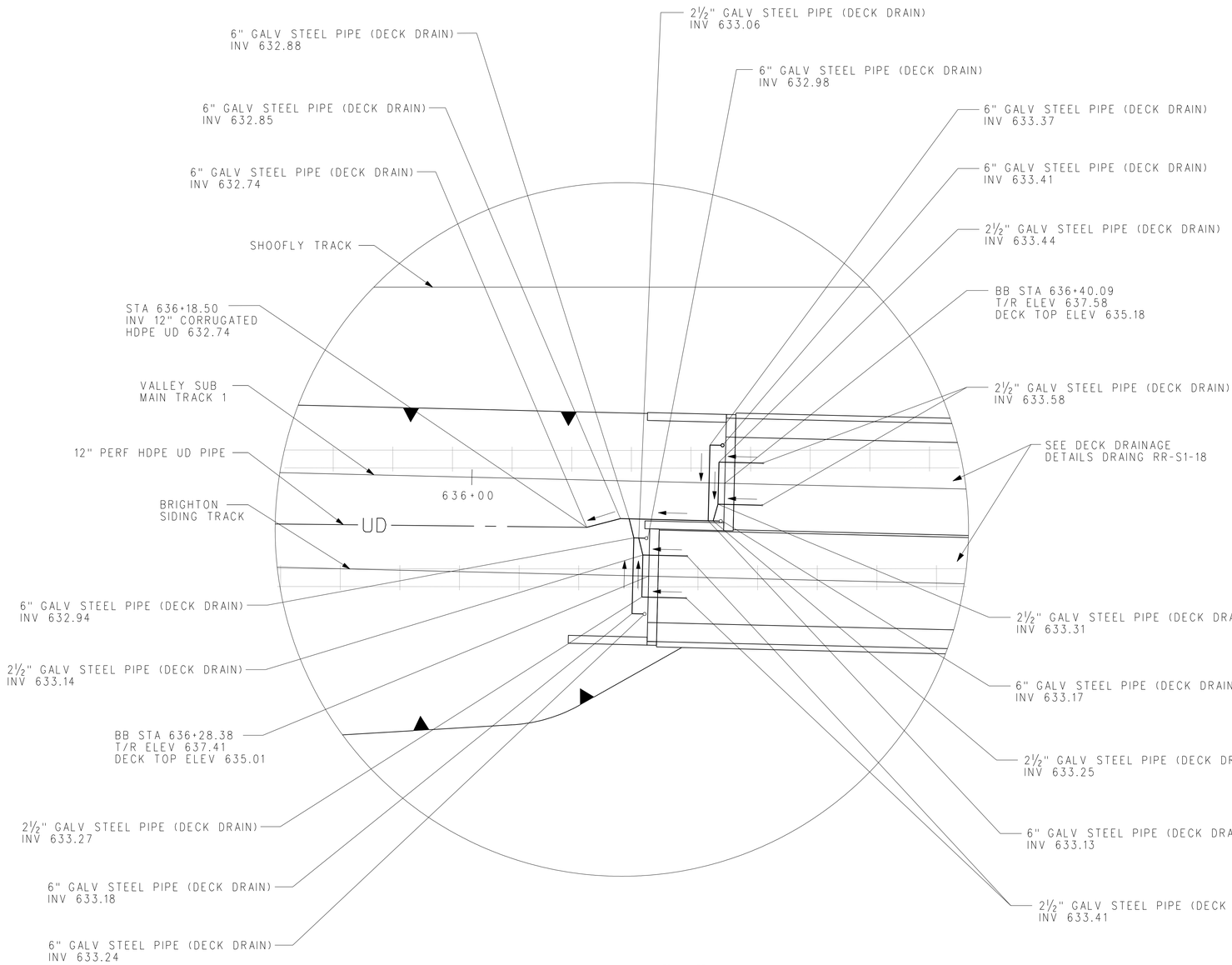

NOTES:

FOR DECK DRAINAGE DETAILS
SEE DWG RR-S1-018

10 7.5 5 2.5 0 10 20
1" = 10'-0"

DETAIL "A"

RR-DR-042

RR - DRAINAGE DETAILS
SHEET 3 OF 4

RAILROAD SHEET NO.
130 OF 394

HORIZ 1"=10'

APPROVED FOR RAILROAD DRAINAGE WORK.

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07	LA	5	29.4/31.6	1501	1931

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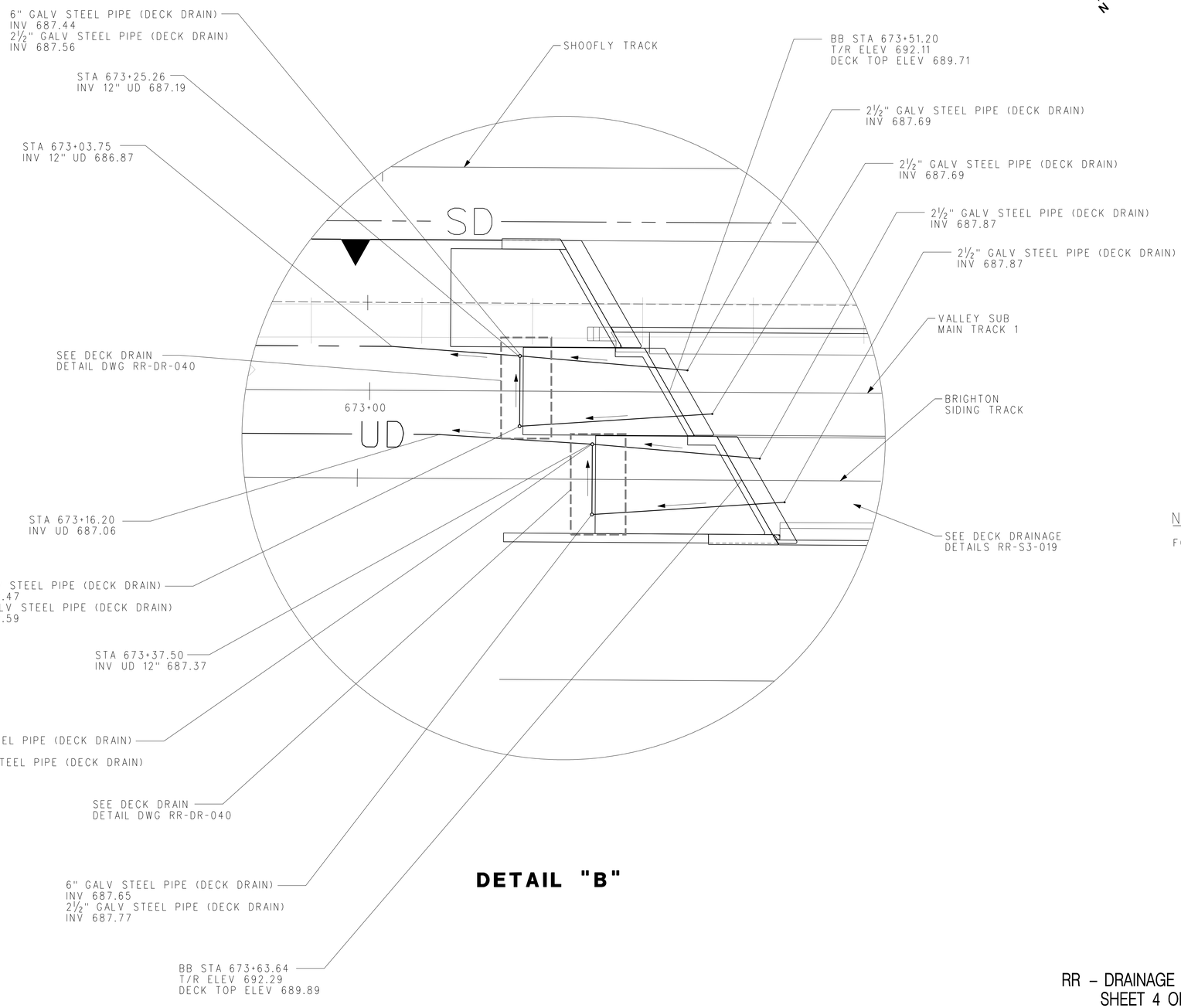

DETAIL "B"

NOTES:

FOR DECK DRAINAGE DETAILS SEE DWG RR-S3-019

10 7.5 5 2.5 0 10 20
1" = 10'-0"

RR – DRAINAGE DETAILS
SHEET 4 OF 4

RR-DR-043

RAILROAD SHEET NO. 131 OF 394

HORIZ 1"=10'

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DRAINAGE QUANTITIES SUMMARY

12" CORRUGATED PERFORATED HIGH DENSITY POLYETHYLENE PIPE (UNDERDRAIN)	LF	15,057
12" CORRUGATED HIGH DENSITY POLYETHYLENE PIPE	LF	1,350
6" CORRUGATED HIGH DENSITY POLYETHYLENE PIPE	LF	122
UNDERDRAIN CLEANOUT	LF	214
CORRUGATED STEEL PIPE DROP INLET	LF	44
2 1/2" GALVANIZED STEEL PIPE (DECK DRAIN)	LF	183
6" GALVANIZED STEEL DECK DRAIN	LF	93
30" CONCRETE ENCASEMENT	LF	50
21" CONCRETE ENCASEMENT	LF	65
STORM DRAIN PROTECTION FOR 18" REINFORCED CONCRETE PIPE	LF	155
STORM DRAIN PROTECTION FOR 4'X2.5' REINFORCED CONCRETE BOX	LF	136
6" PERFORATED PLASTIC SCAEDULE 80 DRAIN PIPE	LF	423
6" PLASTIC PIPE	LF	256
8" PLASTIC, SCHEDULE 80	LF	165
MINOR CONCRETE (MINOR STRUCTURE)	CY	6
MISCELLANEOUS IRON AND STEEL	LB	348
24" REINFORCED CONCRETE PIPE	LF	86
PARKWAY DRAIN	LF	14
8" CORRUGATED PERFORATED HIGH DENSITY POLYETHYLENE PIPE (UNDERDRAIN)	LF	9,974

APPROVED FOR RAILROAD WORK.

RR-DRQ-001

RR – DRAINAGE QUANTITIES SUMMARY SHEET

RAILROAD SHEET NO. 132 OF 394

NO SCALE

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Pat Nicholson 05-21-12
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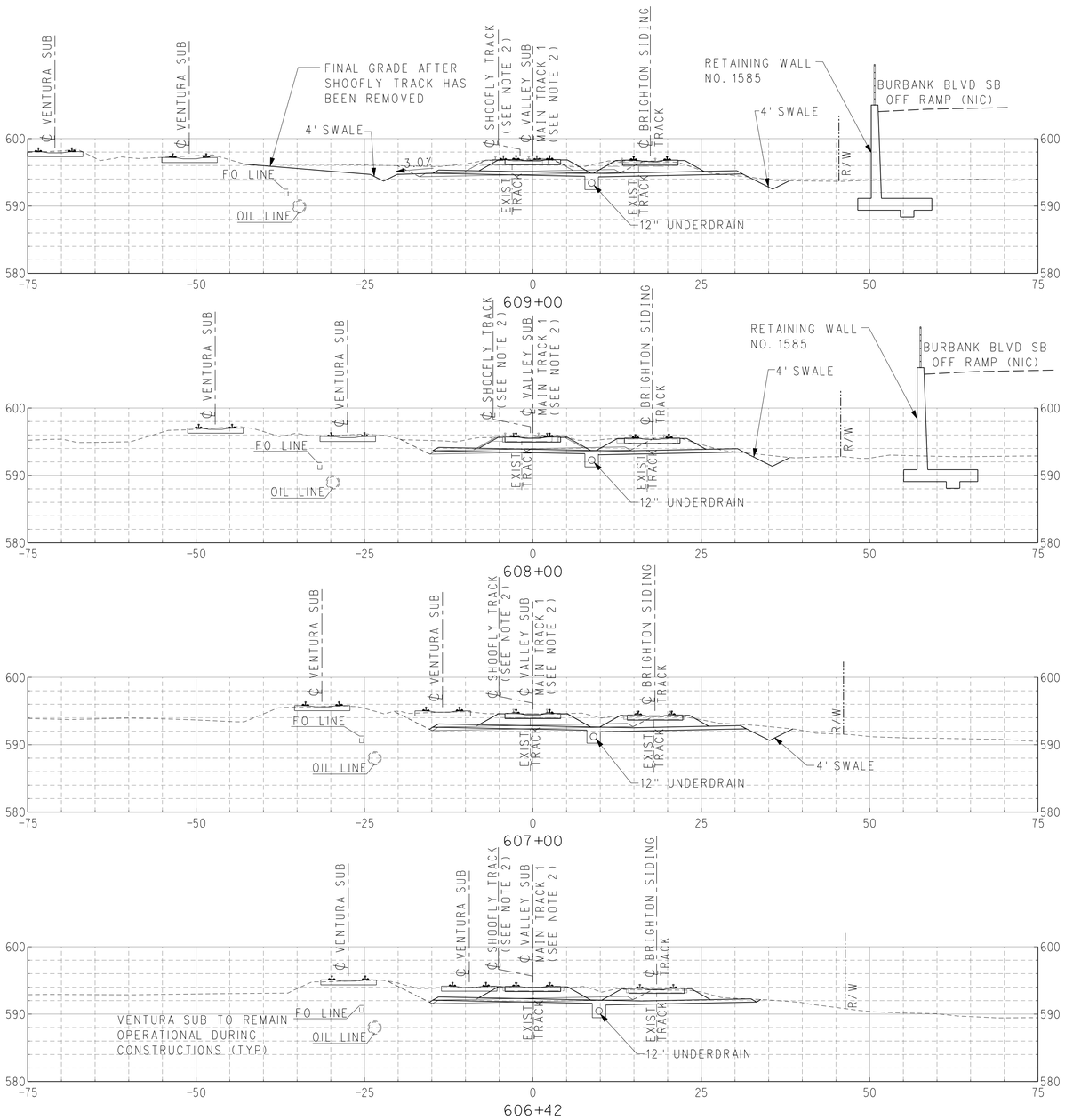
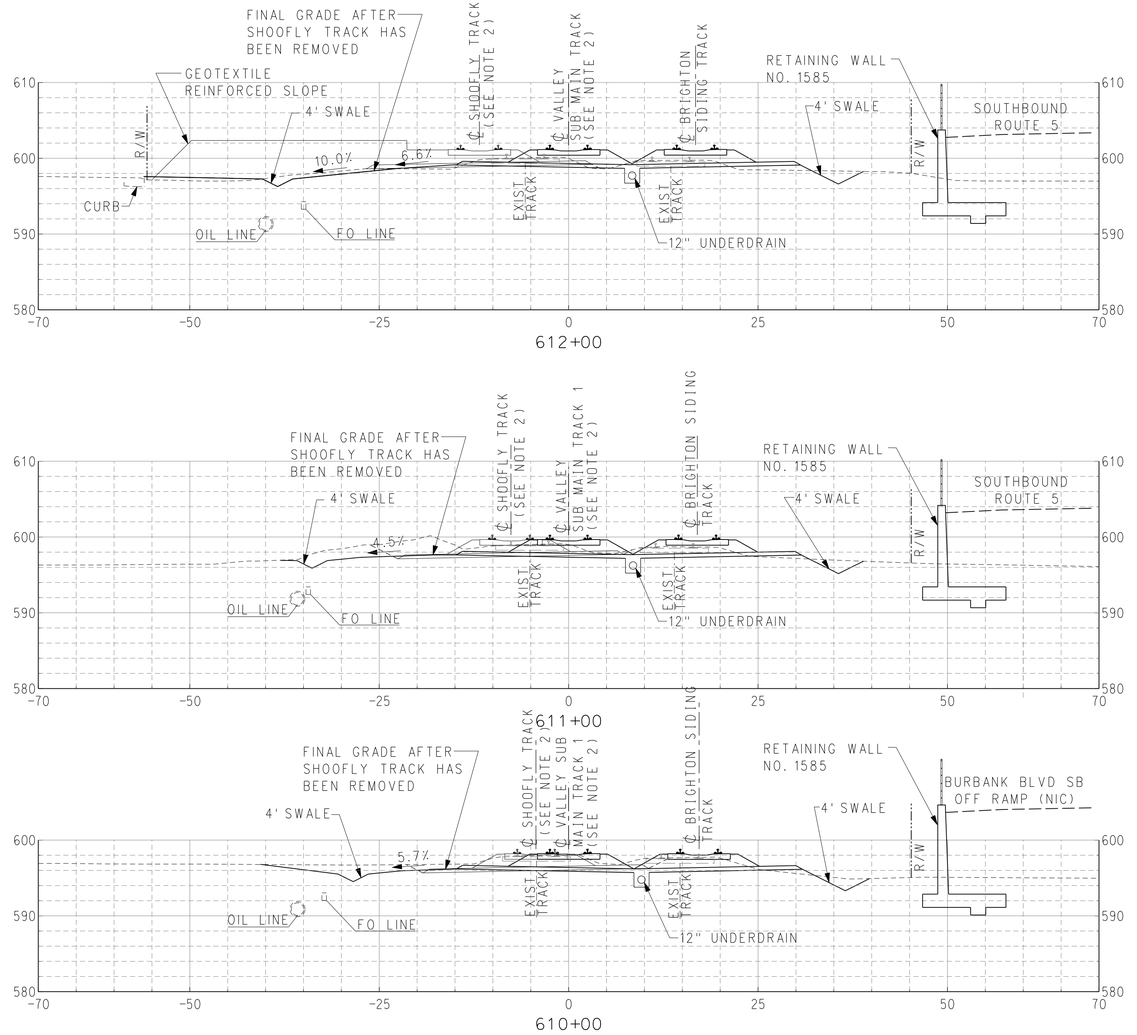
NOTES:

1. CROSS SECTION REPRESENTS FINAL CONFIGURATION OF EMPIRE GRADE SEPERATION PROJECT. TEMPORARY SHOOFLY IS SHOWN FOR REFERENCE. FOR REMOVALS AND LIMITS OF CONSTRUCTION SEE DWGS RR-X-001 TO RR-X-012.
2. IN ACCORDANCE WITH CONSTRUCTION STAGING PLAN, CUTOVER MAINLINE-SHOOFLY TRACK. CONTRACTOR TO PROVIDE ALL MATERIAL, (SUBGRADE, SUB-BALLAST AND BALLAST PREPARATION, TRACKWORK, AND RR SIGNALS), MANPOWER AND EQUIPMENT TO ASSIST SCRRA IN THE TRACK CUTOVER.





STATION 606+42 TO STATION 612+00

1" = 10'-0"

RR - CROSS SECTIONS
SHEET 1 OF 27

RR-SC-001
RAILROAD SHEET NO.
133 OF 394

VERT 1"=10'

APPROVED FOR RAILROAD WORK.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
CONSULTANT FUNCTIONAL SUPERVISOR: PATRICK NICHOLSON
CALCULATED-DESIGNED BY: ANGELKA GRANDOV
CHECKED BY: RICHARD SILOS
REVISED BY
DATE REVISED

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LAST REVISION 00-00-00

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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1812
PROJECT NUMBER & PHASE 07000211191

NOTE:
CROSS SECTION REPRESENTS FINAL CONFIGURATION OF EMPIRE GRADE SEPERATION PROJECT. TEMPORARY SHOOFLY IS SHOWN FOR REFERENCE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1504	1931

Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

05-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — PATRICK NICHOLSON — No. C 40993 — Exp. 3-31-2013 — CIVIL — STATE OF CALIFORNIA

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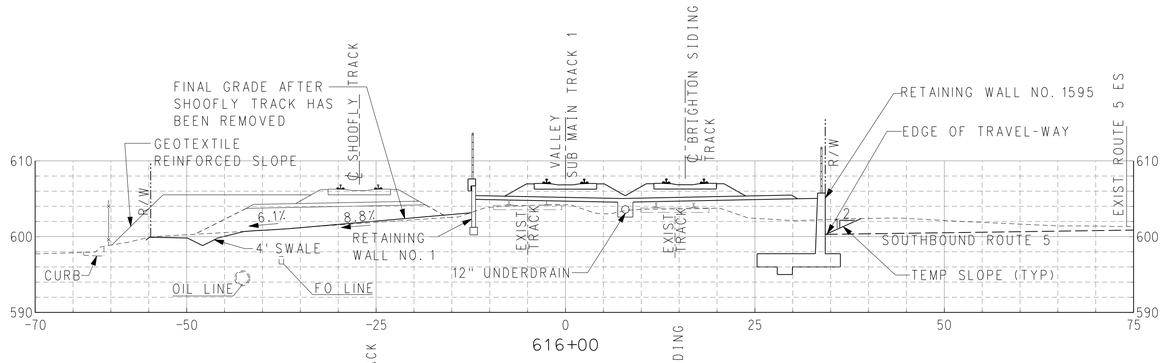
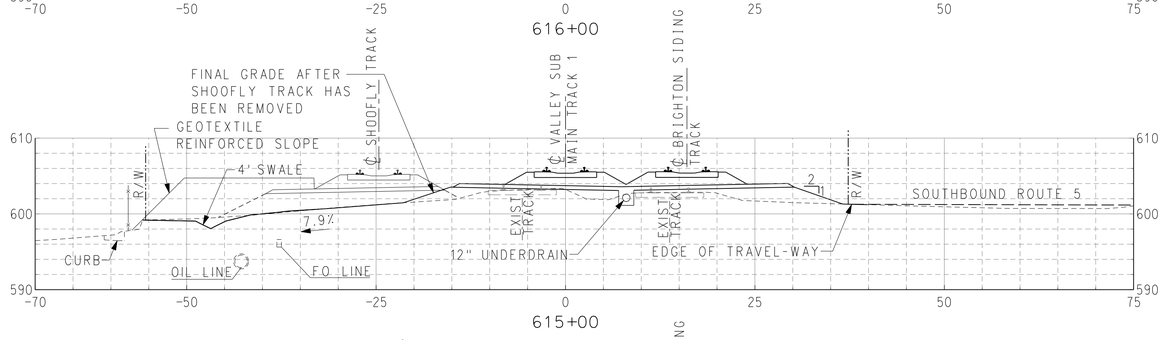
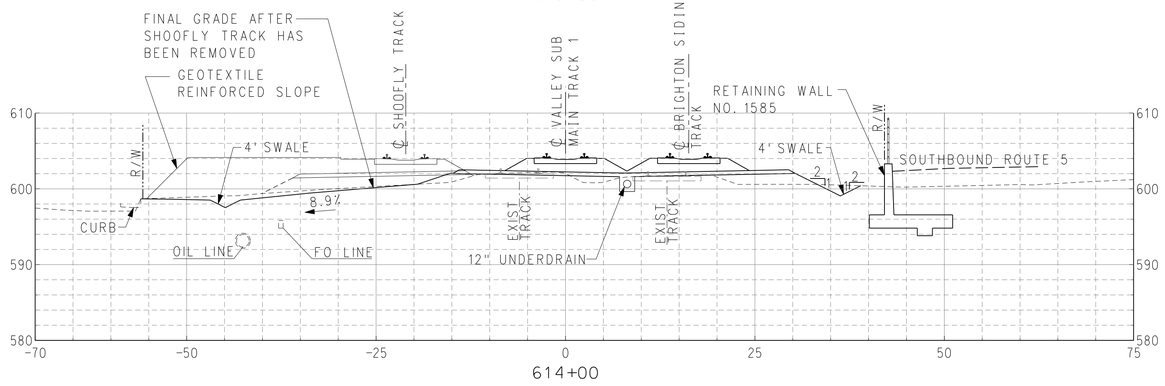
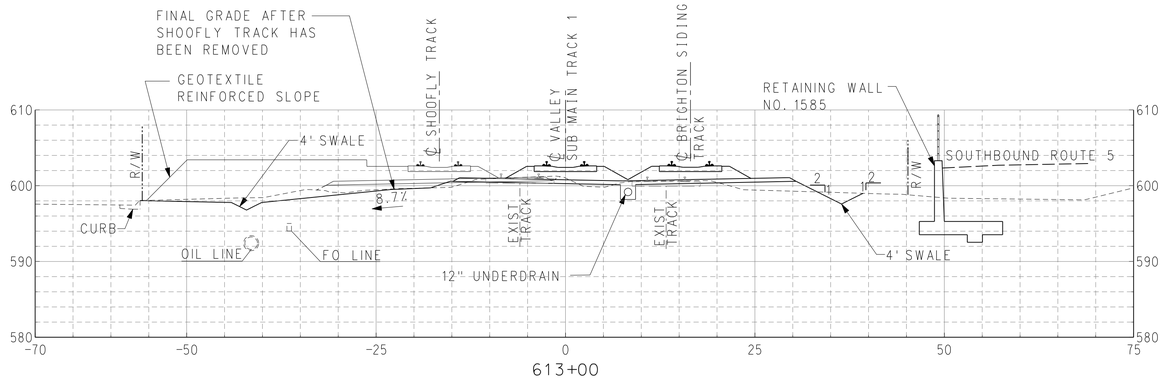
279 E. ARROW HIGHWAY
SAN DIMAS, CA 91773

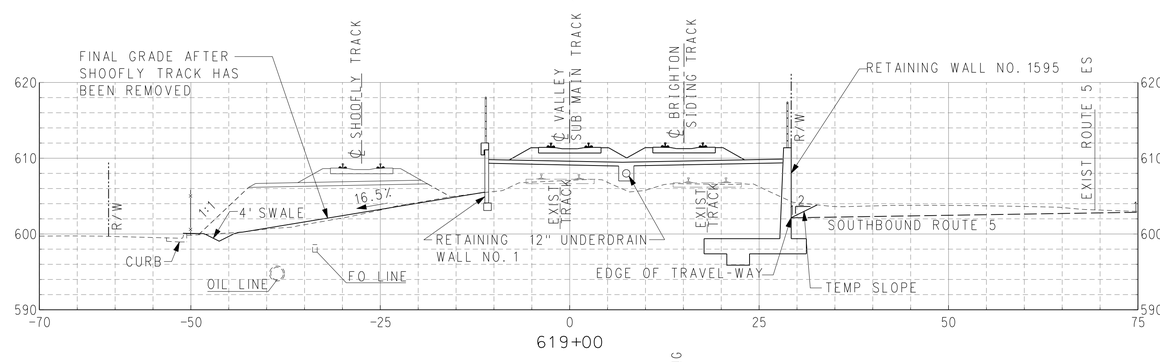
AECOM
515 SOUTH FLOWER ST. 4th FLOOR
LOS ANGELES, CA 90071

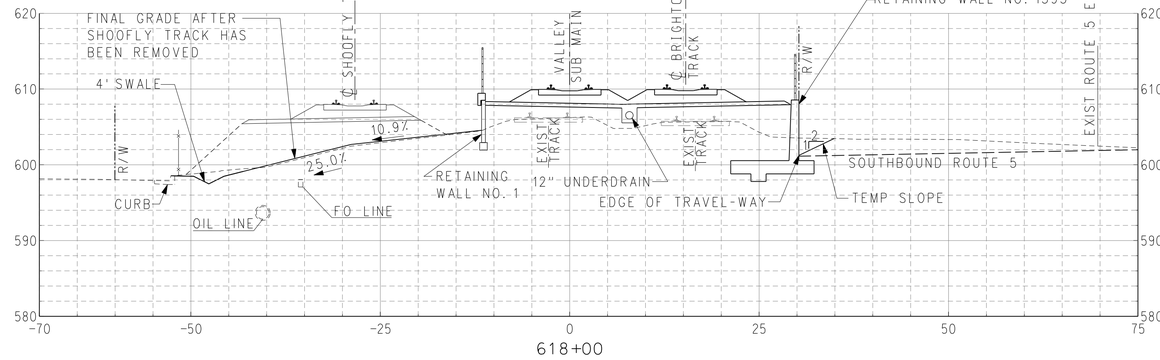


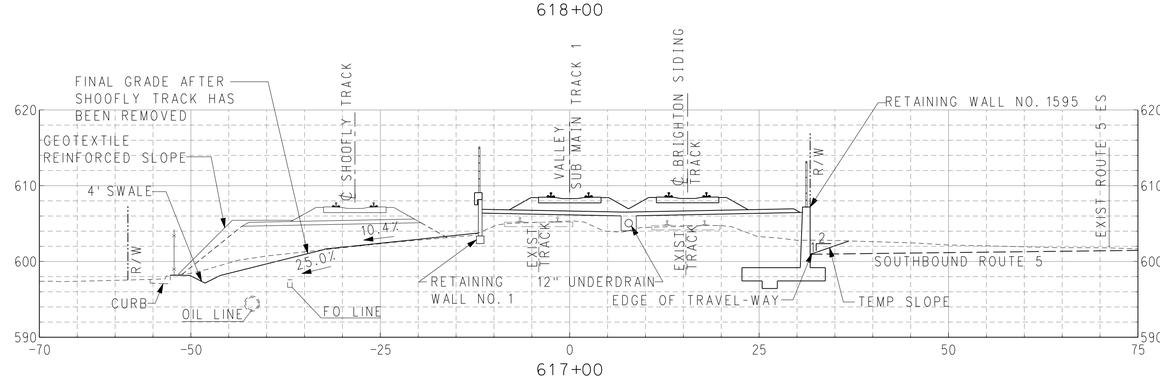












STATION 613+00 TO STATION 619+00

1" = 10'-0"

RR - CROSS SECTIONS
SHEET 2 OF 27

RR-SC-002
RAILROAD SHEET NO. 134 OF 394

VERT 1"=10'

APPROVED FOR RAILROAD WORK.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION | DESIGN | CONSULTANT FUNCTIONAL SUPERVISOR: PATRICK NICHOLSON | CALCULATED-DESIGNED BY: ANGELKA GRANDOV | CHECKED BY: RICHARD SILOS | REVISED BY | DATE REVISED

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LAST REVISION 00-00-00

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NOTE:
CROSS SECTION REPRESENTS FINAL CONFIGURATION OF EMPIRE GRADE SEPERATION PROJECT.
TEMPORARY SHOOFLY IS SHOWN FOR REFERENCE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1505	1931

Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

05-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — PATRICK NICHOLSON — No. C 40993 — Exp. 3-31-2013 — CIVIL — STATE OF CALIFORNIA

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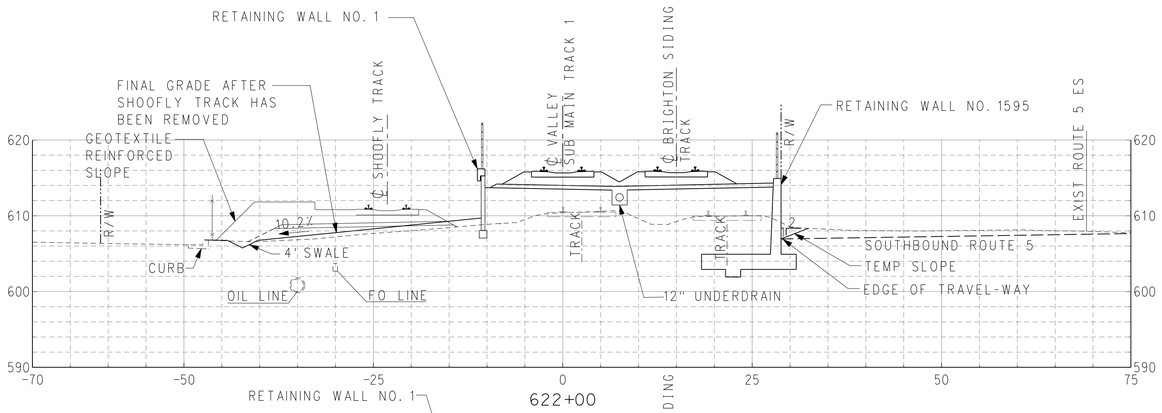
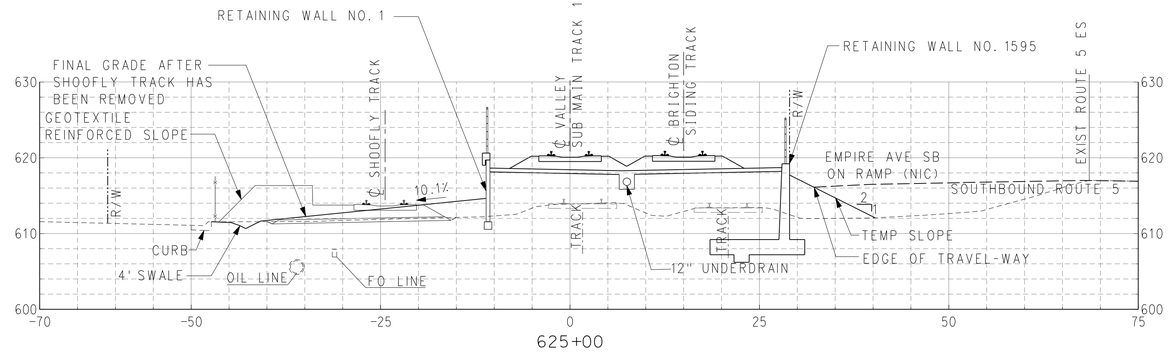
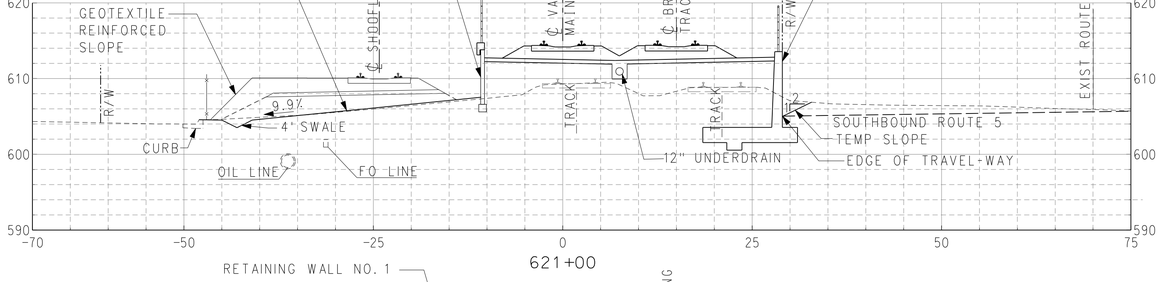
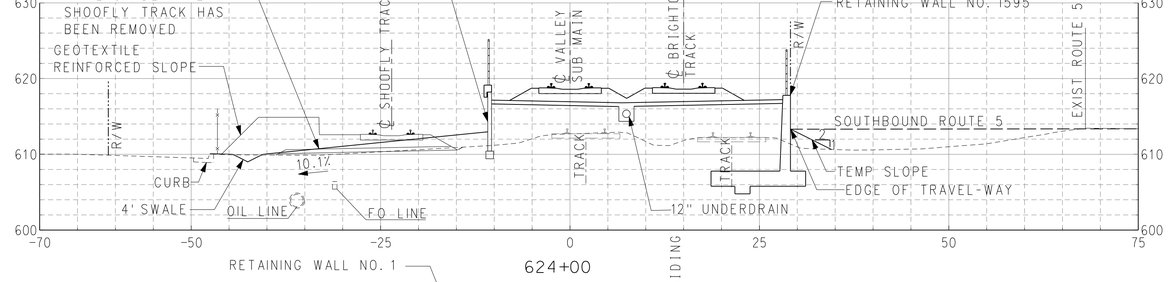
SCRRA
279 E. ARROW HIGHWAY
SAN DIMAS, CA 91773

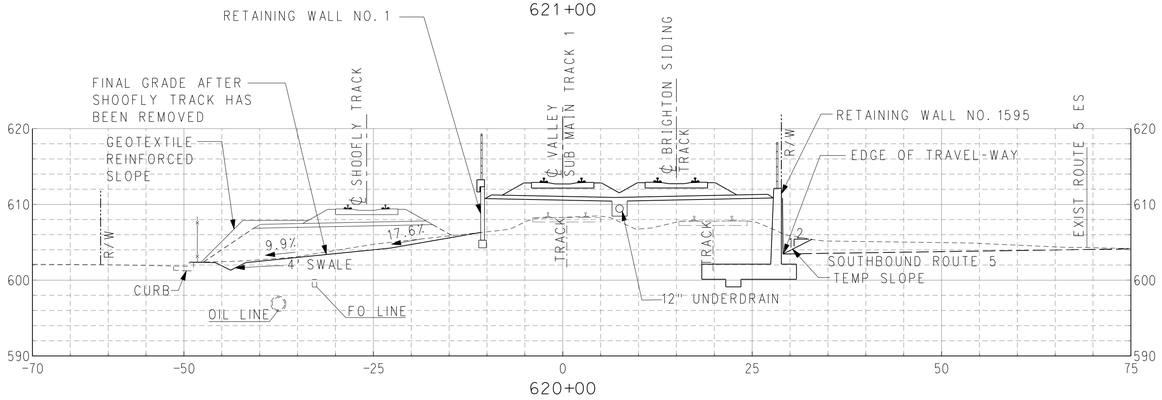
AECOM
515 SOUTH FLOWER ST, 4th FLOOR
LOS ANGELES, CA 90071

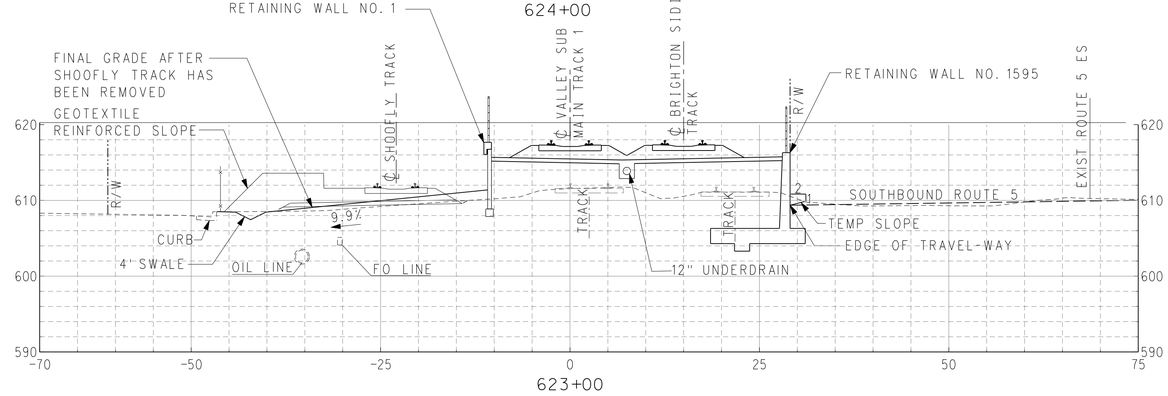












STATION 620+00 TO STATION 625+00

APPROVED FOR RAILROAD WORK.

10 5 0 10 20
1" = 10'-0"

RR - CROSS SECTIONS
SHEET 3 OF 27

RR-SC-003
RAILROAD SHEET NO.
135 OF 394

VERT 1"=10'

LAST REVISION 00-00-00

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
CONSULTANT FUNCTIONAL SUPERVISOR
PATRICK NICHOLSON
CALCULATED-DESIGNED BY
ANGELKA GRANDOV
CHECKED BY
RICHARD SILOS
REVISED BY
DATE REVISED

BORDER LAST REVISED 7/2/2010
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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1812
PROJECT NUMBER & PHASE 07000211191

NOTE:
CROSS SECTION REPRESENTS FINAL CONFIGURATION OF EMPIRE GRADE SEPERATION PROJECT. TEMPORARY SHOOFLY IS SHOWN FOR REFERENCE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1506	1931

Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

05-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — PATRICK NICHOLSON — No. C 40993 — Exp. 3-31-2013 — CIVIL — STATE OF CALIFORNIA

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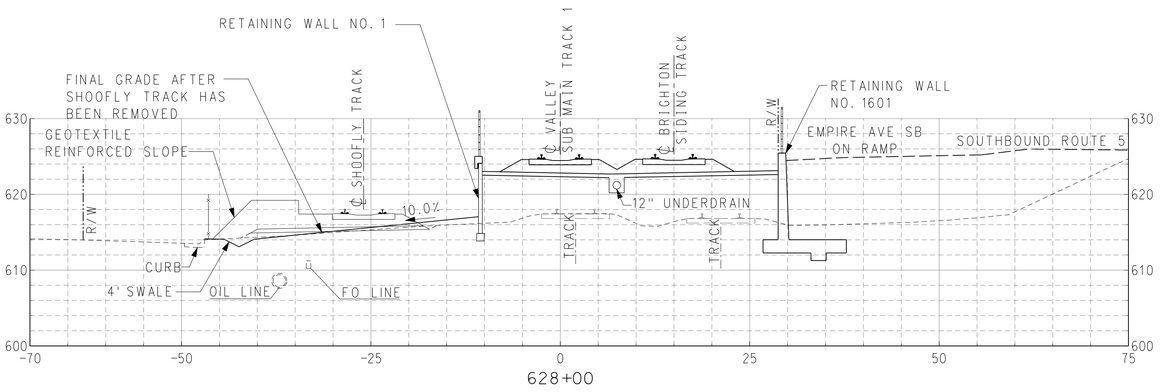
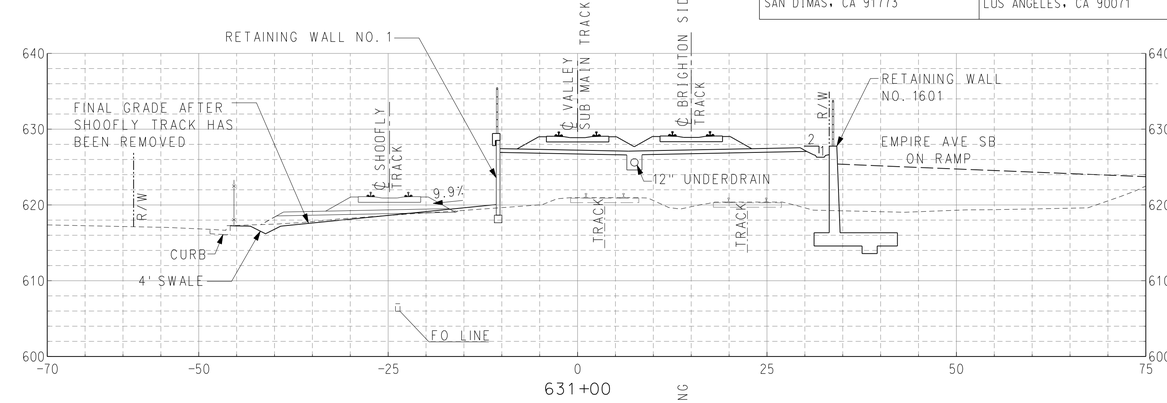
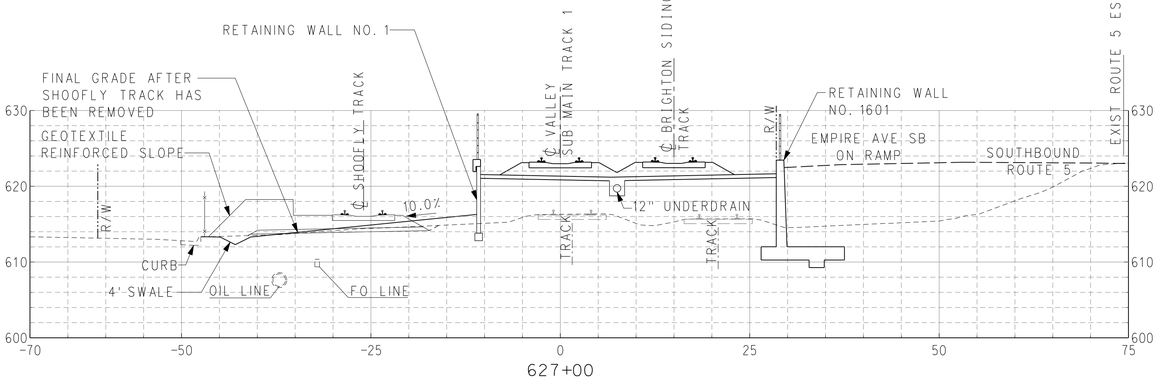
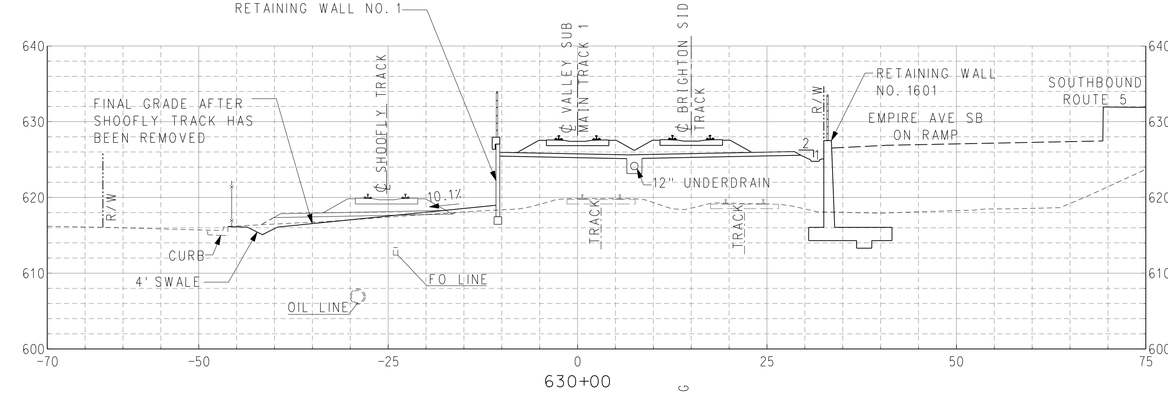
279 E. ARROW HIGHWAY
SAN DIMAS, CA 91773

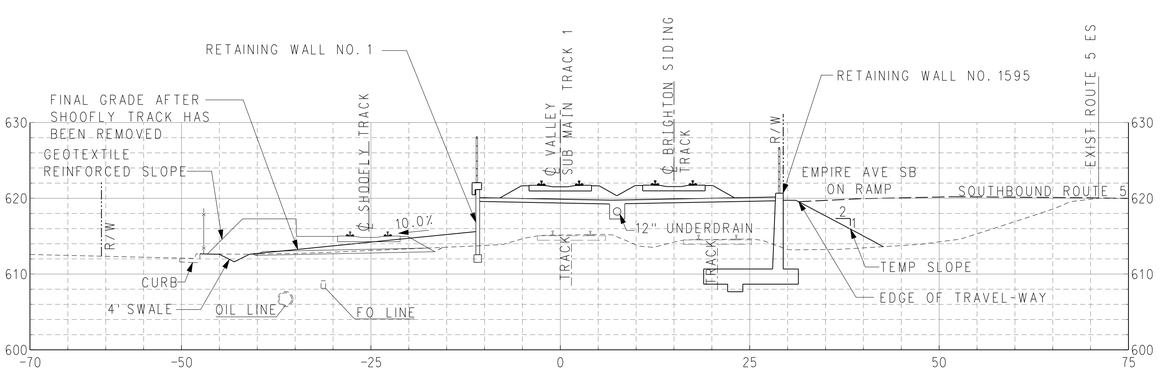
AECOM
515 SOUTH FLOWER ST. 4th FLOOR
LOS ANGELES, CA 90071

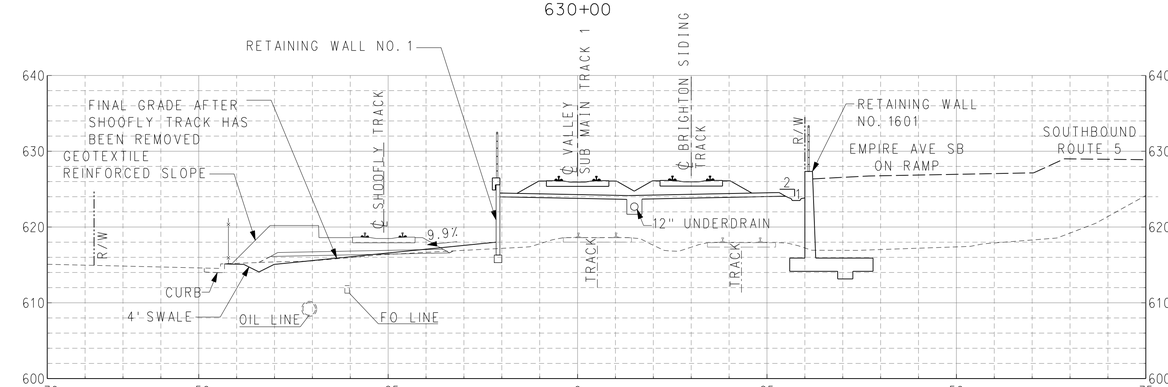












STATION 626+00 TO STATION 631+00

1" = 10'-0"

RR - CROSS SECTIONS
SHEET 4 OF 27

RR-SC-004

RAILROAD SHEET NO. 136 OF 394

VERT 1"=10'

APPROVED FOR RAILROAD WORK.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
Caltrans®
CONSULTANT FUNCTIONAL SUPERVISOR: PATRICK NICHOLSON
CALCULATED-DESIGNED BY: ANGELKA GRANDOV
CHECKED BY: RICHARD SILOS
REVISED BY
DATE REVISED

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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1812
PROJECT NUMBER & PHASE 07000211191

NOTE:
CROSS SECTION REPRESENTS FINAL CONFIGURATION OF EMPIRE GRADE SEPERATION PROJECT. TEMPORARY SHOOFLY IS SHOWN FOR REFERENCE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1507	1931

Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

05-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — PATRICK NICHOLSON — No. C 40993 — Exp. 3-31-2013 — CIVIL — STATE OF CALIFORNIA

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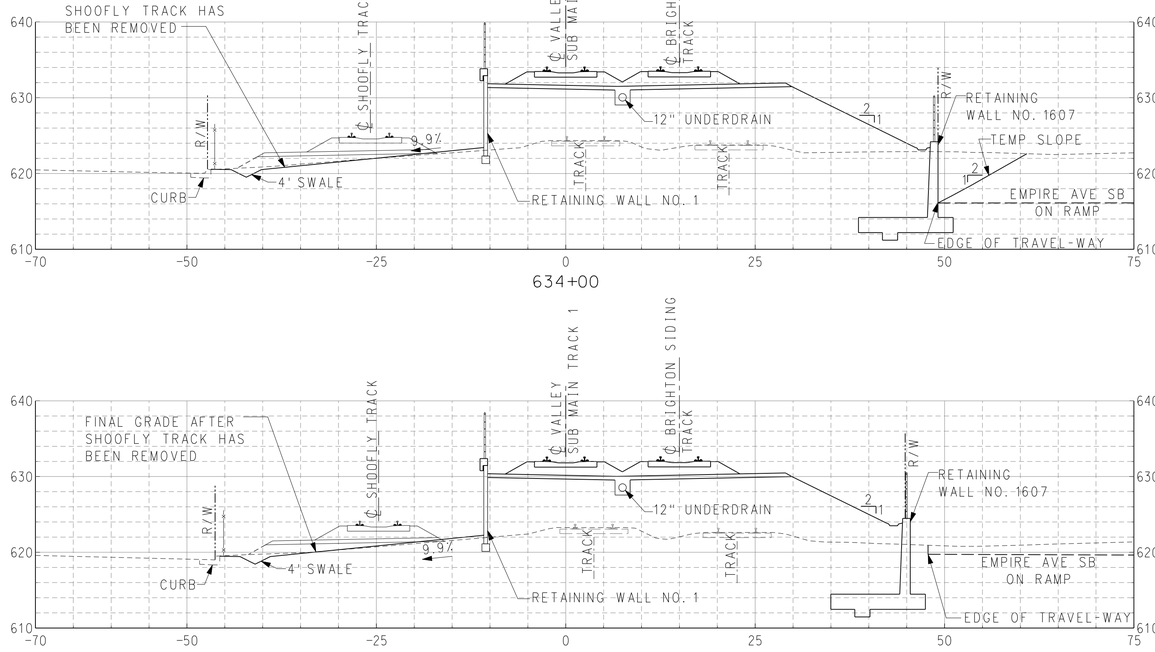
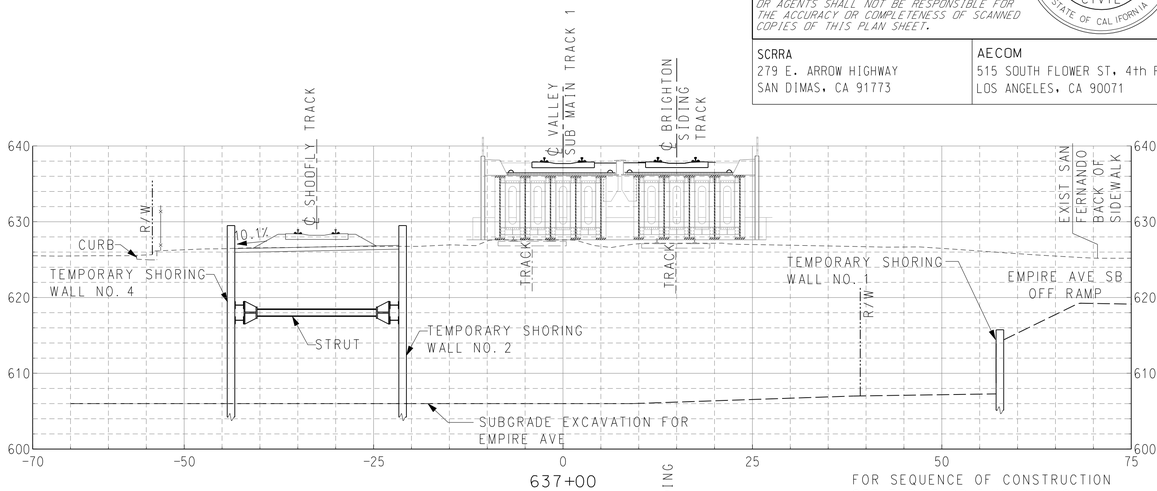
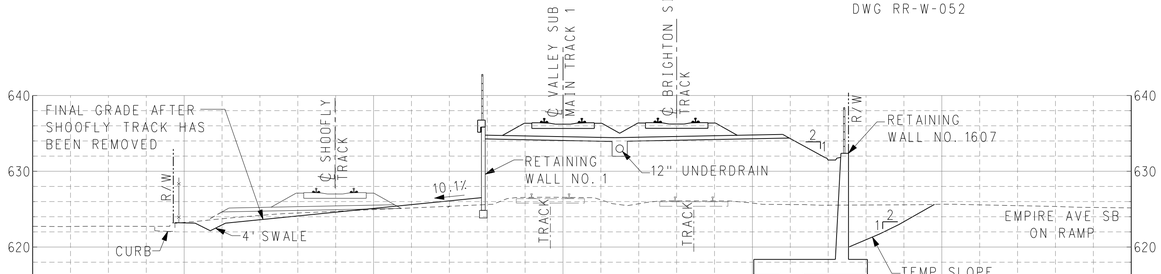
SCRRA
279 E. ARROW HIGHWAY
SAN DIMAS, CA 91773

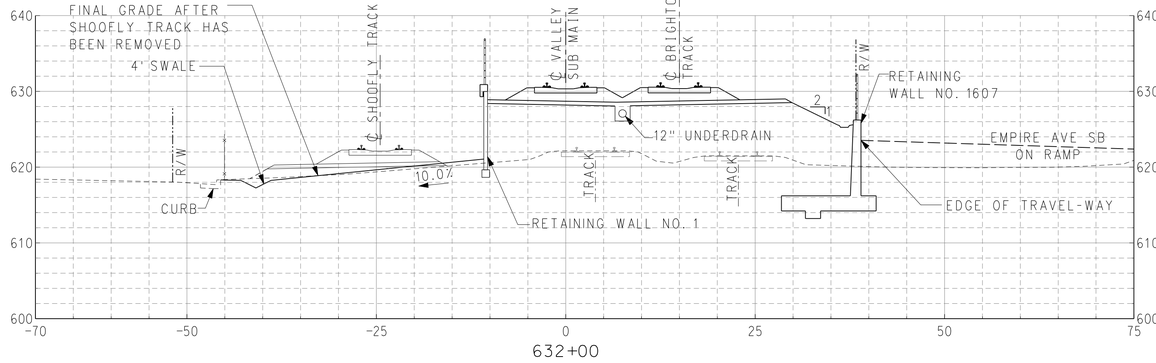
AECOM
515 SOUTH FLOWER ST. 4th FLOOR
LOS ANGELES, CA 90071

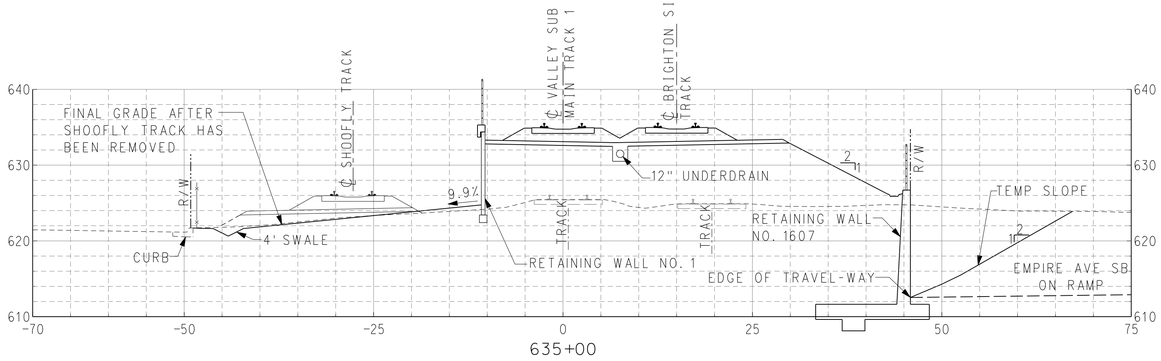




FOR SEQUENCE OF CONSTRUCTION SEE EMPIRE GRADING SECTION DWG RR-W-052







STATION 632+00 TO STATION 637+00

10 5 0 10 20
1" = 10'-0"

RR - CROSS SECTIONS
SHEET 5 OF 27

RR-SC-005

RAILROAD SHEET NO. 137 OF 394

VERT 1"=10'

APPROVED FOR RAILROAD WORK.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
CONSULTANT FUNCTIONAL SUPERVISOR: PATRICK NICHOLSON
CALCULATED-DESIGNED BY: ANGELKA GRANDOV
CHECKED BY: RICHARD SILOS
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1812
PROJECT NUMBER & PHASE 07000211191

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1508	1931

NOTE:
CROSS SECTION REPRESENTS FINAL CONFIGURATION OF EMPIRE GRADE SEPERATION PROJECT.
TEMPORARY SHOOFLY IS SHOWN FOR REFERENCE.

Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

05-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
PATRICK NICHOLSON
No. C 40993
Exp. 3-31-2013
CIVIL
STATE OF CALIFORNIA

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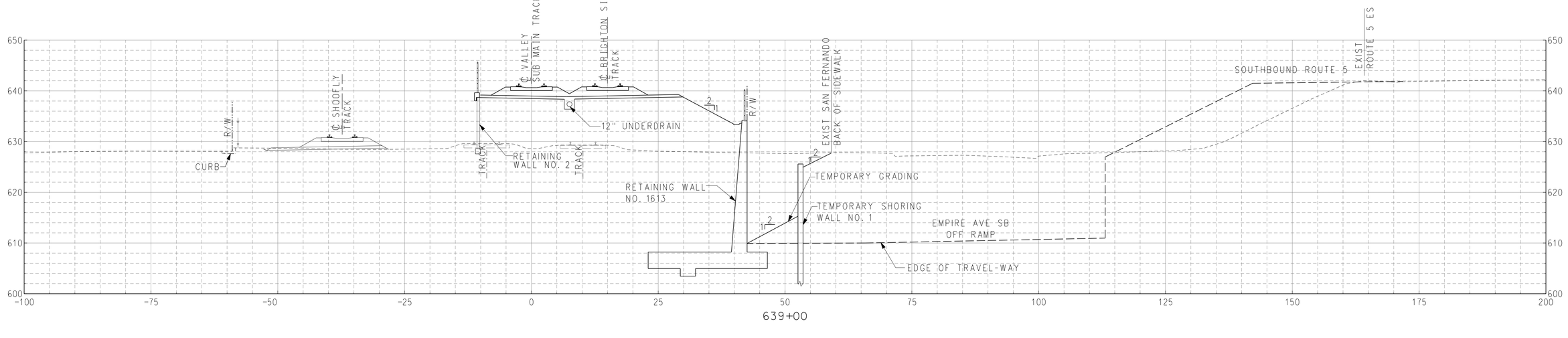
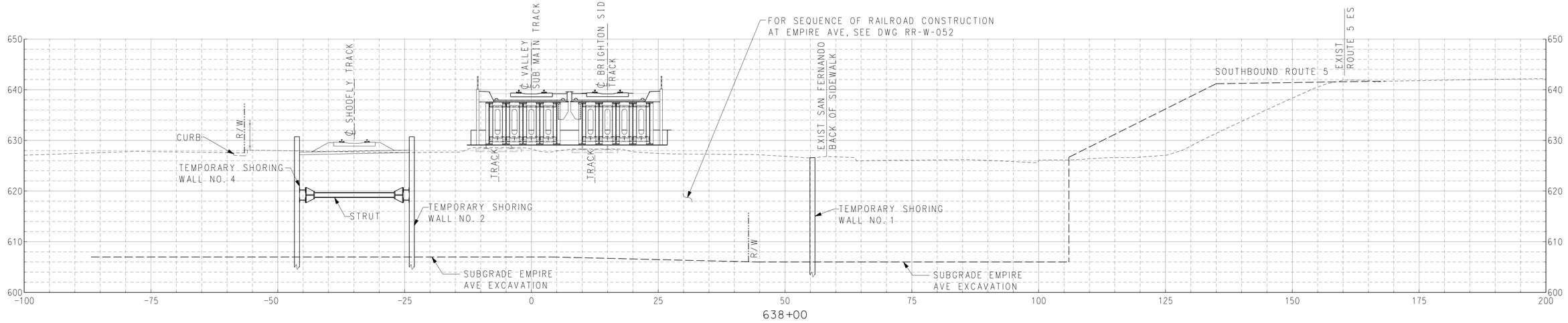
279 E. ARROW HIGHWAY
SAN DIMAS, CA 91773

AECOM
515 SOUTH FLOWER ST, 4th FLOOR
LOS ANGELES, CA 90071





STATION 638+00 TO STATION 639+00

APPROVED FOR RAILROAD WORK.

10 5 0 10 20
1" = 10'-0"

RR - CROSS SECTIONS
SHEET 6 OF 27

RR-SC-006
RAILROAD SHEET NO. 138 OF 394
VERT 1"=10'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
CONSULTANT FUNCTIONAL SUPERVISOR: PATRICK NICHOLSON
CALCULATED-DESIGNED BY
CHECKED BY
ANGELKA GRANDOV
RICHARD SILOS
REVISED BY
DATE REVISED

LAST REVISION DATE PLOTTED => 7/17/2012
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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1812
PROJECT NUMBER & PHASE 07000211191

NOTE:
CROSS SECTION REPRESENTS FINAL CONFIGURATION OF EMPIRE GRADE SEPERATION PROJECT.
TEMPORARY SHOOFLY IS SHOWN FOR REFERENCE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1509	1931

Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

PATRICK NICHOLSON No. C 40993 Exp. 3-31-2013 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

05-21-12
PLANS APPROVAL DATE

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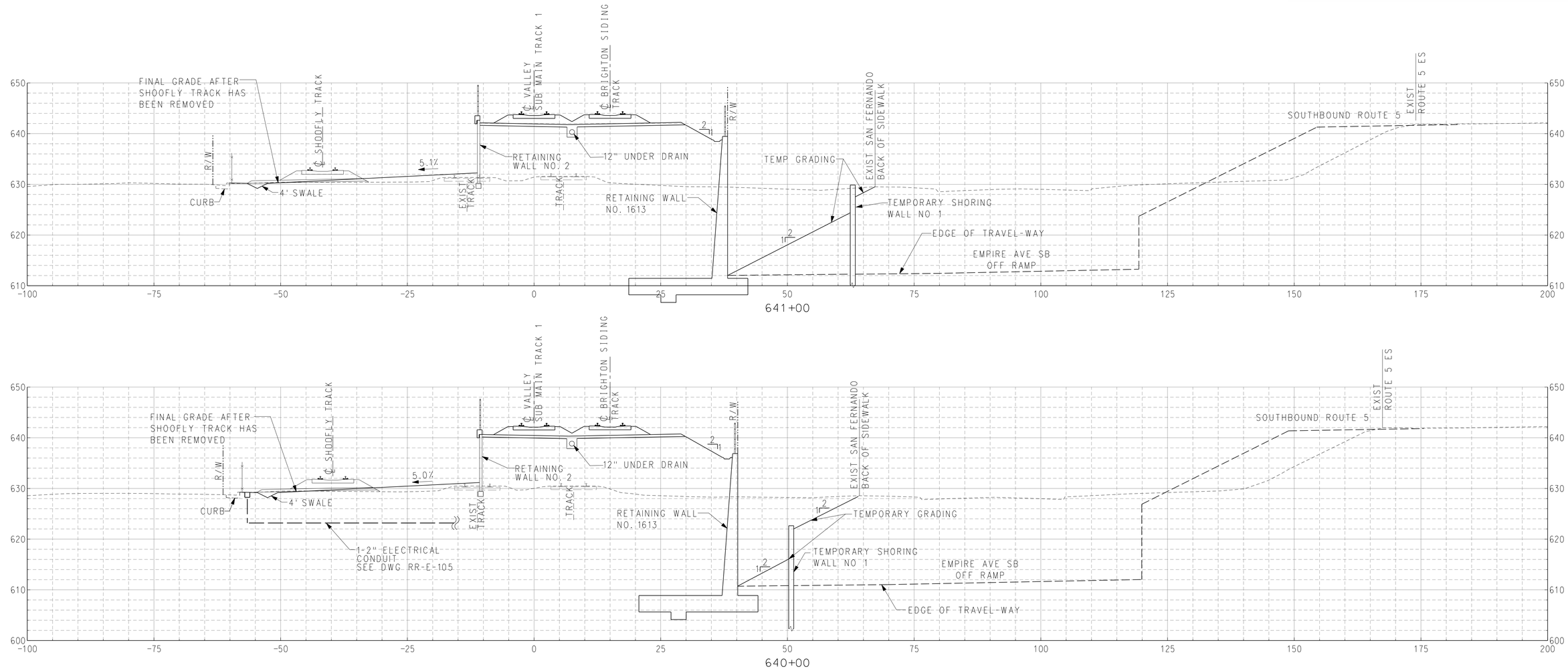
SCRRA
279 E. ARROW HIGHWAY
SAN DIMAS, CA 91773

AECOM
515 SOUTH FLOWER ST, 4th FLOOR
LOS ANGELES, CA 90071



STATION 640+00 TO STATION 641+00

APPROVED FOR RAILROAD WORK.

1" = 10'-0"

RR - CROSS SECTIONS
SHEET 7 OF 27

RR-SC-007
RAILROAD SHEET NO. 139 OF 394
VERT 1"=10'

LAST REVISION 00-00-00

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
CONSULTANT FUNCTIONAL SUPERVISOR: PATRICK NICHOLSON
CALCULATED-DESIGNED BY: ANGELKA GRANDOV
CHECKED BY: RICHARD SILOS
REVISED BY
DATE REVISED

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BORDER LAST REVISED 7/2/2010
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DGN FILE => ...\Civil\Sheet\E737B-SC-007.sht
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1812
PROJECT NUMBER & PHASE 07000211191

NOTE:
CROSS SECTION REPRESENTS FINAL CONFIGURATION OF EMPIRE GRADE SEPERATION PROJECT.
TEMPORARY SHOOFLY IS SHOWN FOR REFERENCE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1510	1931

Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

05-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — PATRICK NICHOLSON — No. C 40993 — Exp. 3-31-2013 — CIVIL — STATE OF CALIFORNIA

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515 SOUTH FLOWER ST. 4th FLOOR
LOS ANGELES, CA 90071

STATION 642+00 TO STATION 644+00

APPROVED FOR RAILROAD WORK.

10 5 0 10 20
1" = 10'-0"

RR - CROSS SECTIONS
SHEET 8 OF 27

RR-SC-008
RAILROAD SHEET NO. 140 OF 394
VERT 1"=10'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
CONSULTANT FUNCTIONAL SUPERVISOR: PATRICK NICHOLSON
CALCULATED-DESIGNED BY: ANGELKA GRANDOV
CHECKED BY: RICHARD SILOS
REVISED BY
DATE REVISED

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DATE PLOTTED => 7/17/2012
LAST REVISION 00-00-00

BORDER LAST REVISED 7/2/2010
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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1812
PROJECT NUMBER & PHASE 07000211191

NOTES:

1. ROUTE 5 OFF RAMP TO REMAIN OPEN DURING RAILROAD CONSTRUCTION.
2. CROSS SECTION REPRESENTS FINAL CONFIGURATION OF EMPIRE GRADE SEPERATION PROJECT. TEMPORARY SHOOFLY IS SHOWN FOR REFERENCE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1511	1931

Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

05-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — PATRICK NICHOLSON — No. C 40993 — Exp. 3-31-2013 — CIVIL — STATE OF CALIFORNIA

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SCRRA
279 E. ARROW HIGHWAY
SAN DIMAS, CA 91773

AECOM
515 SOUTH FLOWER ST. 4th FLOOR
LOS ANGELES, CA 90071

STATION 645+00 TO STATION 647+00

10 5 0 10 20
1" = 10'-0"

RR - CROSS SECTIONS
SHEET 9 OF 27

RR-SC-009
RAILROAD SHEET NO. 141 OF 394
VERT 1"=10'

LAST REVISION DATE PLOTTED => 7/17/2012 TIME PLOTTED => 5:54:53 PM
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APPROVED FOR RAILROAD WORK.

CALCULATED-DESIGNED BY ANGELKA GRANDOV
CHECKED BY RICHARD SILOS
REVISED BY
DATE REVISED
CONSULTANT FUNCTIONAL SUPERVISOR PATRICK NICHOLSON
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION DESIGN
Caltrans

BORDER LAST REVISED 7/2/2010
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DGN FILE => ...\Civil\Sheet\E737B-SC-009.sht
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1812
PROJECT NUMBER & PHASE 07000211191

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1512	1931

NOTES:

1. ROUTE 5 OFF RAMP TO REMAIN OPEN DURING RAILROAD CONSTRUCTION.
2. CROSS SECTION REPRESENTS FINAL CONFIGURATION OF EMPIRE GRADE SEPERATION PROJECT. TEMPORARY SHOOFLY IS SHOWN FOR REFERENCE.

Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

05-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — PATRICK NICHOLSON — No. C 40993 — Exp. 3-31-2013 — CIVIL — STATE OF CALIFORNIA

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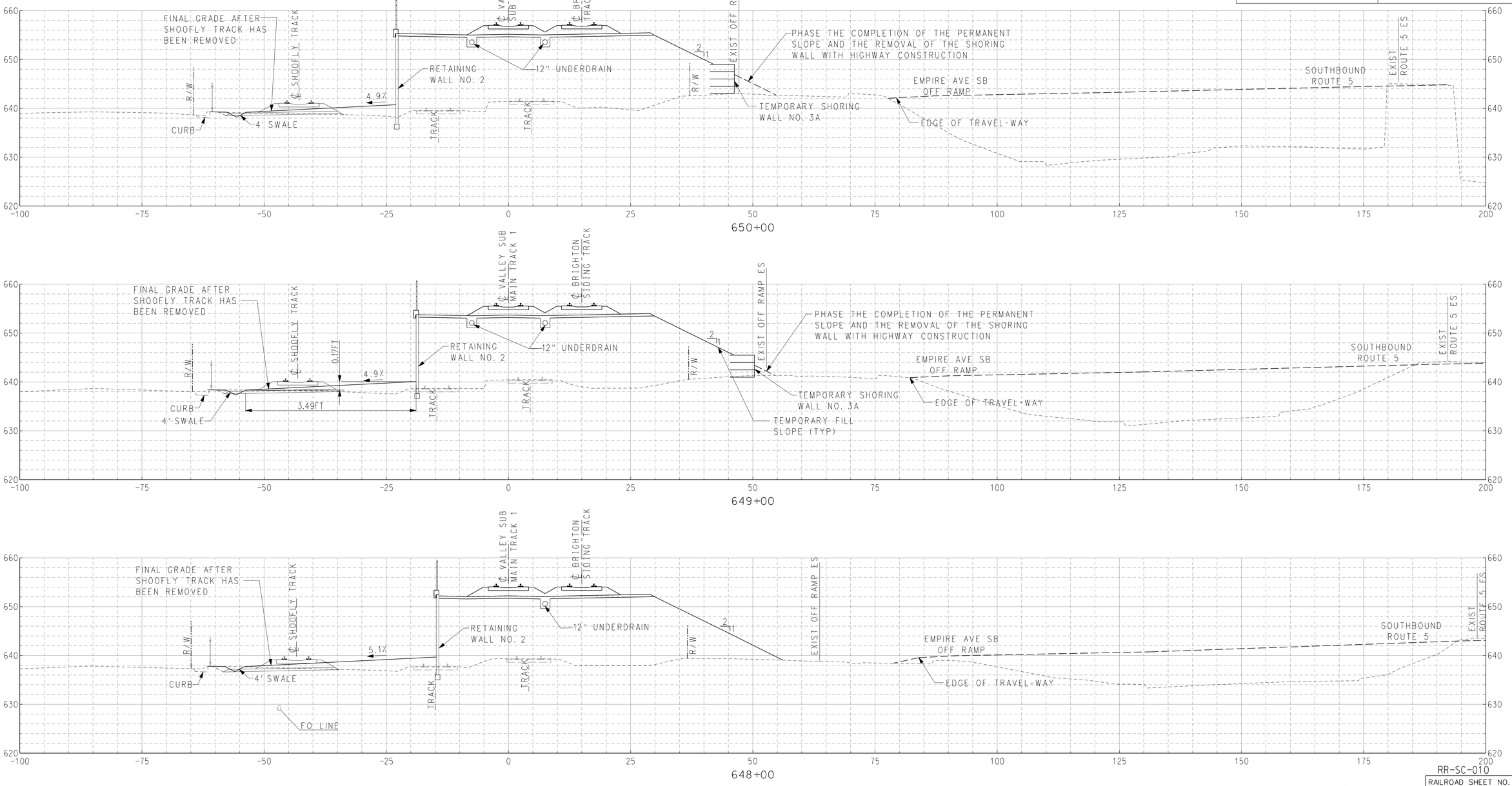
SCRRA
279 E. ARROW HIGHWAY
SAN DIMAS, CA 91773

AECOM
515 SOUTH FLOWER ST. 4th FLOOR
LOS ANGELES, CA 90071



STATION 648+00 TO STATION 650+00

APPROVED FOR RAILROAD WORK.

10 5 0 10 20
1" = 10'-0"

RR - CROSS SECTIONS
SHEET 10 OF 27

RR-SC-010
RAILROAD SHEET NO. 142 OF 394
VERT 1"=10'

LAST REVISION 00-00-00

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CHECKED BY	ANGELKA GRANDOV	RICHARD SILOS
CONSULTANT FUNCTIONAL SUPERVISOR	PATRICK NICHOLSON	
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGN	

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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1812
PROJECT NUMBER & PHASE 07000211191

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1513	1931

NOTES:

1. ROUTE 5 OFF RAMP TO REMAIN OPEN DURING RAILROAD CONSTRUCTION.
2. CROSS SECTION REPRESENTS FINAL CONFIGURATION OF EMPIRE GRADE SEPERATION PROJECT. TEMPORARY SHOOFLY IS SHOWN FOR REFERENCE.

Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER — PATRICK NICHOLSON — No. C 40993 — Exp. 3-31-2013 — CIVIL — STATE OF CALIFORNIA

05-21-12
PLANS APPROVAL DATE

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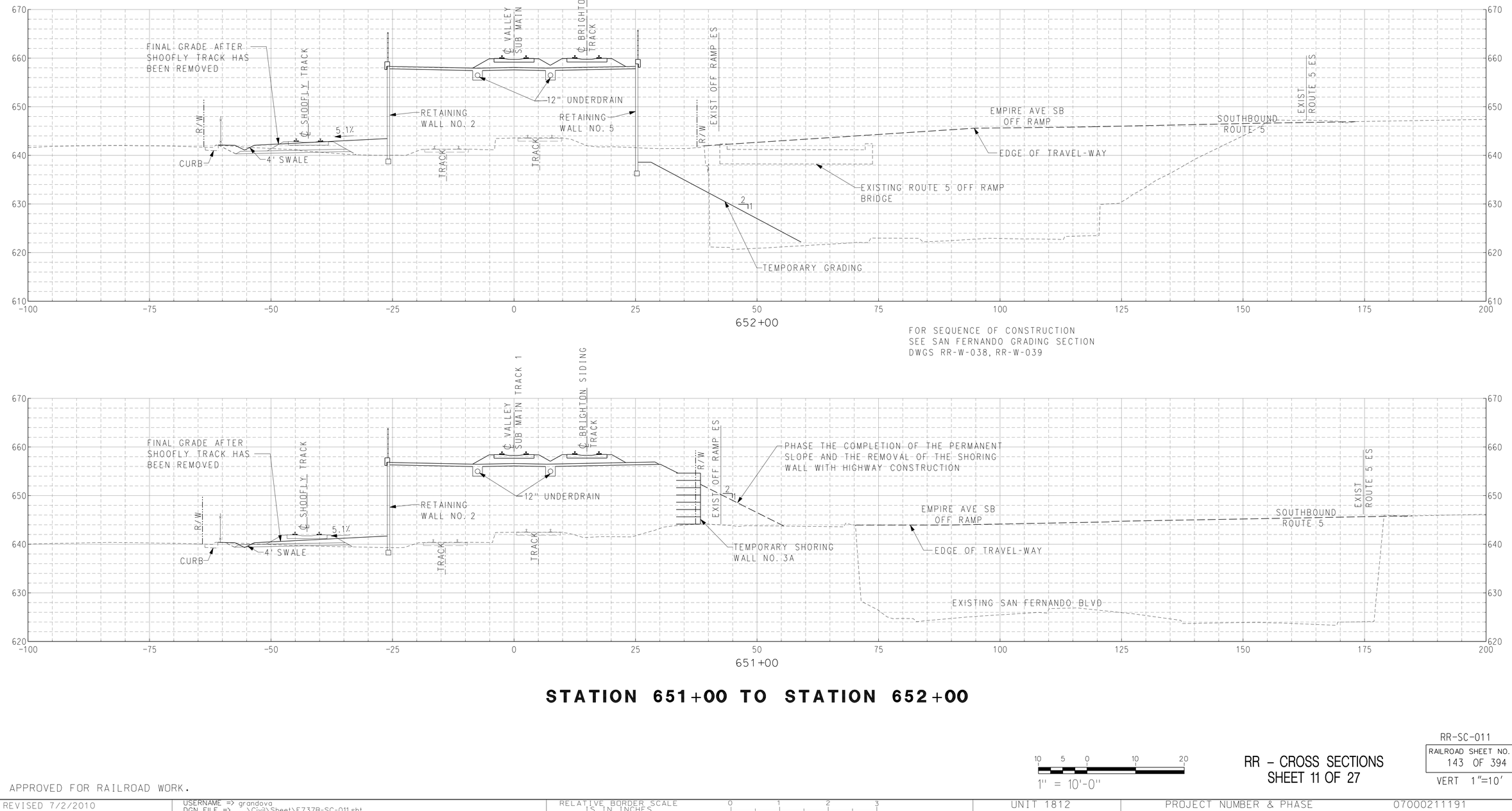
SCRRA
279 E. ARROW HIGHWAY
SAN DIMAS, CA 91773

AECOM
515 SOUTH FLOWER ST. 4th FLOOR
LOS ANGELES, CA 90071



STATION 651+00 TO STATION 652+00

APPROVED FOR RAILROAD WORK.

10 5 0 10 20
1" = 10'-0"

RR - CROSS SECTIONS
SHEET 11 OF 27

RR-SC-011
RAILROAD SHEET NO. 143 OF 394
VERT 1"=10'

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BORDER LAST REVISED 7/2/2010 | USERNAME => grandova | DGN FILE => ...\Civil\Sheet\E737B-SC-011.sht | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1812 | PROJECT NUMBER & PHASE 07000211191

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1514	1931

Patrick Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

05-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — PATRICK NICHOLSON — No. C 40993 — Exp. 3-31-2013 — CIVIL — STATE OF CALIFORNIA

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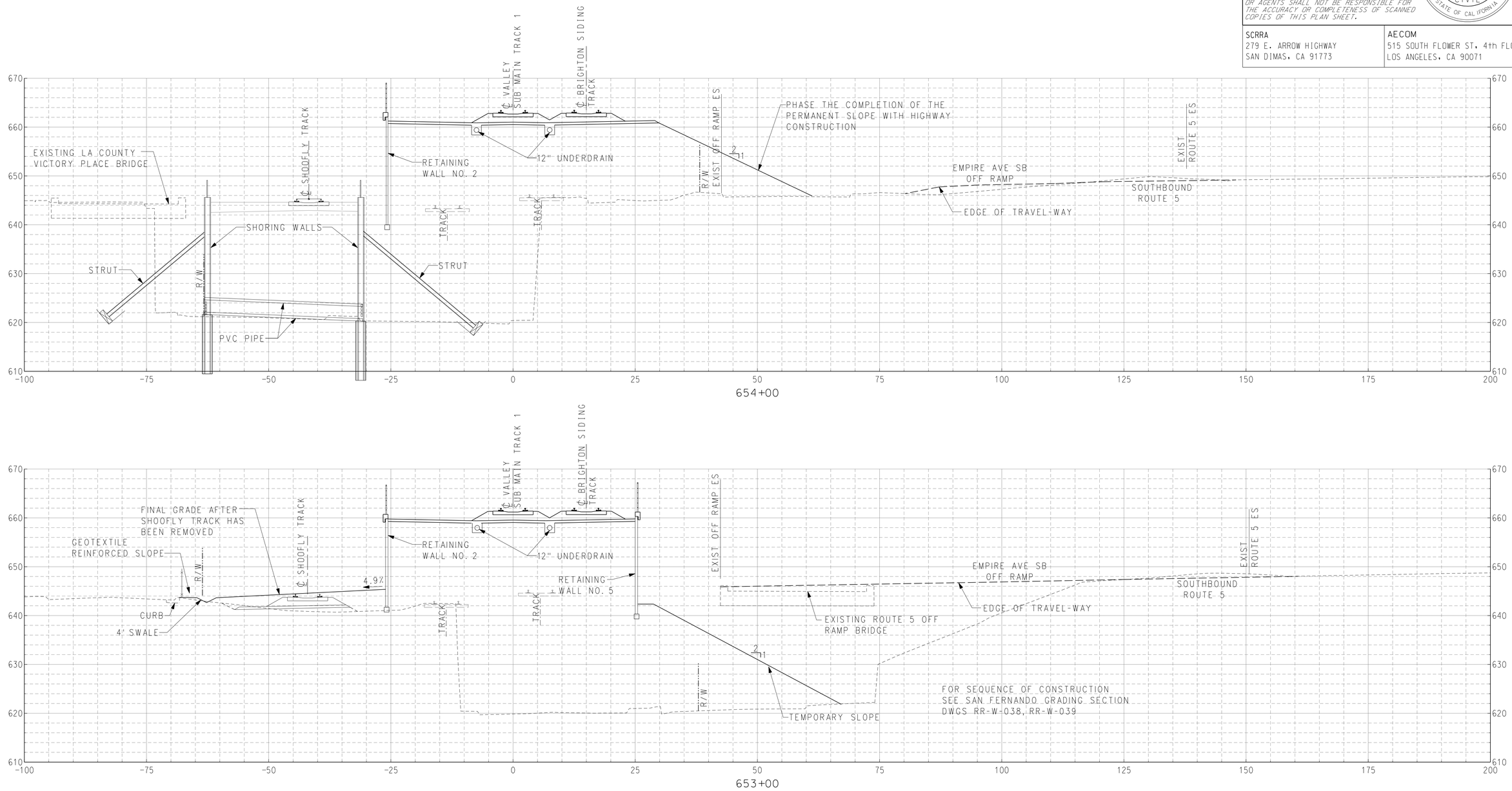
SCRRA
279 E. ARROW HIGHWAY
SAN DIMAS, CA 91773

AECOM
515 SOUTH FLOWER ST, 4th FLOOR
LOS ANGELES, CA 90071

NOTES:

1. ROUTE 5 OFF RAMP TO REMAIN OPEN DURING RAILROAD CONSTRUCTION.
2. CROSS SECTION REPRESENTS FINAL CONFIGURATION OF EMPIRE GRADE SEPERATION PROJECT. TEMPORARY SHOOFLY IS SHOWN FOR REFERENCE.



STATION 653+00 TO STATION 654+00

APPROVED FOR RAILROAD WORK.

10 5 0 10 20
1" = 10'-0"

RR - CROSS SECTIONS
SHEET 12 OF 27

RR-SC-012
RAILROAD SHEET NO. 144 OF 394
VERT 1"=10'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
DESIGN
CONSULTANT FUNCTIONAL SUPERVISOR: PATRICK NICHOLSON
CALCULATED-DESIGNED BY: ANGELKA GRANDOV
CHECKED BY: RICHARD SILOS
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1515	1931

NOTES:

1. ROUTE 5 OFF RAMP TO REMAIN OPEN DURING RAILROAD CONSTRUCTION.
2. CROSS SECTION REPRESENTS FINAL CONFIGURATION OF EMPIRE GRADE SEPERATION PROJECT. TEMPORARY SHOOFLY IS SHOWN FOR REFERENCE.

Patrick Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER — PATRICK NICHOLSON — No. C 40993 — Exp. 3-31-2013 — CIVIL — STATE OF CALIFORNIA

05-21-12
PLANS APPROVAL DATE

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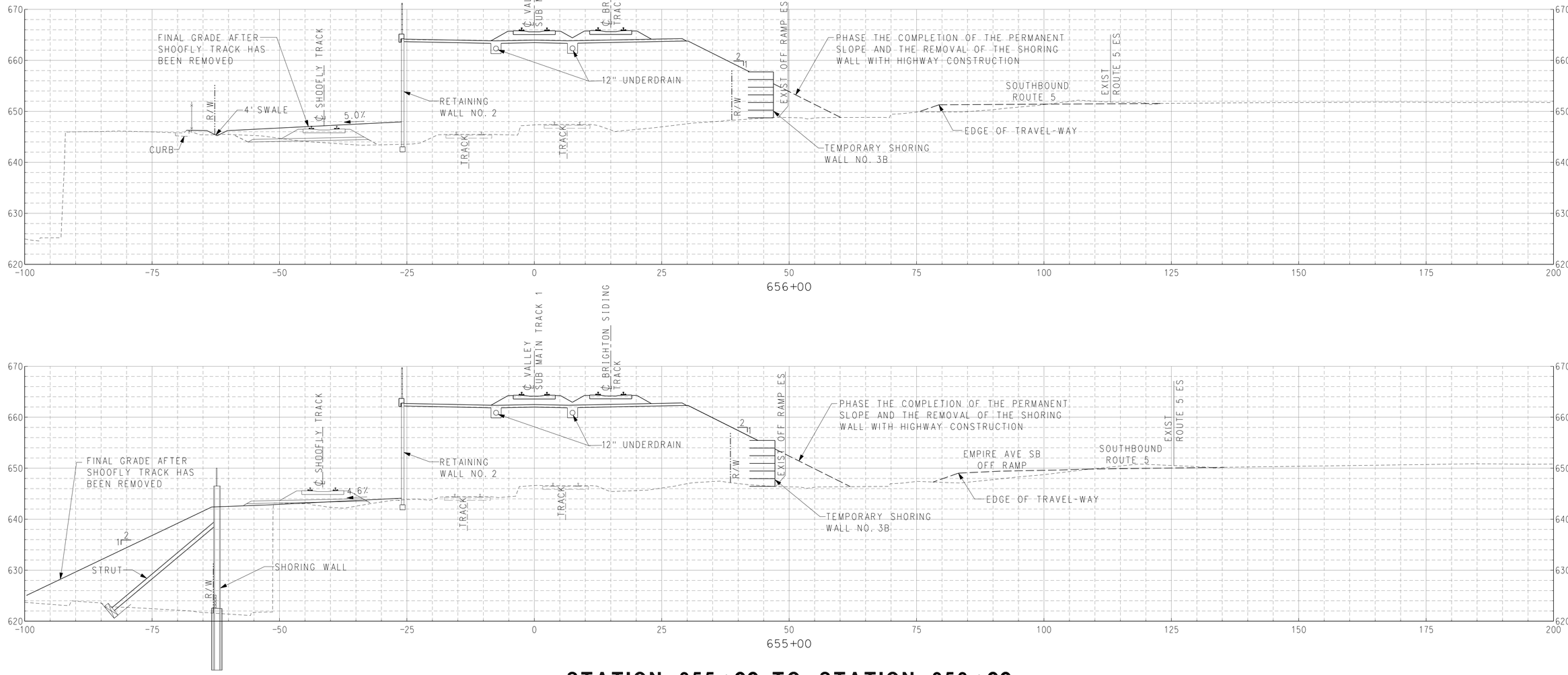
SCRRA
279 E. ARROW HIGHWAY
SAN DIMAS, CA 91773

AECOM
515 SOUTH FLOWER ST. 4th FLOOR
LOS ANGELES, CA 90071



STATION 655+00 TO STATION 656+00

1" = 10'-0"

RR - CROSS SECTIONS
SHEET 13 OF 27

RR-SC-013
RAILROAD SHEET NO. 145 OF 394
VERT 1"=10'

APPROVED FOR RAILROAD WORK.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION | DESIGN | CONSULTANT FUNCTIONAL SUPERVISOR: PATRICK NICHOLSON | CALCULATED-DESIGNED BY | CHECKED BY | ANGELKA GRANDOV | RICHARD SILOS | REVISED BY | DATE REVISED | Caltrans®

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1516	1931

Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

05-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
PATRICK NICHOLSON
No. C 40993
Exp. 3-31-2013
CIVIL
STATE OF CALIFORNIA

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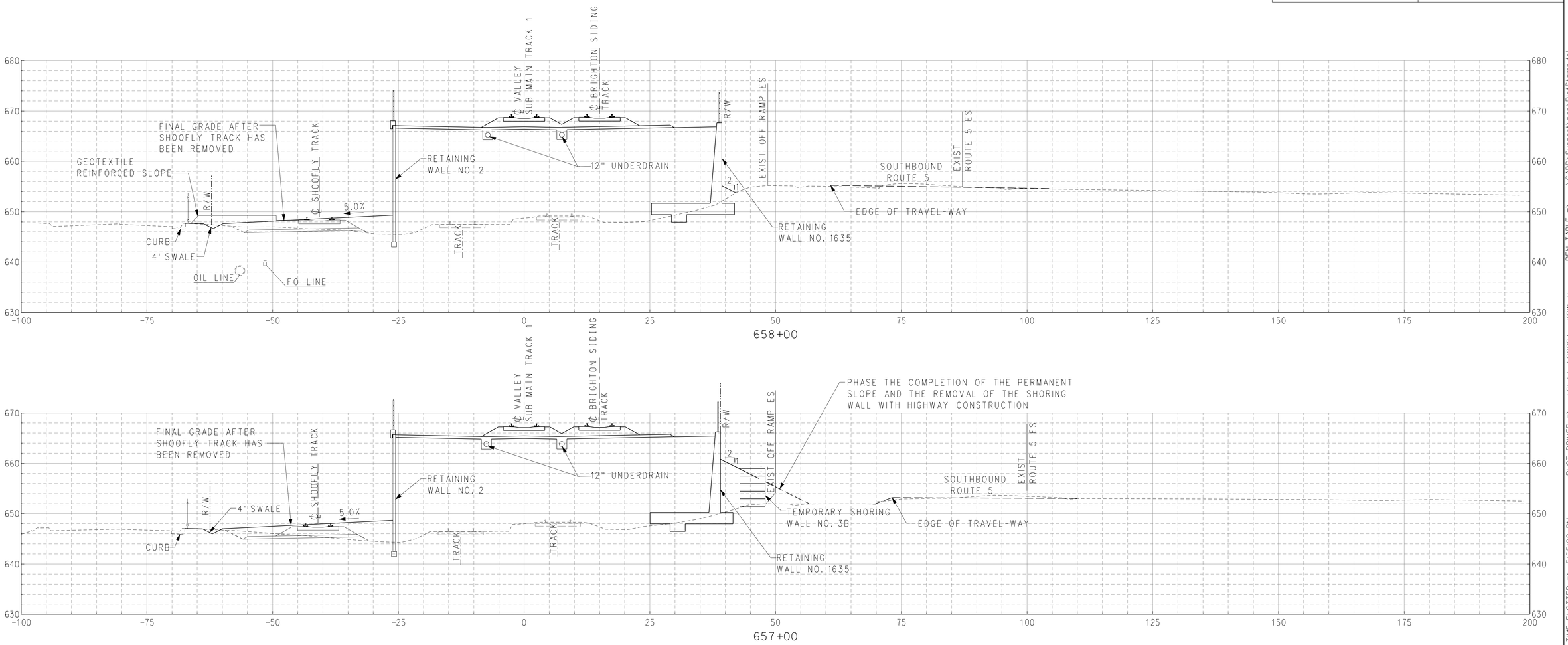
SCRRA
279 E. ARROW HIGHWAY
SAN DIMAS, CA 91773

AECOM
515 SOUTH FLOWER ST. 4th FLOOR
LOS ANGELES, CA 90071

NOTES:

1. ROUTE 5 OFF RAMP TO REMAIN OPEN DURING RAILROAD CONSTRUCTION.
2. CROSS SECTION REPRESENTS FINAL CONFIGURATION OF EMPIRE GRADE SEPERATION PROJECT. TEMPORARY SHOOFLY IS SHOWN FOR REFERENCE.



STATION 657+00 TO STATION 658+00

APPROVED FOR RAILROAD WORK.

10 5 0 10 20
1" = 10'-0"

RR - CROSS SECTIONS
SHEET 14 OF 27

RR-SC-014
RAILROAD SHEET NO.
146 OF 394
VERT 1"=10'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
CONSULTANT FUNCTIONAL SUPERVISOR PATRICK NICHOLSON
CALCULATED-DESIGNED BY
CHECKED BY
REVISED BY ANGELKA GRANDOV
DATE REVISED RICHARD SILOS

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LAST REVISION 00-00-00

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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1812
PROJECT NUMBER & PHASE 07000211191

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1517	1931

Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

05-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — PATRICK NICHOLSON — No. C 40993 — Exp. 3-31-2013 — CIVIL — STATE OF CALIFORNIA

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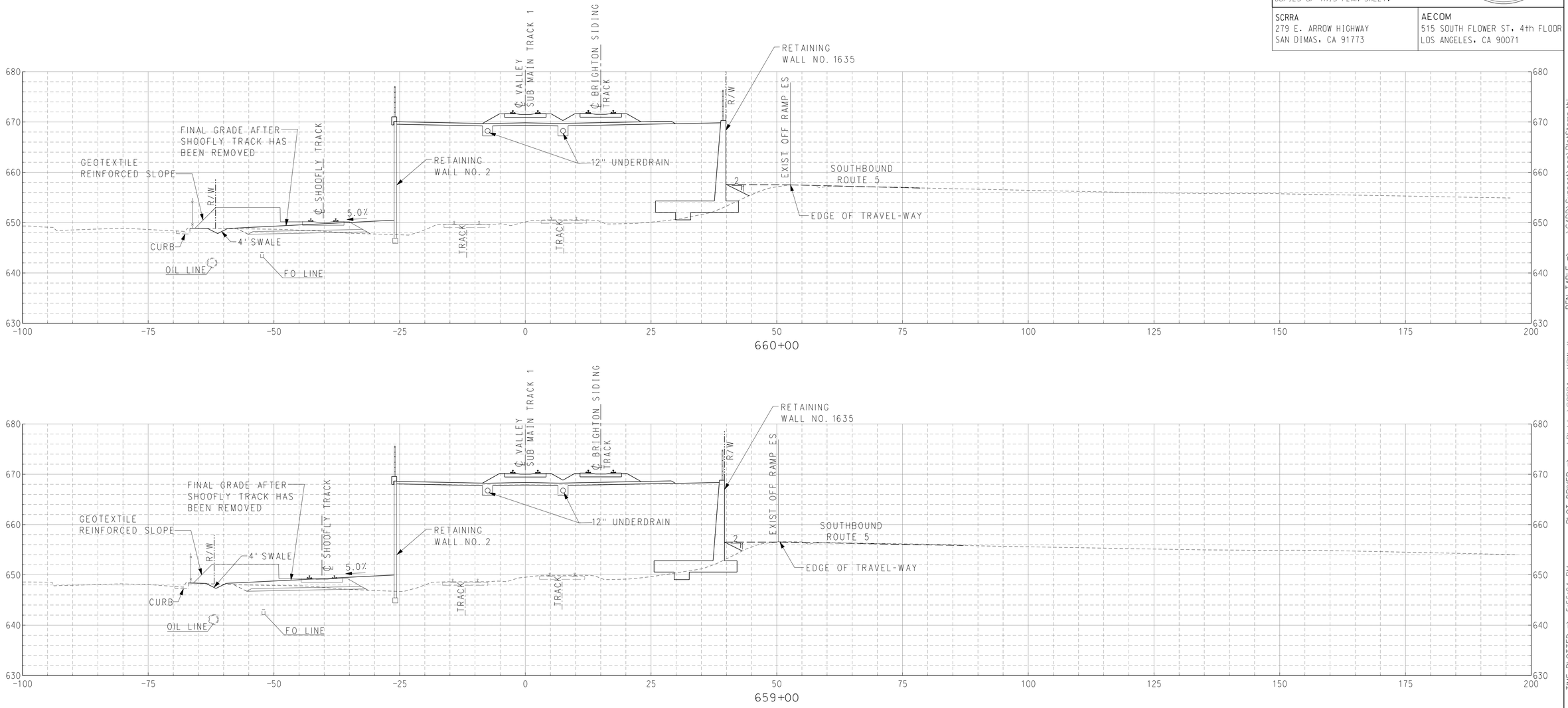
SCRRA
279 E. ARROW HIGHWAY
SAN DIMAS, CA 91773

AECOM
515 SOUTH FLOWER ST, 4th FLOOR
LOS ANGELES, CA 90071

NOTES:

1. ROUTE 5 OFF RAMP TO REMAIN OPEN DURING RAILROAD CONSTRUCTION.
2. CROSS SECTION REPRESENTS FINAL CONFIGURATION OF EMPIRE GRADE SEPERATION PROJECT. TEMPORARY SHOOFLY IS SHOWN FOR REFERENCE.



STATION 659+00 TO STATION 660+00

APPROVED FOR RAILROAD WORK.

10 5 0 10 20
1" = 10'-0"

RR - CROSS SECTIONS
SHEET 15 OF 27

RR-SC-015

RAILROAD SHEET NO. 147 OF 394

VERT 1"=10'

LAST REVISION 00-00-00

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
CONSULTANT FUNCTIONAL SUPERVISOR: PATRICK NICHOLSON
CALCULATED-DESIGNED BY: ANGELKA GRANDOV
CHECKED BY: RICHARD SILOS
REVISED BY | DATE REVISED

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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1812
PROJECT NUMBER & PHASE 07000211191

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1518	1931

NOTES:

1. ROUTE 5 OFF RAMP TO REMAIN OPEN DURING RAILROAD CONSTRUCTION.
2. CROSS SECTION REPRESENTS FINAL CONFIGURATION OF EMPIRE GRADE SEPERATION PROJECT. TEMPORARY SHOOFLY IS SHOWN FOR REFERENCE.

Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER — PATRICK NICHOLSON — No. C 40993 — Exp. 3-31-2013 — CIVIL — STATE OF CALIFORNIA

05-21-12
PLANS APPROVAL DATE

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SCRRA
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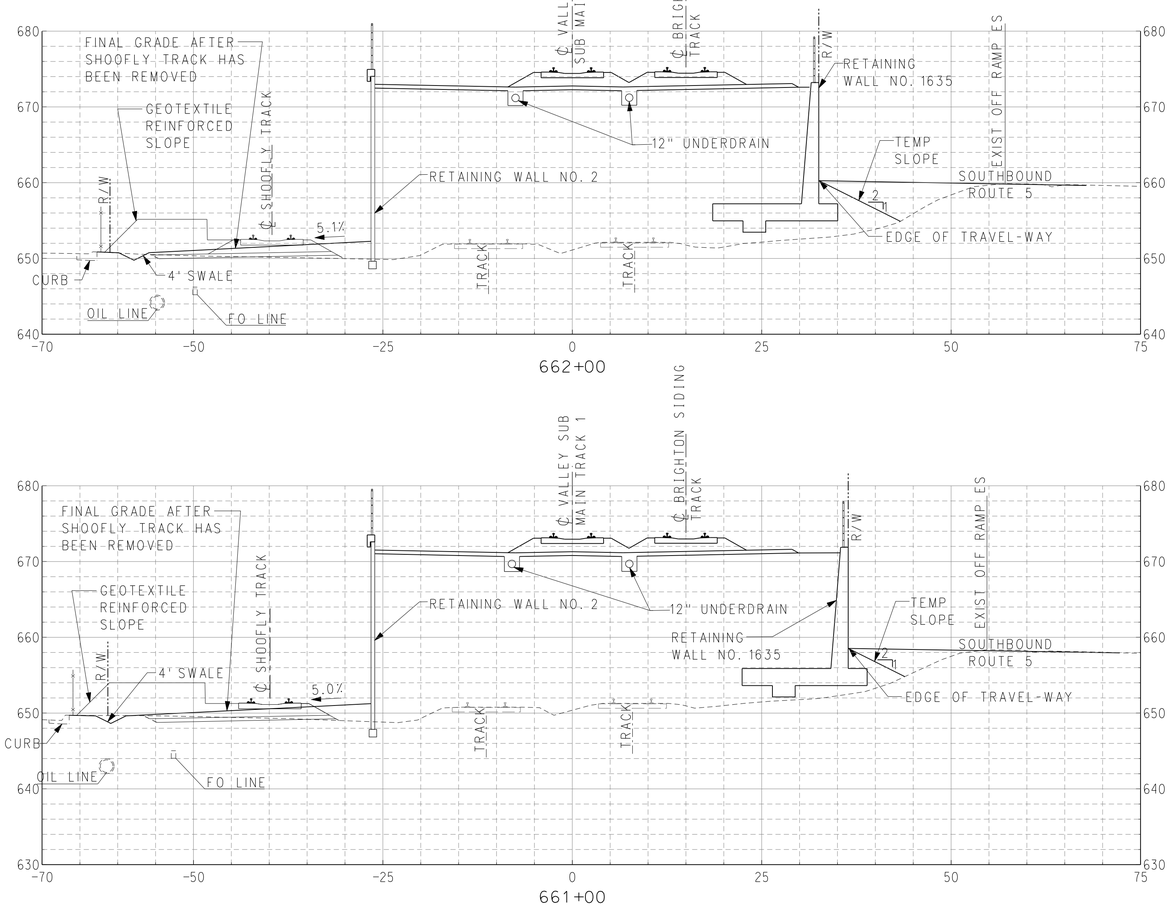
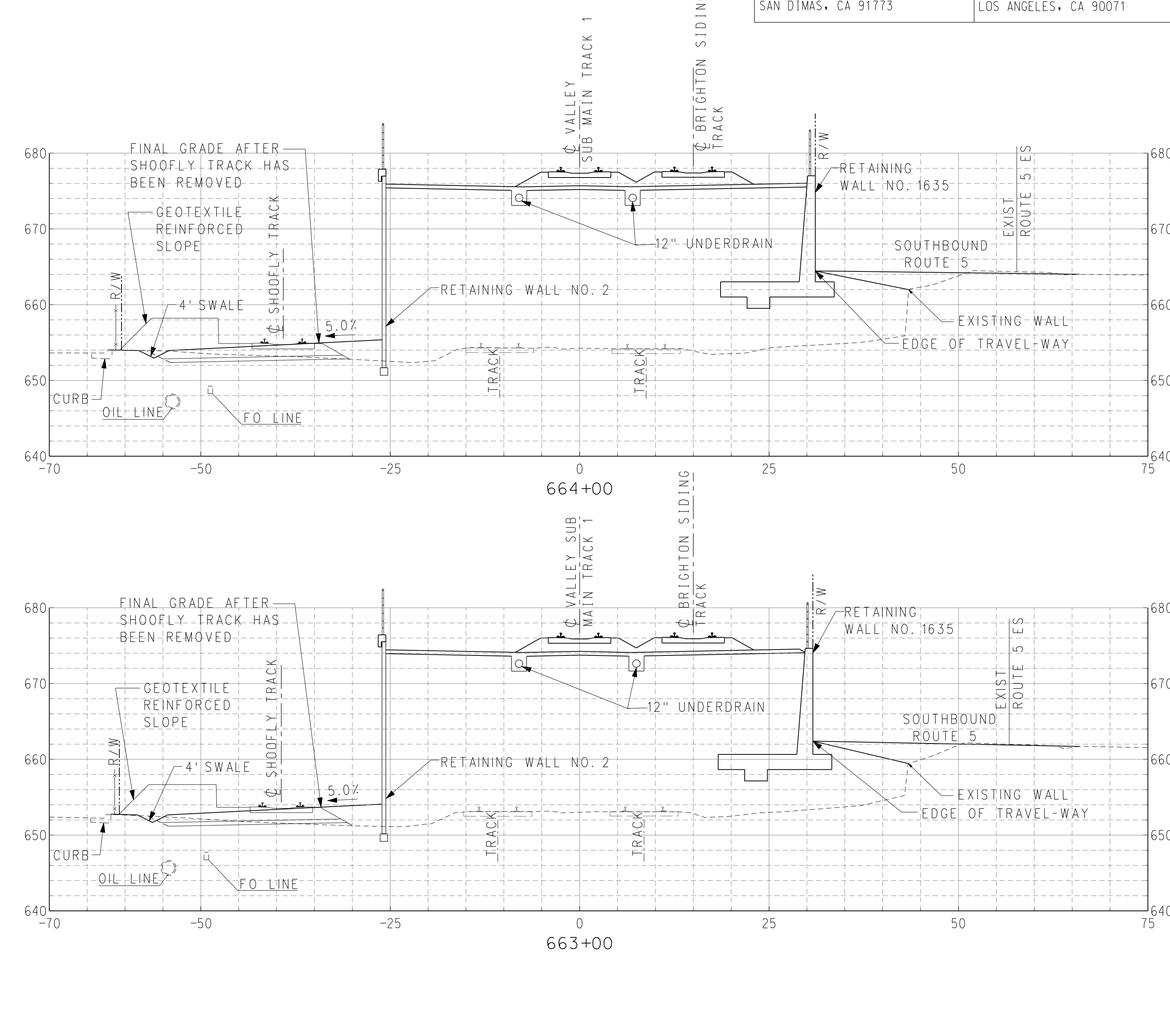
SAN DIMAS, CA 91773

AECOM
515 SOUTH FLOWER ST. 4th FLOOR
LOS ANGELES, CA 90071





STATION 661+00 TO STATION 664+00

APPROVED FOR RAILROAD WORK.

10 5 0 10 20
1" = 10'-0"

RR - CROSS SECTIONS
SHEET 16 OF 27

RR-SC-016
RAILROAD SHEET NO. 148 OF 394
VERT 1"=10'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
CONSULTANT FUNCTIONAL SUPERVISOR: PATRICK NICHOLSON
CALCULATED-DESIGNED BY
CHECKED BY
ANGELKA GRANDOV
RICHARD SILOS
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1812
PROJECT NUMBER & PHASE 07000211191

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1519	1931

NOTE:
CROSS SECTION REPRESENTS FINAL CONFIGURATION OF EMPIRE GRADE SEPERATION PROJECT. TEMPORARY SHOOFLY IS SHOWN FOR REFERENCE.

Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

05-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — PATRICK NICHOLSON — No. C 40993 — Exp. 3-31-2013 — CIVIL — STATE OF CALIFORNIA

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SCRRA
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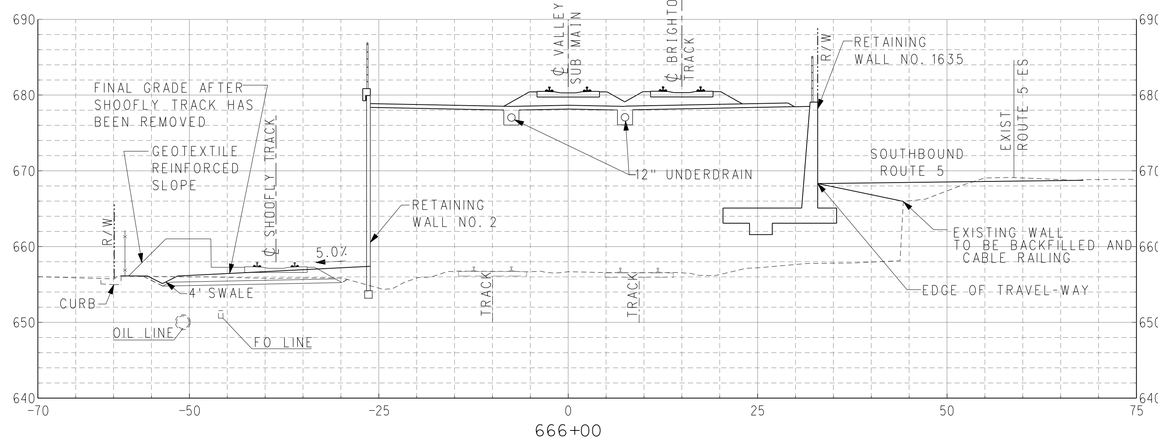
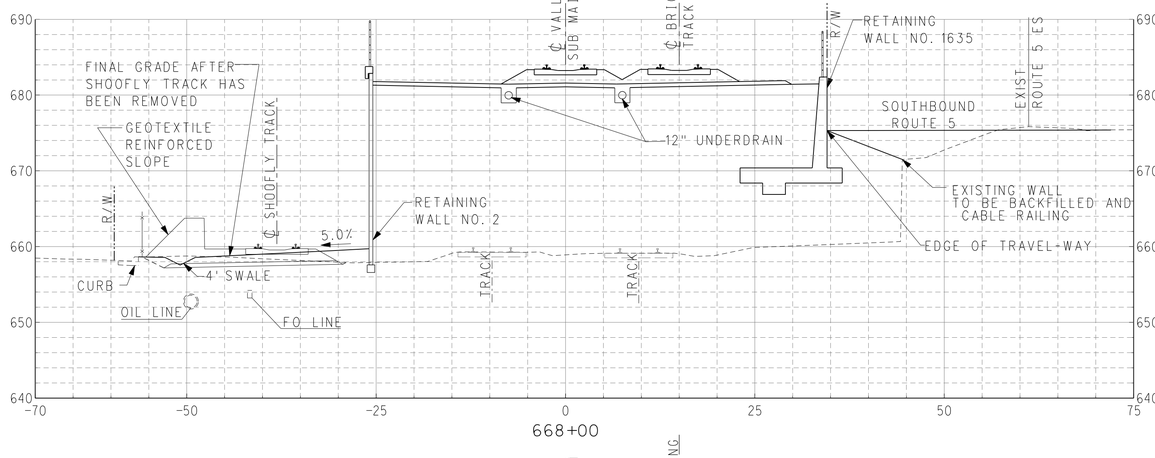
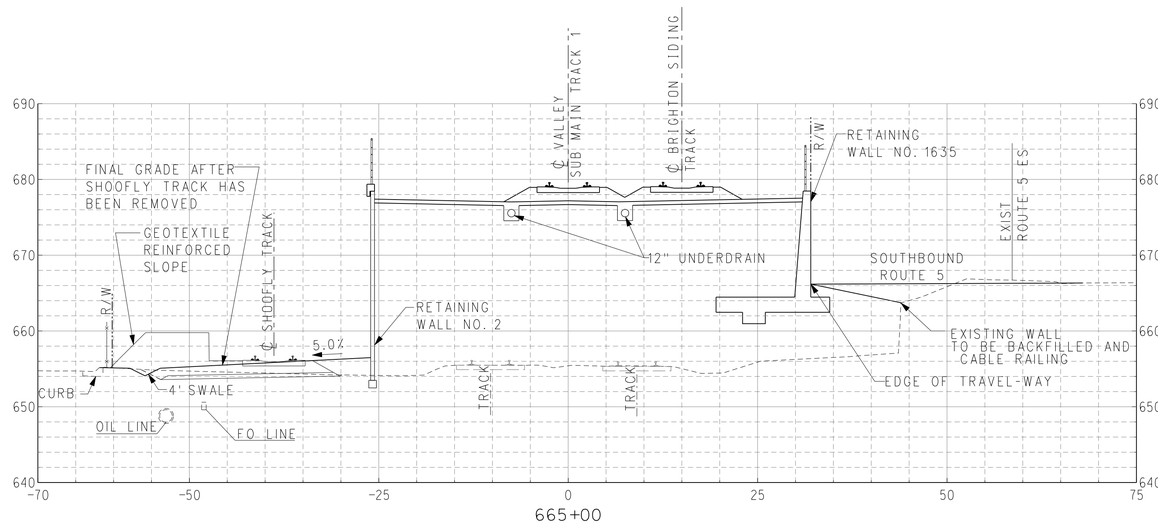
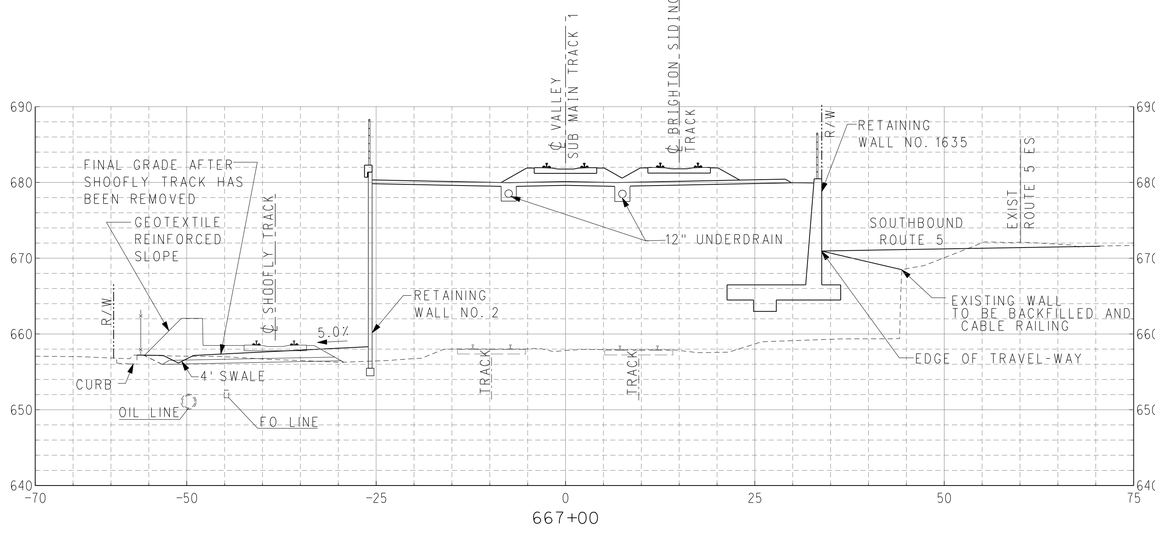
SAN DIMAS, CA 91773

AECOM
515 SOUTH FLOWER ST, 4th FLOOR
LOS ANGELES, CA 90071









STATION 665+00 TO STATION 668+00

1" = 10'-0"

RR - CROSS SECTIONS
SHEET 17 OF 27

RR-SC-017

RAILROAD SHEET NO.
149 OF 394

VERT 1"=10'

APPROVED FOR RAILROAD WORK.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
Caltrans®

CONSULTANT FUNCTIONAL SUPERVISOR: PATRICK NICHOLSON
CALCULATED-DESIGNED BY: ANGELKA GRANDOV
CHECKED BY: RICHARD SILOS
REVISED BY
DATE REVISED
FOR

BORDER LAST REVISED 7/2/2010
USERNAME => grandova
DGN FILE => ...\Civil\Sheet\E737B-SC-017.sht
RELATIVE BORDER SCALE IS IN INCHES
UNIT 1812
PROJECT NUMBER & PHASE 07000211191

LAST REVISION 00-00-00
DATE PLOTTED => 7/17/2012
TIME PLOTTED => 5:55:07 PM
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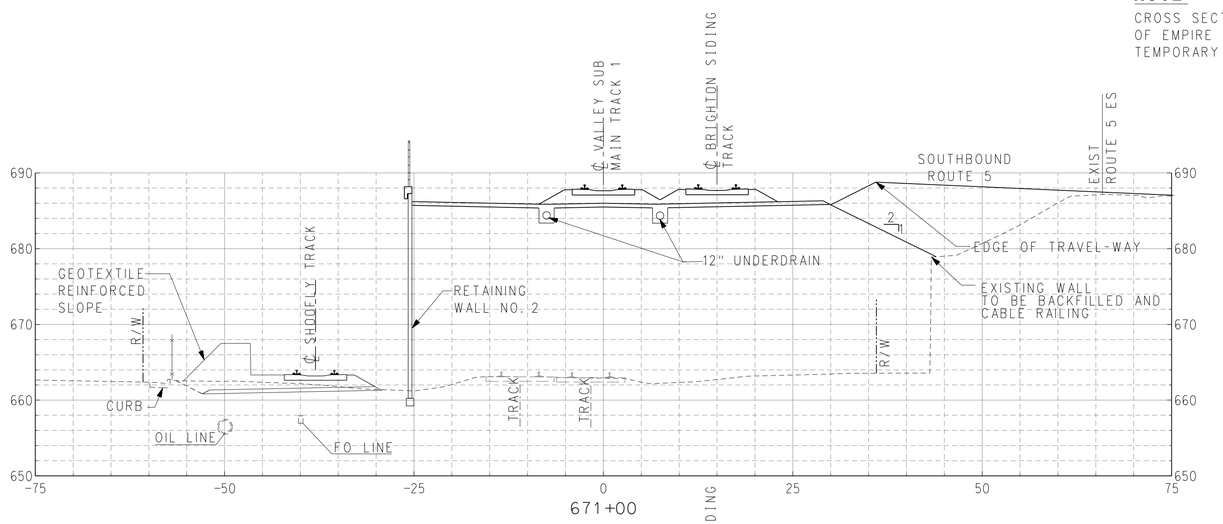
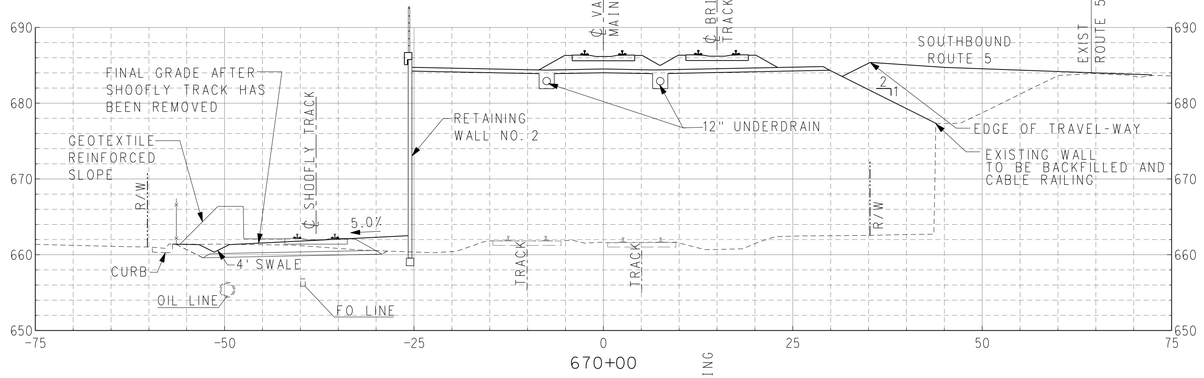
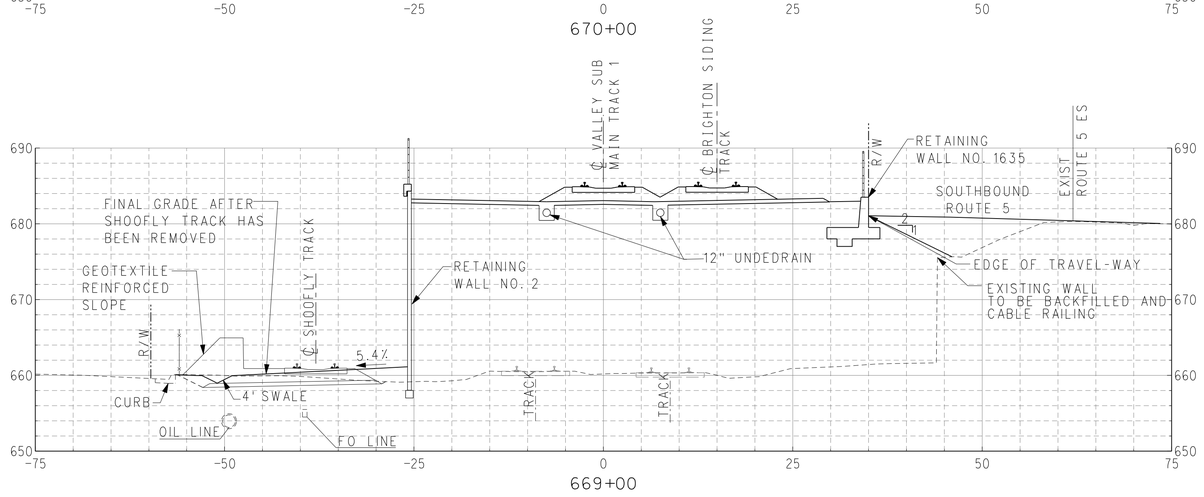
NOTE:
CROSS SECTION REPRESENTS FINAL CONFIGURATION OF EMPIRE GRADE SEPERATION PROJECT.
TEMPORARY SHOOFLY IS SHOWN FOR REFERENCE.







STATION 669+00 TO STATION 671+00

APPROVED FOR RAILROAD WORK.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1520	1931

Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

05-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
PATRICK NICHOLSON
No. C 40993
Exp. 3-31-2013
CIVIL
STATE OF CALIFORNIA

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SCRRA
279 E. ARROW HIGHWAY
SAN DIMAS, CA 91773

AECOM
515 SOUTH FLOWER ST. 4th FLOOR
LOS ANGELES, CA 90071

10 5 0 10 20
1" = 10'-0"

RR - CROSS SECTIONS
SHEET 18 OF 27

RR-SC-018
RAILROAD SHEET NO. 150 OF 394
VERT 1"=10'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
DESIGN
CONSULTANT FUNCTIONAL SUPERVISOR: PATRICK NICHOLSON
CALCULATED-DESIGNED BY: ANGELKA GRANDOV
CHECKED BY: RICHARD SILOS
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
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TIME PLOTTED => 5:55:10 PM
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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1812
PROJECT NUMBER & PHASE 07000211191

NOTE:
CROSS SECTION REPRESENTS FINAL CONFIGURATION OF EMPIRE GRADE SEPERATION PROJECT.
TEMPORARY SHOOFLY IS SHOWN FOR REFERENCE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1521	1931

Patrick Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

05-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — PATRICK NICHOLSON — No. C 40993 — Exp. 3-31-2013 — CIVIL — STATE OF CALIFORNIA

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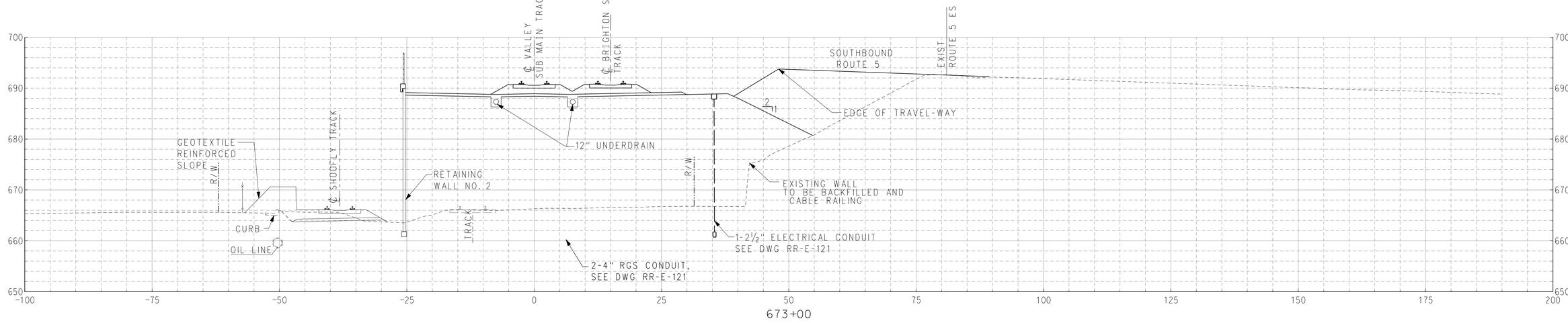
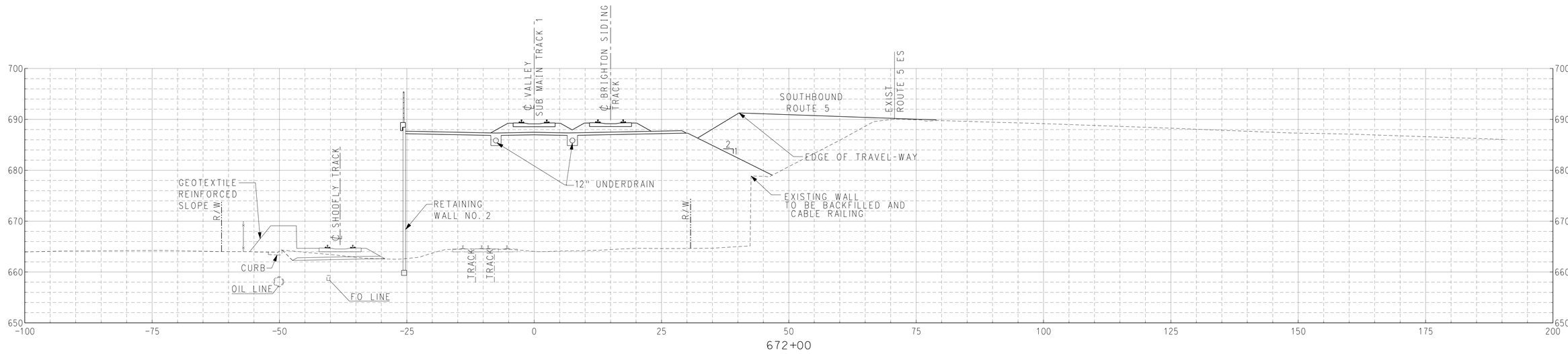
SAN DIMAS, CA 91773

AECOM
515 SOUTH FLOWER ST. 4th FLOOR
LOS ANGELES, CA 90071





STATION 672+00 TO STATION 673+00

APPROVED FOR RAILROAD WORK.

1" = 10'-0"

RR - CROSS SECTIONS
SHEET 19 OF 27

RR-SC-019

RAILROAD SHEET NO. 151 OF 394

VERT 1"=10'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
CONSULTANT FUNCTIONAL SUPERVISOR: PATRICK NICHOLSON
CALCULATED-DESIGNED BY: ANGELKA GRANDOV
CHECKED BY: RICHARD SILOS
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1812
PROJECT NUMBER & PHASE 07000211191

NOTE:

CROSS SECTION REPRESENTS FINAL CONFIGURATION
OF EMPIRE GRADE SEPERATION PROJECT.
TEMPORARY SHOOFLY IS SHOWN FOR REFERENCE.
FOR GRADE CROSSING AND PANELS DETAILS AT BUENA VISTA
STREET SEE DWG RR-TC-010.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1522	1931

Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

05-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
PATRICK NICHOLSON
No. C 40993
Exp. 3-31-2013
CIVIL
STATE OF CALIFORNIA

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SAN DIMAS, CA 91773

AECOM
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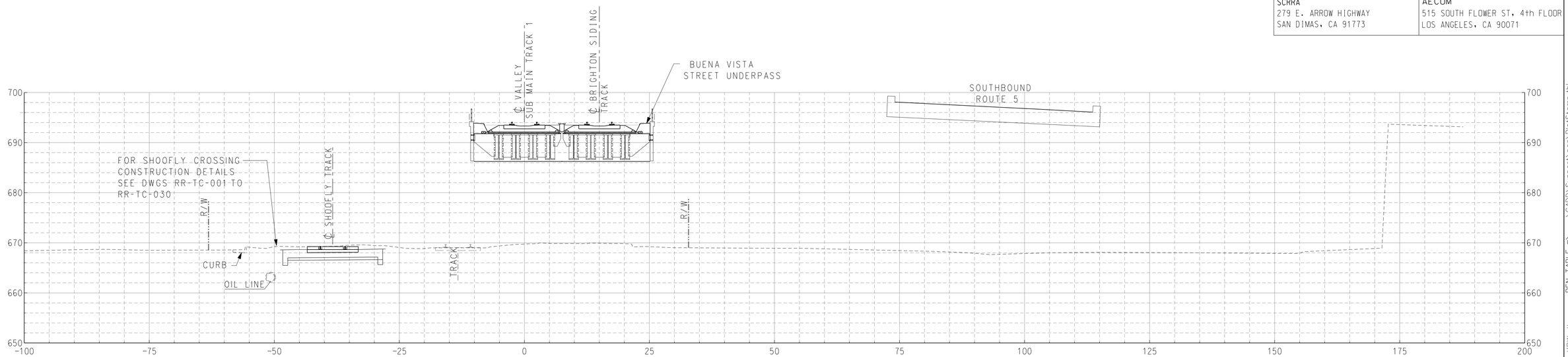
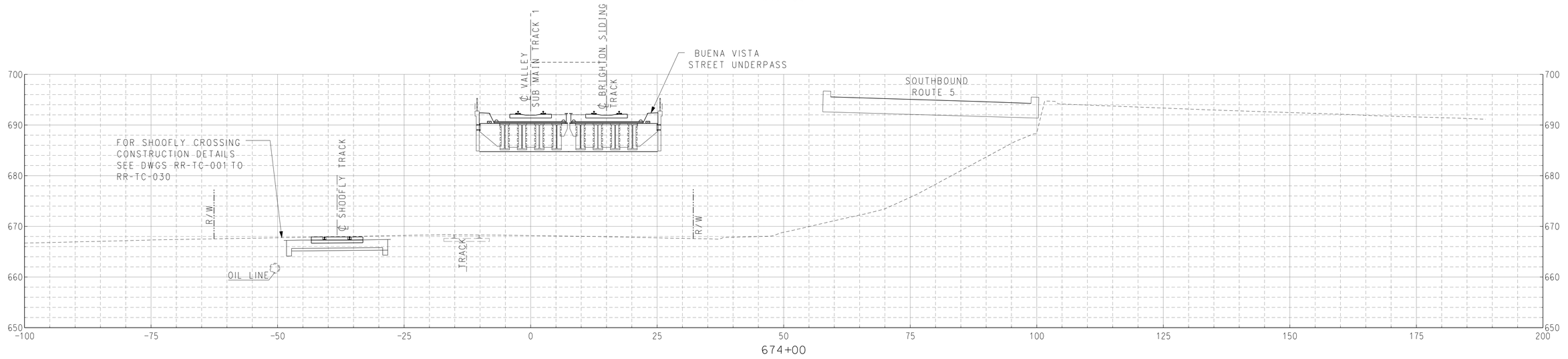
LOS ANGELES, CA 90071





STATION 674+00 TO STATION 675+00

APPROVED FOR RAILROAD WORK.

10 5 0 10 20
1" = 10'-0"

RR - CROSS SECTIONS
SHEET 20 OF 27

RR-SC-020
RAILROAD SHEET NO. 152 OF 394
VERT 1"=10'

LAST REVISION 00-00-00
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TIME PLOTTED => 5:55:13 PM
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CALCULATED-DESIGNED BY: ANGELKA GRANDOV
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CONSULTANT FUNCTIONAL SUPERVISOR: PATRICK NICHOLSON
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1812
PROJECT NUMBER & PHASE 07000211191

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1523	1931

Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

05-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — PATRICK NICHOLSON — No. C 40993 — Exp. 3-31-2013 — CIVIL — STATE OF CALIFORNIA

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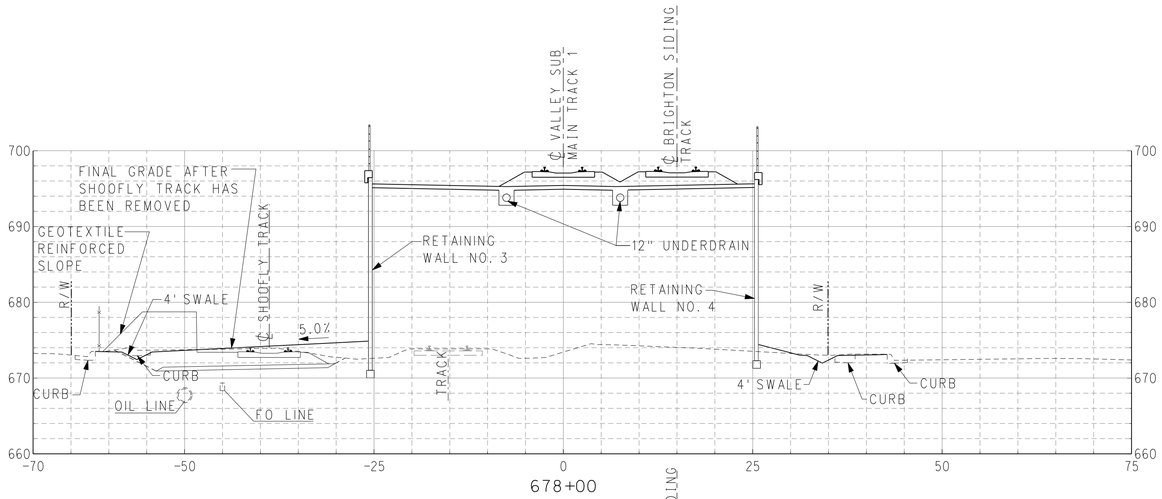
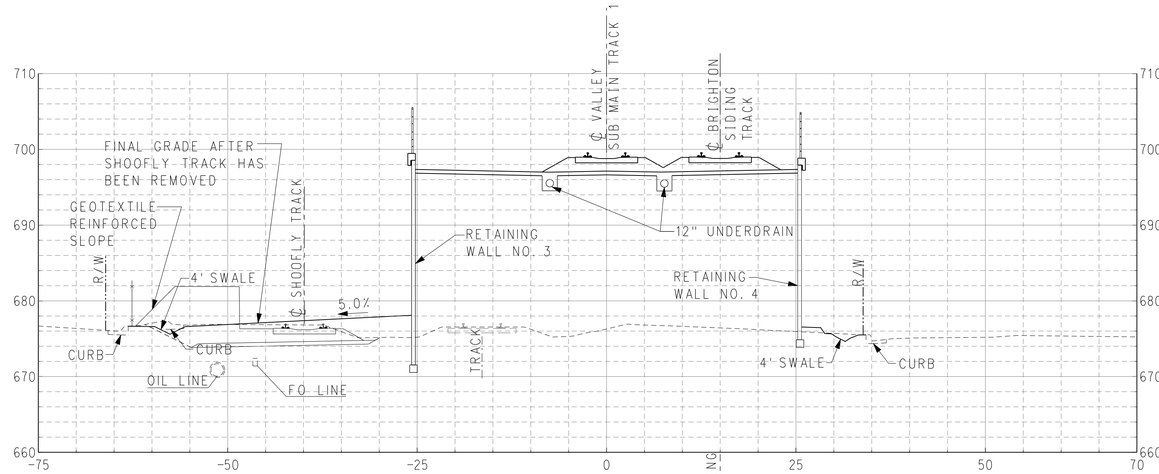
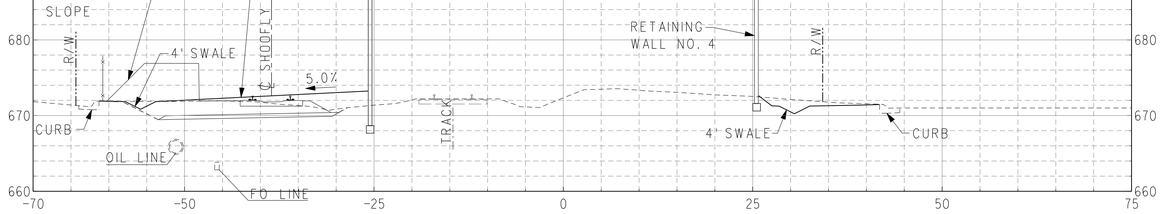
SAN DIMAS, CA 91773

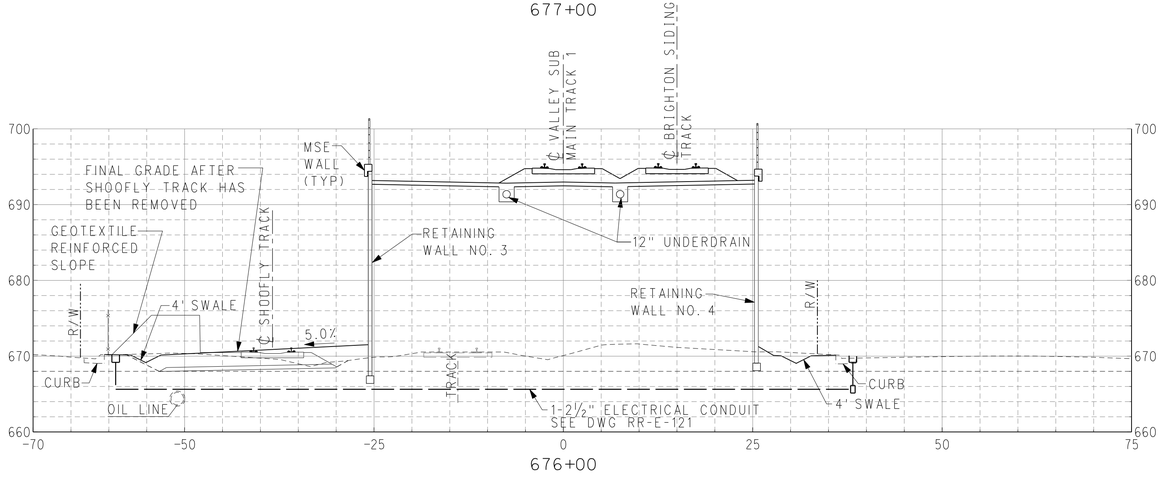
AECOM
515 SOUTH FLOWER ST, 4th FLOOR
LOS ANGELES, CA 90071

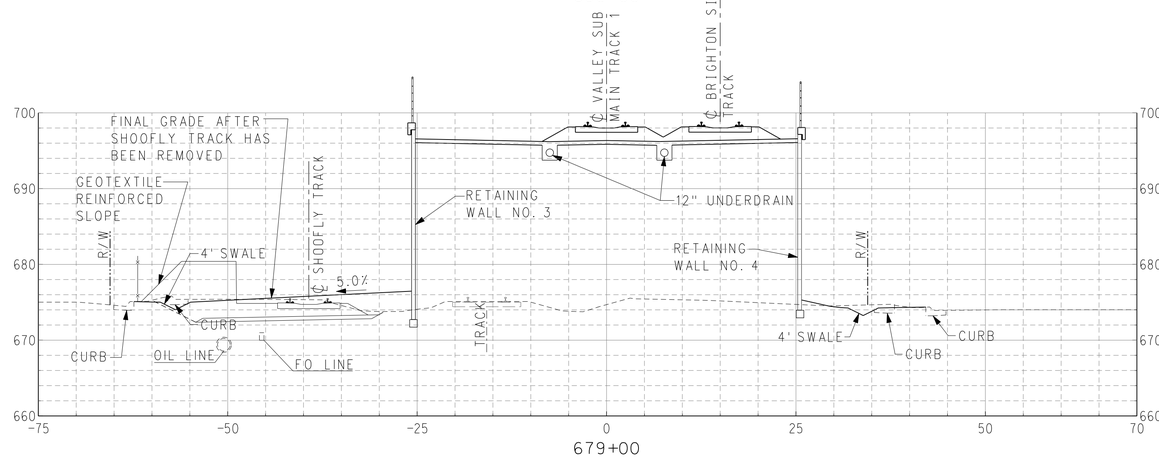
NOTE:
CROSS SECTION REPRESENTS FINAL CONFIGURATION OF EMPIRE GRADE SEPERATION PROJECT. TEMPORARY SHOOFLY IS SHOWN FOR REFERENCE.











STATION 676+00 TO STATION 680+00

1" = 10'-0"

RR - CROSS SECTIONS
SHEET 21 OF 27

RR-SC-021
RAILROAD SHEET NO. 153 OF 394
VERT 1"=10'

APPROVED FOR RAILROAD WORK.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
CONSULTANT FUNCTIONAL SUPERVISOR: PATRICK NICHOLSON
CALCULATED-DESIGNED BY: ANGELKA GRANDOV
CHECKED BY: RICHARD SILOS
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1812
PROJECT NUMBER & PHASE 07000211191

NOTE:
CROSS SECTION REPRESENTS FINAL CONFIGURATION OF EMPIRE GRADE SEPERATION PROJECT. TEMPORARY SHOOFLY IS SHOWN FOR REFERENCE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1524	1931

Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

05-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — PATRICK NICHOLSON — No. C 40993 — Exp. 3-31-2013 — CIVIL — STATE OF CALIFORNIA

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SAN DIMAS, CA 91773

AECOM
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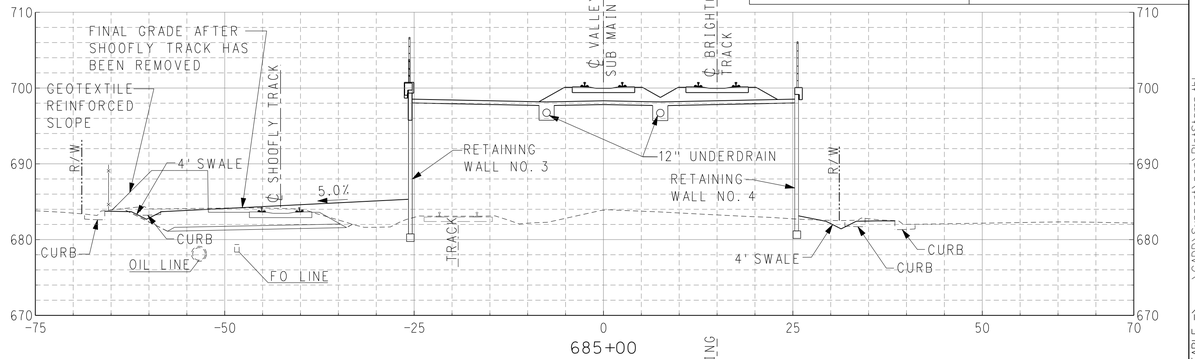
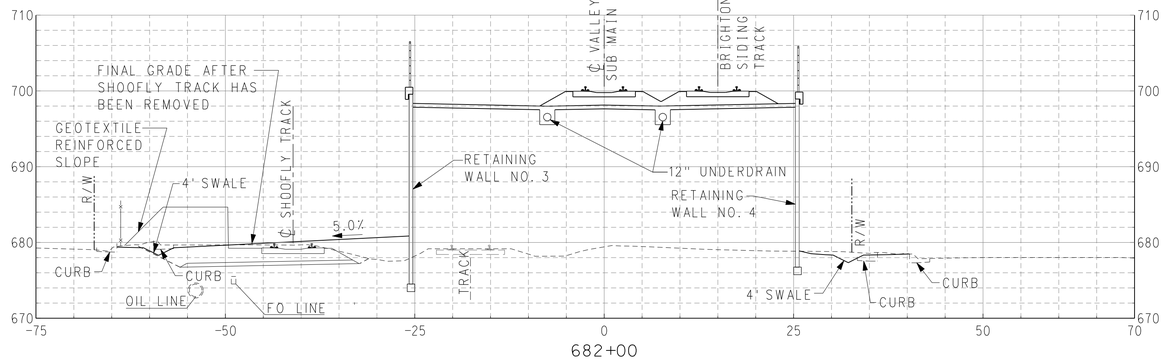
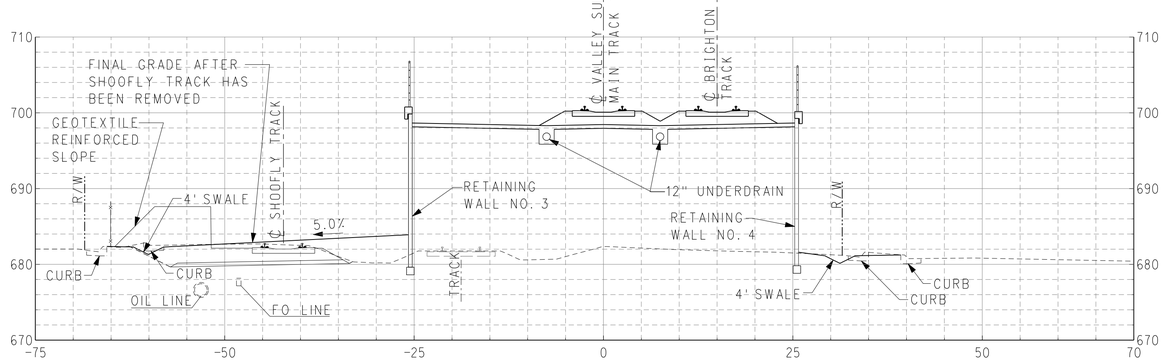
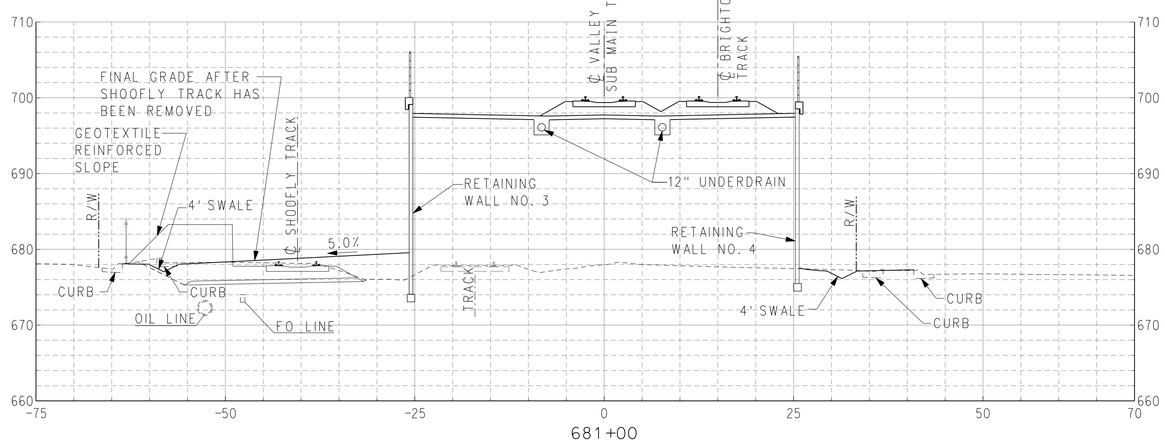
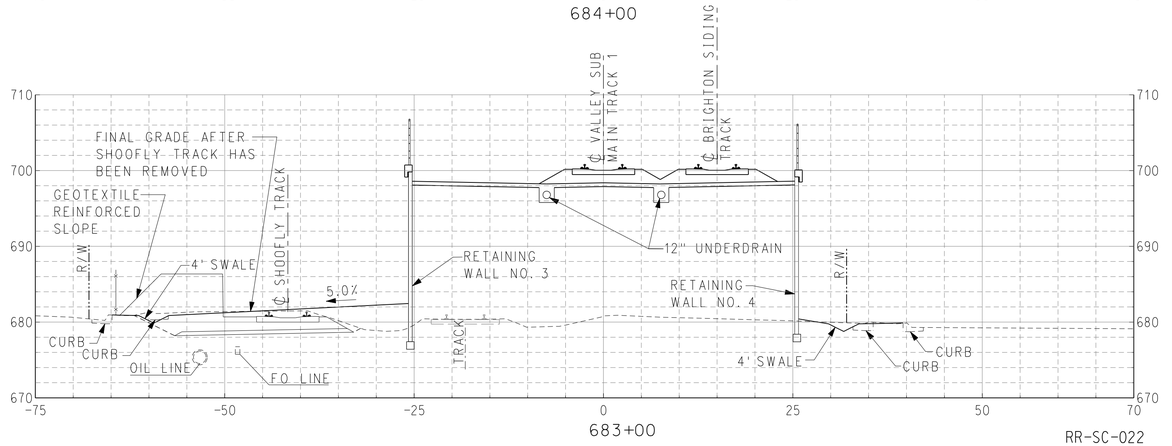
LOS ANGELES, CA 90071











RR-SC-022

STATION 681+00 TO STATION 685+00

1" = 10'-0"

RR - CROSS SECTIONS
SHEET 22 OF 27

RAILROAD SHEET NO. 154 OF 394
VERT 1"=10'

APPROVED FOR RAILROAD WORK.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
CONSULTANT FUNCTIONAL SUPERVISOR: PATRICK NICHOLSON
CALCULATED-DESIGNED BY: ANGELKA GRANDOV
CHECKED BY: RICHARD SILOS
REVISED BY
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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1812
PROJECT NUMBER & PHASE 07000211191

NOTE:
CROSS SECTION REPRESENTS FINAL CONFIGURATION OF EMPIRE GRADE SEPERATION PROJECT.
TEMPORARY SHOOFLY IS SHOWN FOR REFERENCE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1525	1931

Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

05-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — PATRICK NICHOLSON — No. C 40993 — Exp. 3-31-2013 — CIVIL — STATE OF CALIFORNIA

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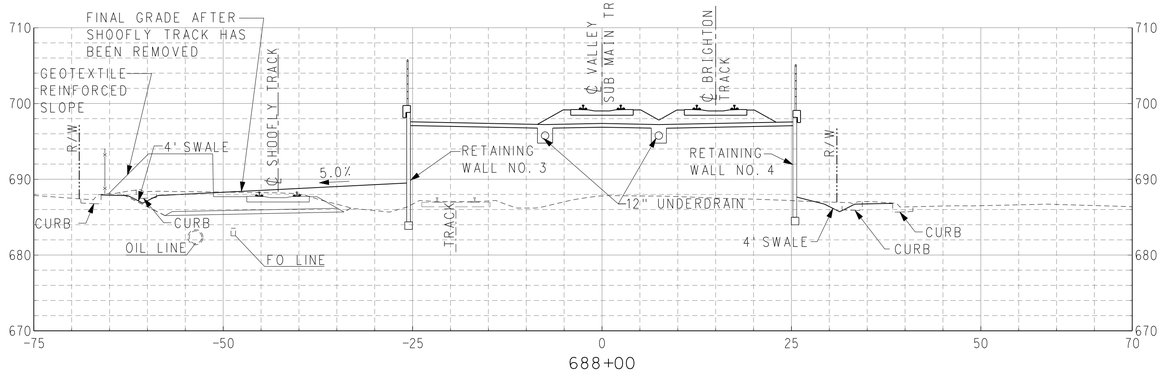
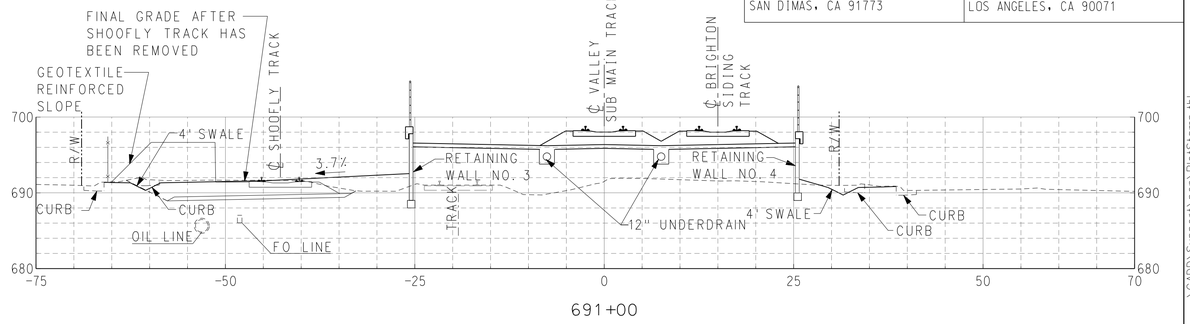
279 E. ARROW HIGHWAY
SAN DIMAS, CA 91773

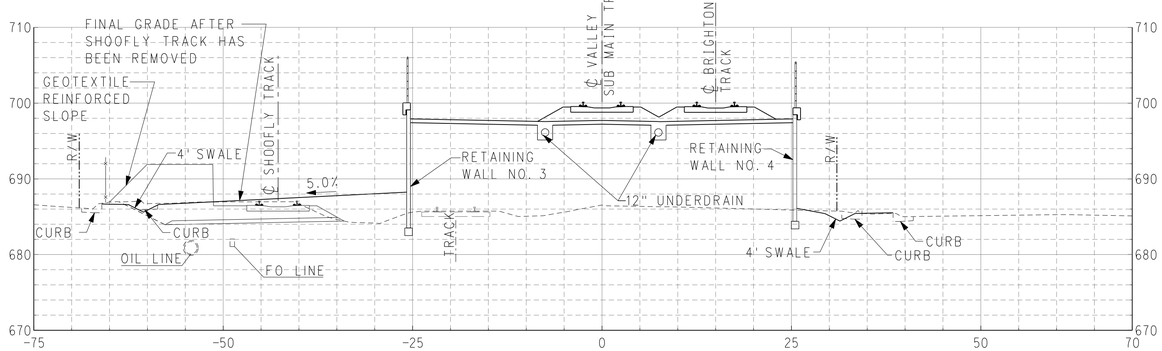
AECOM
515 SOUTH FLOWER ST. 4th FLOOR
LOS ANGELES, CA 90071



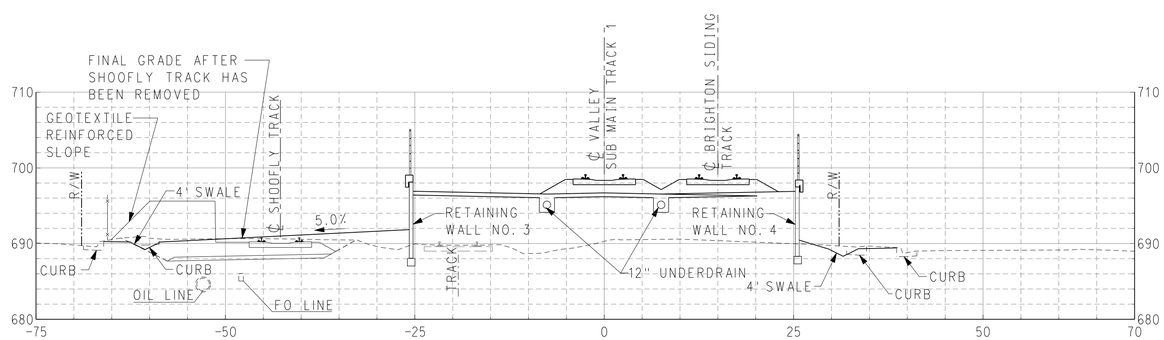
688+00



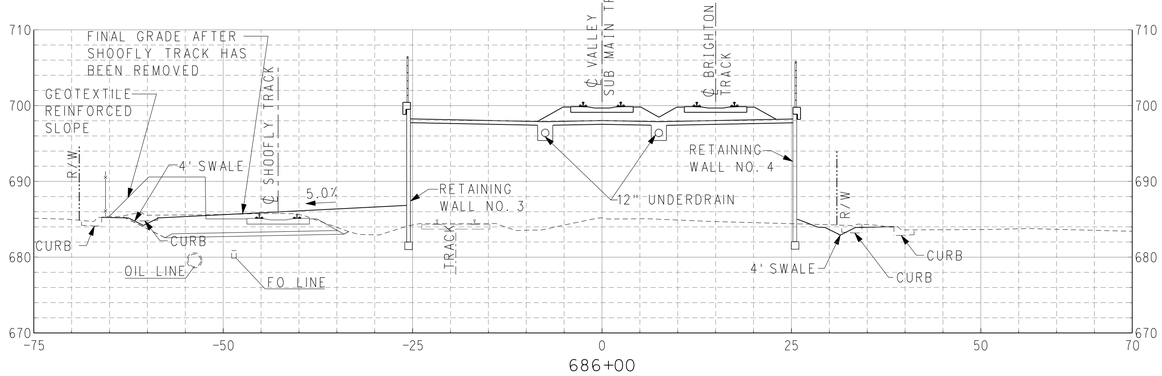
691+00



687+00



690+00



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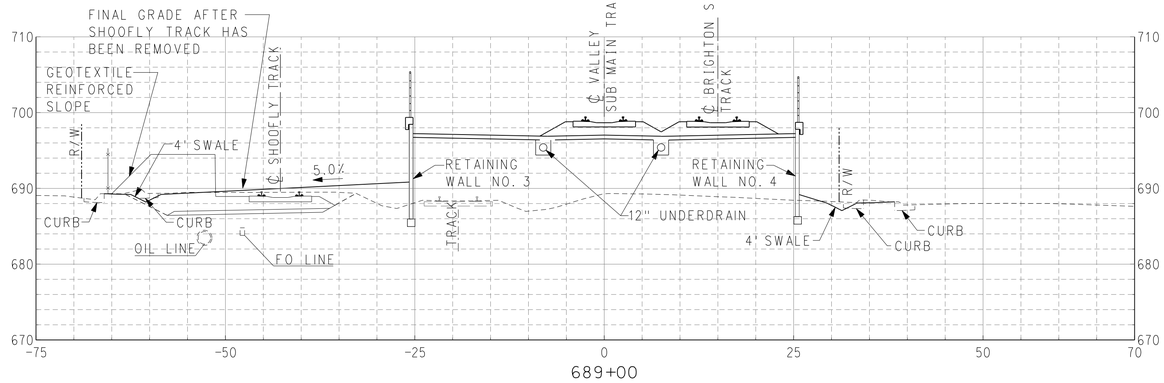

689+00

STATION 686+00 TO STATION 691+00

APPROVED FOR RAILROAD WORK.

10 5 0 10 20
1" = 10'-0"

RR - CROSS SECTIONS
SHEET 23 OF 27

RR-SC-023
RAILROAD SHEET NO. 155 OF 394
VERT 1"=10'

LAST REVISION 00-00-00

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
CONSULTANT FUNCTIONAL SUPERVISOR: PATRICK NICHOLSON
CALCULATED-DESIGNED BY: ANGELKA GRANDOV
CHECKED BY: RICHARD SILOS
REVISED BY
DATE REVISED

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TIME PLOTTED => 5:55:20 PM
DATE PLOTTED => 7/17/2012

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DGN FILE => ...\Civil\Sheet\E737B-SC-023.sht
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1812
PROJECT NUMBER & PHASE 07000211191

NOTE:

CROSS SECTION REPRESENTS FINAL CONFIGURATION OF EMPIRE GRADE SEPERATION PROJECT. TEMPORARY SHOOFLY IS SHOWN FOR REFERENCE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1526	1931

Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

05-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — PATRICK NICHOLSON — No. C 40993 — Exp. 3-31-2013 — CIVIL — STATE OF CALIFORNIA

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SCRRA
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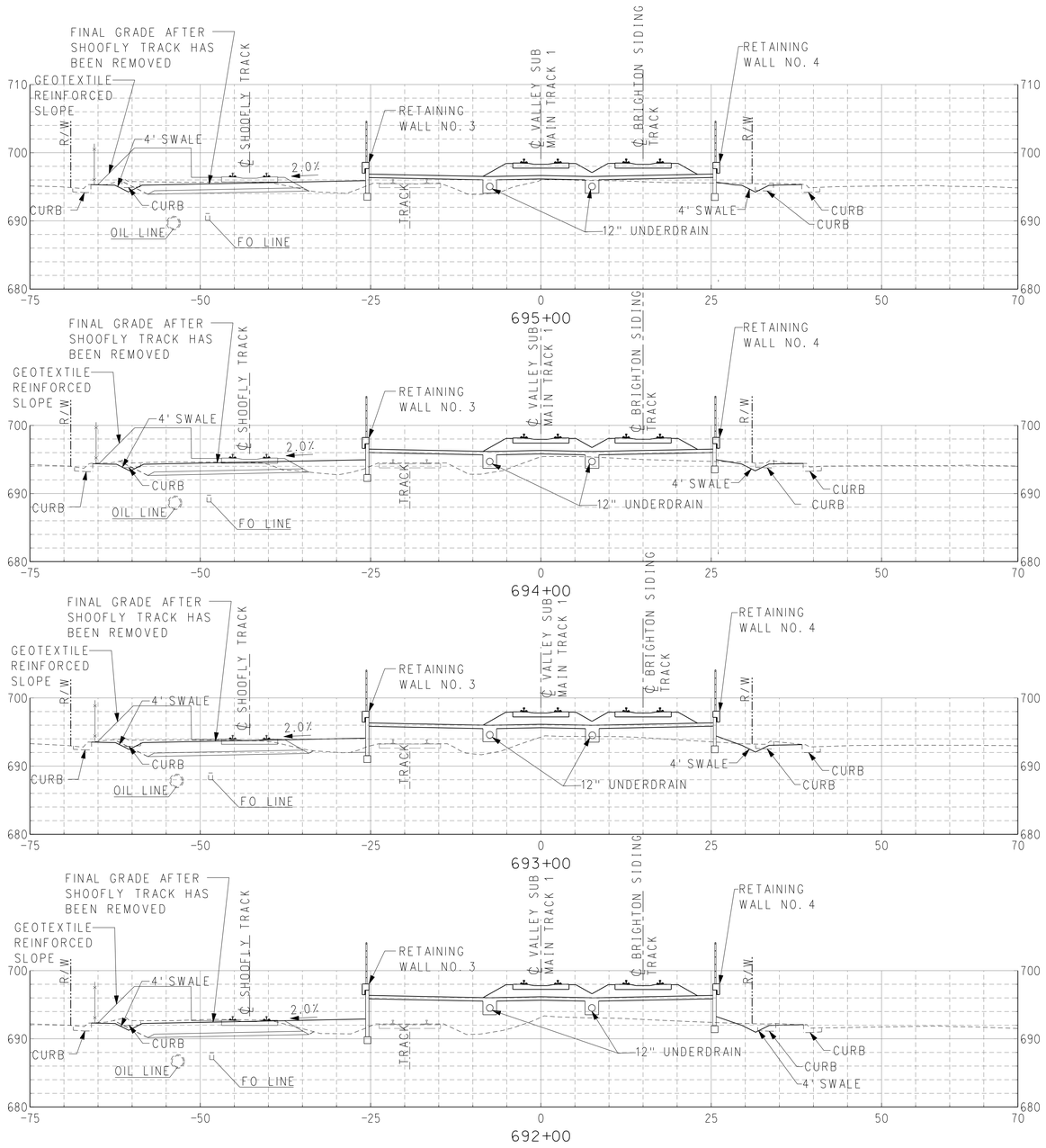
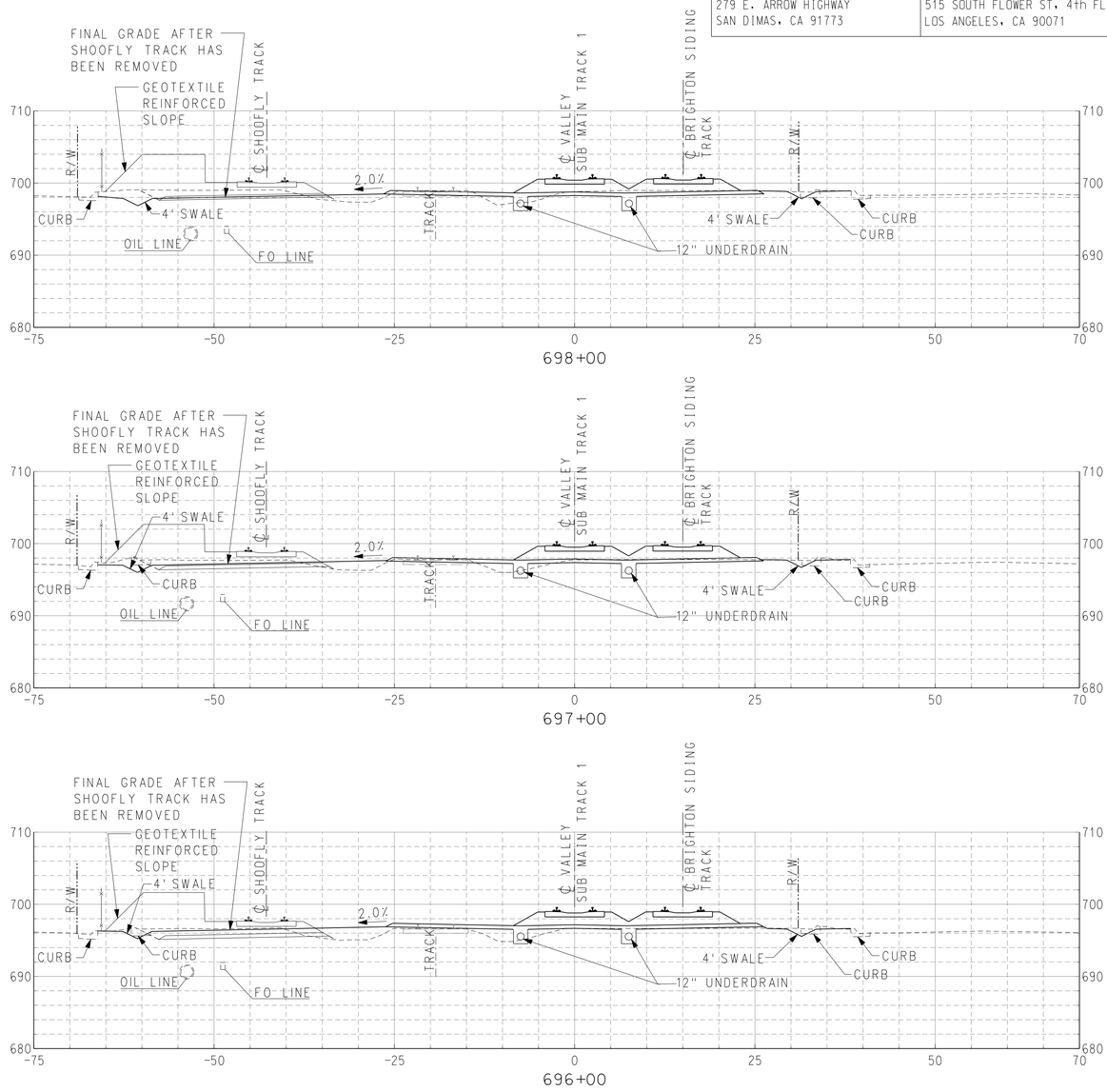
SAN DIMAS, CA 91773

AECOM
515 SOUTH FLOWER ST. 4th FLOOR
LOS ANGELES, CA 90071





STATION 692+00 TO STATION 698+00

1" = 10'-0"

RR – CROSS SECTIONS
SHEET 24 OF 27

RR-SC-024
RAILROAD SHEET NO. 156 OF 394
VERT 1"=10'

APPROVED FOR RAILROAD WORK.

STATE OF CALIFORNIA – DEPARTMENT OF TRANSPORTATION
DESIGN
CONSULTANT FUNCTIONAL SUPERVISOR: PATRICK NICHOLSON
CALCULATED-DESIGNED BY: ANGELKA GRANDOV
CHECKED BY: RICHARD SILOS
REVISED BY
DATE REVISED

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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1812
PROJECT NUMBER & PHASE 07000211191

NOTE:
CROSS SECTION REPRESENTS FINAL CONFIGURATION OF EMPIRE GRADE SEPERATION PROJECT.
TEMPORARY SHOOFLY IS SHOWN FOR REFERENCE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1527	1931

Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

05-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — PATRICK NICHOLSON — No. C 40993 — Exp. 3-31-2013 — CIVIL — STATE OF CALIFORNIA

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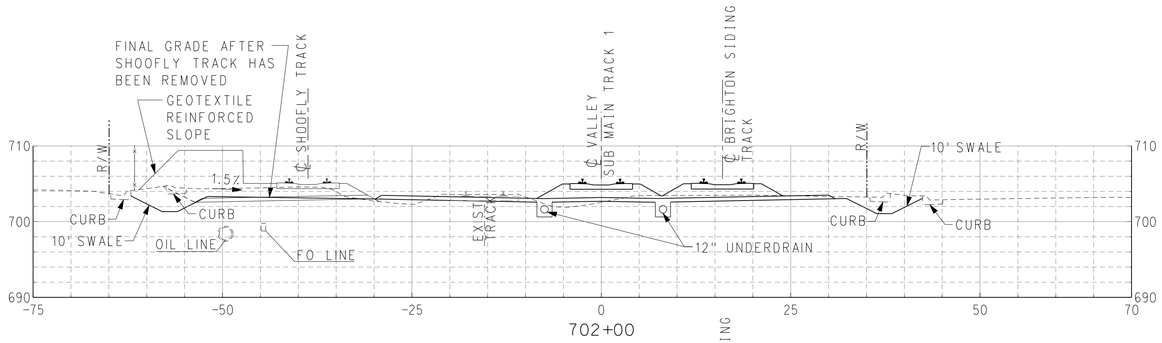
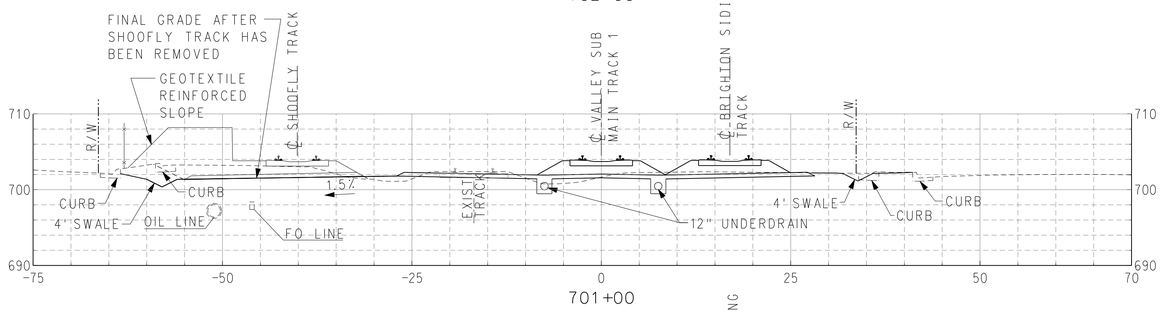
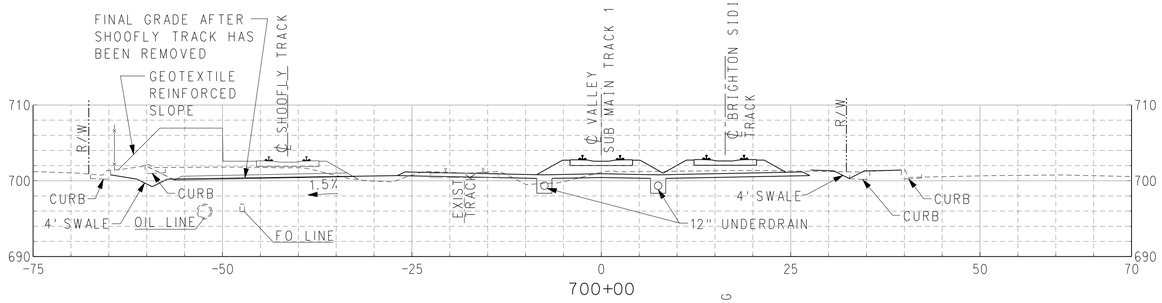
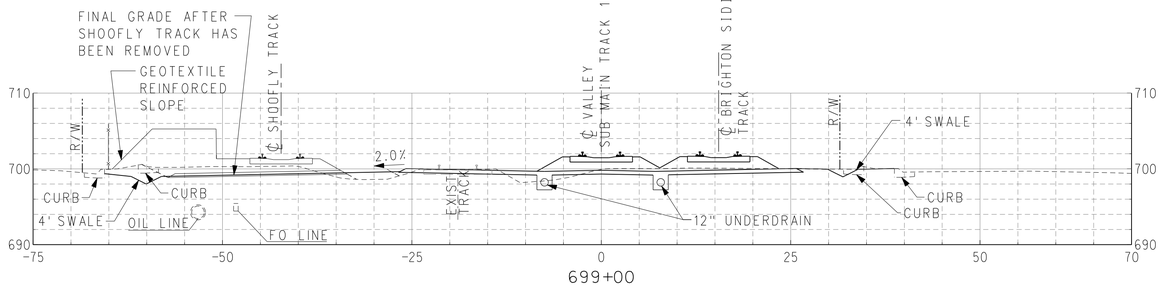
SAN DIMAS, CA 91773

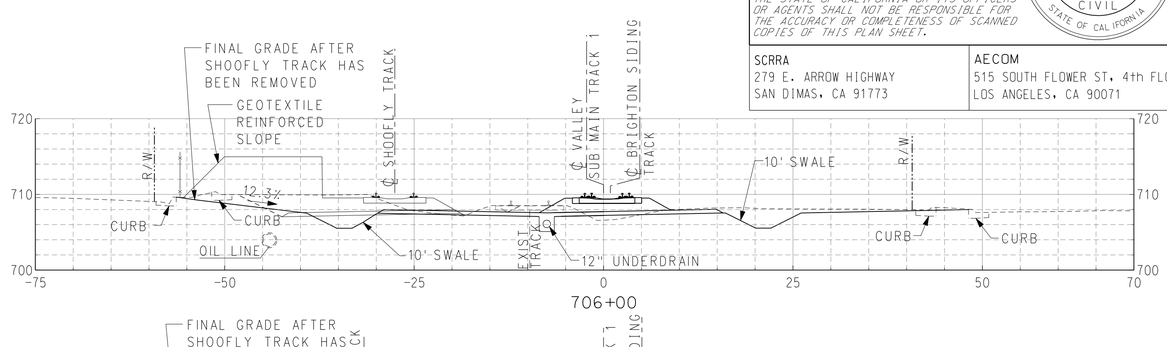
AECOM
515 SOUTH FLOWER ST. 4th FLOOR
LOS ANGELES, CA 90071

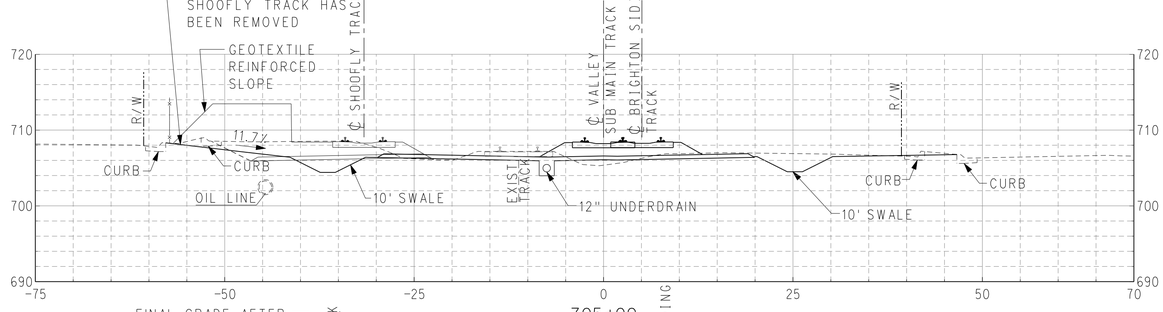


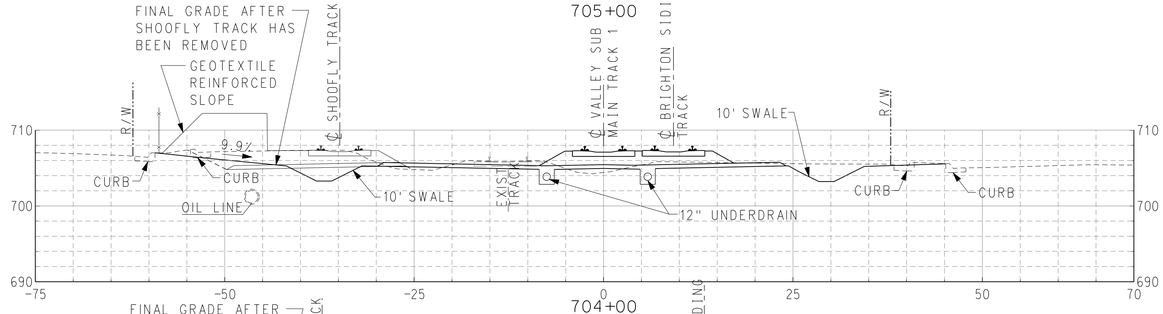


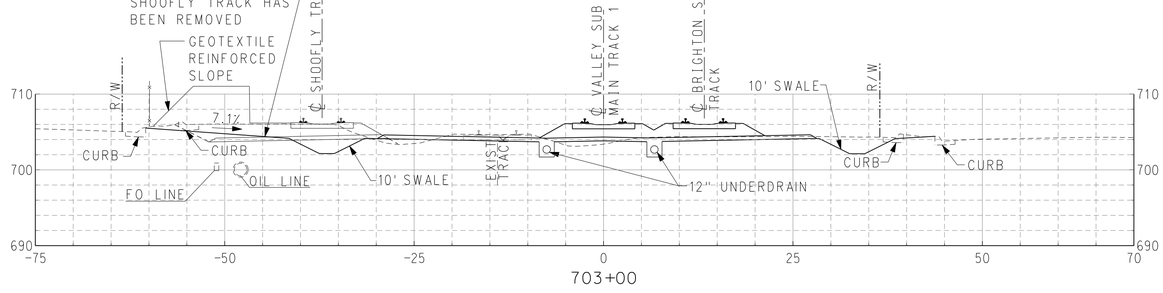












STATION 699+00 TO STATION 706+00

10 5 0 10 20
1" = 10'-0"

RR - CROSS SECTIONS
SHEET 25 OF 27

RR-SC-025
RAILROAD SHEET NO. 157 OF 394
VERT 1"=10'

APPROVED FOR RAILROAD WORK.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
CONSULTANT FUNCTIONAL SUPERVISOR: PATRICK NICHOLSON
CALCULATED-DESIGNED BY: ANGELKA GRANDOV
CHECKED BY: RICHARD SILOS
REVISED BY
DATE REVISED

BORDER LAST REVISED 7/2/2010
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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1812
PROJECT NUMBER & PHASE 07000211191

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1528	1931

Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

05-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — PATRICK NICHOLSON — No. C 40993 — Exp. 3-31-2013 — CIVIL — STATE OF CALIFORNIA

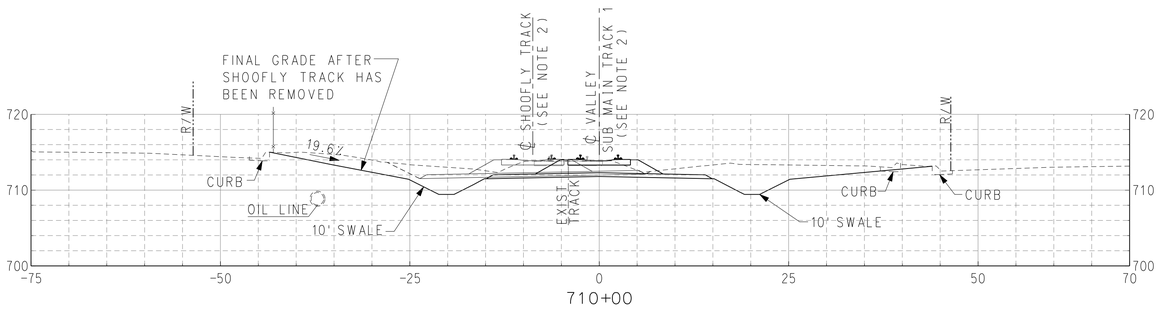
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

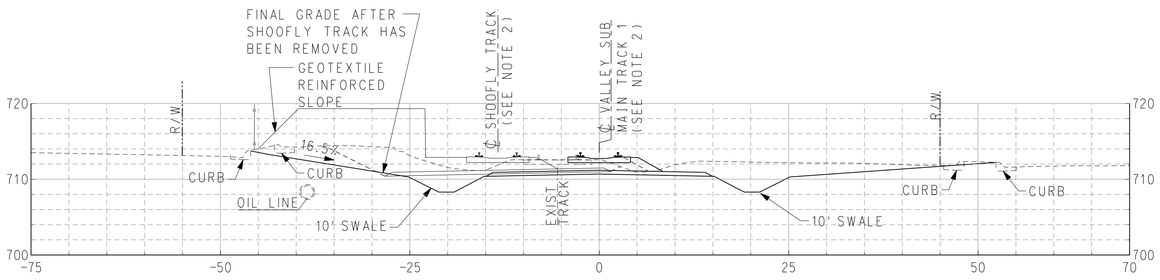
SCRRA
279 E. ARROW HIGHWAY
SAN DIMAS, CA 91773

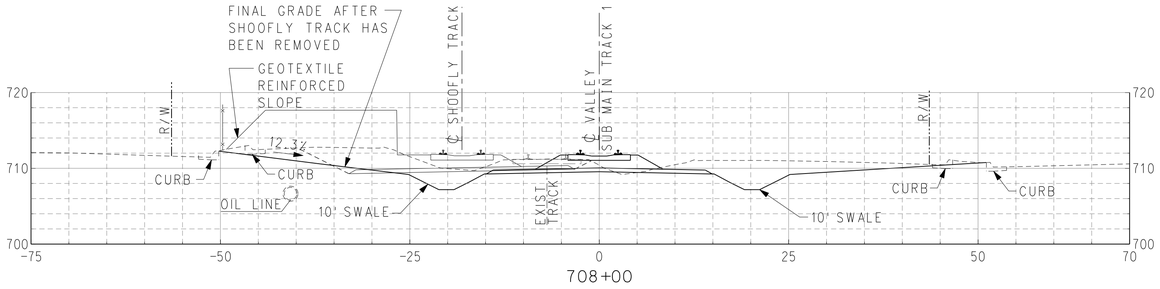
AECOM
515 SOUTH FLOWER ST. 4th FLOOR
LOS ANGELES, CA 90071

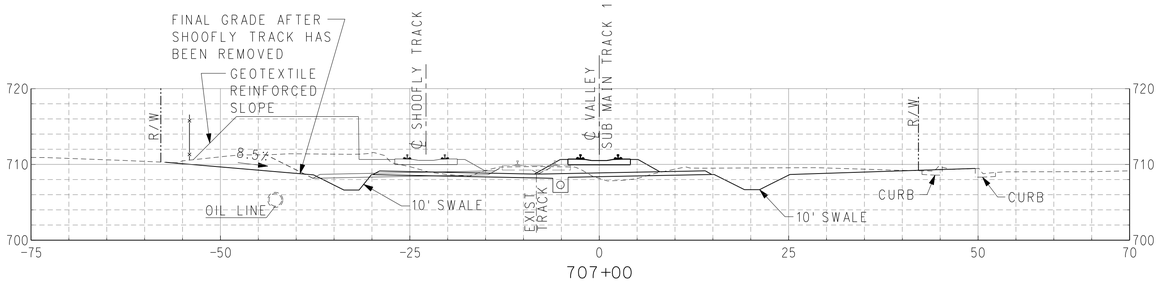
NOTES:

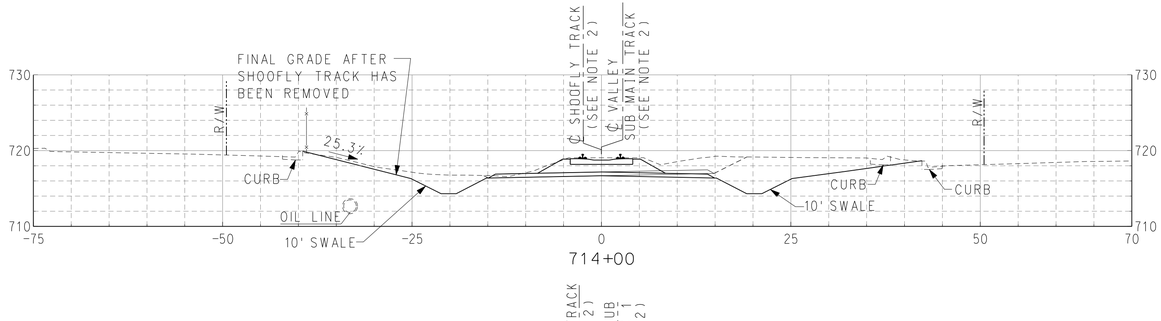
1. CROSS SECTION REPRESENTS FINAL CONFIGURATION OF EMPIRE GRADE SEPERATION PROJECT. TEMPORARY SHOOFLY IS SHOWN FOR REFERENCE.
2. IN ACCORDANCE WITH CONSTRUCTION STAGING PLAN, CUTOVER MAINLINE-SHOOFLY TRACK. CONTRACTOR TO PROVIDE ALL MATERIAL, (SUBGRADE, SUB-BALLAST AND BALLAST PREPARATION, TRACKWORK, AND RR SIGNALS), MANPOWER AND EQUIPMENT TO ASSIST SCRRA IN THE TRACK CUTOVER.

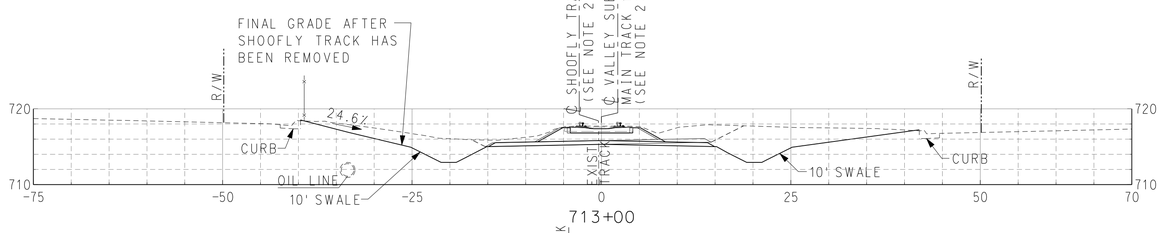


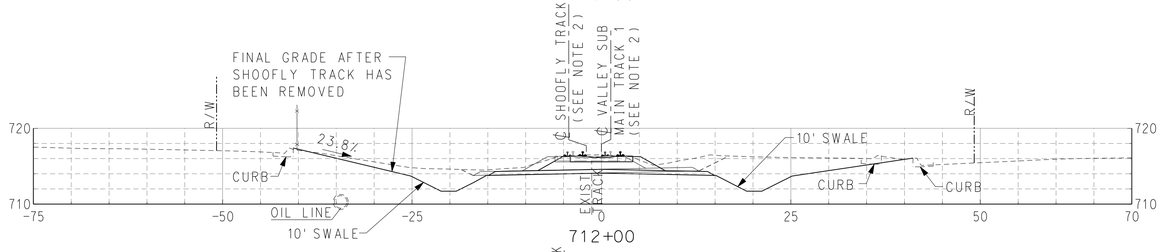


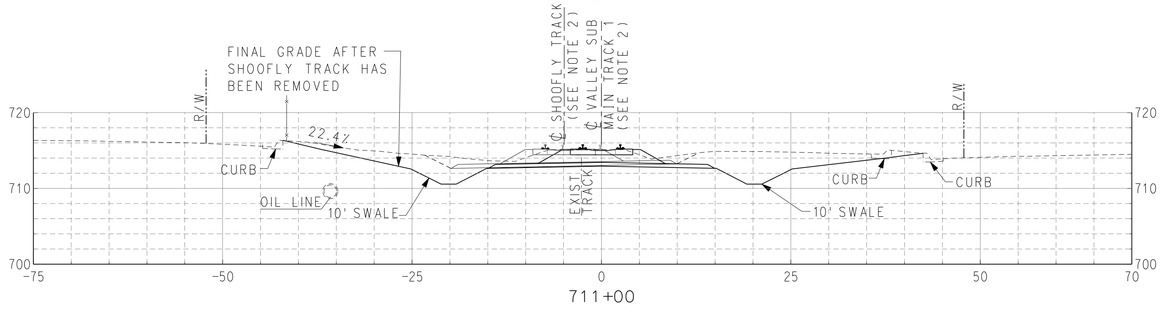












STATION 707+00 TO STATION 714+00

1" = 10'-0"

RR - CROSS SECTIONS
SHEET 26 OF 27

RR-SC-026
RAILROAD SHEET NO. 158 OF 394
VERT 1"=10'

APPROVED FOR RAILROAD WORK.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION | DESIGN | CONSULTANT FUNCTIONAL SUPERVISOR: PATRICK NICHOLSON | CALCULATED-DESIGNED BY: ANGELKA GRANDOV | CHECKED BY: RICHARD SILOS | REVISED BY | DATE REVISED

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RELATIVE BORDER SCALE IS IN INCHES
UNIT 1812
PROJECT NUMBER & PHASE 07000211191

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1529	1931

Patrick Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

05-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — PATRICK NICHOLSON — No. C 40993 — Exp. 3-31-2013 — CIVIL — STATE OF CALIFORNIA

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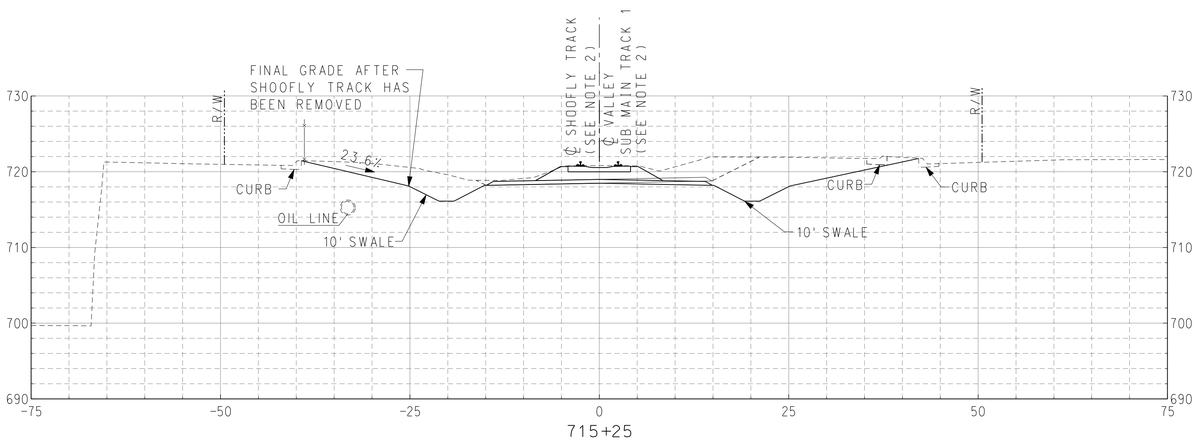
SCRRA
279 E. ARROW HIGHWAY
SAN DIMAS, CA 91773

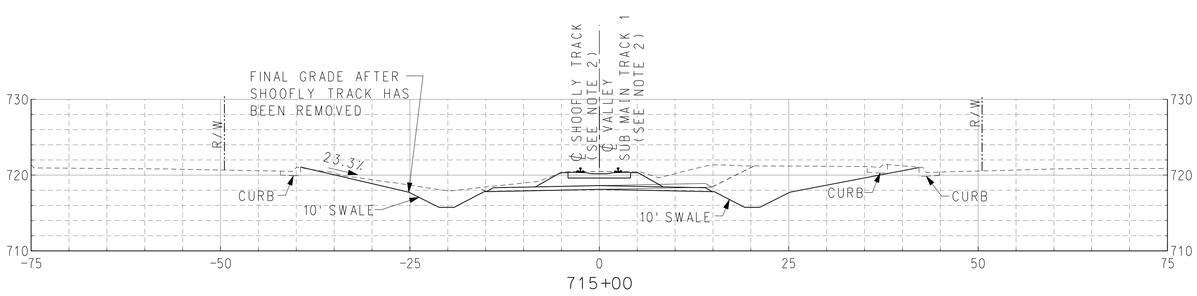
AECOM
515 SOUTH FLOWER ST. 4th FLOOR
LOS ANGELES, CA 90071

NOTES:

1. CROSS SECTION REPRESENTS FINAL CONFIGURATION OF EMPIRE GRADE SEPERATION PROJECT. TEMPORARY SHOOFLY IS SHOWN FOR REFERENCE.
2. IN ACCORDANCE WITH CONSTRUCTION STAGING PLAN, CUTOVER MAINLINE-SHOOFLY TRACK. CONTRACTOR TO PROVIDE ALL MATERIAL, (SUBGRADE, SUB-BALLAST AND BALLAST PREPARATION, TRACKWORK, AND RR SIGNALS, MANPOWER AND EQUIPMENT TO ASSIST SCRRA IN THE TRACK CUTOVER.



715+25



715+00

STATION 715+00 TO STATION 715+25

10 5 0 10 20
1" = 10'-0"

RR - CROSS SECTIONS
SHEET 27 OF 27

RR-SC-027
RAILROAD SHEET NO. 159 OF 394
VERT 1"=10'

APPROVED FOR RAILROAD WORK.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
CONSULTANT FUNCTIONAL SUPERVISOR: PATRICK NICHOLSON
CALCULATED-DESIGNED BY: ANGELKA GRANDOV
CHECKED BY: RICHARD SILOS
REVISED BY
DATE REVISED

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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1812
PROJECT NUMBER & PHASE 07000211191

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1530	1931

Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER
PATRICK NICHOLSON
No. C 40993
Exp. 3-31-2013
CIVIL
STATE OF CALIFORNIA

05-21-12
PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

SCRRA
279 E. ARROW HIGHWAY
SAN DIMAS, CA 91773

AECOM
515 SOUTH FLOWER ST, 4th FLOOR
LOS ANGELES, CA 90071

ITEM	UTILITY DESCRIPTION	UTILITY OWNER UTILITY COMPANY CONTACT NAME ADDRESS PHONE
1	ELECTRICAL LINES (OVERHEAD AND UNDERGROUND)	CITY OF BURBANK WATER AND POWER DANIEL LIPPERT P O BOX 631 BURBANK, CA 91503-0631 (818)238-3549-ph (818)238-3594-fax dlippert @ci.burbank.ca.us
2	FIBER OPTIC LINE	ATT 271 N CARMELO AVE PASADENA, CA 91107 ERICK JAVIER (626) 578-3679 RJ2481 @att.com MARIO CORREA (626) 308-4072 mario.e.correa @att.com EDUARDO CABRERA (323) 443-5606 eduardo.j.cabrera @att.com
3	FIBER OPTIC LINE	MCI (VERIZON BUSINESS) DEAN BOYERS 2400 N GLENVILLE RICHARDSON, TX 75082 (972)729-6322 dean.boyers @verizonbusiness.com DAN GARDEN 157 S. LILAC AVE RIALTO, CA 92376 (951)536-1200 dan.garden @verizonbusiness.com
4	FIBER OPTIC LINE	SPRINT TIBOR LAKY 2592 DUPONT DR IRVINE, CA 92612-1524 (800) 659-9698 tibor.x.laky @sprint.com JACK FRY (949) 225-2950-fax (951) 662-6262-cell Jack.R.Fry @sprint.com
5	FIBER OPTIC LINE	QWEST KIM JORDAN 700 W MINERAL AVE NMP32.01 LITTLETON, CO 80120 (303)707-3675 kim.jordan @qwest.com TERRY CARMER 4090 E. LEAVERTON CT. ANAHEIM, CA 92807 (949) 981-4755-cell (714) 666-8036-fax terry.carmer @quest.com
6	GAS LINES	SOUTHERN CALIFORNIA GAS DISTRIBUTION 9400 OAKDALE AVE CHATSWORTH, CA 91311 CHARLIE HOLMS (818)701-3316-ph (818)701-3380-fax chelms @semprautilities.com
7	GAS LINES	SOUTHERN CALIFORNIA GAS TRANSMISSION 9400 OAKDALE AVE CHATSWORTH, CA 91311 RON SILVER (818) 701-4536-ph (818) 701-2549-fax (661) 305-8249-cell rsilver @semprautilities.com ROSALYN SQUIRES (818) 701-4546 rsquires @semprautilities.com
8	OIL LINE	PPSI PLAINS ALL AMERICAN PIPELINE (PACIFIC PIPELINE) JIM JACOBY 5900 CHERRY AVENUE LONG BEACH, CA 90805 (562) 728-2800 www.pacificenergy.com jljacoby @paalp.com JOE MATEO (562) 728-2368-ph (562)728-2866-fax (562)756-2542-cell jmateo @paalp.com
9	SEWER LINES	CITY OF BURBANK DEPT OF PUBLIC WORKS WAI LEE, LIFAN XU, ALVIN CRUZ, DAN RYAN 150 N. THIRD STREET BURBANK, CA 91502 (818) 238-3950 wlee@ci.burbank.ca.us
10	STORM DRAIN LINES	CITY OF BURBANK DEPT OF PUBLIC WORKS 150 N. THIRD STREET BURBANK, CA 91502 DANIEL RYNN (818) 238-3940-ph (818)238-3918-fax drynn @ci.burbank.ca.us LIFAN XU (818)238-3932 lxu @ci.burbank.ca.us RICARDO SANCHES (818)238-3954 rsanches @ci.burbank.ca.us ALVIN CRUZ (818) 238-3918 acruz @ci.burbank.ca.us
11	STORM DRAIN LINES	CALTRANS - DISTRICT 7 DIVISION OF DESIGN 100 S MAIN ST LOS ANGELES, CA 90012 RALPH M. SASAKI (213) 897-7534 ralph_sasaki @dot.ca.gov
12	STORM DRAIN LINES	COUNTY OF LOS ANGELES DEPT OF PUBLIC WORKS CONSTRUCTION DIVISION 900 S FREMONT AVE 8th FLOOR ALHAMBRE, CA 91903 LUIS SERAVANTES (626) 458-4936 (626) 576-7739 lcervant @dpw.lacounty.gov DESIGN DIVISION GEORGE AINTABLIAN (626) 458-7959 (626) 458-7827-fax gaintabl @dpw.lacounty.gov
13	TV- CABLE	CHARTER COMMUNICATION ED GUZMAN (818) 847-5012 eduardo.guzman @chartercom.com JIM REICK (SUPERVISOR) 3111 WINONA AVE BURBANK, CA 91504 (818) 847-5013 jim.reick @chartercom.com
14	TV- CABLE	TIME WARNER CABLE ER WENEFRIDO UGALDE 6357 ARIZONA CIRCLE WESTCHESTER, CA 90045 (310) 629-8018 wenefrido.ugalde@twcable.com RANDALL STARKEY randall.starkey@twcable.com
15	WATER LINES	CITY OF BURBANK WATER AND POWER BASSIL NAHHAS P O BOX 631 BURBANK, CA 91503-0631 (818)238-3500 bnahhas @ci.burbank.ca.us
16	BILLBOARDS	CLEAR CHANNEL OUTDOOR- LOS ANGELES JOHN CARROLL 19320 HARBORGATE WAY TORRANCE, CA 90501 (310) 755-7260 ph (310) 755-7300-fax JohnCarroll @clearchannel.com
17	TRAFFIC SIGNAL INTERCONNECT	CITY OF BURBANK DEPT OF PUBLIC WORKS KEN JOHNSON, STEVE DOMENICO 150 N. THIRD ST BURBANK, CA 91510 (818) 238-3969 ph kjohnson @ci.burbank.ca.us
18	ENGINEERING, RIGHT-OF-WAY, & PERMITS	CITY OF BURBANK DEPT OF PUBLIC WORKS RICARDO SANCHEZ 150 N. THIRD ST BURBANK, CA 91510 (818) 238-3954 ph rsanchez @ci.burbank.ca.us

APPROVED FOR RAILROAD UTILITY WORK.

RR-U-001

RAILROAD SHEET NO.
160 OF 394

NO SCALE

RR – EXISTING UTILITIES
UTILITY OWNERS AND CONTACT INFORMATION

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
CONSULTANT FUNCTIONAL SUPERVISOR: PATRICK NICHOLSON
CALCULATED-DESIGNED BY: YVACHESLAV KOZITSKY
CHECKED BY: RICHARD SILOS
REVISED BY
DATE REVISED

BORDER LAST REVISED 7/2/2010
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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1812
PROJECT NUMBER & PHASE 07000211191

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1531	1931

Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

05-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
PATRICK NICHOLSON
No. C 40993
Exp. 3-31-2013
CIVIL
STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

SCRRA
279 E. ARROW HIGHWAY
SAN DIMAS, CA 91773

AECOM
515 SOUTH FLOWER ST. 4th FLOOR
LOS ANGELES, CA 90071

MATCH LINE STA. 609+00.00
SEE DRAWING RR-U-005

LAKE STREET
RIGHT-OF-WAY
16" WATER LINE
DRY CANAL
SPRINT, MCI, AND AT&T FIBER OPTIC LINES
BURBANK BOULEVARD
QWEST & PLAINS FIBER OPTIC LINES
603+91
605+00
20" OIL LINE (PAAP)
VALLEY SUB MAIN TRACK
SHOOFLY TRACK
606+29
BRIGHTON SIDING TRACK
RIGHT-OF-WAY
26" ABANDONED SOUTHERN CALIFORNIA GAS COMPANY GAS LINE
12" ABANDONED SOUTHERN CALIFORNIA GAS COMPANY GAS LINE
TRANSMISSION LINE
SB ROUTE 5 OFF-RAMP
ABANDONED 21" SEWER LINE
ROUTE 5

40 30 20 10 0 40 80
1" = 40'-0"

RR-U-004
RAILROAD SHEET NO. 161 OF 394
HORIZ 1"=40'

RR – EXISTING UTILITIES
SHEET 1 OF 12

APPROVED FOR RAILROAD UTILITY WORK.

STATE OF CALIFORNIA – DEPARTMENT OF TRANSPORTATION
DESIGN
CONSULTANT FUNCTIONAL SUPERVISOR: PATRICK NICHOLSON
CALCULATED–DESIGNED BY: YVACHESLAV KOZITSKY
CHECKED BY: RICHARD SILOS
REVISED BY
DATE REVISED
LAST REVISION 00-00-00
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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1812
PROJECT NUMBER & PHASE 07000211191

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1532	1931

Patrick Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER
PATRICK NICHOLSON
No. C 40993
Exp. 3-31-2013
CIVIL
STATE OF CALIFORNIA

05-21-12
PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

SCRRA
279 E. ARROW HIGHWAY
SAN DIMAS, CA 91773

AECOM
515 SOUTH FLOWER ST. 4th FLOOR
LOS ANGELES, CA 90071

MATCH LINE STA. 609+00.00 SEE DRAWING RR-U-004

MATCH LINE STA. 619+00.00 SEE DRAWING RR-U-006

60" STORM DRAIN
MCI & AT&T FIBER OPTIC LINE
SEWER MH
MCI, AT&T, AND QWEST MH
SPRINT MH
SPRINT FIBER OPTIC LINE
CITY OF BURBANK 24" SEWER LINE
20" OIL LINE (PAAP)
QWEST & PLAINS FIBER OPTIC LINES
SHOOFLY TRACK
RIGHT-OF-WAY
SEWER MH
8'X1.3' BOX CULVERT STORM DRAIN
36" STORM DRAIN
VALLEY SUB MAIN TRACK
610+00
615+00
ABANDONED SPRINT FIBER OPTIC LINE
ABANDONED SPRINT MH
RIGHT-OF-WAY
BRIGHTON SIDING TRACK
CALTRANS FIBER OPTIC LINE
SB ROUTE 5

40 30 20 10 0 40 80
1" = 40'-0"

RR-U-005
RAILROAD SHEET NO. 162 OF 394
HORIZ 1"=40'

RR - EXISTING UTILITIES
SHEET 2 OF 12

APPROVED FOR RAILROAD UTILITY WORK.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
CONSULTANT FUNCTIONAL SUPERVISOR
PATRICK NICHOLSON
CALCULATED-DESIGNED BY
CHECKED BY
YVACHESLAV KOZITSKY
RICHARD SILOS
REVISED BY
DATE REVISED

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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1812
PROJECT NUMBER & PHASE 07000211191

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1533	1931

Patrick Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

05-21-12
PLANS APPROVAL DATE

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PATRICK NICHOLSON
No. C 40993
Exp. 3-31-2013
CIVIL
STATE OF CALIFORNIA

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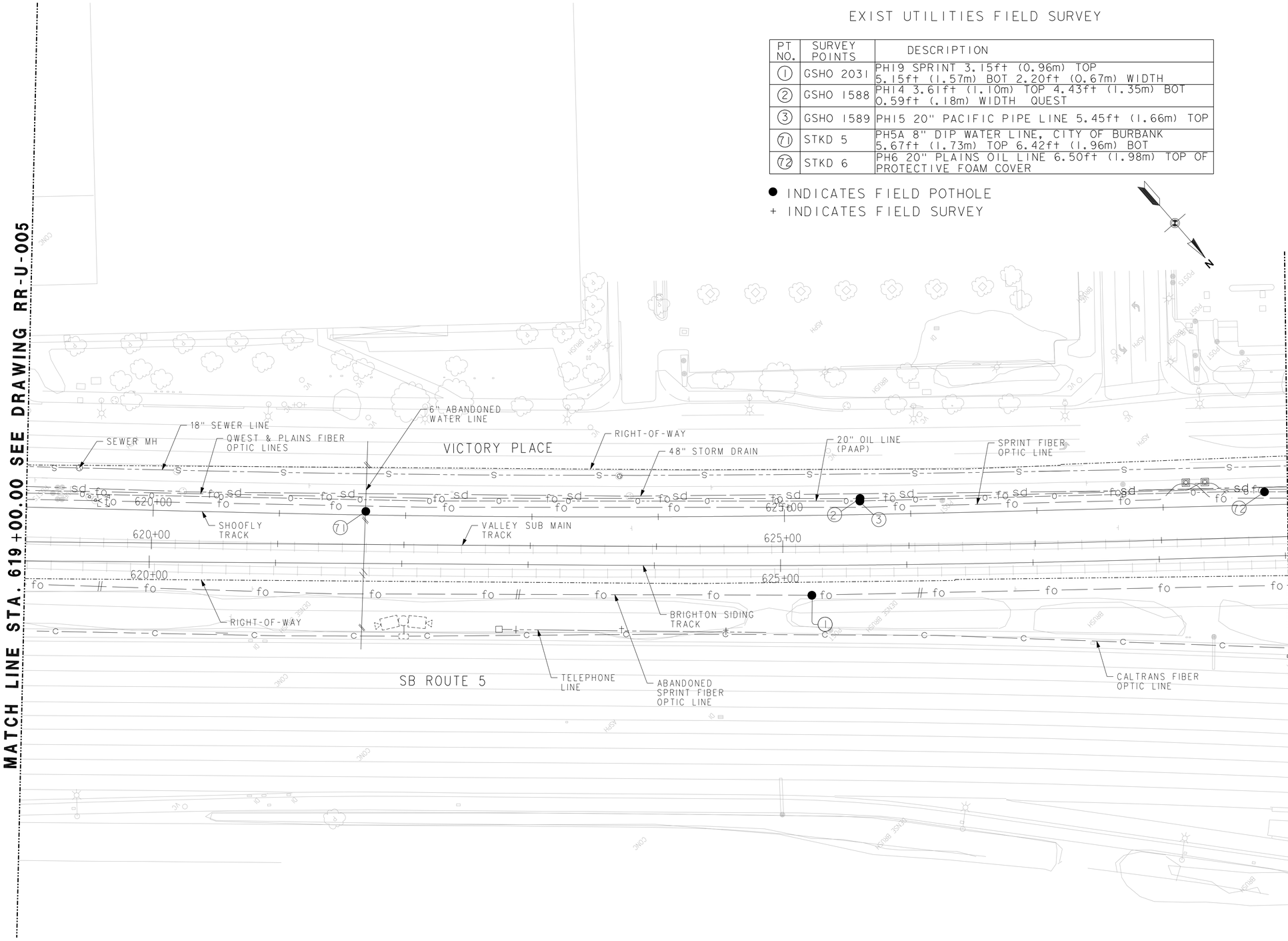
SCRRA
279 E. ARROW HIGHWAY
SAN DIMAS, CA 91773

AECOM
515 SOUTH FLOWER ST. 4th FLOOR
LOS ANGELES, CA 90071

EXIST UTILITIES FIELD SURVEY

PT NO.	SURVEY POINTS	DESCRIPTION
(1)	GSHO 2031	PH19 SPRINT 3.15ft (0.96m) TOP 5.15ft (1.57m) BOT 2.20ft (0.67m) WIDTH
(2)	GSHO 1588	PH14 3.61ft (1.10m) TOP 4.43ft (1.35m) BOT 0.59ft (.18m) WIDTH QUEST
(3)	GSHO 1589	PH15 20" PACIFIC PIPE LINE 5.45ft (1.66m) TOP
(71)	STKD 5	PH5A 8" DIP WATER LINE, CITY OF BURBANK 5.67ft (1.73m) TOP 6.42ft (1.96m) BOT
(72)	STKD 6	PH6 20" PLAINS OIL LINE 6.50ft (1.98m) TOP OF PROTECTIVE FOAM COVER

● INDICATES FIELD POTHOLE
+ INDICATES FIELD SURVEY



40 30 20 10 0 40 80
1" = 40'-0"

RR-U-006
RAILROAD SHEET NO. 163 OF 394
HORIZ 1"=40'

RR – EXISTING UTILITIES
SHEET 3 OF 12

APPROVED FOR RAILROAD UTILITY WORK.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
DESIGN
CONSULTANT FUNCTIONAL SUPERVISOR: PATRICK NICHOLSON
CALCULATED-DESIGNED BY: RICHARD SILOS
CHECKED BY: YVACHESLAV KOZITSKY
REVISED BY | DATE REVISED

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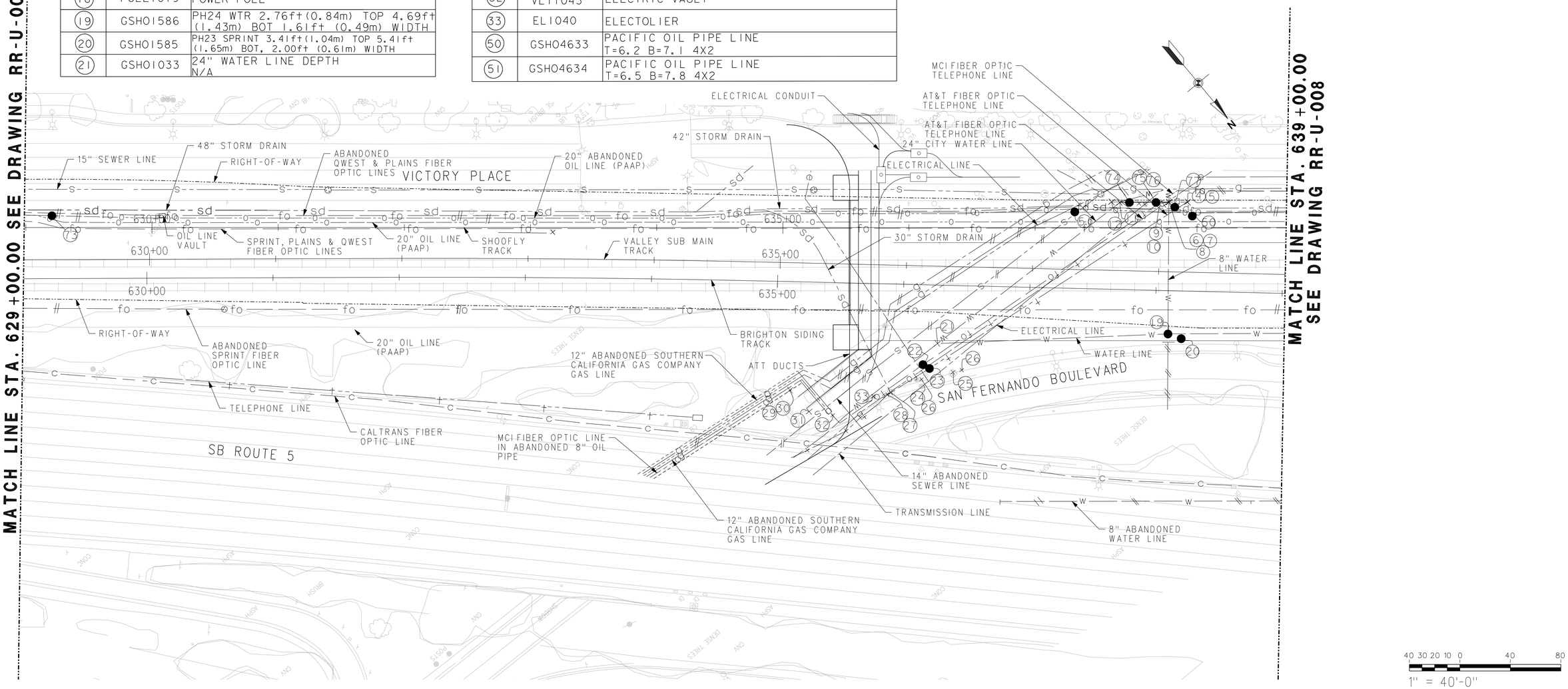
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1812
PROJECT NUMBER & PHASE 07000211191

EXIST UTILITIES FIELD SURVEY

PT NO.	FIELD SURVEY POINTS	DESCRIPTION
4	GSHO1000	2" GAS PIPE 1.71ft (0.52m) DEPTH
5	GSHO1001	SBC 5" PIPE 5.38ft (1.64m) DEPTH
6	GSHO1003	2" GAS PIPE 1.94ft (0.59m) DEPTH
7	GSHO1004	18" WL 3.81ft (1.16m) DEPTH
8	GSHO1005	24" WL 5.58ft (1.70m) DEPTH
9	OG1007	2" GAS PIPE 1.94ft (0.59m) DEPTH
10	GSHO1008	MCI 8" STEEL PIPE 3.74ft (1.14m) DEPTH
11	GSHO1010	24" WATER PIPE 5.94ft (1.81m) DEPTH
12	GSHO1012	18" WL 4.82ft (1.47m) DEPTH
18	POLE1019	POWER POLE
19	GSHO1586	PH24 WTR 2.76ft(0.84m) TOP 4.69ft (1.43m) BOT 1.61ft (0.49m) WIDTH
20	GSHO1585	PH23 SPRINT 3.41ft(1.04m) TOP 5.41ft (1.65m) BOT, 2.00ft (0.61m) WIDTH
21	GSHO1033	24" WATER LINE DEPTH N/A
22	GSHO1034	PH8 8" MCI 1.97ft (0.6m) DEPTH
23	GSHO1035	PH9 SBC 19" 4.10ft (1.25m) TOP 4.69ft (1.43m) BOTTOM
24	POLE1037	POWER POLE
25	TLMH1041	TELEPHONE MANHOLE
26	CAB1042	ELECTRIC CABINET
27	TLMH1039	TELEPHONE MANHOLE
28	TELC1062	SBC
29	GSHO1069	PH10
31	GSHO1071	ABANDONED GAS PIPE
32	VLT1043	ELECTRIC VAULT
33	EL1040	ELECTOLIER
50	GSHO4633	PACIFIC OIL PIPE LINE T=6.2 B=7.1 4X2
51	GSHO4634	PACIFIC OIL PIPE LINE T=6.5 B=7.8 4X2
73	STKD 7	PH7 20" PLAINS OIL LINE 6.21ft (1.89m) TOP OF PROTECTIVE FOAM COVER
74	STKD 15	PH14A 24" DIP WATER LINE 4.82ft (1.47m) TOP 6.97ft (2.12m) BOT
75	STKD 15	PH14A1 2" TELCO LINE 2.88ft (0.88m) TOP
76	STKD 15	PH14A1 TWO 8" WATER LINE 4.43ft (1.35m) BOT
77	STKD 15	PH14C 8" WATER LINE 5.72ft (1.74m) TOP 6.47ft (1.97m) BOT

● INDICATES FIELD POTHOLE
+ INDICATES FIELD SURVEY



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1" = 40'-0"

APPROVED FOR RAILROAD UTILITY WORK.

RR – EXISTING UTILITIES
SHEET 4 OF 12

RR-U-007
RAILROAD SHEET NO. 164 OF 394
HORIZ 1"=40'

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1534	1931

Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

05-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — PATRICK NICHOLSON — No. C 40993 — Exp. 3-31-2013 — CIVIL — STATE OF CALIFORNIA

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UNIT 1812
PROJECT NUMBER & PHASE 07000211191

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1535	1931

Patrick Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

05-21-12
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PATRICK NICHOLSON
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LOS ANGELES, CA 90071

EXIST UTILITIES FIELD SURVEY

(48)	GSH01587	WATER LINE
(49)	GSH04632	PACIFIC OIL PIPE LINE 5.4' TO CONC ENCASEMENT

● INDICATES FIELD POTHOLE
+ INDICATES FIELD SURVEY

MATCH LINE STA. 639+00.00 SEE DRAWING RR-U-007

MATCH LINE STA. 649+00.00 SEE DRAWING RR-U-009

ELECTRICAL LINE
42" STORM DRAIN
EMPIRE AVENUE
4" ABANDONED SOUTHERN CALIFORNIA GAS COMPANY GAS LINE
ABANDONED MCI FIBER OPTIC LINE
RIGHT-OF-WAY
20" ABANDONED OIL LINE (PAAP)
VICTORIA PLACE
ABANDONED QWEST & PLAINS FIBER OPTIC LINE
WILSON AVENUE
SHOOFLY TRACK
VALLEY SUB MAIN TRACK
SPRINT, PLAINS & QWEST FIBER OPTIC LINES
20" OIL LINE (PAAP)
640+00
645+00
WATER LINE
RIGHT-OF-WAY
ATT DUCTS
ELECTRICAL LINE TO PUMP STATION
BRIGHTON SIDING TRACK
ABANDONED SPRINT FIBER OPTIC LINE
26" ABANDONED SOUTHERN CALIFORNIA GAS COMPANY GAS LINE
SAN FERNANDO BOULEVARD
SB ROUTE 5

40 30 20 10 0 40 80
1" = 40'-0"

RR-U-008
RAILROAD SHEET NO. 165 OF 394

RR – EXISTING UTILITIES
SHEET 5 OF 12

HORIZ 1"=40'

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1536	1931

Pat Nicholson 05-21-12
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05-21-12
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PATRICK NICHOLSON
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MATCH LINE STA. 649+00.00 SEE DRAWING RR-U-008

MATCH LINE STA. 659+00.00 SEE DRAWING RR-U-010

MARIA STREET

VICTORY PLACE

SAN FERNANDO BOULEVARD (CLOSED)

SB ROUTE 5 OFF-RAMP

SB ROUTE 5

650+00

655+00

20" ABANDONED OIL LINE (PAAP)

ABANDONED MCI FIBER OPTIC LINE

EXIST BILLBOARD (TO BE RELOCATED BY CLEAR CHANNEL OUTDOOR)

OIL LINE (PAAP) & QWEST VAULT

EXIST QWEST FO LINE ON EXIST BRIDGE

EXIST 20" OIL LINE (PAAP) ON EXIST BRIDGE

OIL LINE (PAAP) & QWEST VAULT

RIGHT-OF-WAY

20" OIL LINE (PAAP)

20" OIL LINE (PAAP)

ABANDONED QWEST & PLAINS FIBER OPTIC LINES

SHOOFLY TRACK

SPRINT, PLAINS & QWEST FIBER OPTIC LINES

VALLEY SUB MAIN TRACK

BRIGHTON SIDING TRACK

RIGHT-OF-WAY

ELECTRICAL LINE

EXIST PUMP HOUSE (TO BE REMOVED) SEE NOTE 1

PUMP HOUSE

27" RCP

ABANDONED SPRINT FIBER OPTIC LINE

18" STORM DRAIN

ELECTRICAL LINE

27" STORM DRAIN PROTECT IN PLACE

CALTRANS FIBER OPTIC LINE

12" ABANDONED SEWER LINE

NOTE:

1. CONTRACTOR TO COORDINATE THE REMOVAL OF THE OH LINES WITH BURBANK WATER AND POWER (BWP) AS PART OF THE CONTRACTOR'S DECOMMISSIONING PLAN OF THE EXISTING PUMP HOUSE. PUMP HOUSE IS NOT TO BE REMOVED FROM SERVICE UNTIL THE CONTRACTOR IS READY TO COMPLETE THE BACK-FILLING AT SAN FERNANDO.

40 30 20 10 0 40 80
1" = 40'-0"

RR-U-009
RAILROAD SHEET NO. 166 OF 394

RR – EXISTING UTILITIES
SHEET 6 OF 12

HORIZ 1"=40'

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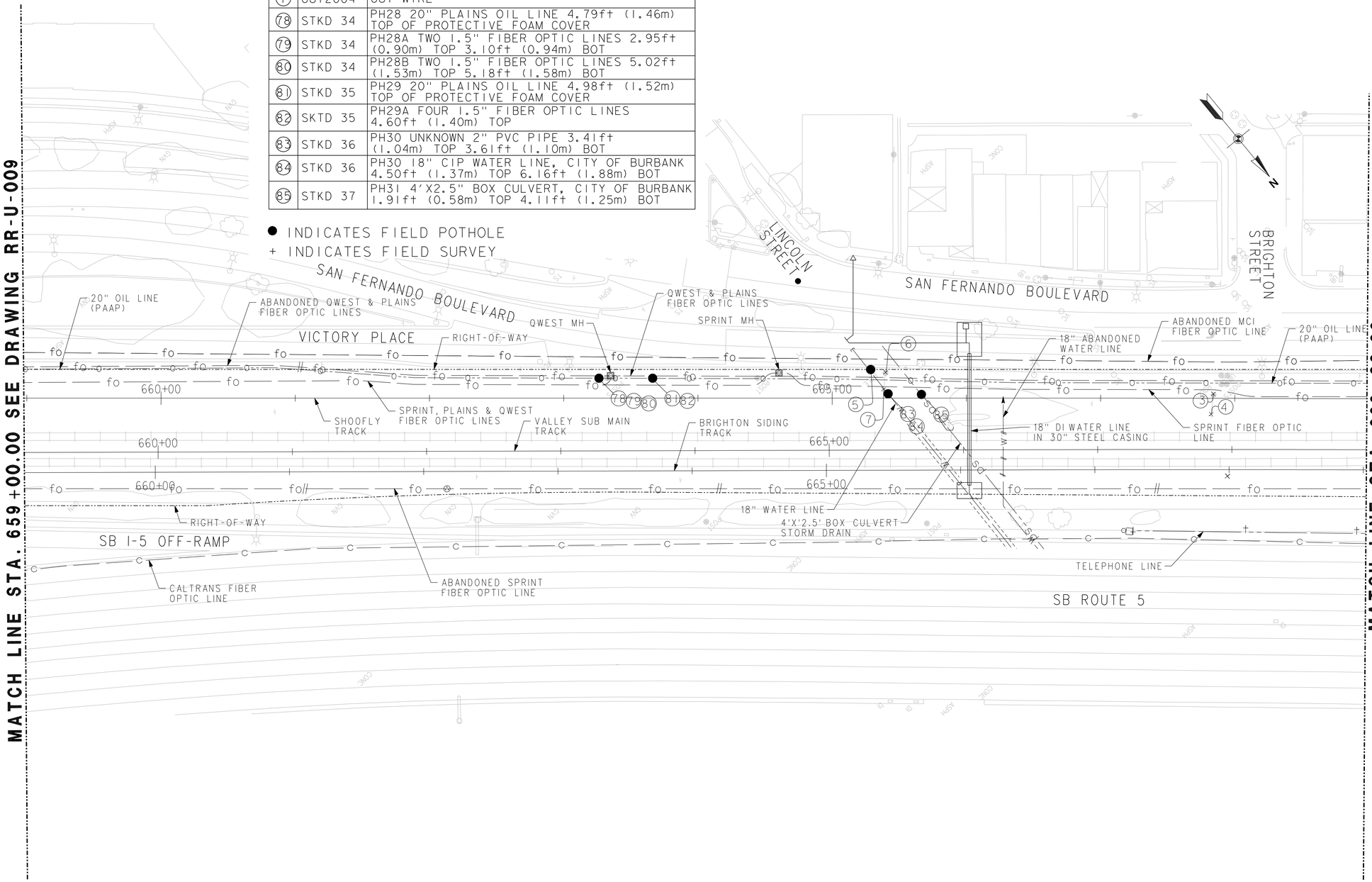
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1812
PROJECT NUMBER & PHASE 07000211191

EXIST UTILITIES FIELD SURVEY

③	POLE2006	
④	GUY2005	GUY WIRE
⑤	GSHO2002	PH16 18" WATER 5.51ft (1.68m) depth
⑥	POLE2003	POWER POLE
⑦	GUY2004	GUY WIRE
⑧	STKD 34	PH28 20" PLAINS OIL LINE 4.79ft (1.46m) TOP OF PROTECTIVE FOAM COVER
⑨	STKD 34	PH28A TWO 1.5" FIBER OPTIC LINES 2.95ft (0.90m) TOP 3.10ft (0.94m) BOT
⑩	STKD 34	PH28B TWO 1.5" FIBER OPTIC LINES 5.02ft (1.53m) TOP 5.18ft (1.58m) BOT
⑪	STKD 35	PH29 20" PLAINS OIL LINE 4.98ft (1.52m) TOP OF PROTECTIVE FOAM COVER
⑫	SKTD 35	PH29A FOUR 1.5" FIBER OPTIC LINES 4.60ft (1.40m) TOP
⑬	STKD 36	PH30 UNKNOWN 2" PVC PIPE 3.41ft (1.04m) TOP 3.61ft (1.10m) BOT
⑭	STKD 36	PH30 18" CIP WATER LINE, CITY OF BURBANK 4.50ft (1.37m) TOP 6.16ft (1.88m) BOT
⑮	STKD 37	PH31 4'X2.5" BOX CULVERT, CITY OF BURBANK 1.91ft (0.58m) TOP 4.11ft (1.25m) BOT

● INDICATES FIELD POTHOLE
+ INDICATES FIELD SURVEY



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1537	1931

Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

PATRICK NICHOLSON No. C 40993 Exp. 3-31-2013 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

05-21-12
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LOS ANGELES, CA 90071

RR-U-010

RAILROAD SHEET NO. 167 OF 394

HORIZ 1"=40'

RR – EXISTING UTILITIES
SHEET 7 OF 12

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UNIT 1812
PROJECT NUMBER & PHASE 07000211191

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1538	1931

Pat Nicholson 05-21-12
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AECOM
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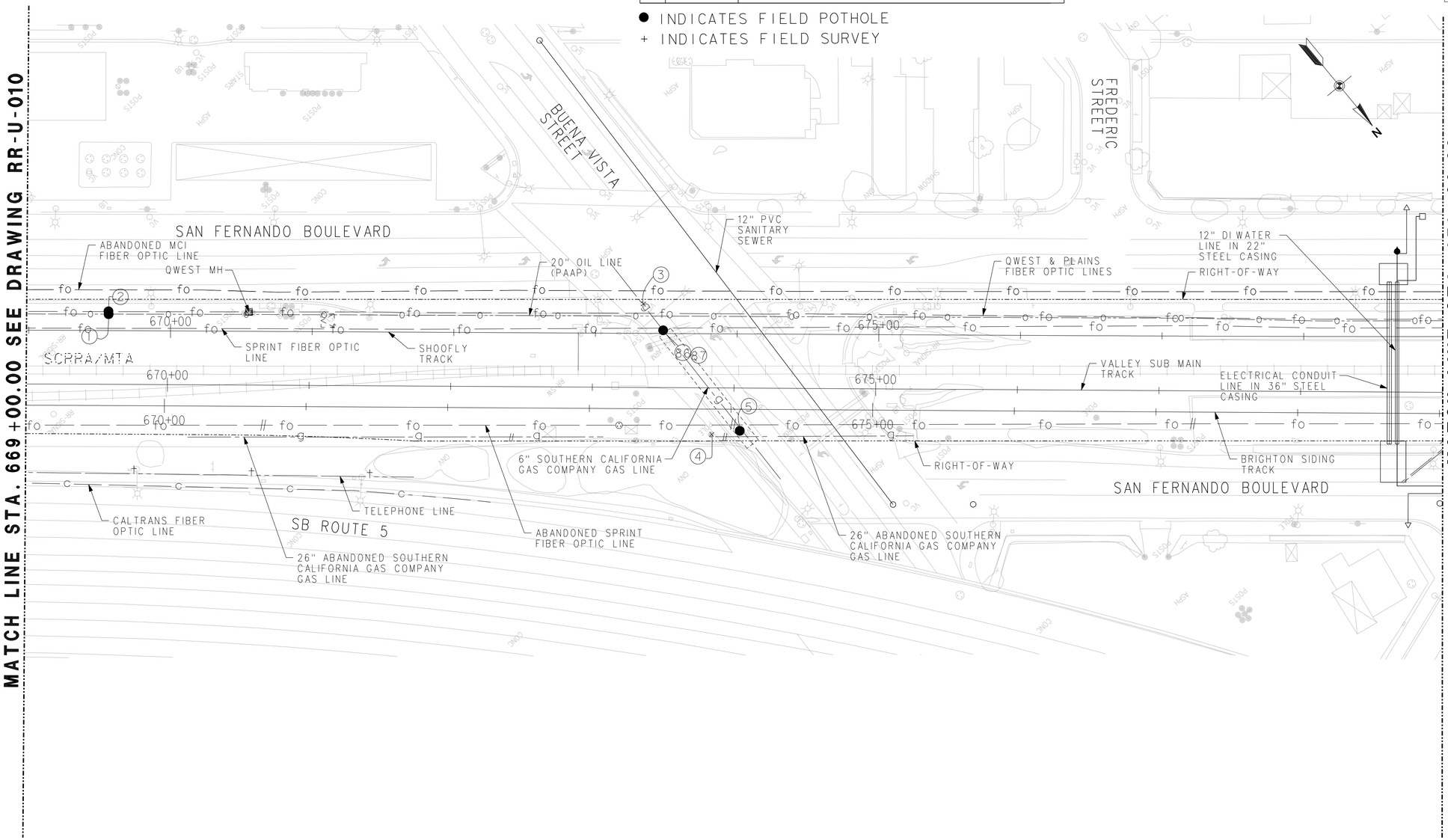
LOS ANGELES, CA 90071

EXIST UTILITIES FIELD SURVEY

PT NO	SURVEY POINT	DESCRIPTION
1	GSHO2001	PH18 20" PACIFIC 5.25ft (1.60m) DEPTH
2	GSHO2000	PH17 QUEST 3.44ft (1.05m) depth
3	GV1999	GAS VALVE
4	POLE2009	POWER POLE
5	GSHO2008	PH26 6" GAS LINE 6.73ft (2.05m) DEPTH
86	STKD 43	PH36 TWO UNKNOWN 3" PVC CONDUITS 2.77ft (0.84m) TOP 3.06ft (0.93m) BOT
87	STKD 43	PH36 6" SO CAL GAS LINE 5.75ft(1.75m) TOP 6.30ft (1.92m) BOT

● INDICATES FIELD POTHOLE
+ INDICATES FIELD SURVEY



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1" = 40'-0"

RR-U-011
RAILROAD SHEET NO. 168 OF 394
HORIZ 1"=40'

RR – EXISTING UTILITIES
SHEET 8 OF 12

APPROVED FOR RAILROAD UTILITY WORK.

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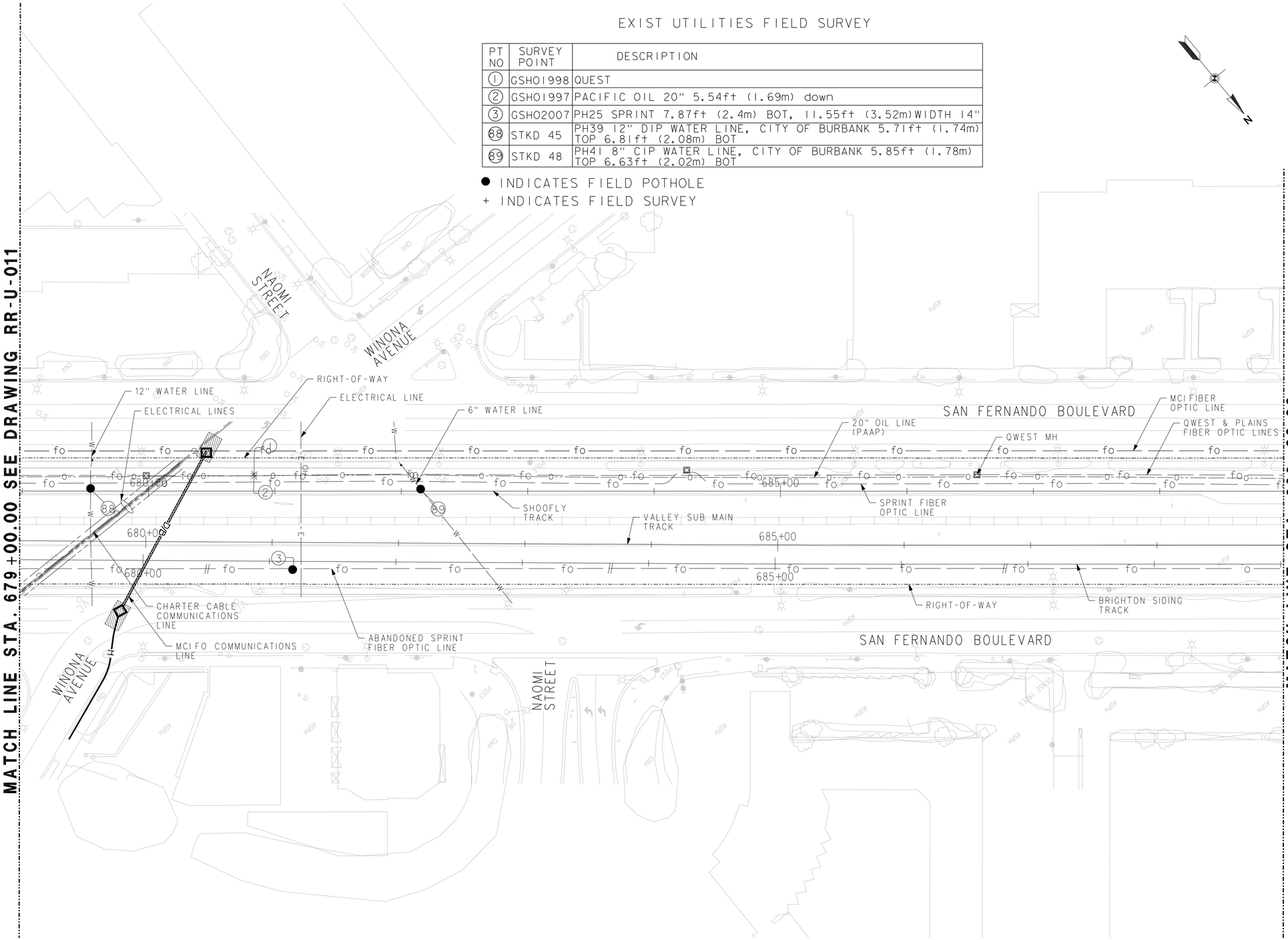
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1812
PROJECT NUMBER & PHASE 07000211191

EXIST UTILITIES FIELD SURVEY

PT NO	SURVEY POINT	DESCRIPTION
(1)	GSHOI998	QUEST
(2)	GSHOI997	PACIFIC OIL 20" 5.54ft (1.69m) down
(3)	GSHO2007	PH25 SPRINT 7.87ft (2.4m) BOT, 11.55ft (3.52m) WIDTH 14"
(88)	STKD 45	PH39 12" DIP WATER LINE, CITY OF BURBANK 5.71ft (1.74m) TOP 6.81ft (2.08m) BOT
(89)	STKD 48	PH41 8" CIP WATER LINE, CITY OF BURBANK 5.85ft (1.78m) TOP 6.63ft (2.02m) BOT

● INDICATES FIELD POTHOLE
+ INDICATES FIELD SURVEY



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1" = 40'-0"

RR – EXISTING UTILITIES
SHEET 9 OF 12

APPROVED FOR RAILROAD UTILITY WORK.

RR-U-012
RAILROAD SHEET NO. 169 OF 394

HORIZ 1"=40'

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1539	1931

Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

05-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — PATRICK NICHOLSON — No. C 40993 — Exp. 3-31-2013 — CIVIL — STATE OF CALIFORNIA

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1540	1931

Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

05-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
PATRICK NICHOLSON
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Exp. 3-31-2013
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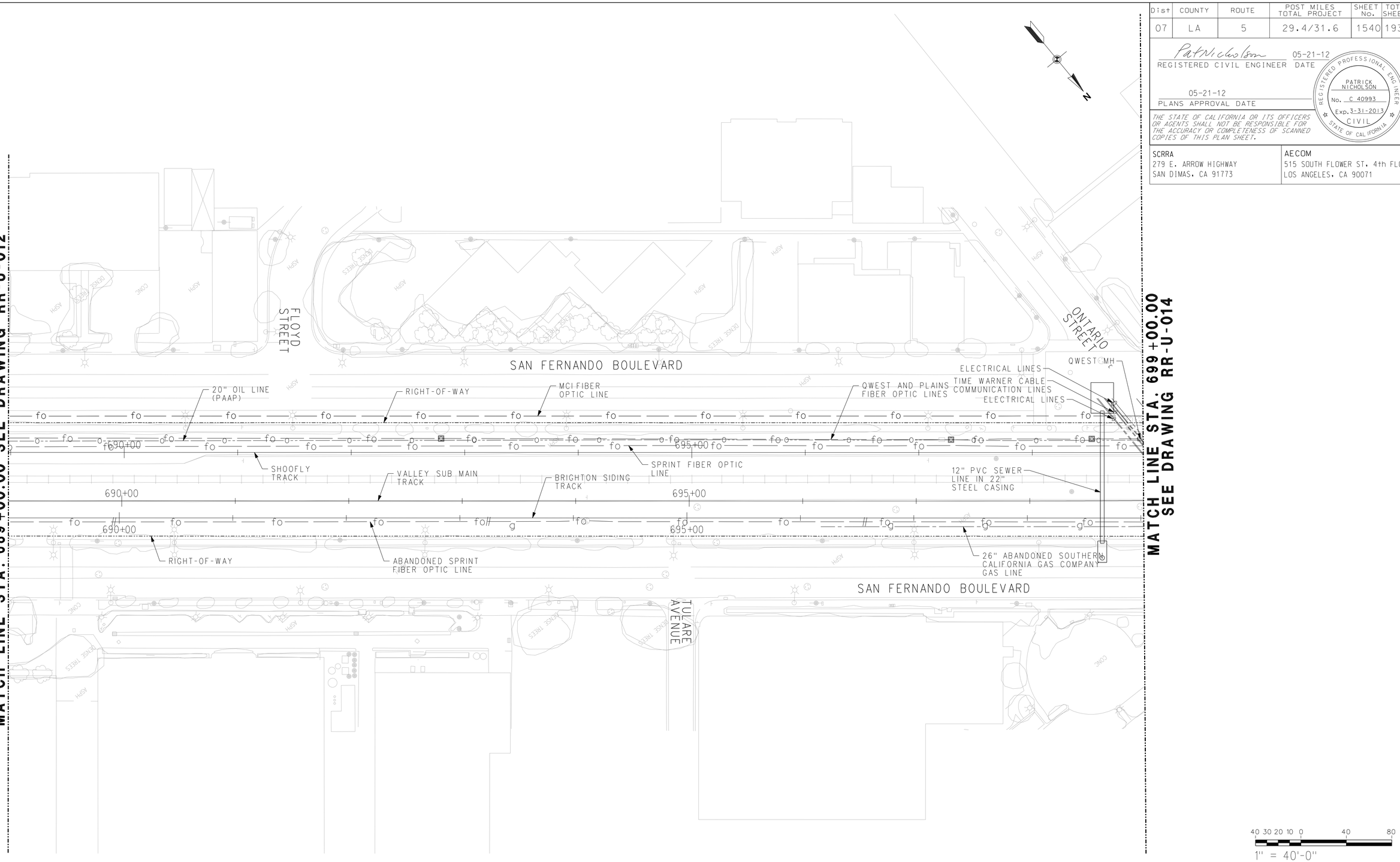
MATCH LINE STA. 689+00.00 SEE DRAWING RR-U-012

MATCH LINE STA. 699+00.00 SEE DRAWING RR-U-014



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1" = 40'-0"

RR – EXISTING UTILITIES
SHEET 10 OF 12

RR-U-013

RAILROAD SHEET NO.
170 OF 394

HORIZ 1"=40'

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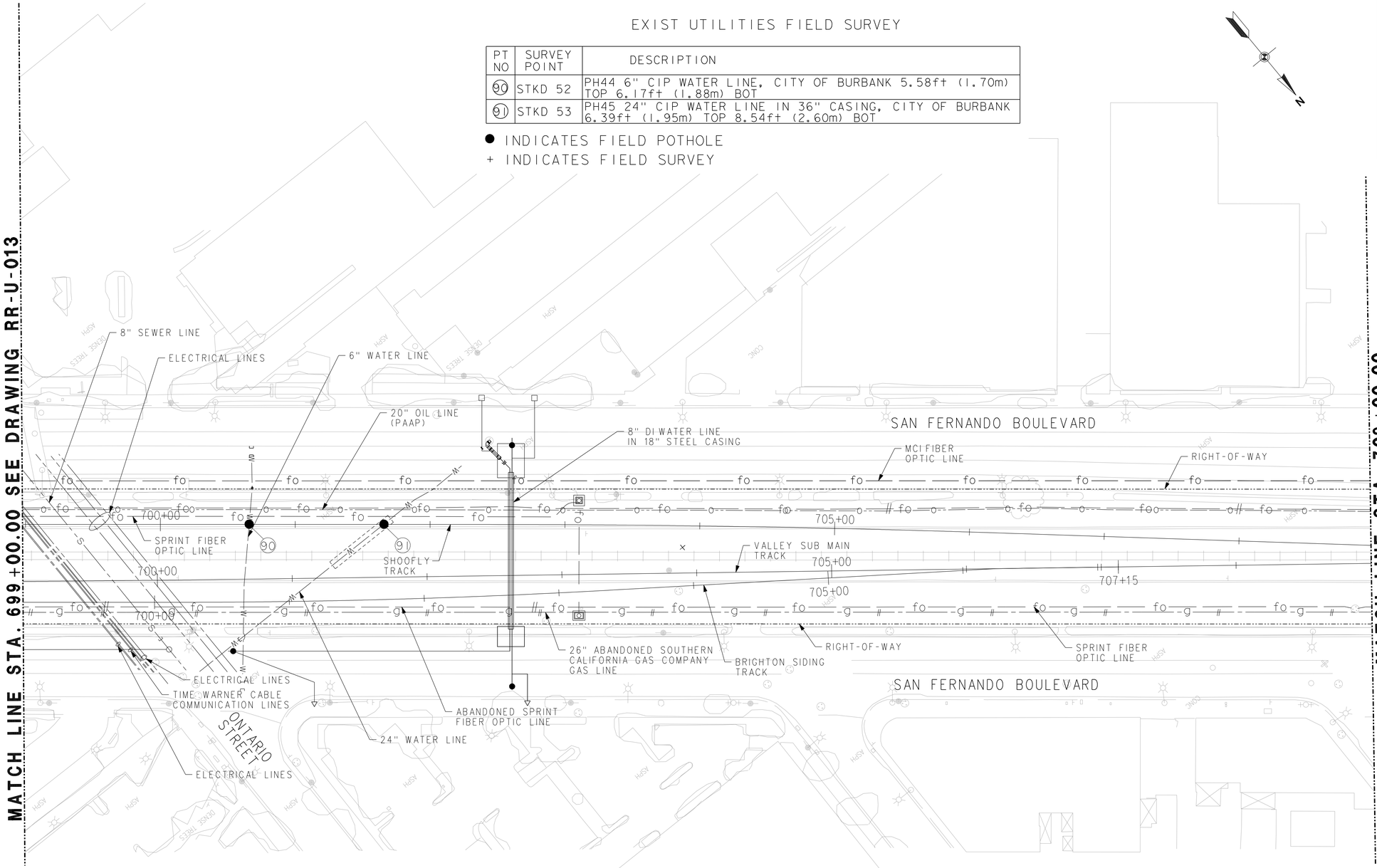
UNIT 1812
PROJECT NUMBER & PHASE 07000211191

EXIST UTILITIES FIELD SURVEY

PT NO	SURVEY POINT	DESCRIPTION
90	STKD 52	PH44 6" CIP WATER LINE, CITY OF BURBANK 5.58ft (1.70m) TOP 6.17ft (1.88m) BOT
91	STKD 53	PH45 24" CIP WATER LINE IN 36" CASING, CITY OF BURBANK 6.39ft (1.95m) TOP 8.54ft (2.60m) BOT

● INDICATES FIELD POTHOLE
+ INDICATES FIELD SURVEY



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1" = 40'-0"

APPROVED FOR RAILROAD UTILITY WORK.

RR – EXISTING UTILITIES
SHEET 11 OF 12

RR-U-014
RAILROAD SHEET NO.
171 OF 394

HORIZ 1"=40'

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1541	1931

Pat Nicholson 05-21-12
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DATE REVISED

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LAST REVISION 00-00-00

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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1812
PROJECT NUMBER & PHASE 07000211191

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1542	1931

Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

05-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
PATRICK NICHOLSON
No. C 40993
Exp. 3-31-2013
CIVIL
STATE OF CALIFORNIA

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SCRRA
279 E. ARROW HIGHWAY
SAN DIMAS, CA 91773

AECOM
515 SOUTH FLOWER ST. 4th FLOOR
LOS ANGELES, CA 90071

SEE DRAWING RR-U-014

MATCH LINE STA. 709+00.00

40 30 20 10 0 40 80
1" = 40'-0"

RR – EXISTING UTILITIES
SHEET 12 OF 12

APPROVED FOR RAILROAD UTILITY WORK.

RR-U-015
RAILROAD SHEET NO.
172 OF 394
HORIZ 1"=40'

LAST REVISION 00-00-00

STATE OF CALIFORNIA – DEPARTMENT OF TRANSPORTATION
DESIGN
CONSULTANT FUNCTIONAL SUPERVISOR: PATRICK NICHOLSON
CALCULATED-DESIGNED BY: YVACHESLAV KOZITSKY
CHECKED BY: RICHARD SILOS
REVISED BY
DATE REVISED

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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1812
PROJECT NUMBER & PHASE 07000211191

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1543	1931

Patrick Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER
PATRICK NICHOLSON
No. C 40993
Exp. 3-31-2013
CIVIL
STATE OF CALIFORNIA

05-21-12
PLANS APPROVAL DATE

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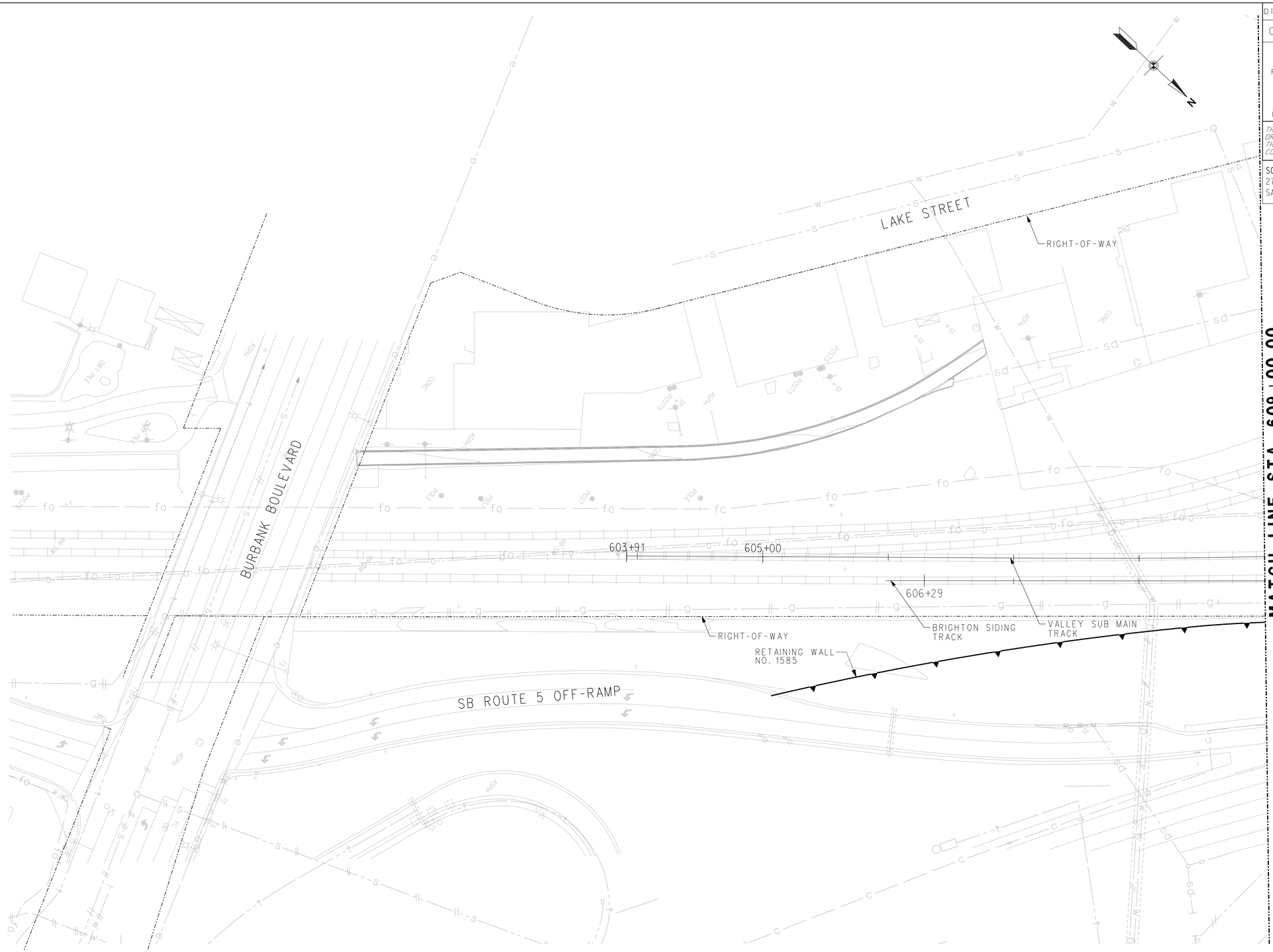
SCRRA
279 E. ARROW HIGHWAY
SAN DIMAS, CA 91773

AECOM
515 SOUTH FLOWER ST. 4th FLOOR
LOS ANGELES, CA 90071



NOTES:

1. CONTRACTOR TO REMOVE INTERFERING PORTIONS OF THE ABANDONED SPRINT DUCT BANK. SPRINT WILL PULL THEIR FIBER OPTIC LINE PRIOR TO ABANDONMENT.
2. AT&T, VERIZON, SPRINT, AND QWEST FIBER OPTIC LINES AND PLAINS ALL AMERICAN PIPELINE OIL LINE TO BE RELOCATED BY OTHERS.
3. 26" ABANDONED SOUTHERN CALIFORNIA GAS COMPANY GAS LINE TO BE REMOVED BY OTHERS.

40 30 20 10 0 40 80
1" = 40'-0"

RR-U-016
RAILROAD SHEET NO. 173 OF 394

HORIZ 1"=40'

RR - UTILITY REARRANGEMENT PLANS
SHEET 1 OF 12

APPROVED FOR RAILROAD UTILITY WORK.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
CONSULTANT FUNCTIONAL SUPERVISOR: PATRICK NICHOLSON
CALCULATED-DESIGNED BY
CHECKED BY: RICHARD SILOS
REVISED BY: YVACHESLAV KOZITSKY
DATE REVISED

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LAST REVISION 00-00-00

BORDER LAST REVISED 7/2/2010
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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1812
PROJECT NUMBER & PHASE 07000211191

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1544	1931

Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

05-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
PATRICK NICHOLSON
No. C 40993
Exp. 3-31-2013
CIVIL
STATE OF CALIFORNIA

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SCRRA
279 E. ARROW HIGHWAY
SAN DIMAS, CA 91773

AECOM
515 SOUTH FLOWER ST. 4th FLOOR
LOS ANGELES, CA 90071

MATCH LINE STA. 609+00.00 SEE DRAWING RR-U-016

MATCH LINE STA. 619+00.00 SEE DRAWING RR-U-018

VICTORY PLACE

RIGHT-OF-WAY

SHOOFLY TRACK

RETAINING WALL NO. 1

610+00

615+00

RETAINING WALL NO. 1585

RIGHT-OF-WAY

BRIGHTON SIDING TRACK

VALLEY SUB MAIN TRACK

RETAINING WALL NO. 1595

SB ROUTE 5

NOTES:

1. FOR NOTES SEE DWG RR-U-016.

40 30 20 10 0 40 80
1" = 40'-0"

APPROVED FOR RAILROAD UTILITY WORK.

RR-U-017

RAILROAD SHEET NO. 174 OF 394

HORIZ 1"=40'

RR – UTILITY REARRANGEMENT PLANS
SHEET 2 OF 12

STATE OF CALIFORNIA – DEPARTMENT OF TRANSPORTATION
DESIGN
CONSULTANT FUNCTIONAL SUPERVISOR: PATRICK NICHOLSON
CALCULATED–DESIGNED BY
CHECKED BY: RICHARD SILOS
REVISED BY: YVACHESLAV KOZITSKY
DATE REVISED

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LAST REVISION 00-00-00

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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1812
PROJECT NUMBER & PHASE 07000211191

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1545	1931

Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

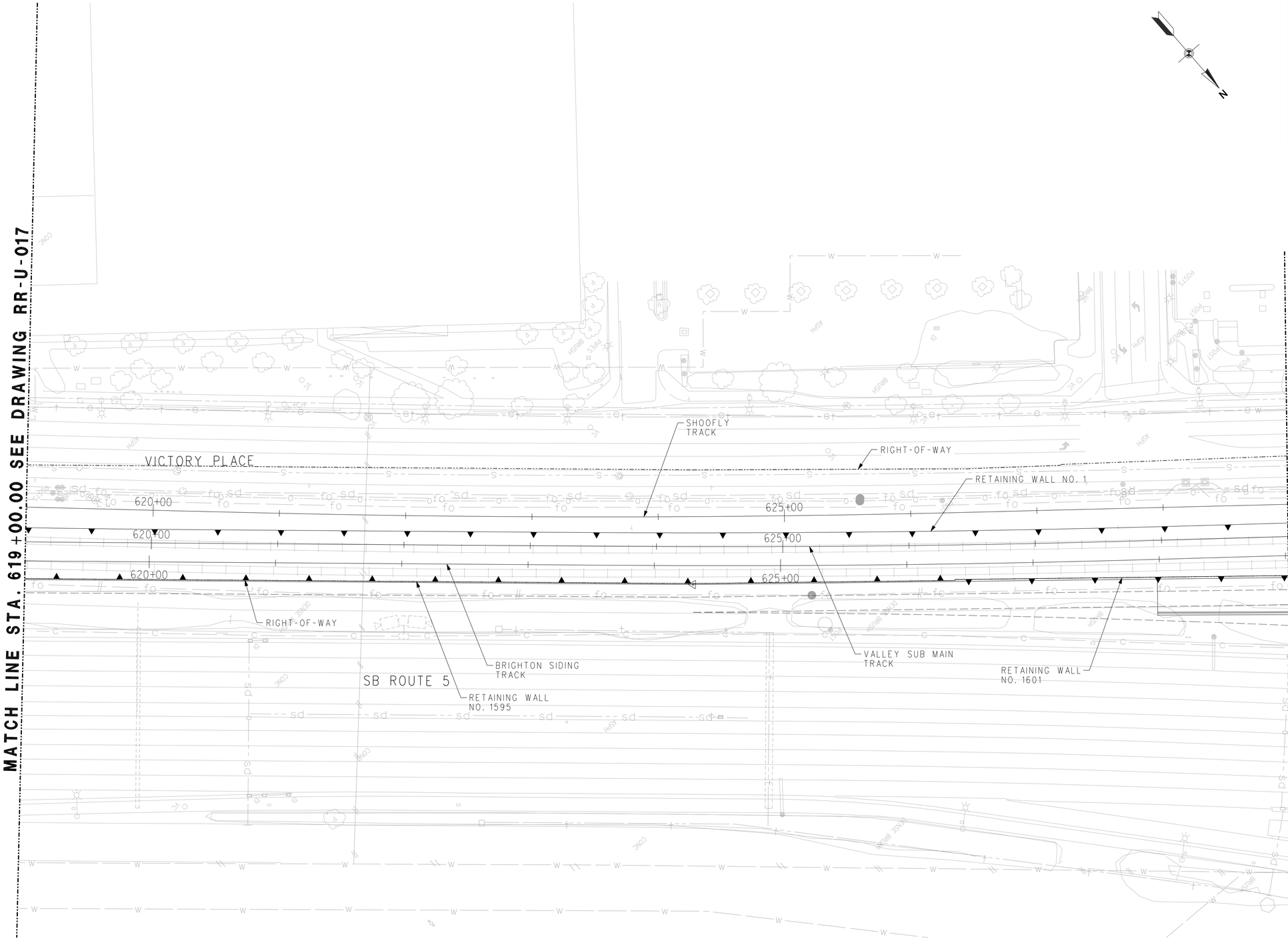
PATRICK NICHOLSON
No. C 40993
Exp. 3-31-2013
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

05-21-12
PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

SCRRA
279 E. ARROW HIGHWAY
SAN DIMAS, CA 91773

AECOM
515 SOUTH FLOWER ST. 4th FLOOR
LOS ANGELES, CA 90071



NOTES:

1. FOR NOTES SEE DWG RR-U-016.

40 30 20 10 0 40 80
1" = 40'-0"

RR-U-018
RAILROAD SHEET NO.
175 OF 394

HORIZ 1"=40'

RR – UTILITY REARRANGEMENT PLANS
SHEET 3 OF 12

APPROVED FOR RAILROAD UTILITY WORK.

STATE OF CALIFORNIA – DEPARTMENT OF TRANSPORTATION
DESIGN
CONSULTANT FUNCTIONAL SUPERVISOR: PATRICK NICHOLSON
CALCULATED-DESIGNED BY: YVACHESLAV KOZITSKY
CHECKED BY: RICHARD SILOS
REVISED BY
DATE REVISED

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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1812
PROJECT NUMBER & PHASE 07000211191

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1546	1931

Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

05-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
PATRICK NICHOLSON
No. C 40993
Exp. 3-31-2013
CIVIL
STATE OF CALIFORNIA

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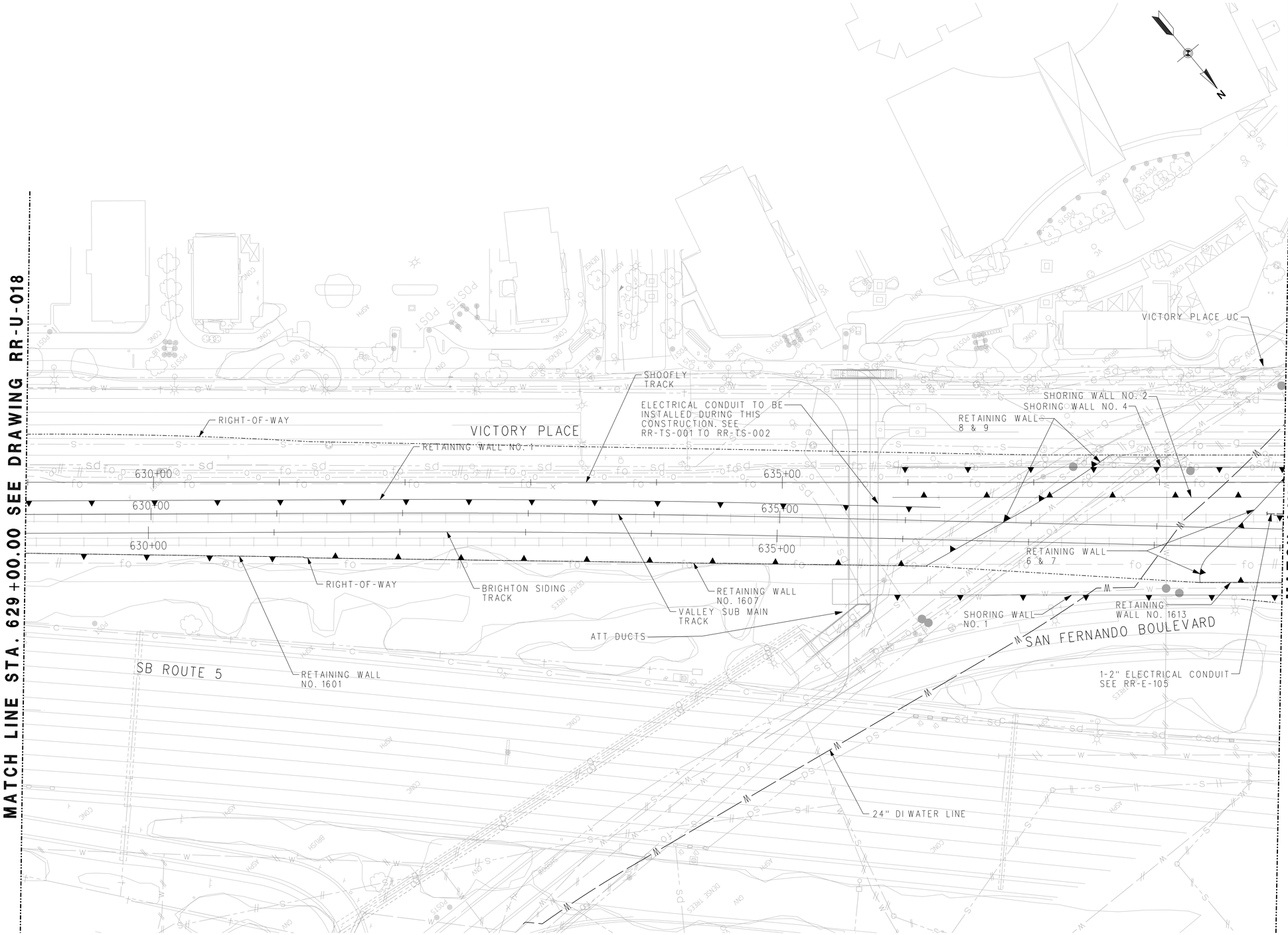
SCRRA
279 E. ARROW HIGHWAY
SAN DIMAS, CA 91773

AECOM
515 SOUTH FLOWER ST. 4th FLOOR
LOS ANGELES, CA 90071



NOTES:

1. FOR NOTES SEE DWG RR-U-016.

40 30 20 10 0 40 80
1" = 40'-0"

RR-U-019
RAILROAD SHEET NO. 176 OF 394
HORIZ 1"=40'

RR – UTILITY REARRANGEMENT PLANS
SHEET 4 OF 12

APPROVED FOR RAILROAD UTILITY WORK.

CALCULATED-DESIGNED BY
CHECKED BY
YVACHESLAV KOZITSKY
RICHARD SILOS
REVISED BY
DATE REVISED
CONSULTANT FUNCTIONAL SUPERVISOR
PATRICK NICHOLSON
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
Caltrans®

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LAST REVISION 00-00-00

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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1812
PROJECT NUMBER & PHASE 07000211191

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1547	1931

Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

05-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
PATRICK NICHOLSON
No. C 40993
Exp. 3-31-2013
CIVIL
STATE OF CALIFORNIA

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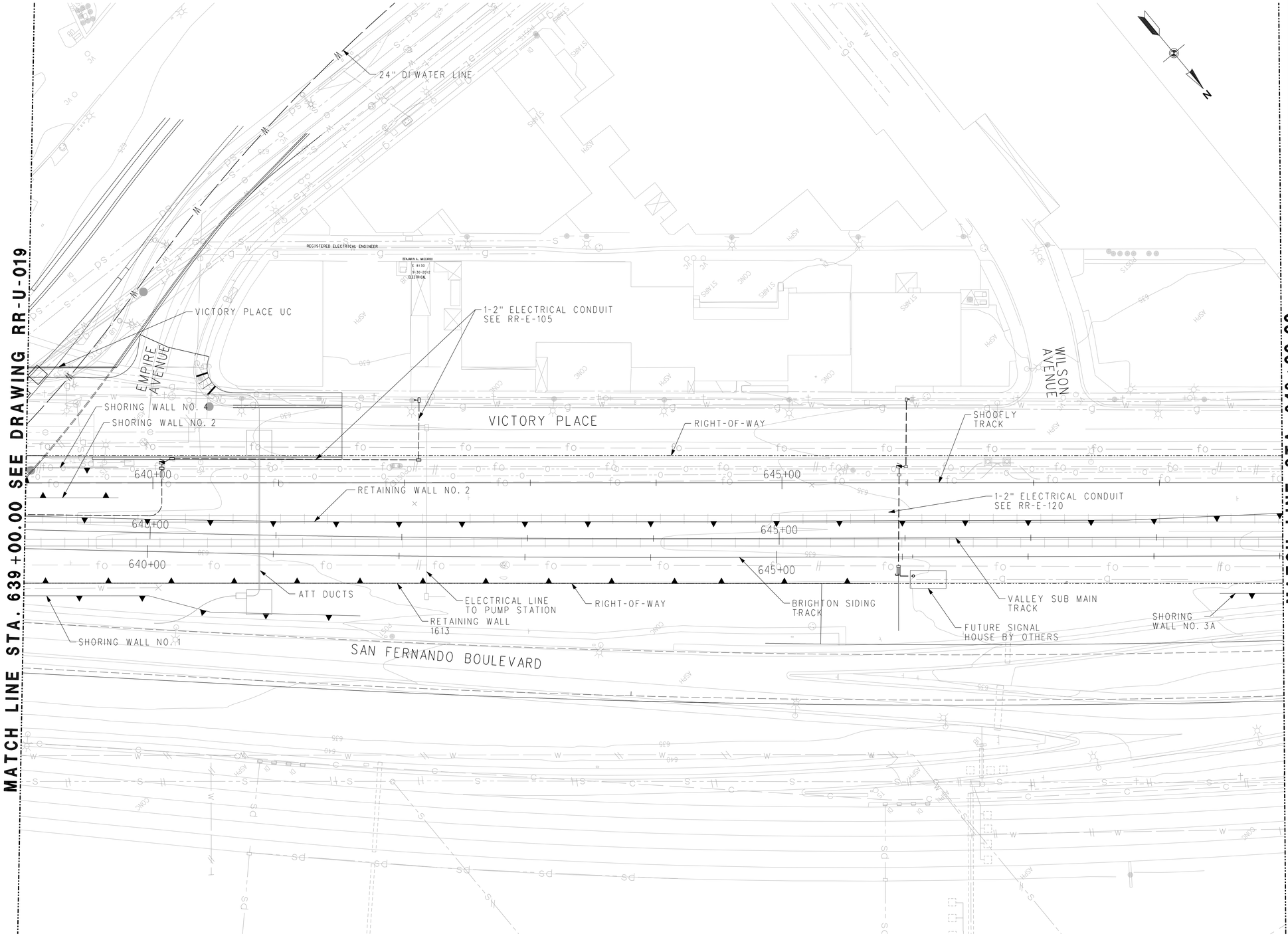
SCRRA
279 E. ARROW HIGHWAY
SAN DIMAS, CA 91773

AECOM
515 SOUTH FLOWER ST. 4th FLOOR
LOS ANGELES, CA 90071



NOTES:

1. FOR NOTES SEE DWG RR-U-016.

40 30 20 10 0 40 80
1" = 40'-0"

RR-U-020
RAILROAD SHEET NO. 177 OF 394
HORIZ 1"=40'

RR – UTILITY REARRANGEMENT PLANS
SHEET 5 OF 12

APPROVED FOR RAILROAD UTILITY WORK.

STATE OF CALIFORNIA – DEPARTMENT OF TRANSPORTATION
DESIGN
CONSULTANT FUNCTIONAL SUPERVISOR: PATRICK NICHOLSON
CALCULATED–DESIGNED BY
CHECKED BY
REVISED BY: YVACHESLAV KOZITSKY
DATE REVISED: RICHARD SILOS
DIR

LAST REVISION 00-00-00
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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1812
PROJECT NUMBER & PHASE 07000211191

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1548	1931

Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

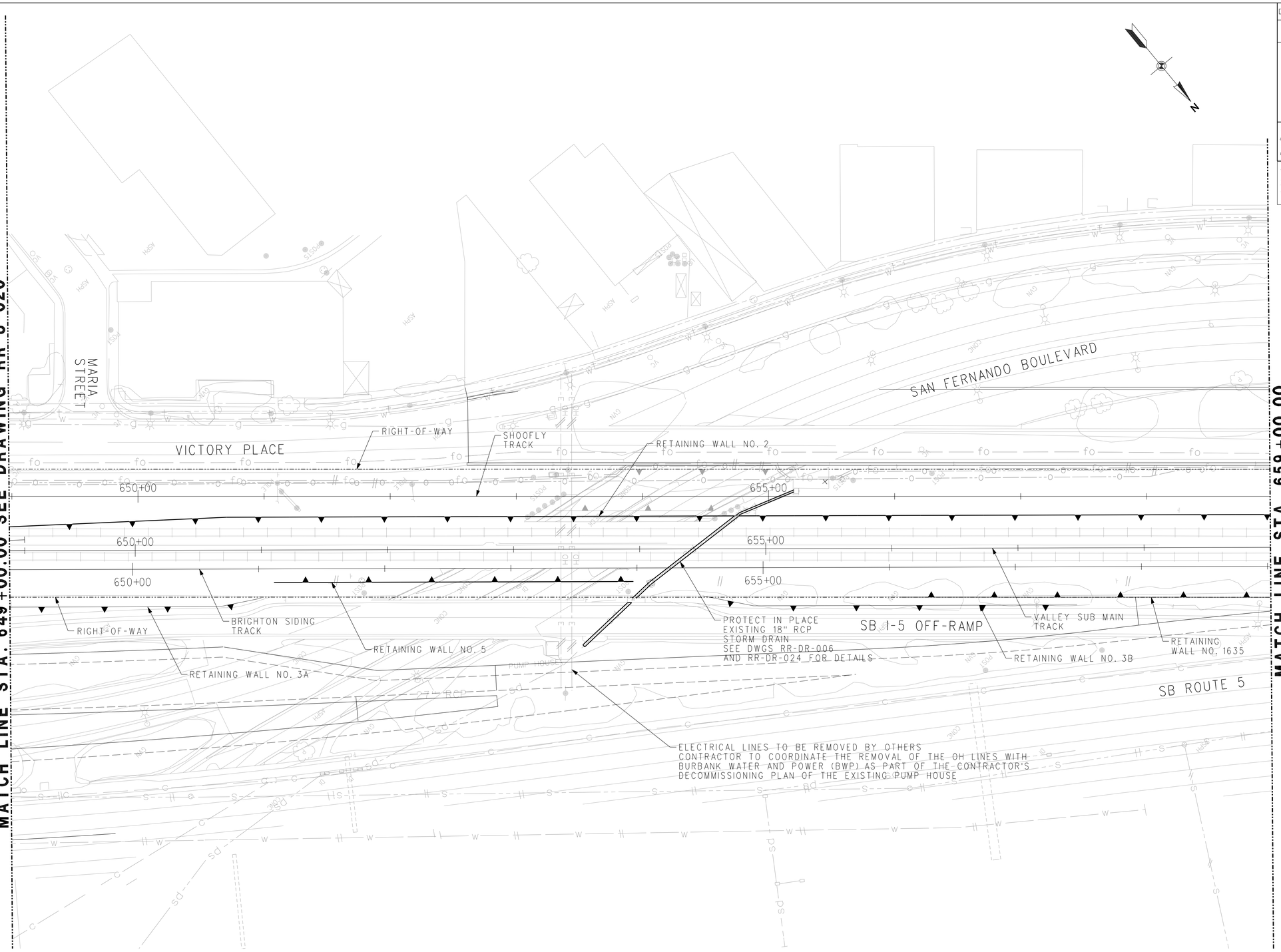
05-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
PATRICK NICHOLSON
No. C 40993
Exp. 3-31-2013
CIVIL
STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

SCRRA
279 E. ARROW HIGHWAY
SAN DIMAS, CA 91773

AECOM
515 SOUTH FLOWER ST. 4th FLOOR
LOS ANGELES, CA 90071



NOTES:

1. FOR NOTES SEE DWG RR-U-016.

40 30 20 10 0 40 80
1" = 40'-0"

RR-U-021
RAILROAD SHEET NO. 178 OF 394
HORIZ 1"=40'

RR – UTILITY REARRANGEMENT PLANS
SHEET 6 OF 12

APPROVED FOR RAILROAD UTILITY WORK.

STATE OF CALIFORNIA – DEPARTMENT OF TRANSPORTATION
DESIGN
CONSULTANT FUNCTIONAL SUPERVISOR: PATRICK NICHOLSON
CALCULATED–DESIGNED BY
CHECKED BY
YVACHESLAV KOZITSKY
RICHARD SILOS
REVISED BY
DATE REVISED

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LAST REVISION 00-00-00

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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1812
PROJECT NUMBER & PHASE 07000211191

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1549	1931

Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

PATRICK NICHOLSON
No. C 40993
Exp. 3-31-2013
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

05-21-12
PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

SCRRA
279 E. ARROW HIGHWAY
SAN DIMAS, CA 91773

AECOM
515 SOUTH FLOWER ST. 4th FLOOR
LOS ANGELES, CA 90071

MATCH LINE STA. 659+00.00 SEE DRAWING RR-U-021

MATCH LINE STA. 669+00.00 SEE DRAWING RR-U-023

SAN FERNANDO BOULEVARD
LINCOLN STREET
LINCOLN STREET
BRIGHTON STREET
SAN FERNANDO BOULEVARD
VICTORY PLACE
RIGHT-OF-WAY
RETAINING WALL NO. 2
SHOOFLY TRACK
660+00
665+00
SLURRY FILL EXISTING 18" CI WATER LINE (BY OTHERS)
PROPOSED BRIGHTON SIDING TRACK
RIGHT-OF-WAY
PROTECT IN PLACE EXISTING CITY OF BURBANK 4'x2.5' RC BOX CULVERT SEE DWGS RR-U-028, RR-U-029, AND RR-DR-007 FOR DETAILS
VALLEY SUB MAIN TRACK
ROUTE 5 OFF-RAMP
RETAINING WALL NO. 1635
ROUTE 5

NOTES:

1. FOR NOTES SEE DWG RR-U-016.

40 30 20 10 0 40 80
1" = 40'-0"

APPROVED FOR RAILROAD UTILITY WORK.

RR - UTILITY REARRANGEMENT PLANS
SHEET 7 OF 12

RR-U-022
RAILROAD SHEET NO. 179 OF 394
HORIZ 1"=40'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
CONSULTANT FUNCTIONAL SUPERVISOR: PATRICK NICHOLSON
CALCULATED-DESIGNED BY: YVACHESLAV KOZITSKY
CHECKED BY: RICHARD SILOS
REVISED BY
DATE REVISED

PEN TABLE => ...\CADD\Support\pen\PlotStamp.tbl
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DATE PLOTTED => 7/17/2012
LAST REVISION 00-00-00

BORDER LAST REVISED 7/2/2010
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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1812
PROJECT NUMBER & PHASE 07000211191

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1550	1931

Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

05-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
PATRICK NICHOLSON
No. C 40993
Exp. 3-31-2013
CIVIL
STATE OF CALIFORNIA

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SCRRA
279 E. ARROW HIGHWAY
SAN DIMAS, CA 91773

AECOM
515 SOUTH FLOWER ST. 4th FLOOR
LOS ANGELES, CA 90071

MATCH LINE STA. 669+00.00 SEE DRAWING RR-U-022

MATCH LINE STA. 679+00.00 SEE DRAWING RR-U-024

SAN FERNANDO BOULEVARD
ALLEY
BUENA VISTA STREET
FREDRIC STREET
SCRRA/MTA
SB ROUTE 5
RIGHT-OF-WAY
RETAINING WALL NO. 2
RETAINING WALL 1635
2-4" DIA RGS DUCTS
SHOOFLY TRACK
1-2" ELECTRICAL CONDUIT SEE RR-E-103
RETAINING WALL NO. 3
BRIGHTON SIDING TRACK
RETAINING WALL NO. 4
VALLEY SUB MAIN TRACK
NEW 2½" AND 2" ELECTRICAL CONDUIT. SEET RR-E-121
670+00
675+00
1702
1695
REGISTERED ELECTRICAL ENGINEER
BENJAMIN A. MISCHKO
E 8130
9-30-2012
ELECTRICAL

NOTES:

1. FOR NOTES SEE DWG RR-U-016.

40 30 20 10 0 40 80
1" = 40'-0"

RR-U-023
RAILROAD SHEET NO.
180 OF 394

RR – UTILITY REARRANGEMENT PLANS
SHEET 8 OF 12

HORIZ 1"=40'

APPROVED FOR RAILROAD UTILITY WORK.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
CONSULTANT FUNCTIONAL SUPERVISOR
PATRICK NICHOLSON
CALCULATED-DESIGNED BY
CHECKED BY
YVACHESLAV KOZITSKY
RICHARD SILOS
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 7/17/2012
TIME PLOTTED => 6:00:34 PM
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PEN TABLE => ...\CADD\Support\pen\PlotStamp.tbl

BORDER LAST REVISED 7/2/2010
USERNAME => grandova
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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1812
PROJECT NUMBER & PHASE 07000211191

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1551	1931

Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

PATRICK NICHOLSON No. C 40993 Exp. 3-31-2013 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

05-21-12
PLANS APPROVAL DATE

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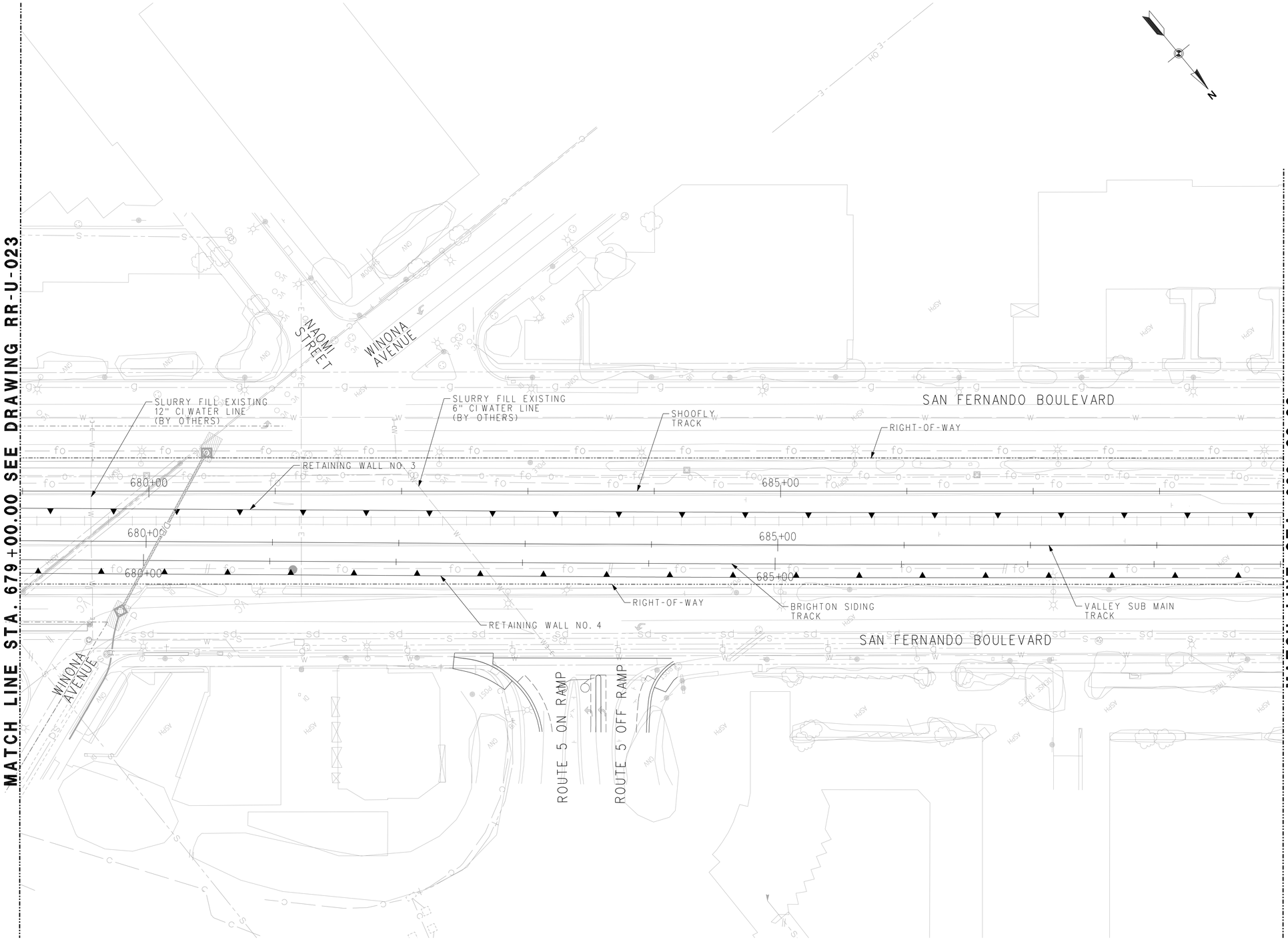
SCRRA
279 E. ARROW HIGHWAY
SAN DIMAS, CA 91773

AECOM
515 SOUTH FLOWER ST. 4th FLOOR
LOS ANGELES, CA 90071

MATCH LINE STA. 679+00.00 SEE DRAWING RR-U-023

MATCH LINE STA. 689+00.00 SEE DRAWING RR-U-025



NOTES:

1. FOR NOTES SEE DWG RR-U-016.

40 30 20 10 0 40 80
1" = 40'-0"

APPROVED FOR RAILROAD UTILITY WORK.

RR – UTILITY REARRANGEMENT PLANS
SHEET 9 OF 12

RR-U-024
RAILROAD SHEET NO. 181 OF 394
HORIZ 1"=40'

STATE OF CALIFORNIA – DEPARTMENT OF TRANSPORTATION | CONSULTANT FUNCTIONAL SUPERVISOR: PATRICK NICHOLSON | CALCULATED-DESIGNED BY | CHECKED BY | YVACHESLAV KOZITSKY | RICHARD SILOS | REVISED BY | DATE REVISED | DESIGN

LAST REVISION 00-00-00 | DATE PLOTTED => 7/17/2012 | TIME PLOTTED => 6:00:37 PM | PLOT DRIVER => ...\Plotdrv\SCRRA_pdfBW.plt | PEN TABLE => ...\CADD\Support\pen\PlotStamp.tbl

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1552	1931

Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

PATRICK NICHOLSON No. C 40993 Exp. 3-31-2013 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

05-21-12
PLANS APPROVAL DATE

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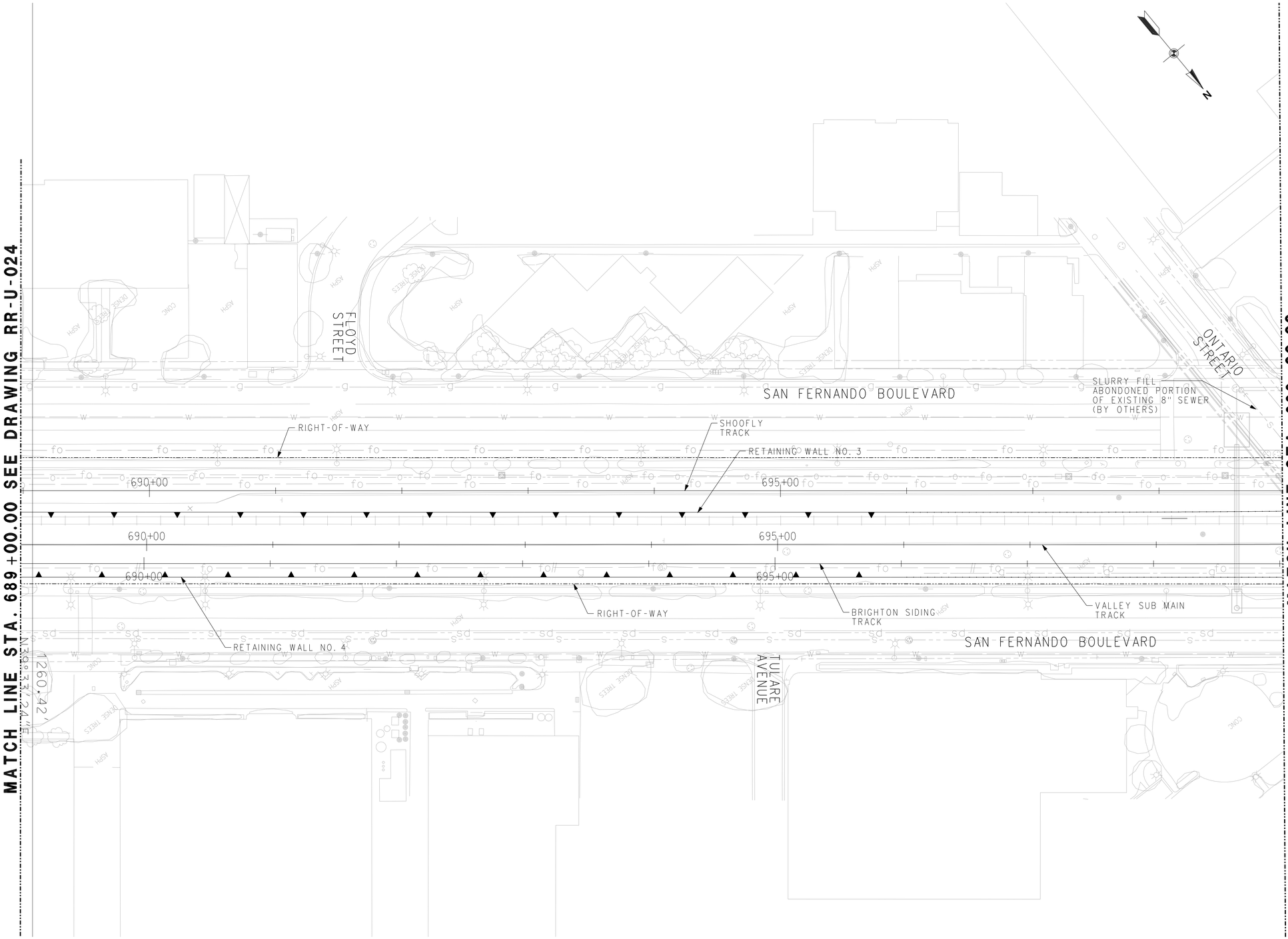
SCRRA
279 E. ARROW HIGHWAY
SAN DIMAS, CA 91773

AECOM
515 SOUTH FLOWER ST. 4th FLOOR
LOS ANGELES, CA 90071

MATCH LINE STA. 689+00.00 SEE DRAWING RR-U-024

MATCH LINE STA. 699+00.00 SEE DRAWING RR-U-026



NOTES:

1. FOR NOTES SEE DWG RR-U-016.

40 30 20 10 0 40 80
1" = 40'-0"

RR-U-025

RAILROAD SHEET NO. 182 OF 394

HORIZ 1"=40'

RR – UTILITY REARRANGEMENT PLANS
SHEET 10 OF 12

APPROVED FOR RAILROAD UTILITY WORK.

STATE OF CALIFORNIA – DEPARTMENT OF TRANSPORTATION
Caltrans®
DESIGN
CONSULTANT FUNCTIONAL SUPERVISOR PATRICK NICHOLSON
CALCULATED–DESIGNED BY RICHARD SILOS
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1553	1931

Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

05-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
PATRICK NICHOLSON
No. C 40993
Exp. 3-31-2013
CIVIL
STATE OF CALIFORNIA

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AECOM
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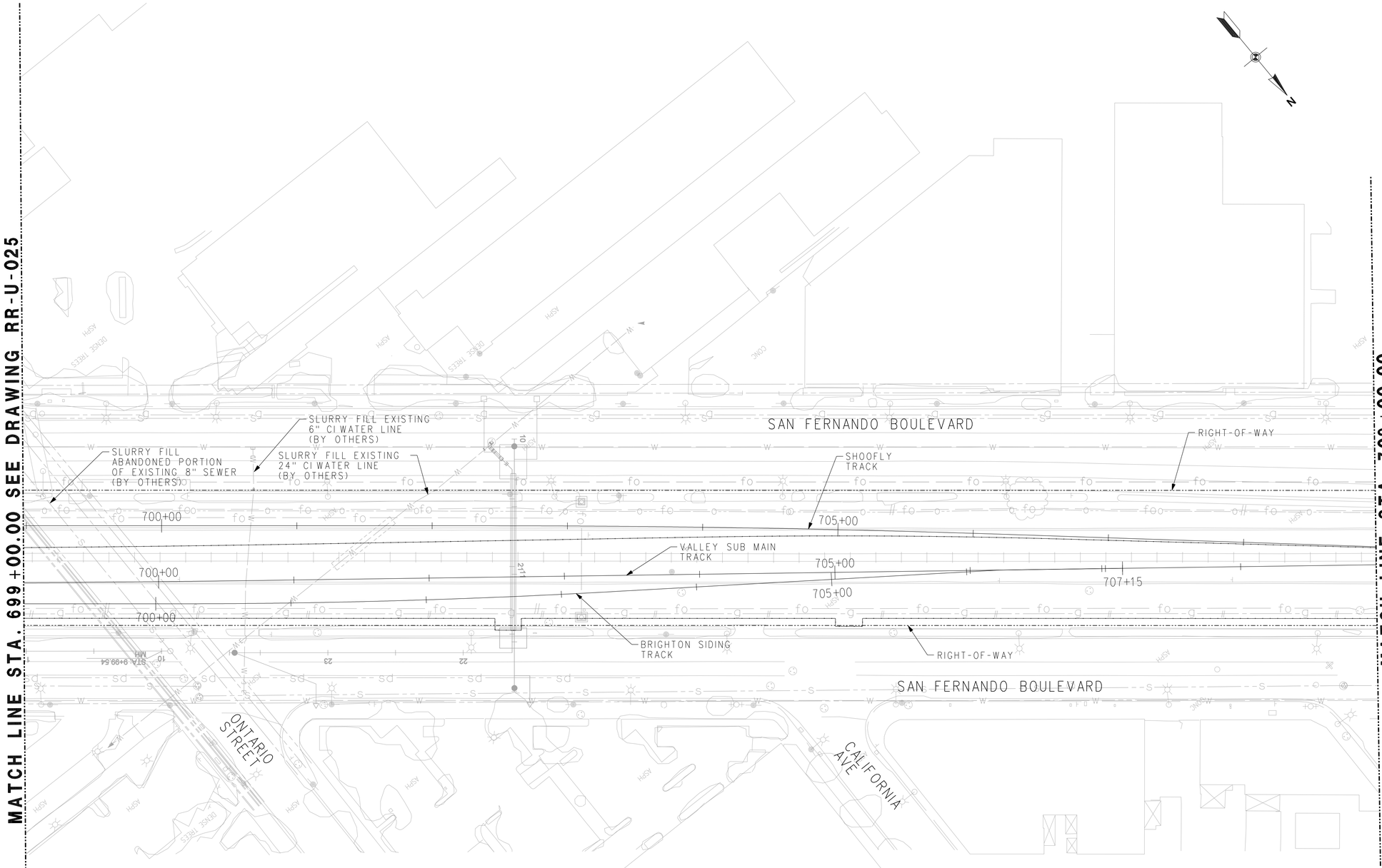
LOS ANGELES, CA 90071

MATCH LINE STA. 699+00.00 SEE DRAWING RR-U-025

MATCH LINE STA. 709+00.00 SEE DRAWING RR-U-027



NOTES:

1. FOR NOTES SEE DWG RR-U-016.

40 30 20 10 0 40 80
1" = 40'-0"

RR-U-026

RAILROAD SHEET NO. 1830F 394

HORIZ 1"=40'

RR – UTILITY REARRANGEMENT PLANS
SHEET 11 OF 12

APPROVED FOR RAILROAD UTILITY WORK.

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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1812
PROJECT NUMBER & PHASE 07000211191

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1554	1931

Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

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PLANS APPROVAL DATE

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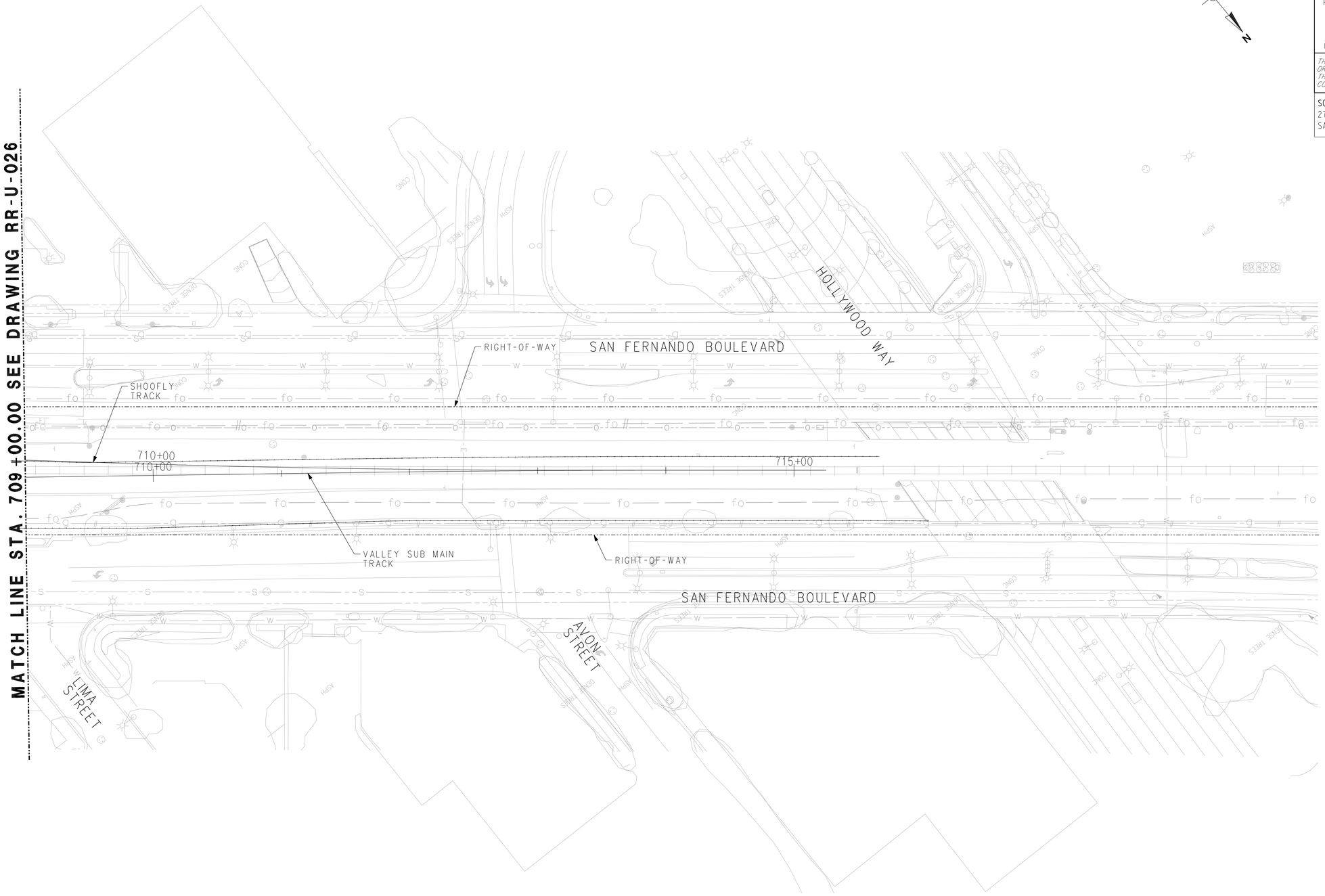
MATCH LINE STA. 709+00.00 SEE DRAWING RR-U-026



NOTES:

1. FOR NOTES SEE DWG RR-U-016.

40 30 20 10 0 40 80
1" = 40'-0"

APPROVED FOR RAILROAD UTILITY WORK.

RR - UTILITY REARRANGEMENT PLANS
SHEET 12 OF 12

RR-U-027
RAILROAD SHEET NO.
184 OF 394

HORIZ 1"=40'

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UNIT 1812
PROJECT NUMBER & PHASE 07000211191

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1555	1931

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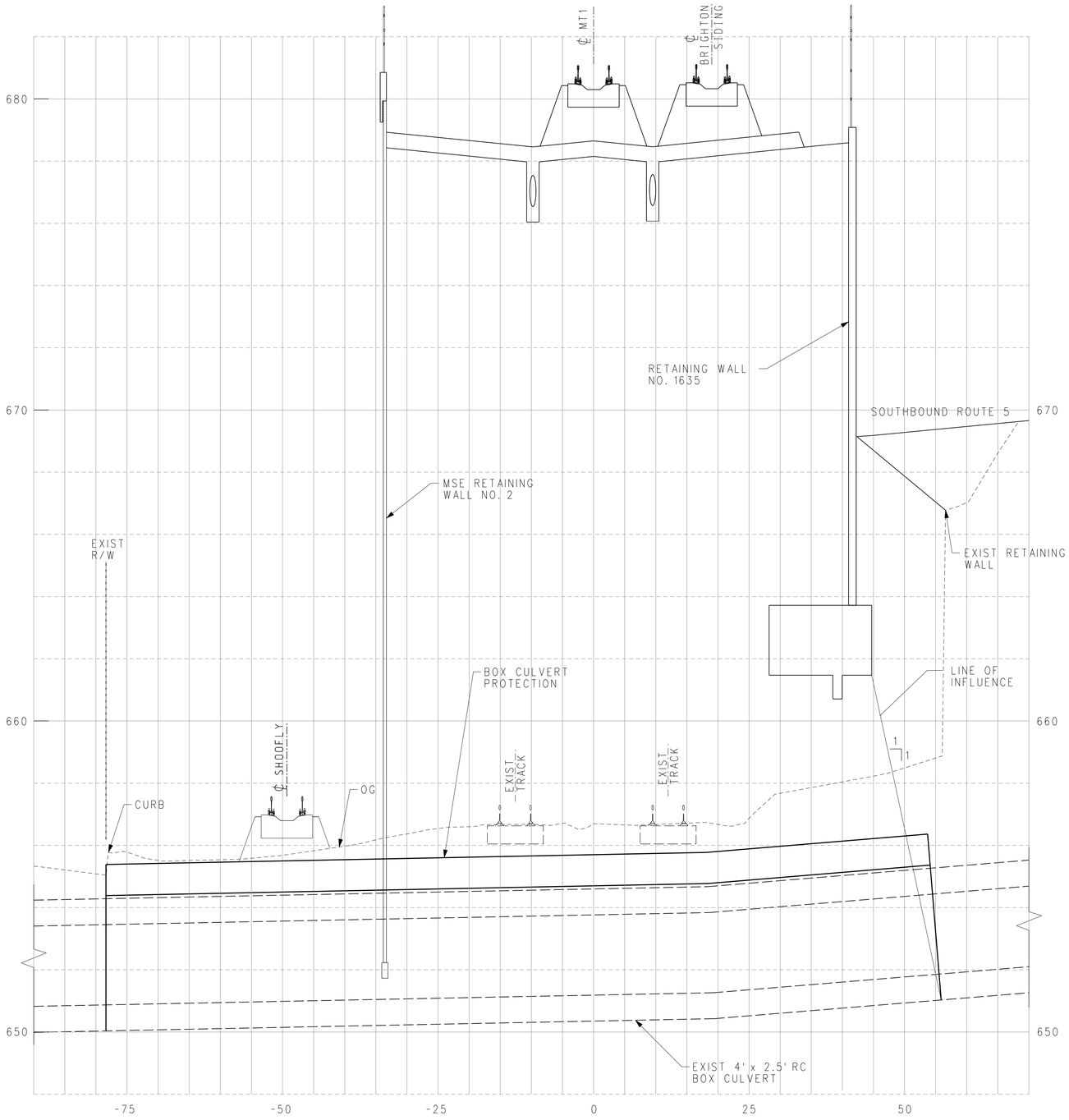
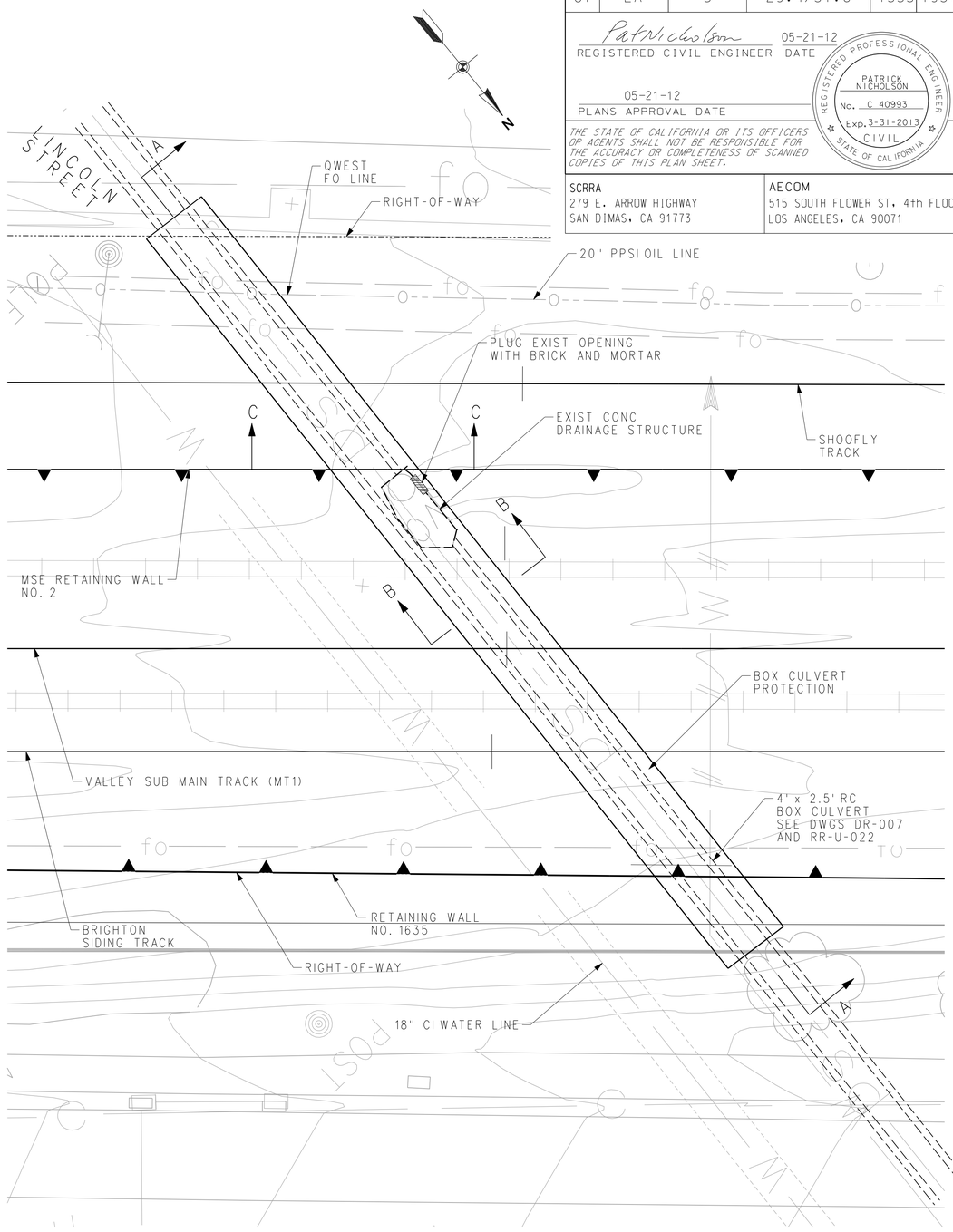


SECTION A-A



NOTE:

1. FOR SECTIONS B-B AND C-C SEE DWG RR-U-029

PLAN

RR - STORM DRAIN PROTECTION
SHEET 1 OF 2

RR-U-028
RAILROAD SHEET NO. 185 OF 394
HORIZ 1"=10'
VERT 1"=2'

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UNIT 1812
PROJECT NUMBER & PHASE 07000211191

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1556	1931

Pat Nicholson 05-21-12
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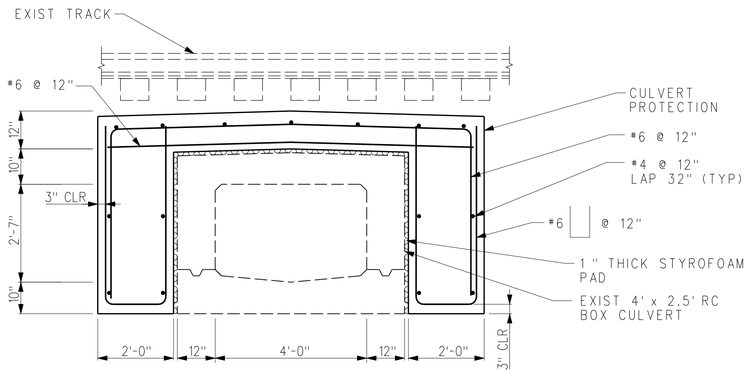
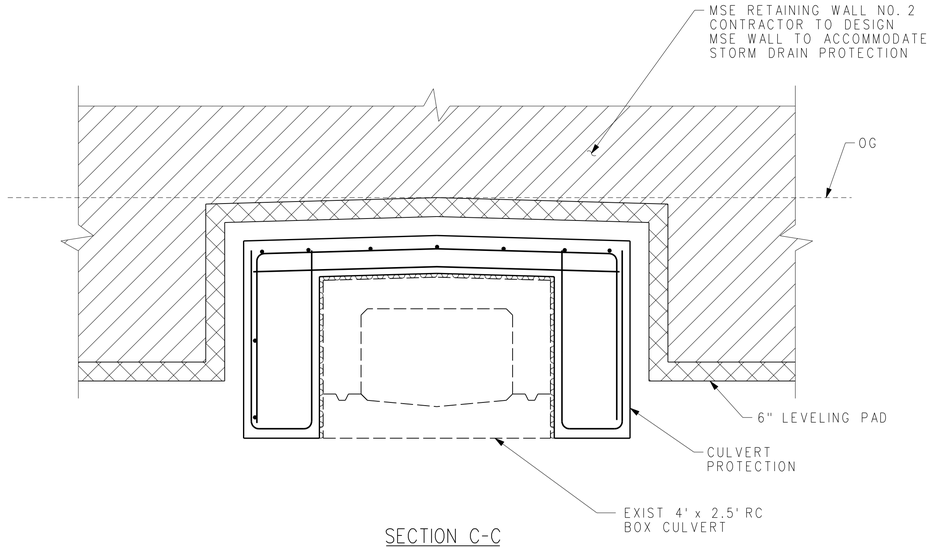


SECTION B-B



SECTION C-C

NOTE:

1. FOR BOX CULVERT PLAN SEE DWG RR-U-028

APPROVED FOR RAILROAD UTILITY WORK.

RR-U-029

RR - STORM DRAIN PROTECTION
SHEET 2 OF 2

RAILROAD SHEET NO.
186 OF 394

NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1812
PROJECT NUMBER & PHASE 07000211191

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1557	1931

Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

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PLANS APPROVAL DATE

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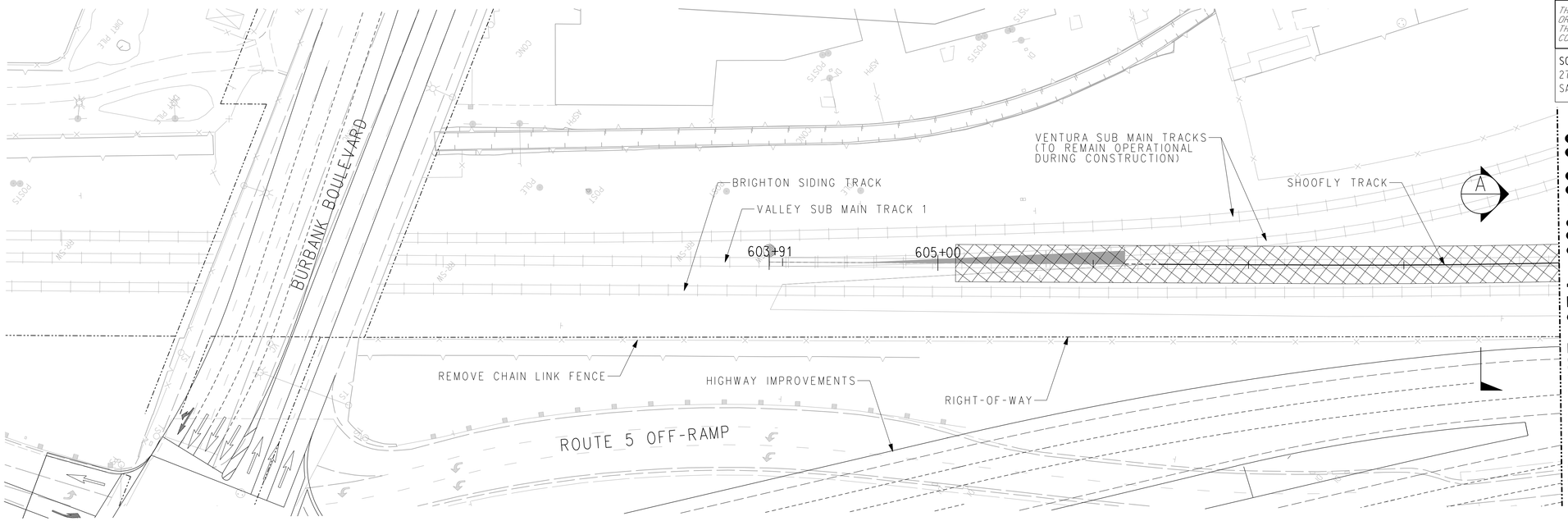
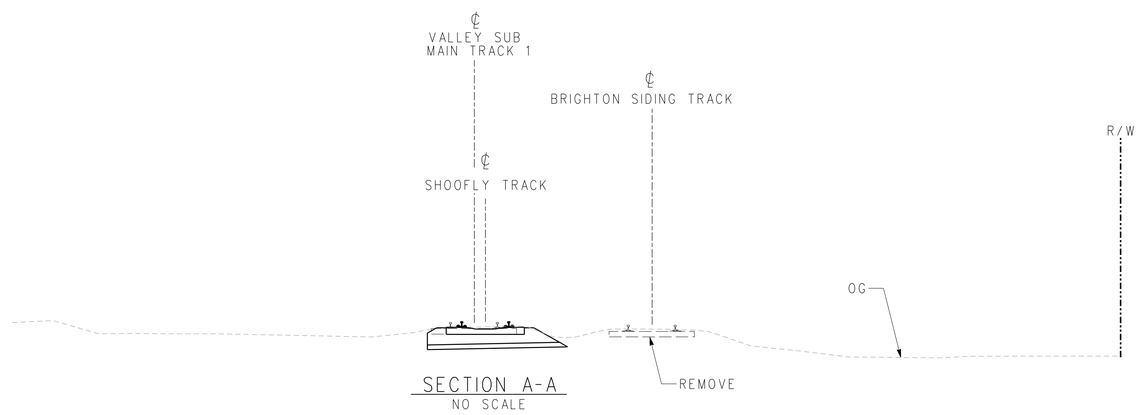


MATCH LINE STA. 609+00.00
SEE DWG RR-W-002

40 30 20 10 0 40 80
1" = 40'-0"

LEGEND:

CONSTRUCT SHOOFLY TRACK



SECTION A-A
NO SCALE

NOTES:

1. REFER TO DRAWINGS RR-TS-001 AND RR-TS-002 FOR THE SCHEMATIC PLANS TO CONSTRUCT THE SHOOFLY TRACK
2. FOR SHOOFLY TRACK PLAN AND PROFILE SEE DRAWINGS RR-CT-001 TO RR-CT-012.
3. FOR DETAILED CROSS SECTIONS SEE DRAWINGS RR-SC-001 TO RR-SC-027
4. FOR SHOOFLY GRADING SEE DRAWINGS RR-GP-001 TO RR-GP-012
5. CONSTRUCT DRAINAGE LATERALS AND ELECTRICAL CONDUIT PRIOR TO TRACK CONSTRUCTION
6. CONTRACTOR TO DESIGN THE GEOTEXTILE REINFORCED BALLAST EMBANKMENT AS INDICATED AND SUBMIT DRAWINGS AND A WORK PLAN TO THE ENGINEER (FOR REVIEW AND APPROVAL) PRIOR TO STARTING THIS WORK

RR-W-001

RAILROAD SHEET NO.
187 OF 394

HORIZ 1"=40'

RR - CONSTRUCTION STAGE 1
SHEET 1 OF 12

APPROVED FOR RAILROAD WORK.

REVISED BY | DATE REVISED
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CALCULATED-DESIGNED BY | CHECKED BY
CONSULTANT FUNCTIONAL SUPERVISOR: PATRICK NICHOLSON
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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1812
PROJECT NUMBER & PHASE 07000211191

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1558	1931

Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

05-21-12
PLANS APPROVAL DATE

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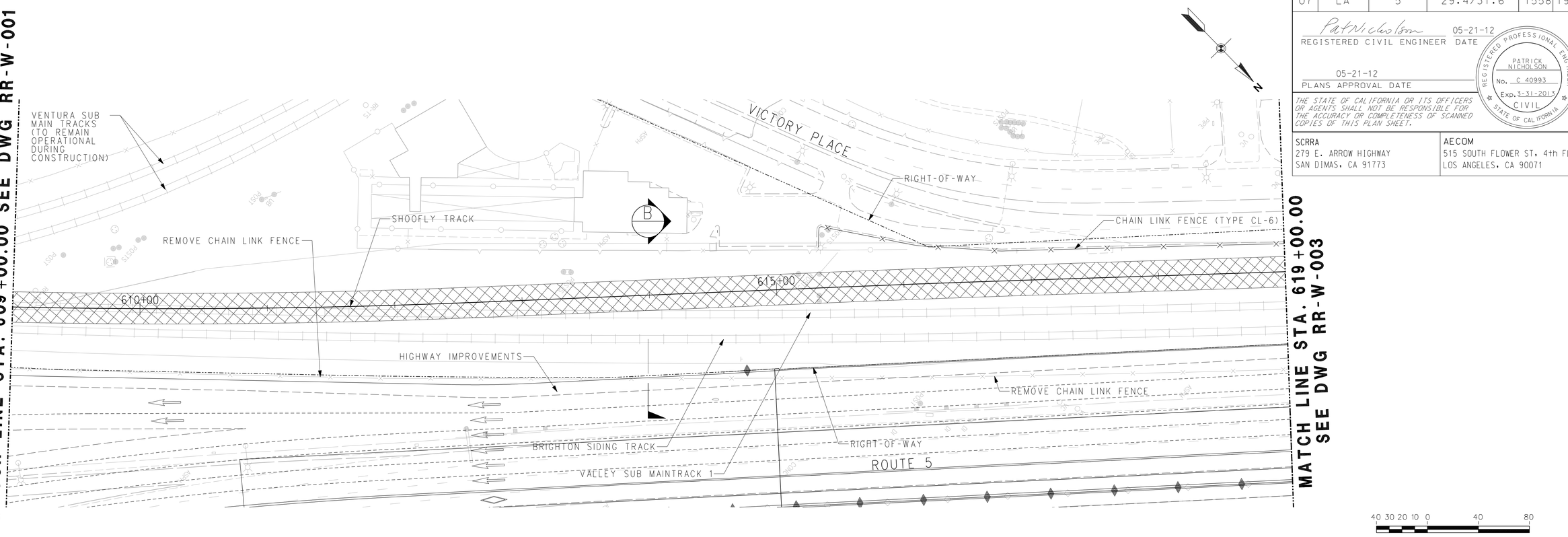


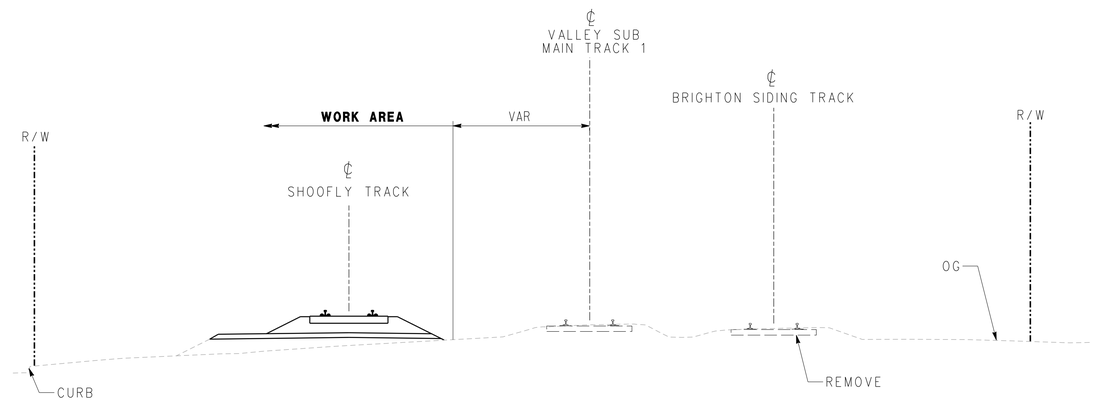
40 30 20 10 0 40 80
1" = 40'-0"

LEGEND:

CONSTRUCT SHOOFLY TRACK

NOTE:

1. FOR NOTES SEE RR-W-001



SECTION B-B
NO SCALE

APPROVED FOR RAILROAD WORK.

RR-W-002

RAILROAD SHEET NO. 188 OF 394

HORIZ 1"=40'

RR - CONSTRUCTION STAGE 1
SHEET 2 OF 12

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CONSULTANT FUNCTIONAL SUPERVISOR: PATRICK NICHOLSON

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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1812
PROJECT NUMBER & PHASE 07000211191

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1559	1931

Patrick Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER
PATRICK NICHOLSON
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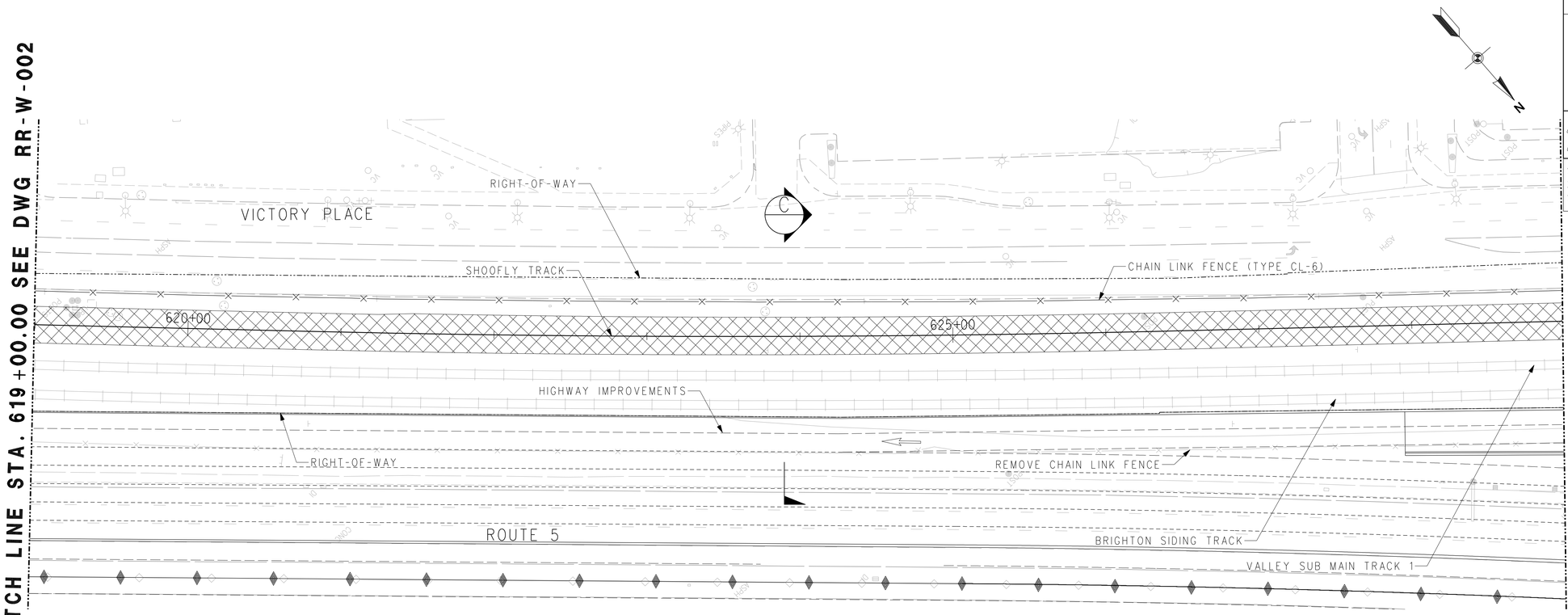
LOS ANGELES, CA 90071

MATCH LINE STA. 619+00.00 SEE DWG RR-W-002



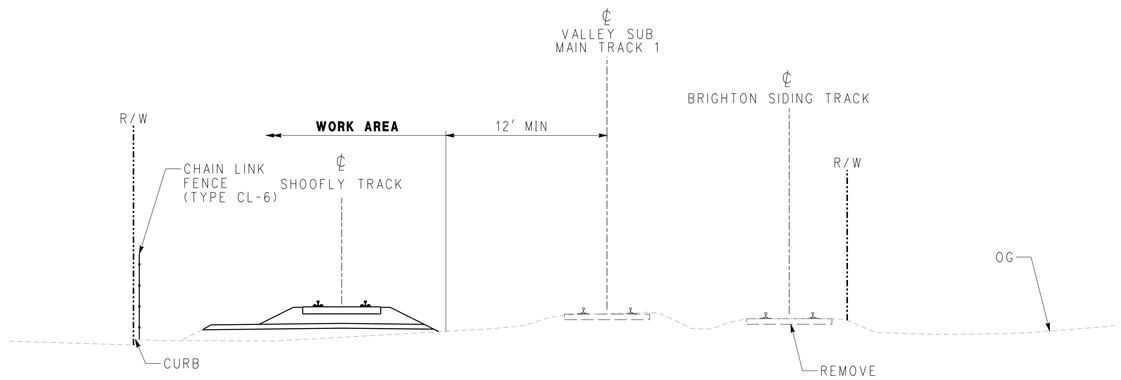
MATCH LINE STA. 629+00.00 SEE DWG RR-W-004

1" = 40'-0"

LEGEND:

CONSTRUCT SHOOFLY TRACK

NOTE:
1. FOR NOTES SEE RR-W-001



SECTION C-C
NO SCALE

APPROVED FOR RAILROAD WORK.

RR-W-003

RAILROAD SHEET NO. 189 OF 394

HORIZ 1"=40'

RR - CONSTRUCTION STAGE 1
SHEET 3 OF 12

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UNIT 1812
PROJECT NUMBER & PHASE 07000211191

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1560	1931

Patrick Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

05-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — PATRICK NICHOLSON — No. C 40993 — Exp. 3-31-2013 — CIVIL — STATE OF CALIFORNIA

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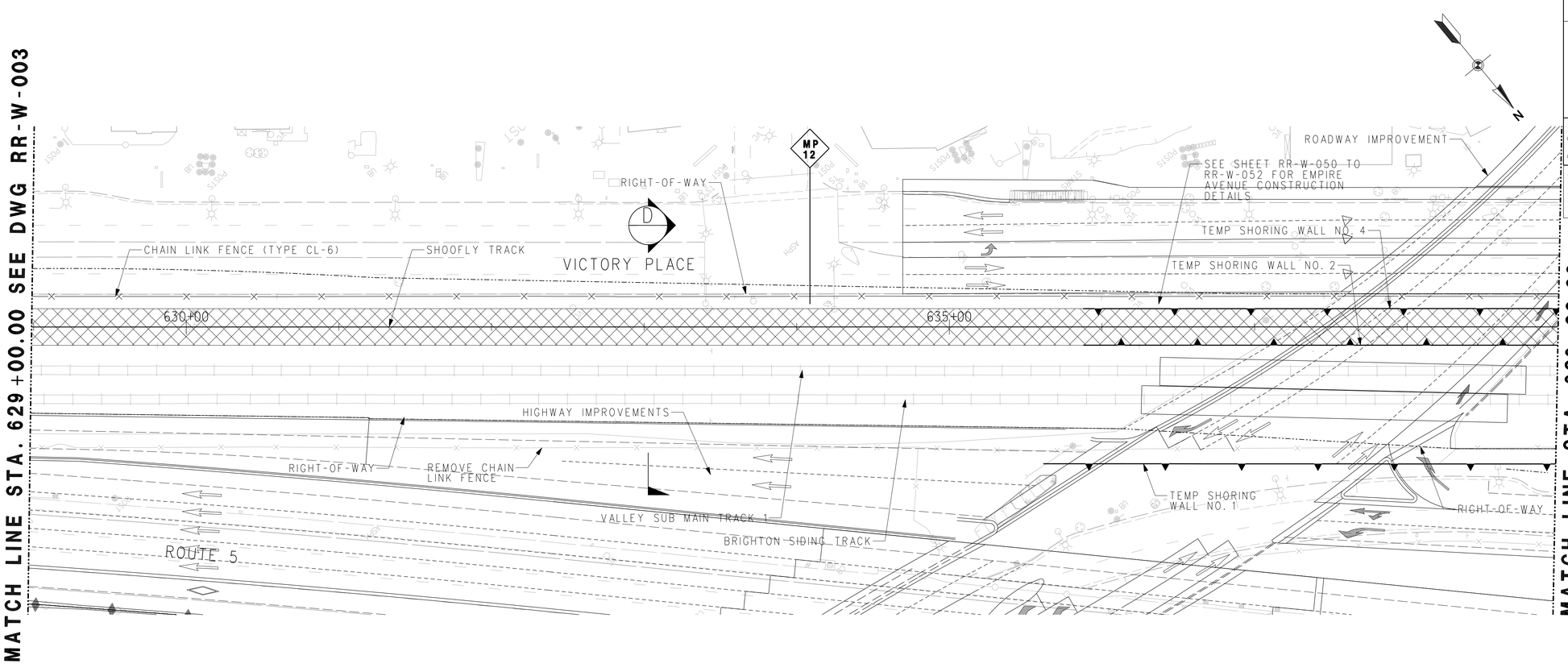

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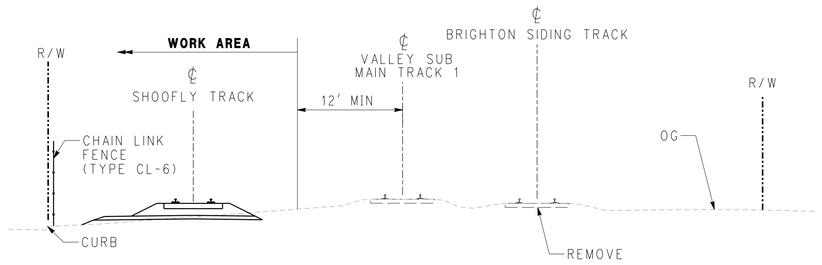
CONSTRUCT SHOOFLY TRACK

NOTE:

1. FOR NOTES SEE RR-W-001



SECTION D-D
NO SCALE

APPROVED FOR RAILROAD WORK.

RR-W-004

RAILROAD SHEET NO. 190OF 394

HORIZ 1"=40'

RR - CONSTRUCTION STAGE 1
SHEET 4 OF 12

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UNIT 1812
PROJECT NUMBER & PHASE 07000211191

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1561	1931

Patrick Nicholson 05-21-12
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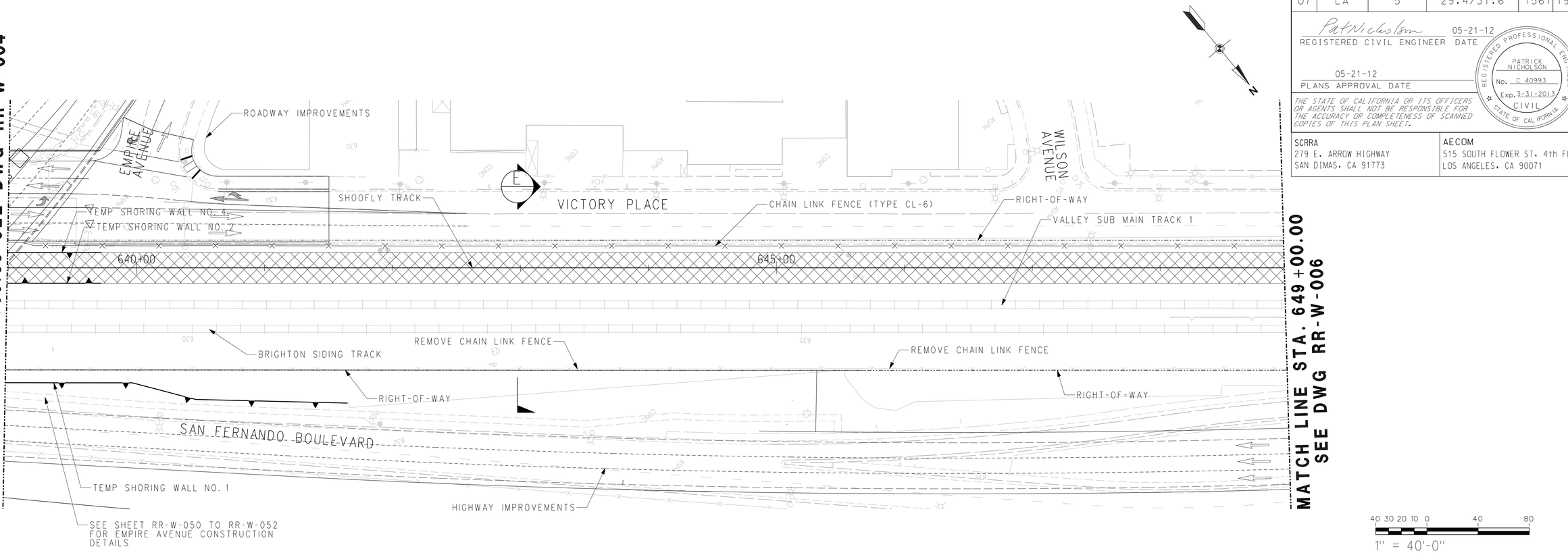

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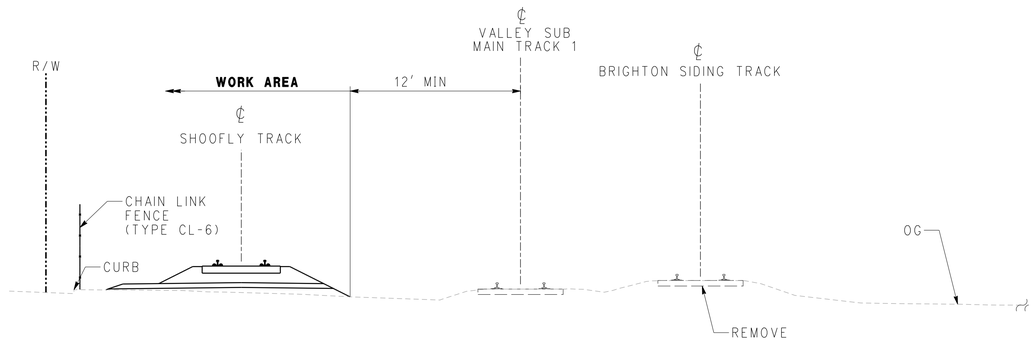
NOTE:

1. FOR NOTES SEE RR-W-001



SECTION E-E
NO SCALE

APPROVED FOR RAILROAD WORK.

RR-W-005

RAILROAD SHEET NO. 191 OF 394

HORIZ 1"=40'

RR - CONSTRUCTION STAGE 1
SHEET 5 OF 12

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RICHARD SILOS	

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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 1812

PROJECT NUMBER & PHASE 07000211191

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TIME PLOTTED => 6:01:46 PM
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1562	1931

Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

05-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — PATRICK NICHOLSON — No. C 40993 — Exp. 3-31-2013 — CIVIL — STATE OF CALIFORNIA

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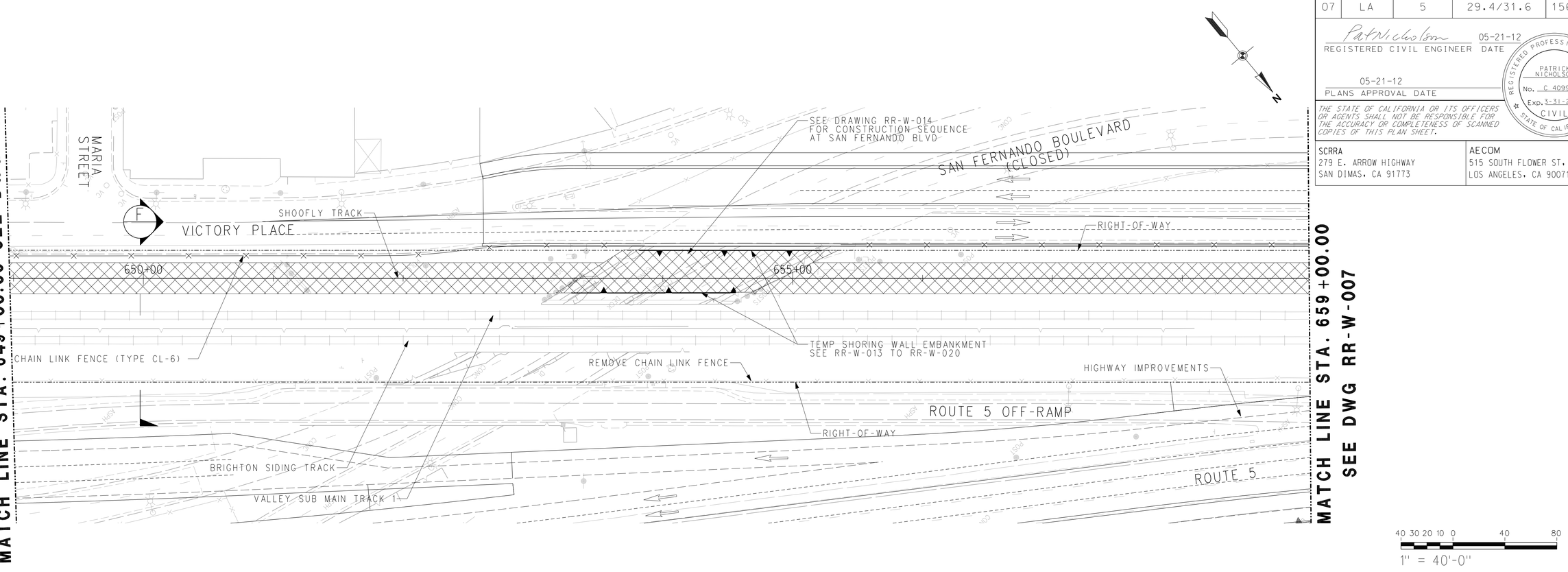
LOS ANGELES, CA 90071

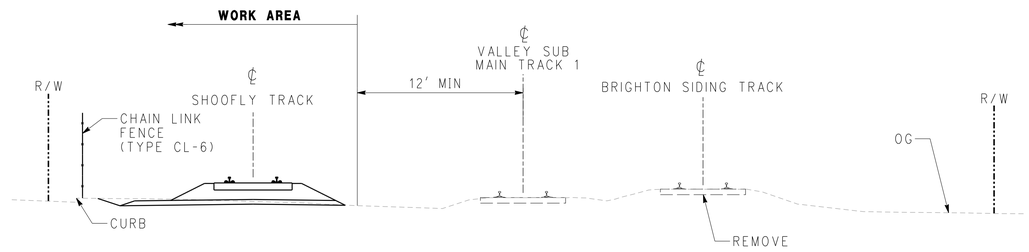


LEGEND:

CONSTRUCT SHOOFLY TRACK

NOTE:

1. FOR NOTES SEE RR-W-001



SECTION F-F
NO SCALE

RR-W-006

RAILROAD SHEET NO. 192 OF 394

HORIZ 1"=40'

RR - CONSTRUCTION STAGE 1
SHEET 6 OF 12

APPROVED FOR RAILROAD WORK.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
DESIGN

CONSULTANT FUNCTIONAL SUPERVISOR: PATRICK NICHOLSON

CALCULATED-DESIGNED BY
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ANGELKA GRANDOV	
RICHARD SILOS	

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UNIT 1812
PROJECT NUMBER & PHASE 07000211191

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1563	1931

Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

05-21-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
PATRICK NICHOLSON
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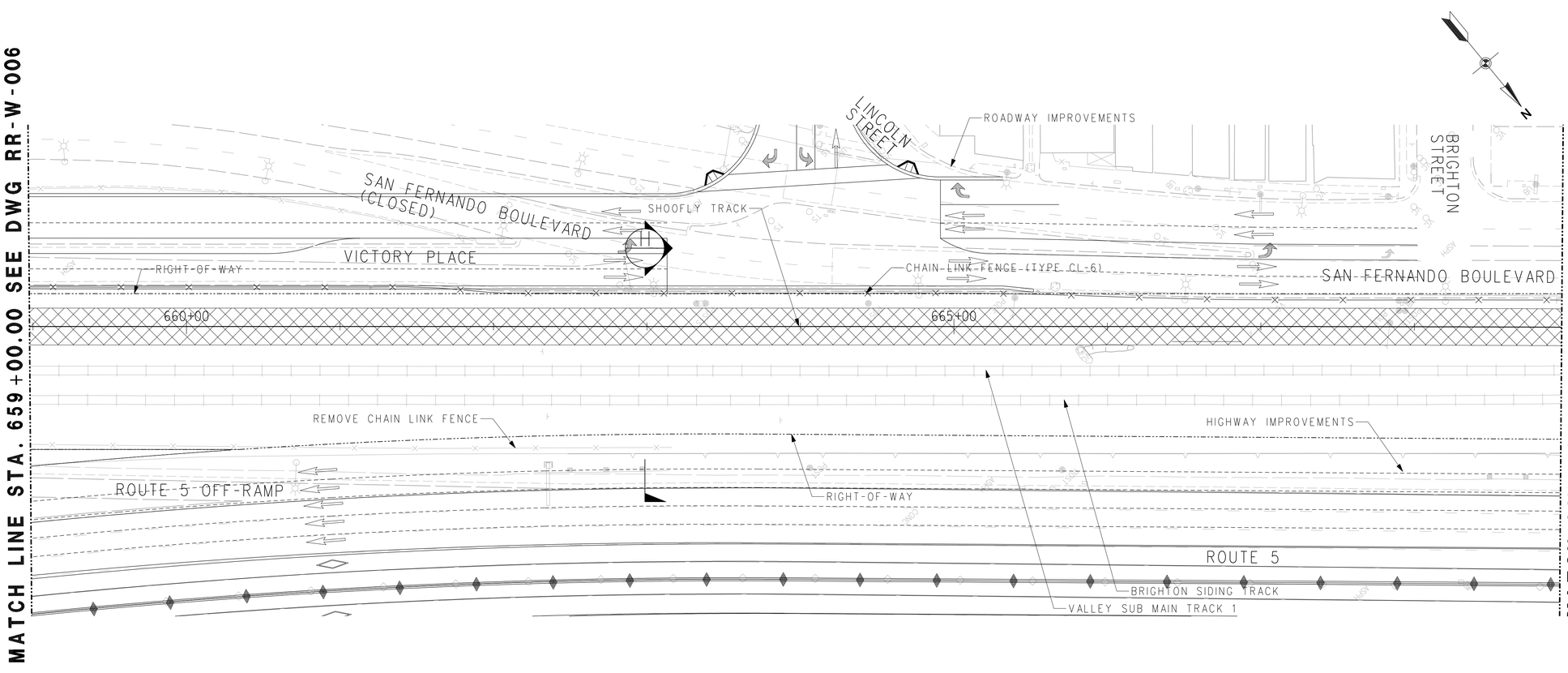
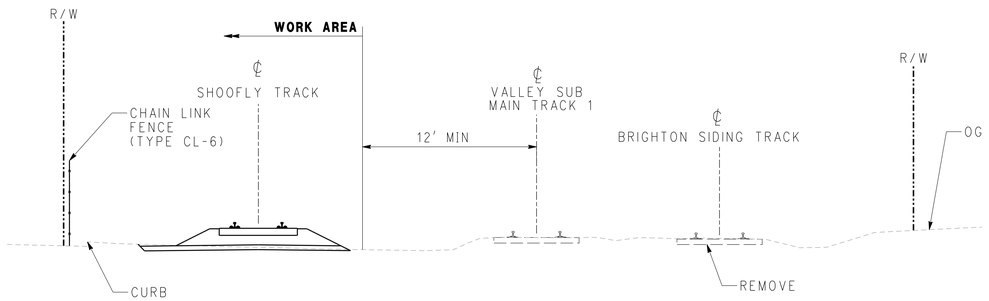


LEGEND:

CONSTRUCT SHOOFLY TRACK

NOTE:

1. FOR NOTES SEE RR-W-001



SECTION H-H
NO SCALE

APPROVED FOR RAILROAD WORK.

RR-W-007

RAILROAD SHEET NO. 193 OF 394

HORIZ 1"=40'

RR - CONSTRUCTION STAGE 1
SHEET 7 OF 12

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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1812
PROJECT NUMBER & PHASE 07000211191

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1564	1931

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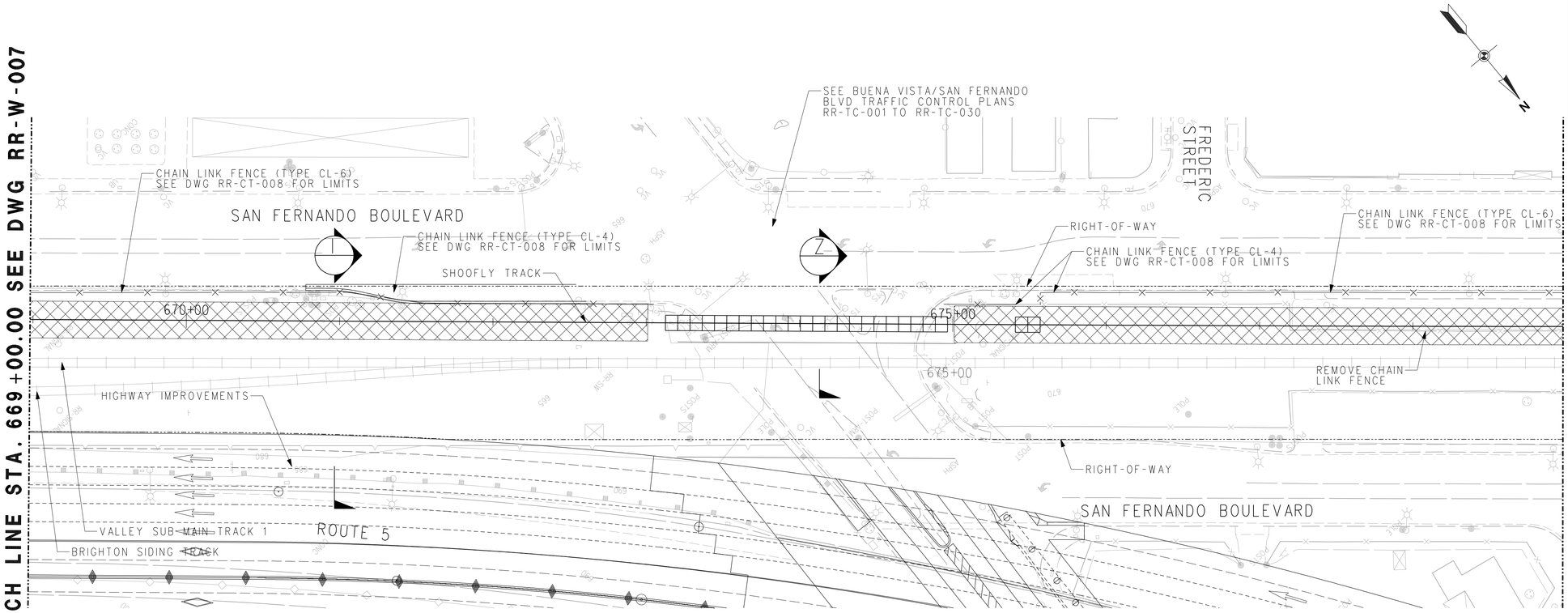
MATCH LINE STA. 669+00.00 SEE DWG RR-W-007

MATCH LINE STA. 679+00.00 SEE DWG RR-W-009

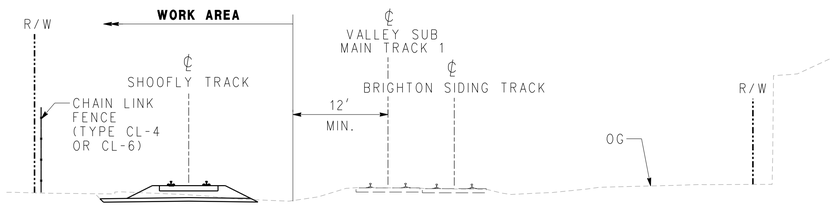


40 30 20 10 0 40 80
1" = 40'-0"

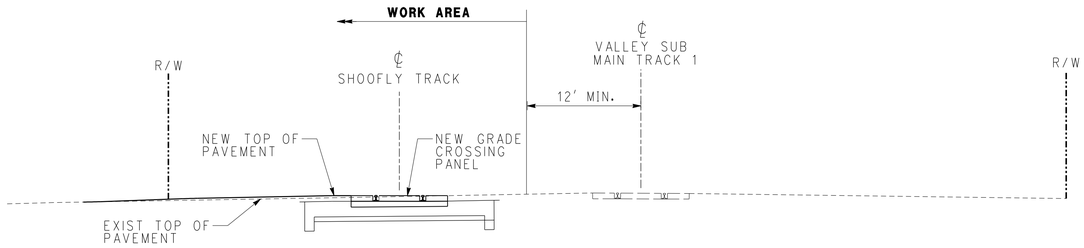
LEGEND:

CONSTRUCT SHOOFLY TRACK AND GEOTEXTILE REINFORCED BALLAST EMBANKMENT (AS INDICATED)

NOTE:
1. FOR NOTES SEE RR-W-001



SECTION I-I
NO SCALE



SECTION Z-Z
NO SCALE

APPROVED FOR RAILROAD WORK.

RR-W-008

RR - CONSTRUCTION STAGE 1
SHEET 8 OF 12

RAILROAD SHEET NO. 194OF 394

HORIZ 1"=40'

LAST REVISION 00-00-00

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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1812
PROJECT NUMBER & PHASE 07000211191

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1565	1931

Patrick Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

05-21-12
PLANS APPROVAL DATE

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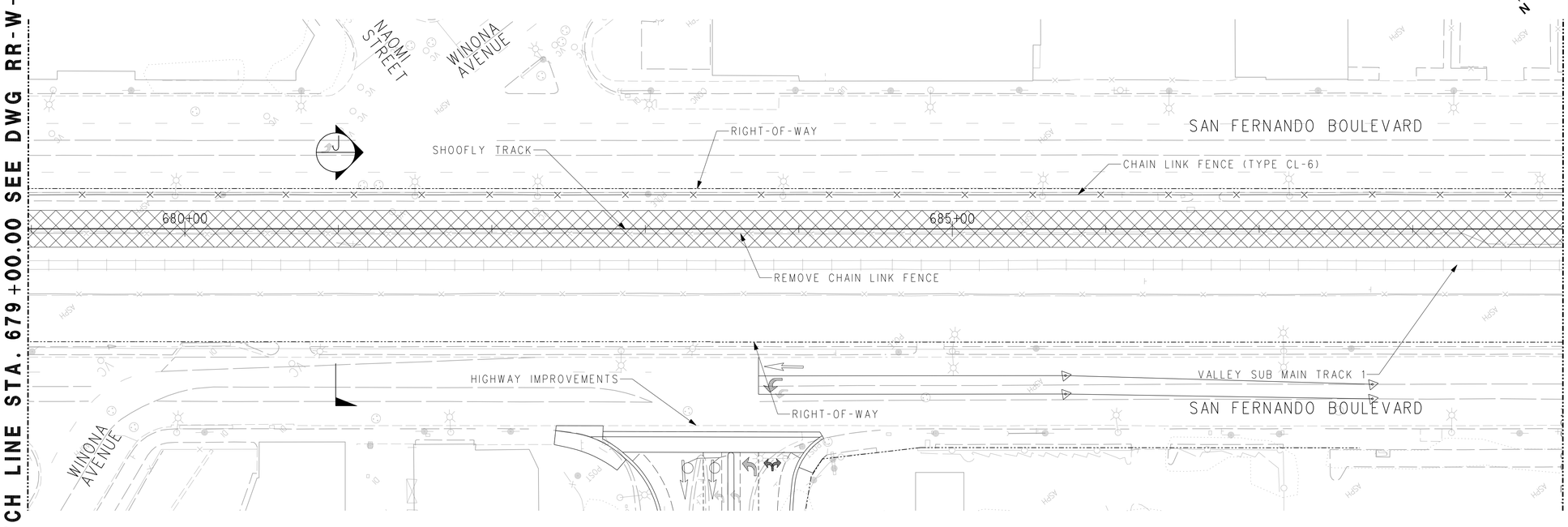
MATCH LINE STA. 679+00.00 SEE DWG RR-W-008



MATCH LINE STA. 689+00.00 SEE DWG RR-W-010

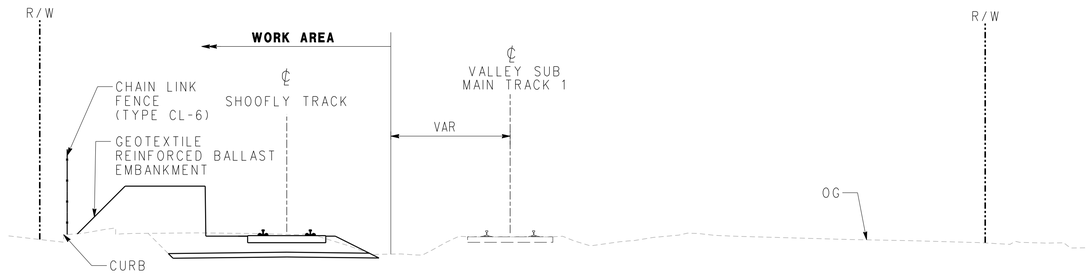
1" = 40'-0"

LEGEND:

CONSTRUCT SHOOFLY TRACK AND GEOTEXTILE REINFORCED BALLAST EMBANKMENT

NOTE:

1. FOR NOTES SEE RR-W-001



SECTION J-J
NO SCALE

RR-W-009

RAILROAD SHEET NO. 195 OF 394

HORIZ 1"=40'

RR - CONSTRUCTION STAGE 1
SHEET 9 OF 12

APPROVED FOR RAILROAD WORK.

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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1812
PROJECT NUMBER & PHASE 07000211191

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1566	1931

Pat Nicholson 05-21-12
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05-21-12
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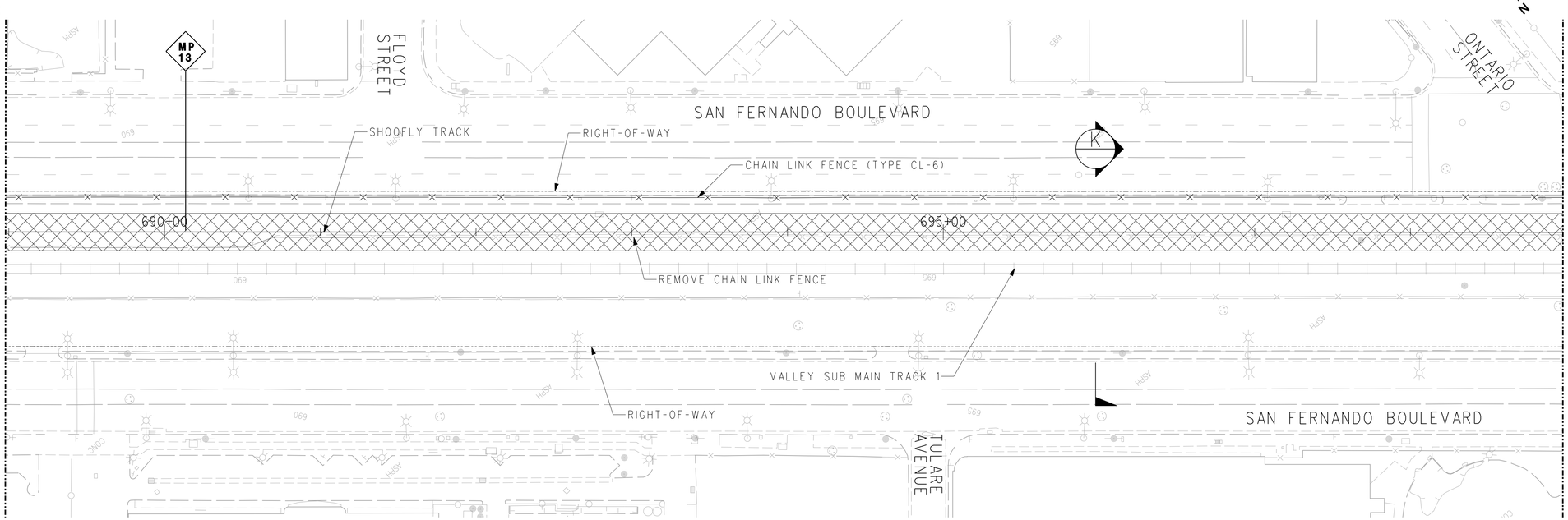
MATCH LINE STA. 689+00.00 SEE DWG RR-W-009



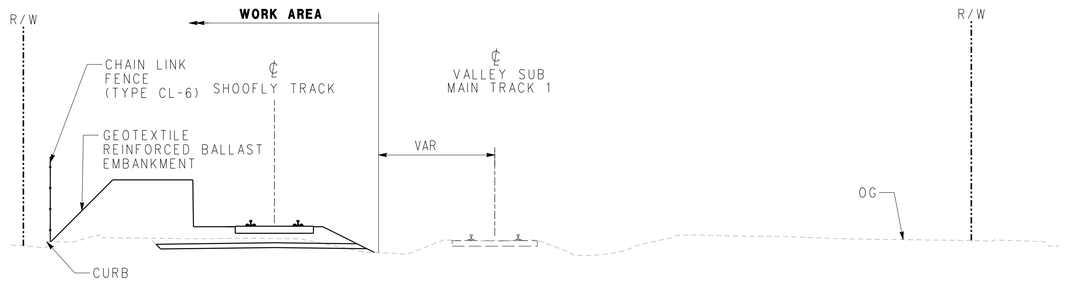
MATCH LINE STA. 699+00.00 SEE DWG RR-W-011

40 30 20 10 0 40 80
1" = 40'-0"

LEGEND:

CONSTRUCT SHOOFLY TRACK AND GEOTEXTILE REINFORCED BALLAST EMBANKMENT

NOTE:
1. FOR NOTES SEE RR-W-001



SECTION K-K
NO SCALE

APPROVED FOR RAILROAD WORK.

RR-W-010

RR - CONSTRUCTION STAGE 1
SHEET 10 OF 12

RAILROAD SHEET NO. 196OF 394

HORIZ 1"=40'

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1567	1931

Patrick Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

05-21-12
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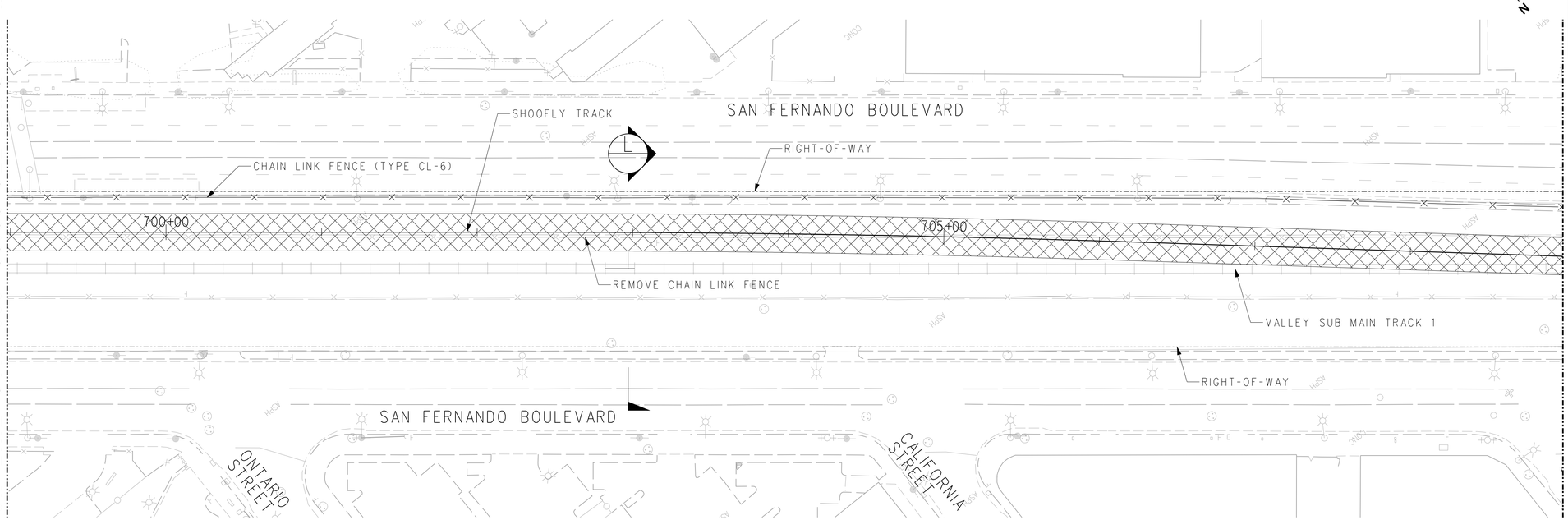
MATCH LINE STA. 699+00.00 SEE DWG RR-W-010



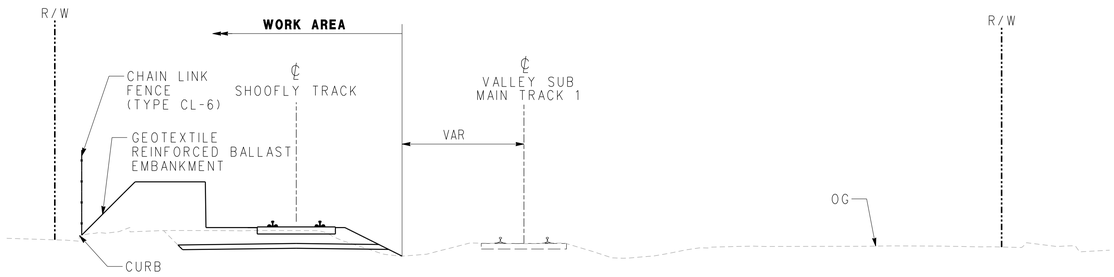
MATCH LINE STA. 709+00.00 SEE DWG RR-W-012

40 30 20 10 0 40 80
1" = 40'-0"

LEGEND:

CONSTRUCT SHOOFLY TRACK AND GEOTEXTILE REINFORCED BALLAST EMBANKMENT

NOTE:
1. FOR NOTES SEE RR-W-001



SECTION L-L
NO SCALE

RR-W-011

RAILROAD SHEET NO. 197 OF 394

RR - CONSTRUCTION STAGE 1
SHEET 11 OF 12

HORIZ 1"=40'

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CALCULATED-DESIGNED BY: ANGELKA GRANDOV
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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1812
PROJECT NUMBER & PHASE 07000211191

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1568	1931

Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

05-21-12
PLANS APPROVAL DATE

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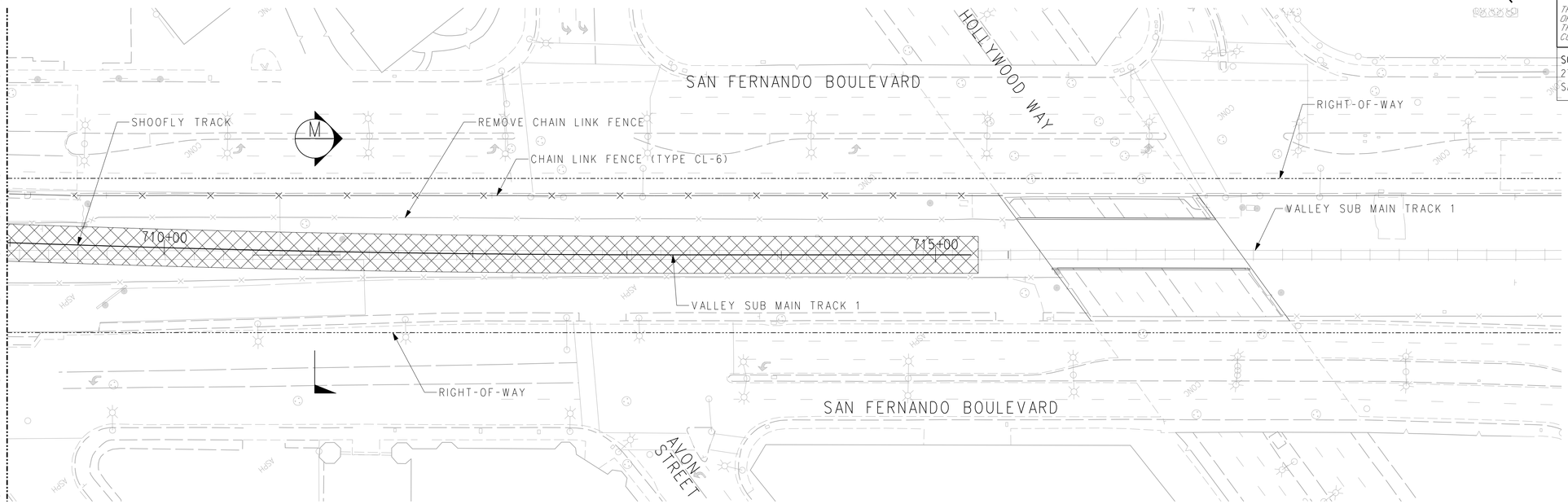
MATCH LINE STA. 709+00.00 SEE DWG RR-W-011

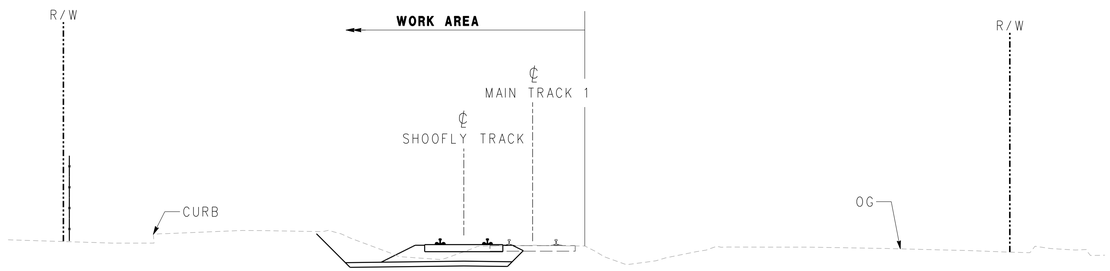


40 30 20 10 0 40 80
1" = 40'-0"

LEGEND:

CONSTRUCT SHOOFLY TRACK AND GEOTEXTILE REINFORCED BALLAST EMBANKMENT

NOTE:
1. FOR NOTES SEE RR-W-001



SECTION M-M
NO SCALE

RR-W-012

RAILROAD SHEET NO. 198 OF 394

HORIZ 1"=40'

RR - CONSTRUCTION STAGE 1
SHEET 12 OF 12

APPROVED FOR RAILROAD WORK.

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DGN FILE => ...\Civil\Sheet\E737B-W-012.sht
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1812
PROJECT NUMBER & PHASE 07000211191

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1569	1931

Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

05-21-12
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PATRICK NICHOLSON
No. C 40993
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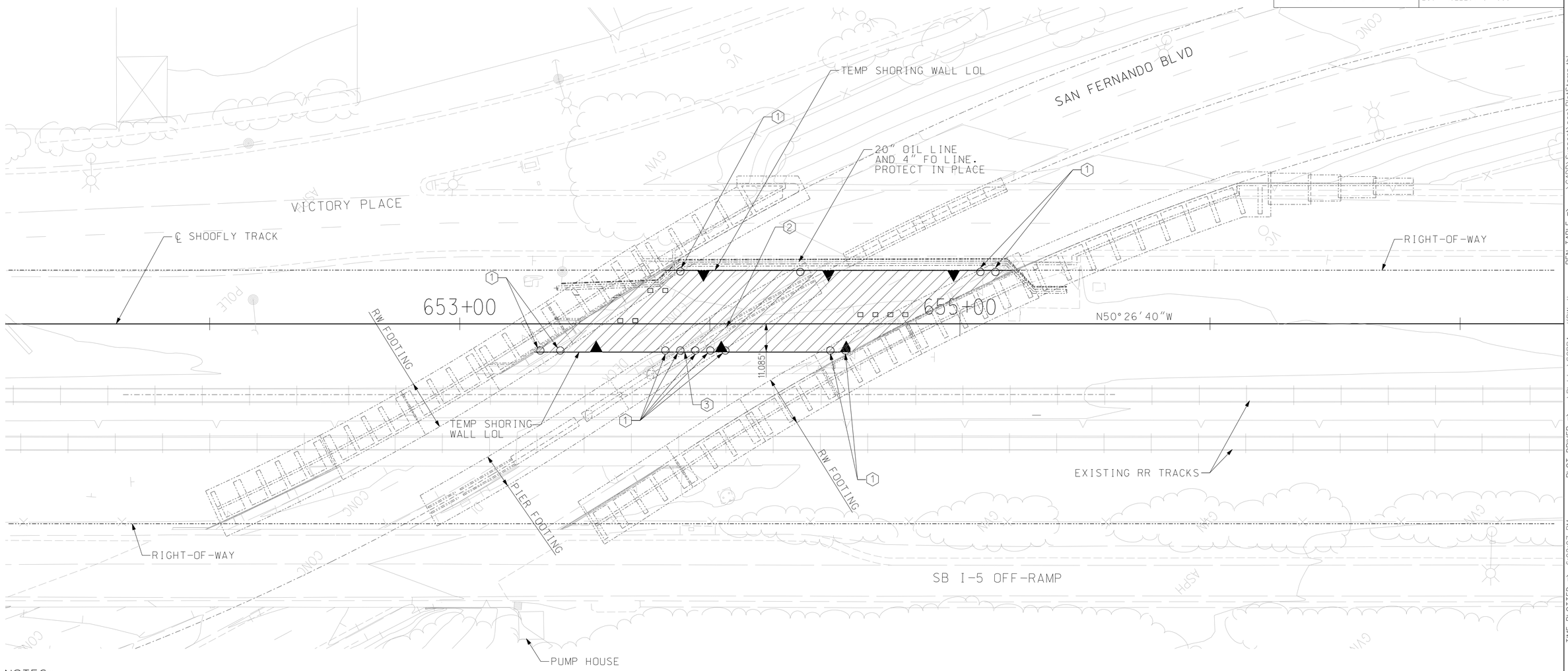

NOTES:

1. DISCONNECT POWER TO THE UNDERPASS LIGHTS EMBEDDED IN THE PIER AND RETAINING WALLS REMOVE GLASS AND LAMP PRIOR TO BACKFILLING. COORDINATE WITH BURBANK WATER AND POWER (BWP).

No.	REMOVAL ITEMS
1	Core holes in footing for soldier and deadman piles.
2	Remove interfering portions of central bridge pier and footing.
3	Saw cut joint in pier wall prior to removal.

40 30 20 10 0 40 80
1" = 40'-0"

LEGEND:

BREAK PAVEMENT AND CURB AND GUTTER AND REMOVE. THEN, COMPACT SUBGRADE TO 90% RELATIVE COMPACTION.

APPROVED FOR RAILROAD WORK.

RR-W-013

RAILROAD SHEET NO. 199 OF 394

HORIZ 1"=20'

RR - SAN FERNANDO SHORING WALLS
CIVIL LAYOUT - SHEET 1 OF 2

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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1812
PROJECT NUMBER & PHASE 07000211191

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	29.4/31.6	1570	1931

Pat Nicholson 05-21-12
REGISTERED CIVIL ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER
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No. C 40993
Exp. 3-31-2013
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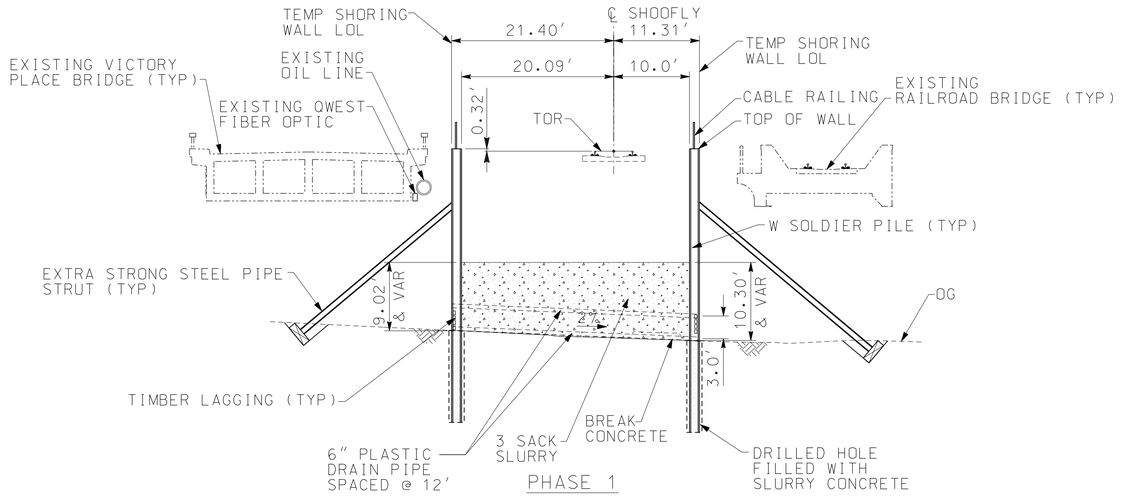
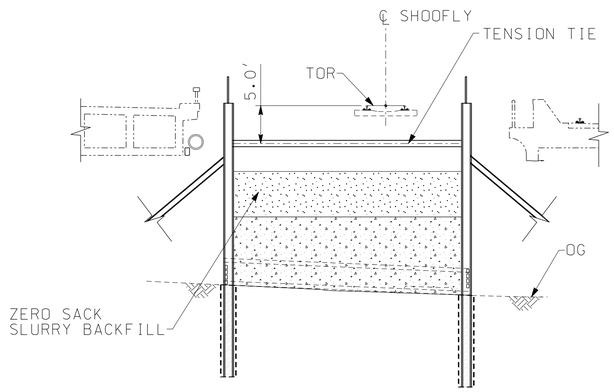
515 SOUTH FLOWER ST. 4th FLOOR
LOS ANGELES, CA 90071

NOTES FOR PRE-PHASE 1 ACTIVITIES

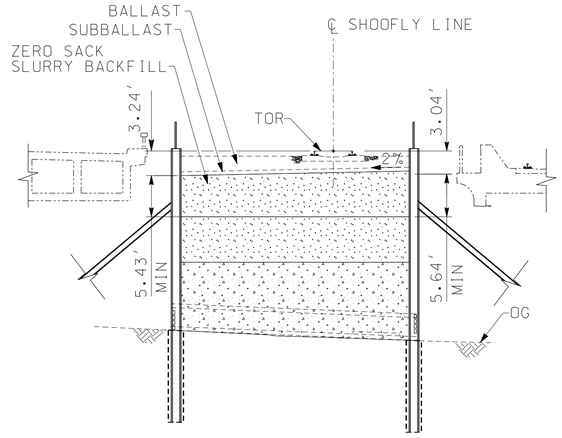
1. BREAK PAVEMENT AND CURB AND REMOVE. COMPACT SUBGRADE TO 90% RELATIVE COMPACTION.
2. CORE HOLES IN EXISTING RETAINING WALL FOOTINGS.
3. DISCONNECT POWER TO UNDERPASS LIGHTS. COORDINATE WITH BURBANK WATER AND POWER (BWP).



PHASE 1



PHASE 2



PHASE 3

10 5 0 10 20
1" = 10'-0"

RR-W-014

RAILROAD SHEET NO.
200 OF 394

HORIZ 1"=10'

RR - SAN FERNANDO SHORING WALLS
CIVIL LAYOUT - SHEET 2 OF 2

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TIME PLOTTED => 6:02:09 PM
DATE PLOTTED => 7/17/2012
LAST REVISION 00-00-00

BORDER LAST REVISED 7/2/2010
USERNAME => grandova
DGN FILE => ...\civil\sheet\E737B-W-014.sht
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1812
PROJECT NUMBER & PHASE 07000211191