Burbank to Los Angeles
Option B Revised Alignment
Volume 3.4
General, Utilities, Grading & Drainage, Traction Power, Communication Towers, Train Control & System Support Facilities
August 2021
# PEPD Index of Volumes

<table>
<thead>
<tr>
<th>Volume No.</th>
<th>Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>Volume 3.1</td>
<td>General</td>
</tr>
<tr>
<td></td>
<td>Track Alignment</td>
</tr>
<tr>
<td></td>
<td>Right-of-Way Impact</td>
</tr>
<tr>
<td>Volume 3.2</td>
<td>General</td>
</tr>
<tr>
<td></td>
<td>Aerial Structures</td>
</tr>
<tr>
<td></td>
<td>Tunnels</td>
</tr>
<tr>
<td></td>
<td>Retaining Walls</td>
</tr>
<tr>
<td>Volume 3.3</td>
<td>General</td>
</tr>
<tr>
<td></td>
<td>Grade Separations</td>
</tr>
<tr>
<td></td>
<td>Roadway Improvements</td>
</tr>
<tr>
<td>Volume 3.4</td>
<td>General</td>
</tr>
<tr>
<td></td>
<td>Utilities</td>
</tr>
<tr>
<td></td>
<td>Grading and Drainage</td>
</tr>
<tr>
<td></td>
<td>Traction Power Facilities Site</td>
</tr>
<tr>
<td></td>
<td>Communication System Site</td>
</tr>
<tr>
<td></td>
<td>Automatic Train Control Site</td>
</tr>
<tr>
<td>Volume 3.5</td>
<td>General</td>
</tr>
<tr>
<td></td>
<td>Stations</td>
</tr>
<tr>
<td></td>
<td>Maintenance Facilities</td>
</tr>
<tr>
<td></td>
<td>Trackside Access</td>
</tr>
<tr>
<td>Volume 3.6</td>
<td>General</td>
</tr>
<tr>
<td></td>
<td>Construction Phasing Plans</td>
</tr>
<tr>
<td>Volume 3.7</td>
<td>General</td>
</tr>
<tr>
<td></td>
<td>Burbank Airport Station</td>
</tr>
<tr>
<td>Volume 3.8</td>
<td>General</td>
</tr>
<tr>
<td></td>
<td>Link Union Station (Link US) by LA Metro</td>
</tr>
<tr>
<td>DRAWING NO.</td>
<td>DRAWING TITLE</td>
</tr>
<tr>
<td>------------</td>
<td>---------------</td>
</tr>
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</tr>
<tr>
<td>UT-C1622</td>
<td>COMPOSITE UTILITIES PLAN STA VE01, VE02 3283+00 TO STA VE01, VE02 3291+65.95</td>
</tr>
<tr>
<td>UT-C1623</td>
<td>COMPOSITE UTILITIES PLAN UPRR 1 TRACK</td>
</tr>
<tr>
<td>UT-C1624</td>
<td>PROPOSED UTILITIES RELOCATION PLAN STA HSR2 3346+00 TO STA HSR2 3359+00</td>
</tr>
<tr>
<td>UT-C1625</td>
<td>PROPOSED UTILITIES RELOCATION PLAN STA HSR2 3359+00 TO STA HSR2 3372+00</td>
</tr>
<tr>
<td>UT-C1626</td>
<td>PROPOSED UTILITIES RELOCATION PLAN STA HSR2 3424+00 TO STA HSR2 3437+00</td>
</tr>
<tr>
<td>UT-C1627</td>
<td>PROPOSED UTILITIES RELOCATION PLAN STA HSR2 3450+00 TO STA HSR2 3463+00</td>
</tr>
<tr>
<td>UT-C1628</td>
<td>PROPOSED UTILITIES RELOCATION PLAN STA HSR2 3463+00 TO STA HSR2 3476+00</td>
</tr>
<tr>
<td>UT-C1629</td>
<td>PROPOSED UTILITIES RELOCATION PLAN STA HSR2 3476+00 TO STA HSR2 3489+00</td>
</tr>
<tr>
<td>UT-C1630</td>
<td>PROPOSED UTILITIES RELOCATION Plan - 20&quot; OIL AND FIBER OPTIC DUCTS</td>
</tr>
<tr>
<td>UT-C1631</td>
<td>PROPOSED UTILITIES RELOCATION Plan - 20&quot; OIL AND FIBER OPTIC DUCTS</td>
</tr>
<tr>
<td>UT-C1632</td>
<td>PROPOSED UTILITIES RELOCATION Plan - 20&quot; OIL AND FIBER OPTIC DUCTS</td>
</tr>
<tr>
<td>UT-C1633</td>
<td>PROPOSED UTILITIES RELOCATION Plan - 20&quot; OIL AND FIBER OPTIC DUCTS</td>
</tr>
<tr>
<td>UT-C1634</td>
<td>PROPOSED UTILITIES RELOCATION Plan - 20&quot; OIL AND FIBER OPTIC DUCTS</td>
</tr>
</tbody>
</table>
### VOLUME 3.5 - GENERAL, MAINTENANCE FACILITIES & TRACKSIDE ACCESS

**GENERAL**

<table>
<thead>
<tr>
<th>DRAWING NO.</th>
<th>DRAWING TITLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>GE-A0500</td>
<td>COVER SHEET VOLUME 3.5</td>
</tr>
<tr>
<td>GE-A0501</td>
<td>PROJECTION MAP VOLUME 3.5</td>
</tr>
<tr>
<td>GE-A0510</td>
<td>INDEX OF VOLUMES</td>
</tr>
<tr>
<td>GE-A0511</td>
<td>INDEX OF DRAWINGS VOLUME 3.5</td>
</tr>
<tr>
<td>GE-C0501</td>
<td>BASIS OF DESIGN SUMMARY</td>
</tr>
<tr>
<td>GE-C0502</td>
<td>ACRONYMS AND ABBREVIATIONS - SHEET 1 OF 5</td>
</tr>
<tr>
<td>GE-C0503</td>
<td>ACRONYMS AND ABBREVIATIONS - SHEET 2 OF 5</td>
</tr>
<tr>
<td>GE-C0504</td>
<td>ACRONYMS AND ABBREVIATIONS - SHEET 3 OF 5</td>
</tr>
<tr>
<td>GE-C0505</td>
<td>ACRONYMS AND ABBREVIATIONS - SHEET 4 OF 5</td>
</tr>
<tr>
<td>GE-C0506</td>
<td>ACRONYMS AND ABBREVIATIONS - SHEET 5 OF 5</td>
</tr>
<tr>
<td>GE-C0511</td>
<td>SYMBOLS - SHEET 1 OF 2</td>
</tr>
<tr>
<td>GE-C0512</td>
<td>SYMBOLS - SHEET 2 OF 2</td>
</tr>
<tr>
<td>GE-C0513</td>
<td>GENERAL NOTES</td>
</tr>
<tr>
<td>GE-C0514</td>
<td>TRACK SCHEMATIC</td>
</tr>
</tbody>
</table>

**MAINTENANCE FACILITIES**

<table>
<thead>
<tr>
<th>DRAWING NO.</th>
<th>DRAWING TITLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>MY-D1101</td>
<td>CMF TRACK PLAN - SHEET 1 OF 4</td>
</tr>
<tr>
<td>MY-D1102</td>
<td>CMF TRACK PLAN - SHEET 2 OF 4</td>
</tr>
<tr>
<td>MY-D1103</td>
<td>CMF TRACK PLAN - SHEET 3 OF 4</td>
</tr>
<tr>
<td>MY-D1104</td>
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</tr>
<tr>
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<td>CMF TRACK PROFILE - SHEET 1 OF 2</td>
</tr>
<tr>
<td>MY-D1202</td>
<td>CMF TRACK PROFILE - SHEET 2 OF 2</td>
</tr>
<tr>
<td>TT-E6118</td>
<td>CMF HORIZONTAL ALIGNMENT DATA - SHEET 1 OF 8</td>
</tr>
<tr>
<td>TT-E6119</td>
<td>CMF HORIZONTAL ALIGNMENT DATA - SHEET 2 OF 8</td>
</tr>
<tr>
<td>TT-E6120</td>
<td>CMF HORIZONTAL ALIGNMENT DATA - SHEET 3 OF 8</td>
</tr>
<tr>
<td>TT-E6121</td>
<td>CMF HORIZONTAL ALIGNMENT DATA - SHEET 4 OF 8</td>
</tr>
<tr>
<td>TT-E6122</td>
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</tr>
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<td>CMF HORIZONTAL ALIGNMENT DATA - SHEET 6 OF 8</td>
</tr>
<tr>
<td>TT-E6124</td>
<td>CMF HORIZONTAL ALIGNMENT DATA - SHEET 7 OF 8</td>
</tr>
<tr>
<td>TT-E6125</td>
<td>CMF HORIZONTAL ALIGNMENT DATA - SHEET 8 OF 8</td>
</tr>
<tr>
<td>CV-R1101</td>
<td>ROADWAY - SHEET 1 OF 4</td>
</tr>
<tr>
<td>CV-R1102</td>
<td>ROADWAY - SHEET 2 OF 4</td>
</tr>
<tr>
<td>CV-R1103</td>
<td>ROADWAY - SHEET 3 OF 4</td>
</tr>
<tr>
<td>CV-R1104</td>
<td>ROADWAY - SHEET 4 OF 4</td>
</tr>
<tr>
<td>CV-S1101</td>
<td>CMF SITE IMPROVEMENTS - SHEET 1 OF 4</td>
</tr>
<tr>
<td>CV-S1102</td>
<td>CMF SITE IMPROVEMENTS - SHEET 2 OF 4</td>
</tr>
<tr>
<td>CV-S1103</td>
<td>CMF SITE IMPROVEMENTS - SHEET 3 OF 4</td>
</tr>
<tr>
<td>CV-S1104</td>
<td>CMF SITE IMPROVEMENTS - SHEET 4 OF 4</td>
</tr>
<tr>
<td>CV-D1101</td>
<td>CMF DEMOLITION - SHEET 1 OF 4</td>
</tr>
<tr>
<td>CV-D1102</td>
<td>CMF DEMOLITION - SHEET 2 OF 4</td>
</tr>
<tr>
<td>CV-D1103</td>
<td>CMF DEMOLITION - SHEET 3 OF 4</td>
</tr>
<tr>
<td>CV-D1104</td>
<td>CMF DEMOLITION - SHEET 4 OF 4</td>
</tr>
</tbody>
</table>

**TRACKSIDE ACCESS & EMERGENCY ACCESS**

<table>
<thead>
<tr>
<th>DRAWING NO.</th>
<th>DRAWING TITLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>CV-S5100</td>
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</tr>
<tr>
<td>CV-S5101</td>
<td>VEHICLE TRACK ACCESS - ALLEN VISTA ST / LINCOLN ST HSR STA 3095+01</td>
</tr>
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<td>CV-S5102</td>
<td>VEHICLE TRACK ACCESS - UPRR WYE TRACKS HSR STA 3161+20</td>
</tr>
<tr>
<td>CV-S5103</td>
<td>VEHICLE TRACK ACCESS - ALLEN AVE HSR STA 3224+00</td>
</tr>
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</tr>
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</tbody>
</table>
BEGIN B-LA CHSR PROJECT
ALTERNATIVE E2 ALIGNMENT
STA 3006+48.25 +
P-B STA 2254446,81
REFER TO P-B PEPD SUBMITTAL (VOLUME 3.7)
FOR WORK NORTH OF THIS LOCATION
GOLDEN STATE FWY (1-5)

FOR WORK SOUTH OF THIS LOCATION

CALIFORNIA HIGH-SPEED TRAIN PROJECT
BURBANK TO LOS ANGELES
OPTION B REVISION ALIGNMENT - REVISED FINAL PE PD
VOLUME 3.6 - KEY MAP
UTILITY AND GRADING AND DRAINAGE - SHEET 1 OF 2

GLENDALE METROLINK STATION

CITY OF GLENDALE

END B-LA CHSR PROJECT
HSR STA 3697+99.72 - LINKUS STA 64+88.72
REFER TO LINKUS SUBMITTAL (VOLUME 3.8)
FOR WORK SOUTH OF THIS LOCATION

CITY OF LOS ANGELES

SCALE GE-D0401
BASIS OF DESIGN SUMMARY

THE BURBANK TO LOS ANGELES (B-LA) SEGMENT BEGINS SOUTH OF THE PROPOSED BURBANK AUTHORITY STATION IN A SUBSURFACE DEDICATED CORRIDOR. RUNS ALONG THE VENTURA AND VALLEY SUBDIVISIONS IN A SHARED CORRIDOR, AND ENDS AT LOS ANGELES UNION STATION (LAUS) FOR THE B-LA SEGMENT (LOSAN CORRIDOR). THE CALIFORNIA HIGH-SPEED RAIL AUTHORITY (AUTHORITY) HAS ADOPTED A STRATEGY TO ELECTRICALLY EQUIP THE EXISTING RAIL SYSTEMS ON SHARED INFRASTRUCTURE TO ACCELERATE AND BROADEN BENEFITS, IMPROVE EFFICIENCY, MAXIMIZE COMMUNITY IMPACTS AND REDUCE CONSTRUCTION COST. THE TECHNICAL REQUIREMENTS NECESSARY TO ALLOW JOINT OPERATION OF HIGH-SPEED RAIL, CONVENTIONAL PASSENGER RAIL, AND FREIGHT RAIL WITHIN THE BLENDED SYSTEM CORRIDOR BETWEEN BURBANK AND LOS ANGELES UNION STATION (LAUS) ARE BASED ON:

1. TECHNICAL MEMORANDUM (TM) 0.3.1 BASIS OF DESIGN FOR BLENDED OPERATION IN THE LA-A CORRIDOR, AS DATED MARCH 30, 2015.
2. TECHNICAL MEMORANDUM 0.3, BASIS OF DESIGN POLICY DOCUMENT, AS DATED JUNE 21, 2013.
3. THE BASIS OF DESIGN ELEMENTS THAT DIFFER BETWEEN BLENDED OPERATION AND THE INDIVIDUAL HIGH-SPEED OPERATION ARE DEFINED IN THE TM 0.3.1, SPECIFICALLY FOCUSES ON OBJECTIVES, PROCESSES, REQUIREMENTS, AND ASSUMPTIONS THAT SUPPORT THE BLENDED OPERATION.
4. IN ADDITION, THE FOLLOWING DESIGN POLICY MEMOS HAVE BEEN INITIATED IN ORDER TO ADDRESS THE REQUIREMENTS OF THE VARIOUS DESIGN ELEMENTS THAT ARE NOT COVERED IN DETAIL IN THE TM 0.3.1 AND ARE BEING REVIEWED BY THE AUTHORITY.

INFRASTRUCTURE REQUIREMENTS

THE AUTHORITY HAS ESTABLISHED DESIGN REQUIREMENTS TO GUIDES THE DEVELOPMENT OF THE HIGH-SPEED RAIL SYSTEM IN BLENDED CORRIDORS BASED ON THE FRA Tier Structure for Passenger Systems described in the Development of the High-Speed Rail System in BLENDED Corridors. The Authority has established performance requirements to guide the infrastructure requirements. The requirements for major design elements are listed below:

1. Interoperability
   - REQUIRED LEVEL OF INTEROPERABILITY BETWEEN THE PASSENGER AND FREIGHT RAILROADS THAT OPERATE IN THE B-LA SEGMENT WILL BE MAINTAINED.
2. Design Speeds
   - DESIGN SPEEDS: MAXIMUM ALLOWED PER EXISTING ALIGNMENT/ROW CONSTRAINTS WITH A SPEED NOT TO EXCEED MAXIMUM OF 125 MPH.
3. Track Center Spacing
   - 16'-6" MINIMUM FOR 16'-6" MINIMUM BETWEEN I-5 AND SR-134, NORTH OF CFW ACCESS ROAD, AND FROM DOWNTOWN BURBANK TO LAUS.
4. At-Grade Crossing
   - THERE WILL BE NO AT-GRADE CROSSINGS IN THE B-LA SEGMENT.

BASIS OF DESIGN SUMMARY

THE B-LA CORRIDOR WILL BE OWNED AND OPERATED BY THE AUTHORITY. ALL ASSESSMENT AND REQUIREMENTS OF ADJACENT RAILROAD (UPRR). PASSENGER AND FREIGHT OPERATIONS OCCUR SIMULTANEOUSLY THROUGHOUT THE DAY ON PARALLEL ALIGNMENTS.

1. Systems
2. Design Elements Related to Electrification/Transmission Power Supply System (TPSS), Train Control Systems and Communications Are Not Part of This Contract and These Design Elements Will Be Designed by Others.
3. Element Locations Will Be Defined as Part of This Contract.

13. Diamond (At-Grade) Crossings
   - The Use of "OWL" Diamond Crossings Will Not Be Allowed Due to High Volume of Crossing Tracks. The HSR Tracks Will Run Alongside the Western Side of the CM Building to Avoid Diamond Crossings.

STV

9/12/2021

NOT FOR CONSTRUCTION
BASIS OF DESIGN SUMMARY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
BURBANK TO LOS ANGELES
OPTION B REVISED ALIGNMENT - REVISED FINAL
TM0.3.1

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

HSR14-39

NO SCALE

THE AUTHORITY WILL OPERATE IN A SHARED RIGHT-OF-WAY AND WILL SHARE TRACKS WITH OTHER PASSENGER TRAINS SOUTH OF DOWNTOWN BURBANK METROLINK STATION. FREIGHT TRAINS WILL NOT OPERATE ON HSR ELECTRIFIED TRACKS.

8. Terminal and Intermediate Station(s)
   - THE FOLLOWING STATION IN THE CORRIDOR IS DESIGNATED AS A TERMINAL STATION:

   BURBANK AIRPORT STATION & LOS ANGELES UNION STATION
   - THERE WILL BE NO INTERMEDIATE HIGH-SPEED RAIL STATION.

9. Track and Platform Configuration
   - STATION PASSENGER PLATFORMS ARE PLANNED FOR A LENGTH OF APPROXIMATELY 1410 FEET TO ACCOMMODATE A RANGE OF HIGH-SPEED TIERS.

10. Vehicle Storage and Maintenance
    - UNDER CURRENT OPERATING ASSUMPTION, FLEET STORAGE, CLEANING, SERVICING, INSPECTION, MAINTENANCE, AND REPAIR REQUIREMENTS WILL BE SUPPORTED AT:

   BURBANK AIRPORT STATION & LOS ANGELES UNION STATION
   - STORAGE TRACKS FOR OVERNIGHT LAYUP AT LOS ANGELES UNION STATION.
   - CURRENT DESIGNS TO BE MODIFIED PER UPON CONSTRUCTION DISCUSSION WITH RDP.

11. Adjacent Rail Operations
    - IN THE BURBANK TO LOS ANGELES CORRIDOR, THE AUTHORITY WILL OPERATE IN A SHARED RIGHT-OF-WAY AND WILL SHARE TRACKS WITH OTHER PASSENGER TRAINS SOUTH OF DOWNTOWN BURBANK METROLINK STATION.

12. Shared Right-of-Way (ROW)
    - GENERALLY, THE RIGHT-OF-WAY IS OWNED BY LA METRO ON THE VALLEY AND VENTURA SUBDIVISIONS, AND IS OWNED PARTIALLY BY THE FREIGHT RAILROAD (UPRR) ON THE VENTURA LINE. PASSENGER AND FREIGHT OPERATIONS OCCUR SIMULTANEOUSLY THROUGHOUT THE DAY ON PARALLEL ALIGNMENTS.

14. Structural Design
   - A HSR STRUCTURE DESIGN WILL BE BASED ON CHSTP CP 2-3 DESIGN CRITERIA MANUAL REV 2 DATED FEBRUARY, 2014.

15. Existing Primary Type 2 Overhead Structures
   - A. WILL MEET THE NON-COLLAPSE PERFORMANCE FOR MAXIMUM CONSIDERED EARTHQUAKE (MCE).
   - B. TO REMAIN ELASTIC FOR ONE SPECTRA.
GENERAL NOTES

4. REFER TO TRACK PLANS, VOLUME 1 AND PROPOSED UTILITY PLANS, VOLUME 4, FOR UTILITY CONFLICTS.

5. ADJUST UTILITY MANHOLE TO GRADE WHERE IMPACTED BY EARTHWORK OR STREET IMPROVEMENTS.

6. USE ELECTRICAL STANDARD DRAWINGS (2010) FOR TEMPORARY SUPPORT OF UTILITIES IMPACTED BY CUT AND FILL OPERATIONS.

GRADING AND DRAINAGE NOTES:

1. CONTOUR GRADING ALONG THE MSR TRACKS IS BASED ON THE TOP OF SUBGRADE ELEVATIONS. BALLAST IS NOT INCLUDED.

2. FOR RETAINING WALL INFORMATION, SEE RETAINING WALL PLANS IN VOLUME 2.

VOLUME 3.5

1. FOR MAIN LINE TRACK INFORMATION, SEE TRACK PLANS IN VOLUME 1.

2. FOR UTILITY INFORMATION, SEE UTILITY PLANS IN VOLUME 4.

3. FOR DRAINAGE INFORMATION, SEE DRAINAGE PLANS IN VOLUME 4.

4. FOR SYSTEM INFORMATION, SEE SYSTEM PLANS IN VOLUME 4.

5. FOR BRIDGES INFORMATION, SEE BRIDGE PLANS IN VOLUME 4.

6. FOR TRENCH INFORMATION, SEE STRUCTURAL PLANS IN VOLUME 4.

7. FOR DRAINAGE INFORMATION WITHIN MAIN LINE ROW, SEE DRAINAGE PLANS IN VOLUME 4.

8. FOR UTILITY INFORMATION, SEE UTILITY PLANS IN VOLUME 4.

VOLUME 3.6

1. CONSTRUCTION PASSING PROVIDED FOR PROPOSED WORK SOUTH OF MSR BURBANK STATION TO MAIN STREET. PASSING OF MSR BURBANK STATION AND LINUS PROJECT NOT INCLUDED AS PART OF THIS SUBPROJECT.

VOLUME 3.7

1. MSR BURBANK STATION CONCEPT DESIGN PROVIDED AS REFERENCES TO WORK PROPOSED AS PART OF THE PALMABLE TO BURBANK SEGMENT. FINAL DESIGN COORDINATION REQUIRED AT INTERFACE SOUTH OF STATION.

VOLUME 3.8

1. LINUS DESIGN PROVIDED AS REFERENCE TO WORK SOUTH OF MAIN STREET EXTENDING INTO LA UNION STATION.

2. FINAL DESIGN COORDINATION REQUIRED AT INTERFACE WEST OF MISSION BURBANK STATION TO MAIN STREET. PHASING OF HSR BURBANK STATION AND MAIN STREET ROW EXTENDING INTO LA UNION STATION.

VOLUME 4

1. REFER TO TRACK PLANS, VOLUME 1 AND PROPOSED UTILITY PLANS, VOLUME 4, FOR UTILITY CONFLICTS.

2. FOR UTILITY INFORMATION, SEE UTILITY PLANS IN VOLUME 4.

3. FOR DRAINAGE INFORMATION, SEE DRAINAGE PLANS IN VOLUME 4.

4. FOR SYSTEM INFORMATION, SEE SYSTEM PLANS IN VOLUME 4.

5. FOR DRAINAGE INFORMATION WITHIN MAIN LINE ROW, SEE DRAINAGE PLANS IN VOLUME 4.

6. FOR UTILITY INFORMATION, SEE UTILITY PLANS IN VOLUME 4.

7. FOR MAIN LINE TRACK INFORMATION, SEE TRACK PLANS IN VOLUME 1.

8. FOR UTILITY INFORMATION, SEE UTILITY PLANS IN VOLUME 4.

9. FOR DRAINAGE INFORMATION, SEE DRAINAGE PLANS IN VOLUME 4.

10. FOR SYSTEM INFORMATION, SEE SYSTEM PLANS IN VOLUME 4.

11. FOR BRIDGES INFORMATION, SEE BRIDGE PLANS IN VOLUME 4.

12. FOR TRENCH INFORMATION, SEE STRUCTURAL PLANS IN VOLUME 4.

13. FOR DRAINAGE INFORMATION WITHIN MAIN LINE ROW, SEE DRAINAGE PLANS IN VOLUME 4.

14. FOR UTILITY INFORMATION, SEE UTILITY PLANS IN VOLUME 4.

15. FOR MAIN LINE TRACK INFORMATION, SEE TRACK PLANS IN VOLUME 1.

16. FOR BRIDGES INFORMATION, SEE BRIDGE PLANS IN VOLUME 4.

17. FOR DRAINAGE INFORMATION, SEE DRAINAGE PLANS IN VOLUME 4.

18. FOR SYSTEM INFORMATION, SEE SYSTEM PLANS IN VOLUME 4.

19. FOR BRIDGES INFORMATION, SEE BRIDGE PLANS IN VOLUME 4.

20. FOR TRENCH INFORMATION, SEE STRUCTURAL PLANS IN VOLUME 4.

21. FOR DRAINAGE INFORMATION WITHIN MAIN LINE ROW, SEE DRAINAGE PLANS IN VOLUME 4.

22. FOR UTILITY INFORMATION, SEE UTILITY PLANS IN VOLUME 4.

23. FOR MAIN LINE TRACK INFORMATION, SEE TRACK PLANS IN VOLUME 1.

24. FOR UTILITY INFORMATION, SEE UTILITY PLANS IN VOLUME 4.

25. FOR DRAINAGE INFORMATION, SEE DRAINAGE PLANS IN VOLUME 4.

26. FOR SYSTEM INFORMATION, SEE SYSTEM PLANS IN VOLUME 4.

EXISTING UTILITY NOTES:

1. FOR TRACK INFORMATION, SEE TRACK PLANS IN VOLUME 1.

2. UTILITY CONFLICTS ON CROSSING STREETS AT EXISTING GRADE SEPARATIONS ARE ANTICIPATED.

3. ONLY THE FOLLOWING UTILITIES SHALL BE CONSIDERED MAJOR AND ARE IDENTIFIED IN THE UTILITY CONFLICTS MATRIX ON THE DRAWINGS.

A. WET UTILITIES
   1. SEWER, WATER, STORM DRAIN GREATER THAN OR EQUAL TO 12".
   2. ALL GAS LINES.
   3. ALL FUEL (GASOLINE) LINES.

B. DRY UTILITIES
   1. ALL GAS LINES.
   2. ALL FIBER OPTIC LINES.
   3. ALL ALUMINUM LINE GREATER THAN 240V.
   4. ALL DUCT BANKS WITH 6 OR MORE DUCTS.
   5. EXCLUDE INDIVIDUAL TELEPHONE, CABLE LINES.

C. ALL OTHER CONFLICTS ARE CONSIDERED MINOR AND ARE NOT SHOWN IN THE UTILITY CONFLICTS MATRIX.

D. UTILITIES AT GRADE SEPARATIONS ARE SHOWN IN THE UTILITY CONFLICTS MATRIX EVEN IF THEY FALL UNDER THE ABOVE CRITERIA SINCE VOLUMES 3 & 4 OFFER MORE SPECIFIC AND ACCURATE INFORMATION REGARDING THE DESIGN.

NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
BURBANK TO LOS ANGELES
OPTION B REVISAL ALIGNMENT - REVISED FINAL
GENERAL NOTES

HSR14-39
CE-B0411
NO SCALE
REV. 3.1
07/15/2021
### Major Utility Conflicts

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<th>Size / Material</th>
<th>Location</th>
<th>Owner</th>
<th>Disposition</th>
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<tbody>
<tr>
<td>1</td>
<td>Gas</td>
<td>Gas Line</td>
<td>STA 3028+59</td>
<td>SC Gas</td>
<td>Relocate</td>
</tr>
</tbody>
</table>

**Note:** No utility as-built information has been provided by the airport authority.

---

**NOT FOR CONSTRUCTION**

For Internal Use Only
MAJOR UTILITY CONFLICTS

<table>
<thead>
<tr>
<th>NO.</th>
<th>TYPE OF UTILITY</th>
<th>SIZE / MATERIAL</th>
<th>LOCATION</th>
<th>OWNER</th>
<th>DISPOSITION</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>PROPOSED TCE</td>
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<td></td>
<td>PROPOSED TUNNEL</td>
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<td></td>
<td>PROPOSED ROW</td>
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<tr>
<td></td>
<td>PROPOSED INTERLOCKING SITE</td>
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</table>

NOTE: NO UTILITY AS-BUILT INFORMATION HAS BEEN PROVIDED BY THE AIRPORT AUTHORITY.
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<table>
<thead>
<tr>
<th>No.</th>
<th>TYPE OF UTILITY</th>
<th>SIZE / MATERIAL</th>
<th>LOCATION</th>
<th>OWNER</th>
<th>DISPOSITION</th>
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<tbody>
<tr>
<td>1</td>
<td>FIBER</td>
<td>UNDERGROUND FIBER</td>
<td>STA 3060+00 TO 3073+00</td>
<td>UTILITY</td>
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<tr>
<td>2</td>
<td>RAW WATER</td>
<td>12&quot;, 16&quot;, 24&quot;, &amp; 30&quot; MOPE WATER LINES</td>
<td>STA 3064+00 TO 3073+00</td>
<td>MCI/SPRINT</td>
<td>RELOCATE</td>
</tr>
<tr>
<td>3</td>
<td>ELECTRICAL</td>
<td>OVERHEAD ELECTRICAL LINES</td>
<td>STA 3068+12 TO 3073+00</td>
<td>SCE</td>
<td>RELOCATE</td>
</tr>
<tr>
<td>4</td>
<td>ELECTRICAL</td>
<td>UNDERGROUND ELECTRICAL LINE</td>
<td>STA 3067493 TO 3068486</td>
<td>CITY OF BURBANK</td>
<td>RELOCATE</td>
</tr>
<tr>
<td>5</td>
<td>TELEPHONE</td>
<td>OVERHEAD TELEPHONE LINE</td>
<td>STA 3068+62 TO 3073+00</td>
<td>TRD</td>
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</tr>
<tr>
<td>6</td>
<td>SEWER</td>
<td>12&quot; OP FIBER PIPE</td>
<td>STA 3069400</td>
<td>CITY OF BURBANK</td>
<td>EXTEND EXISTING CFG UNDER TEMP CONST LIMITS</td>
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<tr>
<td>7</td>
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<td>UNDERGROUND ELECTRICAL LINES</td>
<td>STA 3067+93 TO 3068+86</td>
<td>CITY OF BURBANK</td>
<td>RELOCATE</td>
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<tr>
<td>8</td>
<td>MELLS</td>
<td>OBSERVATION WELLS ON-VDEA/JO</td>
<td>STA 3067497</td>
<td>SF VAL BUS, OPER, UN.</td>
<td>MOOD, RAISE TO GRADE</td>
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<tr>
<td>9</td>
<td>STORM DRAIN</td>
<td>12&quot; HDPE PIPE</td>
<td>STA 3069400 TO 3067486</td>
<td>LACCO</td>
<td>RELOCATE, SEE SKT 20-01308</td>
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<tr>
<td>10</td>
<td>TRO</td>
<td>ANODE STATIONS</td>
<td>STA 3068420 TO 3068446</td>
<td>TRD</td>
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<tr>
<td>11</td>
<td>MELLS</td>
<td>GROUND WATER MONITORING WELLS</td>
<td>STA 3068402 TO 3066+53</td>
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<td>12</td>
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<td>VAULT &amp; RELATED INFRASTRUCTURE</td>
<td>STA 3067+48 TO 3067+80</td>
<td>SF VAL BUS, OPER, UN.</td>
<td>RELOCATE</td>
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MAJOR UTILITY CONFLICTS

<table>
<thead>
<tr>
<th>NO.</th>
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<th>DISPOSITION</th>
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<tbody>
<tr>
<td>1</td>
<td>FIBER</td>
<td>UNDERGROUND</td>
<td>STA 3073+00 TO 3086+00</td>
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<tr>
<td>2</td>
<td>GAS</td>
<td>2&quot; GAS LINE</td>
<td>STA 3069+36</td>
<td>SCE</td>
<td>RELocate OUTSIDE CONST. ZONE</td>
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<tr>
<td>3</td>
<td>STORM DRAIN</td>
<td>CATCH BASIN &amp; 4&quot; CULVERT</td>
<td>STA 3084+45</td>
<td>City of Burbank</td>
<td>RELocate OUTSIDE CONST. ZONE</td>
</tr>
<tr>
<td>4</td>
<td>ELECTRICAL</td>
<td>OVERHEAD ELECTRICAL LINE</td>
<td>STA 3073+00 TO 3086+00</td>
<td>SCE</td>
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</tr>
<tr>
<td>5</td>
<td>TELEPHONE</td>
<td>OVERHEAD TELEPHONE LINE</td>
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<td>TBD</td>
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<tr>
<td>6</td>
<td>TELEPHONE</td>
<td>UNDERGROUND ELECTRICAL LINE</td>
<td>STA 3073+00 TO 3086+00</td>
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<td>RELocate</td>
</tr>
<tr>
<td>7</td>
<td>WELLS</td>
<td>OBSERVATION WELLS ON-VOSA/B</td>
<td>STA 3080+47</td>
<td>SF BUR. OPER. UN.</td>
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<td>8</td>
<td>WATER</td>
<td>20&quot;-24&quot; HDPE WATER LINE</td>
<td>STA 3073+00 TO 3086+00</td>
<td>SF BUR. OPER. UN.</td>
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</tr>
<tr>
<td>9</td>
<td>ELECTRICAL</td>
<td>UNDERGROUND ELECTRICAL LINE</td>
<td>STA 3073+00 TO 3086+00</td>
<td>City of Burbank</td>
<td>RELocate</td>
</tr>
<tr>
<td>10</td>
<td>TELEPHONE</td>
<td>OVERHEAD TELEPHONE LINE</td>
<td>STA 3073+00 TO 3086+00</td>
<td>TBD</td>
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</tr>
<tr>
<td>11</td>
<td>EXTRACTION WELL</td>
<td>VAULT &amp; RELATED INFRA.</td>
<td>STA 3080+10 TO 3080+50</td>
<td>SF BUR. OPER. UN.</td>
<td>RELocate</td>
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MAJOR UTILITY CONFLICTS

<table>
<thead>
<tr>
<th>No.</th>
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<th>OWNER</th>
<th>DISPOSITION</th>
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<tbody>
<tr>
<td>1</td>
<td>FIBER</td>
<td>OVERHEAD FIBER LINE</td>
<td>STA 3099+00 TO 3112+00</td>
<td>MWD</td>
<td>RELOCATE OUTSIDE ROW</td>
</tr>
<tr>
<td>2</td>
<td>STORM DRAIN</td>
<td>36&quot; RCP</td>
<td>STA 3104+06</td>
<td>MWD</td>
<td>JOIN REALIGNED CHANNEL</td>
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<tr>
<td>3</td>
<td>RAW WATER</td>
<td>12&quot;, 18&quot;, &amp; 20&quot; HDPE</td>
<td>STA 3099+00 TO 3112+00</td>
<td>SF VAL BUR, OPER, UNL</td>
<td>RELOCATE</td>
</tr>
<tr>
<td>4</td>
<td>WATER - FIRE</td>
<td>WATER LINE FIXTURES</td>
<td>STA 3104+06 TO 3111+75</td>
<td>MWD</td>
<td>RELOCATE</td>
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<tr>
<td>5</td>
<td>EXTRACTION WELLS &amp; RELATED INFRA.</td>
<td>12&quot; HDPE</td>
<td>STA 3104+02 TO 3109+30</td>
<td>SF VAL BUR, OPER, UNL</td>
<td>PROJECT-IN-PLACE</td>
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<tr>
<td>6</td>
<td>EXTRACTION WELLS &amp; RELATED INFRA.</td>
<td>18&quot; HDPE RAW WATERLINE</td>
<td>STA 3104+06 TO 3109+30</td>
<td>SF VAL BUR, OPER, UNL</td>
<td>PROJECT-IN-PLACE</td>
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<tr>
<td>7</td>
<td>OBSERVATION WELLS OW-V02A/B-R</td>
<td>20&quot; HDPE</td>
<td>STA 3100+44</td>
<td>SF VAL BUR, OPER, UNL</td>
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<td>STA 3100+44</td>
<td>SF VAL BUR, OPER, UNL</td>
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### Major Utility Conflicts

<table>
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<tr>
<th>No.</th>
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<th>Location</th>
<th>Owner</th>
<th>Disposition</th>
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<tbody>
<tr>
<td>1</td>
<td>Storm Drain</td>
<td>12&quot; HDPE Locamed Channel</td>
<td>STA 3125+00 TO 3138+00</td>
<td>SCE</td>
<td>LACED</td>
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<tr>
<td>2</td>
<td>Fiber</td>
<td>4&quot;-2&quot; Hope Ducts</td>
<td>STA 3131+69 TO 3138+00</td>
<td>SCE</td>
<td>RELOCATE</td>
</tr>
<tr>
<td>3</td>
<td>Electrical</td>
<td>Overhead Power Line</td>
<td>STA 3128+82 TO 3138+00</td>
<td>SCE</td>
<td>RELOCATE</td>
</tr>
<tr>
<td>4</td>
<td>Water</td>
<td>6&quot; Water Line</td>
<td>STA 3137+05</td>
<td>SCE</td>
<td>RELOCATE</td>
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<tr>
<td>5</td>
<td>Gas</td>
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<td>STA 3137+00</td>
<td>SCE</td>
<td>RELOCATE</td>
</tr>
<tr>
<td>6</td>
<td>Fiber</td>
<td>Overhead Fiber Line</td>
<td>STA 3125+00 TO 3138+00</td>
<td>AT&amp;T</td>
<td>RELOCATE</td>
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<tr>
<td>7</td>
<td>Telephone</td>
<td>Overhead Phone Line</td>
<td>STA 3128+82 TO 3138+00</td>
<td>AT&amp;T</td>
<td>RELOCATE</td>
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<tr>
<td>8</td>
<td>Sewer</td>
<td>8&quot; VCP Sewer Line</td>
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<td>9</td>
<td>Telephone</td>
<td>Overhead Phone Line</td>
<td>STA 3135+00</td>
<td>AT&amp;T</td>
<td>RELOCATE</td>
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<tr>
<td>10</td>
<td>Electrical</td>
<td>Overhead Power Line</td>
<td>STA 3135+00</td>
<td>SCE</td>
<td>RELOCATE</td>
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<tr>
<td>11</td>
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<td>Overhead Power Line</td>
<td>STA 3130+87</td>
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<td>36&quot; CMP</td>
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<td>RELOCATE</td>
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<td>13</td>
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<td>8&quot; and 12&quot; DI Water Line</td>
<td>STA 3125+00 TO 3126+45</td>
<td>SCE, AT&amp;T</td>
<td>RELOCATE</td>
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<tr>
<td>14</td>
<td>Storm Drain</td>
<td>100</td>
<td>STA 3128+65</td>
<td>SCE</td>
<td>RELOCATE</td>
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<tr>
<td>15</td>
<td>Telephone</td>
<td>Underground Telecommunication Line</td>
<td>STA 3129+42</td>
<td>AT&amp;T</td>
<td>RELOCATE</td>
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<tr>
<td>16</td>
<td>Electrical</td>
<td>Electrical Casem</td>
<td>STA 3129+64</td>
<td>SCE</td>
<td>RELOCATE</td>
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PROPOSED UTILITY RELOCATION DWG. NO. UT-D7021 FOR UTILITY INFORMATION AT ROADWAY IMPROVEMENT

PROPOSED HSR2
PROPOSED TCE
STORM DRAIN
EXIST ROW
RELOCATE
RELOCATE
PROPOSED BRIDGE STRUCTURE
SEE VOLUME 3, DRAWING NO. ST-K1031 FOR STRUCTURAL PLANS

COSTCO

PROPOSED GRADE SEPARATION, SEE VOLUME 3, DRAWING NO. UT-C1507

PROPOSED HSR2
PROPOSED TCE
STORM DRAIN
EXIST ROW
RELOCATE
RELOCATE
PROPOSED BRIDGE STRUCTURE
SEE VOLUME 3, DRAWING NO. ST-K1031 FOR STRUCTURAL PLANS

COSTCO

PROPOSED GRADE SEPARATION, SEE VOLUME 3, DRAWING NO. UT-C1507

PROPOSED HSR2
PROPOSED TCE
STORM DRAIN
EXIST ROW
RELOCATE
RELOCATE
PROPOSED BRIDGE STRUCTURE
SEE VOLUME 3, DRAWING NO. ST-K1031 FOR STRUCTURAL PLANS

COSTCO

PROPOSED GRADE SEPARATION, SEE VOLUME 3, DRAWING NO. UT-C1507

PROPOSED HSR2
PROPOSED TCE
STORM DRAIN
EXIST ROW
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RELOCATE
PROPOSED BRIDGE STRUCTURE
SEE VOLUME 3, DRAWING NO. ST-K1031 FOR STRUCTURAL PLANS

COSTCO

PROPOSED GRADE SEPARATION, SEE VOLUME 3, DRAWING NO. UT-C1507

PROPOSED HSR2
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PROPOSED HSR2
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PROPOSED GRADE SEPARATION, SEE VOLUME 3, DRAWING NO. UT-C1507

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RELOCATE
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SEE VOLUME 3, DRAWING NO. ST-K1031 FOR STRUCTURAL PLANS

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PROPOSED GRADE SEPARATION, SEE VOLUME 3, DRAWING NO. UT-C1507

PROPOSED HSR2
PROPOSED TCE
STORM DRAIN
EXIST ROW
RELOCATE
RELOCATE
PROPOSED BRIDGE STRUCTURE
SEE VOLUME 3, DRAWING NO. ST-K1031 FOR STRUC
<table>
<thead>
<tr>
<th>No.</th>
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<th>Disposition</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>SEWER</td>
<td>8&quot; VCP SEWER LINE</td>
<td>STA 3140+00</td>
<td>CITY OF BURBANK</td>
<td>ADD CSG FROM ROW TO RET. WALL</td>
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<tr>
<td>2</td>
<td>WATER</td>
<td>16&quot; WATER LINE</td>
<td>STA 3141+35</td>
<td>BURBANK WATER &amp; POWER</td>
<td>ADD CSG FROM ROW TO RET. WALL</td>
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<tr>
<td>3</td>
<td>STORM DRAIN</td>
<td>12&quot; WIDE LOCKHEED CHANNEL</td>
<td>STA 3160+11 TO 3151+00</td>
<td>LACFCO</td>
<td>RELOCATE, SEE SHT. CV-G1301</td>
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<td>4</td>
<td>SEWER</td>
<td>15&quot; VCP SEWER LINE</td>
<td>STA 3146+73</td>
<td>CITY OF BURBANK</td>
<td>RELOCATE, ADD CASING</td>
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<td>STORM DRAIN</td>
<td>72&quot; STORM DRAIN</td>
<td>STA 3147+48 TO 3151+00</td>
<td>LACFCO</td>
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<td>60&quot; STORM DRAIN</td>
<td>STA 3141+79</td>
<td>CITY OF BURBANK</td>
<td>PROTECT, SEE SHT. CV-G1301 FOR EXTENSION</td>
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<td>7</td>
<td>SEWER</td>
<td>24&quot; VCP</td>
<td>STA 3149+04 TO 3151+00</td>
<td>CITY OF BURBANK</td>
<td>RELOCATE</td>
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<tr>
<td>8</td>
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<td>12&quot; DUCTILE IRON</td>
<td>STA 3147+55</td>
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<td>RELOCATE INTERFERING PORTION WITH NEW S.D.</td>
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<td>9</td>
<td>ELECTRICAL</td>
<td>OVERHEAD POWER LINE</td>
<td>STA 3136+00 TO 3151+00</td>
<td>SCE</td>
<td>RELOCATE</td>
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<td>FIBER</td>
<td>4-2&quot; HDPE DUCTS</td>
<td>STA 3151+00 TO 3164+00</td>
<td>SCE</td>
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<tr>
<td>2</td>
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<td>10</td>
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**REFERENCES**

- PROJECT: CALIFORNIA HIGH-SPEED TRAIN PROJECT
- CONTRACT: HSR14-39
- DRAWING: UT-C1509
- SHEET: 07/15/2021

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**
Burbank to Los Angeles
Option B Revised Alignment - Revised Final Map
Composite Utilities Plan
HSR2 3151+00 to HSR2 3164+00

**DRAWN BY:**
**CHECKED BY:**
**DESIGNED BY:**
**IN CHARGE:**

**DATE:** 07/15/2021

**CONSTRUCTION FOR INTERNAL USE ONLY**
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MAJOR UTILITY CONFLICTS

<table>
<thead>
<tr>
<th>No.</th>
<th>TYPE OF UTILITY</th>
<th>SIZE / MATERIAL</th>
<th>LOCATION</th>
<th>OWNER</th>
<th>DISPOSITION</th>
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MAJOR UTILITY CONFLICTS

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MAJOR UTILITY CONFLICTS

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### Major Utility Conflicts

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<td>West/Century Link</td>
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<td>5</td>
<td>Gas (Aban)</td>
<td>26'' Gas</td>
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<td>Overhead Cable</td>
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<td>8'' VCP in CSG</td>
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<td>3'' RCP 4' Cover</td>
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<td>So. Pacific RR</td>
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REFER TO PROPOSED UTILITY RELLOCATION DWG. NO. UT-D7071 FOR UTILITY INFORMATION AT ROADWAY IMPROVEMENT.
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<tr>
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<td>GAS (ABAN)</td>
<td>26&quot; GAS</td>
<td>STA 3216+00 TO 3289+40</td>
<td>SC GAS</td>
<td>TO BE REMOVED</td>
</tr>
<tr>
<td>6</td>
<td>ELECTRICAL POLES</td>
<td>N/A</td>
<td>MULTIPLE LOCATIONS</td>
<td>TBD</td>
<td>PROTECT IN PLACE</td>
</tr>
</tbody>
</table>

NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY
MAJOR UTILITY CONFLICTS

| No. | TYPE OF UTILITY | SIZE / MATERIAL | LOCATION                  | OWNER                  | DISPOSITION
|-----|----------------|----------------|---------------------------|------------------------|-------------
| 1   | OIL            | 20" OIL LINE   | 534 3143+00 TO 3684+000   | PACIFIC PIPELINE       | RELOCATE    |
| 2   | FIBER          | 4-2" HOPE DUCTS | 534 3143+00 TO 3684+000   | QWEST/CENTURY LINK      | RELOCATE    |
| 3   | FIBER          | 4-2" HOPE DUCTS | 534 3143+00 TO 3684+000   | MCI/VERIZON-SPRINT      | RELOCATE    |
| 4   | FIBER          | 4-2" HOPE DUCTS | 534 3143+00 TO 3684+000   | QWEST-MFS-METRO         | RELOCATE    |
| 5   | STORM DRAIN    | 6.5X10 RCB CULVERT | 534 3200+53/ ALMA ST.         | LACFCD                 | REMOVE, CULVERT AND EXTEND 2" RCB ACROSS ROW |
| 6   | GAS            | 6" GAS LINE    | 534 3295+00 TO 3310+000   | SCC                    | RELOCATE AND ALIGN WITH SAN FERNANDO ROAD |
| 7   | WATER LINE     | 12" WATER LINE | 534 3295+00 TO 3310+000   | GLENDALE W&P            | RELOCATE AND ALIGN WITH SAN FERNANDO ROAD |
| 8   | STORM DRAIN    | 21" VCP        | 534 3295+00 TO 3310+000   | GGPW                   | RELOCATE    |
| 9   | STORM DRAIN    | 72" RCB        | 534 3304+53/ ALMA ST.     | LACFCD                 | PROTECT-IN-PLACE |

REFER TO PROPOSED UTILITY RELOCATION DWG. NO. UT-D7091 FOR UTILITY INFORMATION AT ROADWAY IMPROVEMENT
<table>
<thead>
<tr>
<th>No.</th>
<th>TYPE OF UTILITY</th>
<th>SIZE / MATERIAL</th>
<th>LOCATION</th>
<th>OWNER</th>
<th>DISPOSITION</th>
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<tbody>
<tr>
<td>1</td>
<td>OIL</td>
<td>20'</td>
<td>STA 3143+00 TO 3684+00</td>
<td>PACIFIC PIPELINE</td>
<td>RELOCATE</td>
</tr>
<tr>
<td>2</td>
<td>FIBER</td>
<td>4-2&quot; HOPE DUCTS</td>
<td>STA 3143+00 TO 3684+00</td>
<td>WEST/CENTURY LINX</td>
<td>RELOCATE</td>
</tr>
<tr>
<td>3</td>
<td>FIBER</td>
<td>4-2&quot; HOPE DUCTS</td>
<td>STA 3145+00 TO 3684+00</td>
<td>MCI/VERIZON/AT&amp;T/SPRINT</td>
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<tr>
<td>4</td>
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<td>4-2&quot; HOPE DUCTS</td>
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<td>RELOCATE</td>
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<tr>
<td>5</td>
<td>RECYCLE WATER</td>
<td>16&quot; OML STEEL</td>
<td>STA 3308+62 TO 3319+44</td>
<td>GLENDALE W &amp; P</td>
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<td>6</td>
<td>GAS M</td>
<td>8&quot; IN 13' OF CSG</td>
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<td>EXTEND CASING FROM ROW TO ROW</td>
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<td>7</td>
<td>GAS M</td>
<td>8&quot; IN 14' OF CSG</td>
<td>STA 3309+03/ KELLOG AVE.</td>
<td>SC GAS DISTRIBUTION</td>
<td>EXTEND CASING FROM ROW TO ROW</td>
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<tr>
<td>8</td>
<td>RECYCLED WATER</td>
<td>16&quot; OML STEEL IN 30' STEEL CSG</td>
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<td>GLENDALE W &amp; P</td>
<td>EXTEND CASING FROM ROW TO ROW</td>
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<tr>
<td>9</td>
<td>ELECTRICAL</td>
<td>69 KV OVERHEAD</td>
<td>STA 3314+72 TO 3320+07</td>
<td>GLENDALE W &amp; P</td>
<td>PROTECT-IN-PLACE</td>
</tr>
<tr>
<td>10</td>
<td>FIBER</td>
<td>UNDERGROUND</td>
<td>STA 3316+04/ GRANGE ST.</td>
<td>PACIFIC BELL/AT&amp;T</td>
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<tr>
<td>11</td>
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<td>115 KV OVERHEAD</td>
<td>STA 3316+04/ GRANGE ST.</td>
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<tr>
<td>13</td>
<td>GAS</td>
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<td>STA 3317+36/ GRANGE ST.</td>
<td>SCG</td>
<td>EXTEND CASING FROM ROW TO ROW</td>
</tr>
<tr>
<td>14</td>
<td>ELECTRICAL</td>
<td>9-6&quot; DUCTS IN 43' OF 3670A CSG</td>
<td>STA 3318+21/ GRANGE ST.</td>
<td>GLENDALE W &amp; P</td>
<td>EXTEND CASING FROM ROW TO ROW</td>
</tr>
<tr>
<td>15</td>
<td>GAS</td>
<td>6&quot; IN 80' OF 33' CSG</td>
<td>STA 3319+27/ GRANGE ST.</td>
<td>SCMILL CANYON</td>
<td>EXTEND CASING FROM ROW TO ROW</td>
</tr>
<tr>
<td>16</td>
<td>WATER</td>
<td>12&quot; IN 80' OF 24&quot; CMP CSG</td>
<td>STA 3319+49/ GRANGE ST.</td>
<td>GLENDALE W &amp; P</td>
<td>EXTEND CASING FROM ROW TO ROW</td>
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<td>17</td>
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<td>99 KV OVERHEAD</td>
<td>STA 3319+49/ GRANGE ST.</td>
<td>GLENDALE W &amp; P</td>
<td>RAISE/RELOCATE</td>
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**

**BURBANK TO LOS ANGELES**

**OPTION B REVISED ALIGNMENT - REVISED FINAL PED**

**COMPOSITE UTILITIES PLAN**

**HSR2 3333+00 TO HSR2 3346+00**

---

**MAJOR UTILITY CONFLICTS**

<table>
<thead>
<tr>
<th>No.</th>
<th>TYPE OF UTILITY</th>
<th>SIZE / MATERIAL</th>
<th>LOCATION</th>
<th>OWNER</th>
<th>DISPOSITION</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>OIL</td>
<td>20&quot;</td>
<td>STA 3143+00 TO 3684+00</td>
<td>PACIFIC PIPELINE</td>
<td>RELOCATE</td>
</tr>
<tr>
<td>2</td>
<td>FIBER</td>
<td>4-2&quot; HOE DUCTS</td>
<td>STA 3143+00 TO 3684+00</td>
<td>GNEST-CENTURY LINKS</td>
<td>RELOCATE</td>
</tr>
<tr>
<td>3</td>
<td>FIBER</td>
<td>4-2&quot; HOE DUCTS</td>
<td>STA 3143+00 TO 3684+00</td>
<td>VELVERIZON-AT&amp;T-SPRINT</td>
<td>RELOCATE</td>
</tr>
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<td>4</td>
<td>FIBER</td>
<td>4-2&quot; HOE DUCTS</td>
<td>STA 3143+00 TO 3684+00</td>
<td>GNEST-WFS-METRO</td>
<td>RELOCATE</td>
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<tr>
<td>5</td>
<td>TELEPHONE</td>
<td>2-4&quot; CONDUIT IN 100' HDPE PIPE</td>
<td>STA 3338+67 TO 3344+45</td>
<td>AT&amp;T</td>
<td>RELOCATE, ADD CSG ROW TO ROW</td>
</tr>
<tr>
<td>6</td>
<td>STORM DRAIN</td>
<td>30&quot; RCB</td>
<td>STA 3338+67 TO 3344+45</td>
<td>METRO</td>
<td>EXTEND CASING</td>
</tr>
<tr>
<td>7</td>
<td>SEWER</td>
<td>18&quot; DIP IN 200' OF 30&quot; STL CSD</td>
<td>STA 3338+67 TO 3344+45</td>
<td>GLENDALE DPW</td>
<td>PROTECT-IN-PLACE</td>
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</tbody>
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MAJOR UTILITY CONFLICTS

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<tr>
<td>1</td>
<td>OIL</td>
<td>20&quot; OIL LINE</td>
<td>STA 3143+00 TO 3684+00</td>
<td>PACIFIC PIPELINE</td>
<td>RELOCATE</td>
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<tr>
<td>2</td>
<td>FIBER</td>
<td>4-2&quot; HOPE DUCTS</td>
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<td>OUEST(CENTURY LINK)</td>
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<tr>
<td>3</td>
<td>FIBER</td>
<td>4-2&quot; HOPE DUCTS</td>
<td>STA 3143+00 TO 3684+00</td>
<td>MCI(VERIZON)-AT&amp;T-SPRINT</td>
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<tr>
<td>4</td>
<td>STORM DRAIN</td>
<td>48&quot; RCP</td>
<td>STA 3146+00/ W WILSON AVE.</td>
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<td>PROTECT IN PLACE</td>
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<tr>
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<td>GAS</td>
<td>4&quot; IN 6&quot; CSG</td>
<td>STA 3157+00/ BROADWAY ST./ARAZ ST.</td>
<td>SC GAS TRANSMISSION</td>
<td>PROTECT, ADD CSG FROM ROW TO ROW</td>
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<tr>
<td>6</td>
<td>STORM DRAIN</td>
<td>51&quot; RCP</td>
<td>STA 3354+87/ IVY ST.</td>
<td>LOS ANGELES CO. CO</td>
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<tr>
<td>7</td>
<td>SEWER</td>
<td>15&quot; VCP</td>
<td>STA 3247+67/ WILSON AVE.</td>
<td>GLENDALE DPW</td>
<td>PROTECT-IN-PLACE</td>
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
BURBANK TO LOS ANGELES
OPTION B REVISED ALIGNMENT - REVISED FINAL PEP
COMPOSITE UTILITIES PLAN
HSR2 3346+00 TO HSR2 3359+00
MAJOR UTILITY CONFLICTS

<table>
<thead>
<tr>
<th>No.</th>
<th>TYPE OF UTILITY</th>
<th>SIZE / MATERIAL</th>
<th>LOCATION</th>
<th>OWNER</th>
<th>DISPOSITION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>OIL</td>
<td>20&quot; OIL LINE</td>
<td>STA 3143+00 TO 3684+00</td>
<td>PACIFIC PIPELINE</td>
<td>RETROFIT</td>
</tr>
<tr>
<td>2</td>
<td>FIBER</td>
<td>4-2&quot; HDPE DUCTS</td>
<td>STA 3143+00 TO 3684+00</td>
<td>ONEST STREET LIGHTS</td>
<td>RETROFIT</td>
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<tr>
<td>3</td>
<td>FIBER</td>
<td>4-2&quot; HDPE DUCTS</td>
<td>STA 3143+00 TO 3684+00</td>
<td>COMP AS RAMPS/SPRINT</td>
<td>RETROFIT</td>
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<td>4</td>
<td>FIBER</td>
<td>4-2&quot; HDPE DUCTS</td>
<td>STA 3143+00 TO 3684+00</td>
<td>ONEST STREET LIGHTS</td>
<td>RETROFIT</td>
</tr>
<tr>
<td>5</td>
<td>GAS</td>
<td>2&quot; IN CSG</td>
<td>STA 3359+00 TO 3684+00</td>
<td>SC GAS DISTRIBUTION</td>
<td>PROTECT-IN-PLACE</td>
</tr>
<tr>
<td>6</td>
<td>SEWER</td>
<td>21&quot; VCP IN CONCRETE CSG</td>
<td>STA 3359+00 TO 3684+00</td>
<td>GLENDALE DPW</td>
<td>ADD CSG FROM ROW TO ROW</td>
</tr>
<tr>
<td>7</td>
<td>SEWER</td>
<td>30&quot; VCP</td>
<td>STA 3359+00 TO 3684+00</td>
<td>GLENDALE DPW</td>
<td>PROTECT-IN-PLACE</td>
</tr>
<tr>
<td>8</td>
<td>STORM DRAIN</td>
<td>30&quot; RCP</td>
<td>STA 3359+00 TO 3684+00</td>
<td>CALTRANS</td>
<td>PROTECT-IN-PLACE</td>
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<tr>
<td>9</td>
<td>SEWER</td>
<td>20&quot; OIL LINE</td>
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<td>PACIFIC PIPELINE</td>
<td>RETROFIT</td>
</tr>
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<td>FIBER</td>
<td>4-2&quot; HDPE DUCTS</td>
<td>STA 3359+00 TO 3684+00</td>
<td>SPRING STREET LIGHTS</td>
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<td>FIBER</td>
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<td>STA 3359+00 TO 3684+00</td>
<td>SPRING STREET LIGHTS</td>
<td>RETROFIT</td>
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<td>STA 3359+00 TO 3684+00</td>
<td>SPRING STREET LIGHTS</td>
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<td>4-2&quot; HDPE DUCTS</td>
<td>STA 3359+00 TO 3684+00</td>
<td>SPRING STREET LIGHTS</td>
<td>RETROFIT</td>
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
BURBANK TO LOS ANGELES
OPTION B REVISED ALIGNMENT - REVISED FINAL PEOB
COMPOSITE UTILITIES PLAN
HSR2 3359+00 TO HSR2 3372+00

SCALE 1"=50' HOR.
SCALE APPLICABLE FOR FULL SIZE ONLY
### Major Utility Conflicts

<table>
<thead>
<tr>
<th>No.</th>
<th>Type of Utility</th>
<th>Size / Material</th>
<th>Location</th>
<th>Owner</th>
<th>Disposition</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Oil</td>
<td>20&quot; Oil Line</td>
<td>STA 3143+00 to 3684+00</td>
<td>Pacific Pipeline</td>
<td>Relocate</td>
</tr>
<tr>
<td>2</td>
<td>Fiber</td>
<td>4-2&quot; HDPE ducts</td>
<td>STA 3143+00 to 3684+00</td>
<td>QWEST (CenturyLink)</td>
<td>Relocate</td>
</tr>
<tr>
<td>3</td>
<td>Fiber</td>
<td>4-2&quot; HDPE ducts</td>
<td>STA 3143+00 to 3684+00</td>
<td>MCI (Verizon)-AT&amp;T-Sprint</td>
<td>Relocate</td>
</tr>
<tr>
<td>4</td>
<td>Sewer</td>
<td>30&quot; VCP in CSG</td>
<td>STA 3372+03 to 3684+00</td>
<td>Glendale DPW</td>
<td>Extend CSG from Row to Row</td>
</tr>
<tr>
<td>5</td>
<td>Sewer</td>
<td>21&quot; VCP in CSG</td>
<td>STA 3372+19 to W Elk Ave</td>
<td>Crescenta Valley</td>
<td>Protect in Place</td>
</tr>
<tr>
<td>6</td>
<td>Storm drain</td>
<td>48&quot; RCP</td>
<td>STA 3372+59 to W Elk Ave</td>
<td>Los Angeles CCFC</td>
<td>Add CSG from Row to Row</td>
</tr>
<tr>
<td>7</td>
<td>Telephone</td>
<td>48&quot; conduit</td>
<td>STA 3372+59 to W Elk Ave</td>
<td>Pacific Bell/AT&amp;T</td>
<td>Protect in Place</td>
</tr>
<tr>
<td>8</td>
<td>Gas</td>
<td>4&quot; in T3 of 20&quot; CSG</td>
<td>STA 3372+54 to W Elk Ave</td>
<td>SCE</td>
<td>Extend CSG from Row to Row</td>
</tr>
<tr>
<td>9</td>
<td>Gas</td>
<td>4&quot; in T3 of 20&quot; CSG</td>
<td>STA 3372+54 to W Elk Ave</td>
<td>LG T2 (LADWP)</td>
<td>Extend CSG from Row to Row</td>
</tr>
<tr>
<td>10</td>
<td>Gas</td>
<td>4&quot; in T3 of 20&quot; CSG</td>
<td>STA 3372+54 to W Elk Ave</td>
<td>MCI (Verizon)-AT&amp;T-Sprint</td>
<td>Relocate</td>
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<tbody>
<tr>
<td>1</td>
<td>Oil</td>
<td>20&quot;</td>
<td>STA 3143+00 TO 3684+00</td>
<td>Pacific Pipeline</td>
<td>Relocate</td>
</tr>
<tr>
<td>2</td>
<td>Fiber</td>
<td>4&quot; HDPE Ducts</td>
<td>STA 3143+00 TO 3684+00</td>
<td>Qwest (CenturyLink)</td>
<td>Relocate</td>
</tr>
<tr>
<td>3</td>
<td>Fiber</td>
<td>Underground Ducts in CSG</td>
<td>STA 3143+00 TO 3684+00</td>
<td>Verizon</td>
<td>Relocate</td>
</tr>
<tr>
<td>4</td>
<td>Fiber</td>
<td>4&quot; HDPE Ducts</td>
<td>STA 3143+00 TO 3684+00</td>
<td>Qwest</td>
<td>Relocate</td>
</tr>
<tr>
<td>5</td>
<td>Gas</td>
<td>2&quot; in 80' of 4&quot; CSG</td>
<td>STA 3404+53</td>
<td>SC Gas Distribution</td>
<td>Extend casing from row to row</td>
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<tr>
<td>6</td>
<td>Sewer</td>
<td>33&quot; VCP in 67' of 60&quot; RCP CSG</td>
<td>STA 3404+53</td>
<td>Glendale DPW</td>
<td>Extend casing from row to row</td>
</tr>
<tr>
<td>7</td>
<td>Sewer</td>
<td>18&quot; VCP in CSG</td>
<td>STA 3404+53</td>
<td>Glendale DPW</td>
<td>Protect-in-Place</td>
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<tr>
<td>8</td>
<td>Telephone</td>
<td>2 ducts</td>
<td>STA 3404+53</td>
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<tr>
<td>9</td>
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<td>STA 3308+00 TO 3427+00</td>
<td>Kelly Watson</td>
<td>Protect-in-Place</td>
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<td>10</td>
<td>Telephone</td>
<td>Overhead Cable</td>
<td>STA 3408+00 TO 3684+00</td>
<td>SCE</td>
<td>Relocate</td>
</tr>
<tr>
<td>11</td>
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<td>SCE</td>
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<tr>
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<td>108</td>
<td>STA 3404+06 TO 3405+13</td>
<td>LA Co. Dept. of Public W.</td>
<td>Relocate</td>
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Refer to proposed utility relocation dwg. no. UT-07113 for utility information at roadway improvement.
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<tr>
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<td>20&quot; in 125' of 24&quot; CSG</td>
<td>STA 3143+00 TO 3684+00</td>
<td>Pacific Pipeline</td>
<td>Relocate</td>
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<tr>
<td>2</td>
<td>Fiber</td>
<td>4-2&quot; HDPE Ducts in 125' of CSG</td>
<td>STA 3143+00 TO 3684+00</td>
<td>AT&amp;T</td>
<td>Relocate</td>
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<tr>
<td>3</td>
<td>Fiber</td>
<td>Underground Ducts in CSG</td>
<td>STA 3143+00 TO 3684+00</td>
<td>AT&amp;T</td>
<td>Relocate</td>
</tr>
<tr>
<td>4</td>
<td>Fiber</td>
<td>4-2&quot; HDPE Ducts</td>
<td>STA 3143+00 TO 3684+00</td>
<td>AT&amp;T</td>
<td>Relocate</td>
</tr>
<tr>
<td>5</td>
<td>Storm Drain</td>
<td>14&quot; RCB - 2 Culverts</td>
<td>STA 3414+79/3143+00 TO 3684+00</td>
<td>Metro</td>
<td>Relocate</td>
</tr>
<tr>
<td>6</td>
<td>Electrical</td>
<td>69 KV Overhead</td>
<td>STA 3420+06 TO 3429+52</td>
<td>SCE</td>
<td>Relocate</td>
</tr>
<tr>
<td>7</td>
<td>Oil</td>
<td>14&quot; Oil</td>
<td>STA 3414+79 TO 3684+00</td>
<td>Kelly Watson</td>
<td>Protect-In-Place</td>
</tr>
<tr>
<td>8</td>
<td>Telephone</td>
<td>Overhead Cable</td>
<td>STA 3411+00 TO 3422+35</td>
<td>TBD</td>
<td>Relocate</td>
</tr>
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</table>

**NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY**
MAJOR UTILITY CONFLICTS

<table>
<thead>
<tr>
<th>No.</th>
<th>Type of Utility</th>
<th>Size / Material</th>
<th>Location</th>
<th>Owner</th>
<th>Disposition</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Oil</td>
<td>20&quot;</td>
<td>STA 3143+00 to 3684+00</td>
<td>Pacific Pipeline</td>
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<tr>
<td>2</td>
<td>Fiber</td>
<td>4-2&quot; HDPE Ducts in 125' of CSG</td>
<td>STA 3143+00 to 3684+00</td>
<td>Qwest - CenturyLink</td>
<td>Relocate</td>
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<tr>
<td>3</td>
<td>Fiber</td>
<td>4-2&quot; HDPE Ducts</td>
<td>STA 3143+00 to 3684+00</td>
<td>Qwest - MCI</td>
<td>Relocate</td>
</tr>
<tr>
<td>4</td>
<td>Fiber</td>
<td>4-2&quot; HDPE Ducts</td>
<td>STA 3143+00 to 3684+00</td>
<td>Qwest - MFS - Metro</td>
<td>Relocate</td>
</tr>
<tr>
<td>5</td>
<td>Water</td>
<td>12&quot; in 98' of 24&quot; CSG</td>
<td>STA 3424+00 to 3437+00</td>
<td>City of Glendale</td>
<td>Relocate</td>
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<tr>
<td>6</td>
<td>Storm Drain</td>
<td>45&quot; RCP</td>
<td>STA 3425+60 to 3437+81</td>
<td>City of Los Angeles</td>
<td>Relocate, Add Catch Basins to Tie Into Existing</td>
</tr>
<tr>
<td>7</td>
<td>Storm Drain</td>
<td>45&quot; RCP</td>
<td>STA 3425+60 to 3437+81</td>
<td>City of Los Angeles</td>
<td>Relocate, Add Catch Basins to Tie Into Existing</td>
</tr>
<tr>
<td>8</td>
<td>Electrical</td>
<td>69 kV</td>
<td>STA 3413+43 to 3429+52</td>
<td>SCE</td>
<td>Relocate</td>
</tr>
<tr>
<td>9</td>
<td>Oil</td>
<td>14&quot;</td>
<td>STA 3143+00 to 3684+00</td>
<td>Pacific Gas</td>
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</tr>
<tr>
<td>10</td>
<td>Telephone</td>
<td>Overhead Cable</td>
<td>STA 3424+00 to 3437+00</td>
<td>Kelly Watson</td>
<td>Protect-In-Place</td>
</tr>
<tr>
<td>11</td>
<td>Sewer</td>
<td>TBD</td>
<td>STA 3429+61 to 3431+00</td>
<td>TBD</td>
<td>Protect-In-Place</td>
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Refer to Proposed Utility Relocation Dwg. No. UT-D7121 for Utility Information at Roadway Improvement
## Major Utility Conflicts

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<th>Disposition</th>
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<tbody>
<tr>
<td>1</td>
<td>Oil</td>
<td>20&quot; Oil Line</td>
<td>STA 3434+00 to 3684+00</td>
<td>PACIFIC PIPELINE</td>
<td>Relocate</td>
</tr>
<tr>
<td>2</td>
<td>Fiber</td>
<td>4-2&quot; HDPE ducts in 125' of CSG</td>
<td>STA 3434+00 to 3684+00</td>
<td>QWEST (CENTURYLINK)</td>
<td>Relocate</td>
</tr>
<tr>
<td>3</td>
<td>Fiber</td>
<td>4-2&quot; HDPE ducts</td>
<td>STA 3434+00 to 3684+00</td>
<td>VERISIGN-Sprint</td>
<td>Relocate</td>
</tr>
<tr>
<td>4</td>
<td>Fiber</td>
<td>4-2&quot; HDPE ducts</td>
<td>STA 3434+00 to 3684+00</td>
<td>QWEST-MFS-METRO</td>
<td>Relocate</td>
</tr>
<tr>
<td>5</td>
<td>Storm Drain</td>
<td>12&quot; RCP</td>
<td>STA 3438+13' / S CENTRAL AVE</td>
<td>LOS ANGELES CO. FCD</td>
<td>Protect-in-place</td>
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</table>
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<th>Disposition</th>
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</thead>
<tbody>
<tr>
<td>1. Oil</td>
<td>20&quot; in 122' of 36&quot; CSG</td>
<td>STA 3143+00 to 3684+00</td>
<td>Pacific Pipeline</td>
<td>Relocate</td>
</tr>
<tr>
<td>2. Fiber</td>
<td>4-2&quot; Hose Ducts in CSG</td>
<td>STA 3143+00 to 3684+00</td>
<td>Metrolink</td>
<td>Relocate</td>
</tr>
<tr>
<td>3. Fiber</td>
<td>4-2&quot; Hose Ducts</td>
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<td>Relocate</td>
</tr>
<tr>
<td>4. Fiber</td>
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</tr>
<tr>
<td>5. Storm Drain</td>
<td>18&quot; RCP STA 3452+85</td>
<td>Metro</td>
<td></td>
<td>Extend and encase row to row</td>
</tr>
<tr>
<td>6. Storm Drain</td>
<td>24&quot; RCP STA 3454+87</td>
<td>City of Los Angeles</td>
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</tr>
<tr>
<td>7. Storm Drain</td>
<td>24&quot; RCP STA 3455+65</td>
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</tr>
<tr>
<td>8. Fiber</td>
<td>Underground fiber cable</td>
<td>3454+36</td>
<td>AT&amp;T</td>
<td>Protect-in-place</td>
</tr>
<tr>
<td>9. SD Pump House</td>
<td>13' x 16'</td>
<td>STA 3454+39 to 3454+55</td>
<td>City of Los Angeles</td>
<td>Protect-in-place</td>
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</tbody>
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Refer to Proposed Utility Relocation Dwg. No. UT-D7131 for Utility Information at Roadway Improvement.
MAJOR UTILITY CONFLICTS

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<th>TYPE OF UTILITY</th>
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<th>DISPOSITION</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>OIL</td>
<td>STA 3143+00 TO 3684+00</td>
<td>PACIFIC PIPELINE</td>
<td>RELOCATE</td>
</tr>
<tr>
<td>2</td>
<td>FIBER</td>
<td>STA 3143+00 TO 3684+00</td>
<td>QWEST-CENTURYLINK</td>
<td>RELOCATE</td>
</tr>
<tr>
<td>3</td>
<td>FIBER</td>
<td>STA 3143+00 TO 3684+00</td>
<td>MCI(VERIZON)-AT&amp;T-SPRINT</td>
<td>RELOCATE</td>
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<tr>
<td>4</td>
<td>WATER</td>
<td>STA 3668+32/ TBYRN ST,</td>
<td>GLENDALE DPW</td>
<td>ADD CSG FROM ROW TO ROW</td>
</tr>
<tr>
<td>5</td>
<td>STORM DRAIN</td>
<td>STA 3468+46/ TBYRN ST,</td>
<td>CITY OF LOS ANGELES</td>
<td>PROTECT-IN-PLACE</td>
</tr>
<tr>
<td>6</td>
<td>GAS</td>
<td>STA 3468+38/ TBYRN ST,</td>
<td>SC GAS DISTRIBUTION</td>
<td>PROTECT-IN-PLACE</td>
</tr>
<tr>
<td>10</td>
<td>ELECTRICAL</td>
<td>STA 3463+00 TO 3480+51</td>
<td>GLENDALE N &amp; P</td>
<td>PROTECT-IN-PLACE</td>
</tr>
</tbody>
</table>

E PROPOSED TERRY LUMBER YARD SPUR
E PROPOSED METROLINK (MT01)
E PROPOSED METROLINK (MT02)
120' OF 16" STL CSG

PROPOSED TERRY LUMBER YARD SPUR TRACK
EXIST ROW
ON ELECTRIC GLENDALE N & P
E PROPOSED TERRY LUMBER YARD SPUR
E PROPOSED METROLINK (MT01)
E PROPOSED METROLINK (MT02)
120' OF 16" STL CSG

PROPOSED SIGNAL HOUSE
SEE DRAWING NO. TC-0408

PROPOSED TCE

PROPOSED HSR1
PROPOSED HSR2

CASITAS AVE

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MAJOR UTILITY CONFLICTS

<table>
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<tr>
<th>TYPE OF UTILITY</th>
<th>SIZE/MATERIAL</th>
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<th>OWNER</th>
<th>DISPOSITION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>OIL</td>
<td>STA 3143+00 TO 3684+00</td>
<td>PACIFIC PIPELINE</td>
<td>RELOCATE</td>
</tr>
<tr>
<td>2</td>
<td>FIBER</td>
<td>STA 3143+00 TO 3684+00</td>
<td>SPRINT (CENTURYLINK)</td>
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</tr>
<tr>
<td>3</td>
<td>FIBER</td>
<td>STA 3143+00 TO 3684+00</td>
<td>TELCUTVERIZON/T-METRO</td>
<td>RELOCATE</td>
</tr>
<tr>
<td>4</td>
<td>FIBER</td>
<td>STA 3143+00 TO 3684+00</td>
<td>WINDTURBINE/T-METRO</td>
<td>RELOCATE</td>
</tr>
<tr>
<td>5</td>
<td>ELECTRICAL</td>
<td>STA 3463+49 TO 3480+51</td>
<td>LADWP-P</td>
<td>PROTECT-IN-PLACE</td>
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</table>

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<th>OWNER</th>
<th>DISPOSITION</th>
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<tbody>
<tr>
<td>1 OIL</td>
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<td>PACIFIC PIPELINE</td>
<td>RELocate</td>
</tr>
<tr>
<td>2 FIBER</td>
<td>4-2&quot; HDPE DUCTS IN CSG</td>
<td>STA 3143+00 TO 3684+00</td>
<td>WELLS Enterprises-AT&amp;SF</td>
<td>RELocate</td>
</tr>
<tr>
<td>3 FIBER</td>
<td>4-2&quot; HDPE DUCTS IN CSG</td>
<td>STA 3143+00 TO 3684+00</td>
<td>WELLS Enterprises-AT&amp;SF</td>
<td>RELocate</td>
</tr>
<tr>
<td>4 FIBER</td>
<td>4-2&quot; HDPE DUCTS IN CSG</td>
<td>STA 3143+00 TO 3684+00</td>
<td>WELLS Enterprises-AT&amp;SF</td>
<td>RELocate</td>
</tr>
<tr>
<td>5 WATER</td>
<td>6&quot; MM/CL</td>
<td>STA 3143+41/ FLETCHER DR.</td>
<td>LADWP</td>
<td>RELocate</td>
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<tr>
<td>6 ELECTRICAL</td>
<td>OVERHEAD WIRE</td>
<td>STA 3143+42/ FLETCHER DR.</td>
<td>LADWP</td>
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<tr>
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<td>LADWP</td>
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<td>8 DCP 30</td>
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<td>STA 3143+45/ FLETCHER DR.</td>
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<td>PROTECT-IN-PLACE</td>
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<td>30&quot; DIP IN 40&quot; CSG</td>
<td>STA 3143+55/ FLETCHER DR.</td>
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<tr>
<td>11 GAS</td>
<td>6&quot; IN CSG</td>
<td>STA 3143+57/ FLETCHER DR.</td>
<td>SC GAS DISTRIBUTION</td>
<td>ADD CASING FROM ROW TO ROW</td>
</tr>
<tr>
<td>12 ELECTRICAL</td>
<td>69 KV OVERHEAD</td>
<td>STA 3143+58/ FLETCHER DR.</td>
<td>LADWP</td>
<td>PROTECT-IN-PLACE</td>
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<tr>
<td>13 WATER</td>
<td>8&quot; PVC IN CSG</td>
<td>STA 3143+59/ FLETCHER DR.</td>
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<tr>
<td>14 STORM DRAIN</td>
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<td>15 STORM DRAIN</td>
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<td>16 GAS R</td>
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<td>OVERHEAD CABLE</td>
<td>STA 3143+65/ FLETCHER DR.</td>
<td>AT&amp;T LOCAL</td>
<td>RELocate UNDERGROUND, ADD CASING ROW TO ROW</td>
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MAJOR UTILITY CONFLICTS

<table>
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<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>OIL</td>
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<td>STA 3143+00 TO 3684+00</td>
<td>PACIFIC PIPELINE</td>
</tr>
<tr>
<td>2</td>
<td>FIBER</td>
<td>4-2&quot; HDPE DUCTS IN CSG</td>
<td>STA 3143+00 TO 3684+00</td>
<td>MCIVERIZON-AT&amp;T-SPRINT</td>
</tr>
<tr>
<td>3</td>
<td>FIBER</td>
<td>4-2&quot; HDPE DUCTS IN CSG</td>
<td>STA 3143+00 TO 3684+00</td>
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</tr>
<tr>
<td>4</td>
<td>SEWER</td>
<td>8&quot; VCP</td>
<td>STA 3505+41</td>
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<tr>
<td>5</td>
<td>SEWER</td>
<td>15&quot; VCP ABAN</td>
<td>STA 3507+54 TO 3508+40</td>
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<tr>
<td>6</td>
<td>STORM DRAIN</td>
<td>10Wx12H RCB</td>
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<tbody>
<tr>
<td>Oil</td>
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<td>STA 3143+00 to 3684+00</td>
<td>Pacific Pipeline</td>
<td>Relocate</td>
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<tr>
<td>Fiber</td>
<td>4-2&quot; HDPE Ducts In CSG</td>
<td>STA 3143+00 to 3684+00</td>
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<td>STA 3143+00 to 3684+00</td>
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<td>Relocate</td>
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<td>STA 3413+00 TO 3684+00</td>
<td>PACIFIC PIPELINE</td>
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<tr>
<td>FIBER</td>
<td>4-2&quot; HDPE DUCTS IN CSG</td>
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<tr>
<td>FIBER</td>
<td>4-2&quot; HDPE DUCTS IN CSG</td>
<td>STA 3413+00 TO 3684+00</td>
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<td>RELOCATE</td>
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<tr>
<td>FIBER</td>
<td>4-2&quot; HDPE DUCTS IN CSG</td>
<td>STA 3413+00 TO 3684+00</td>
<td>QWEST-MFS-METRO</td>
<td>RELOCATE</td>
</tr>
<tr>
<td>SEWER</td>
<td>12' INTERCEPTOR</td>
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<tr>
<td>STORM DRAIN</td>
<td>12' RC ARCH</td>
<td>STA 3534+56</td>
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<tr>
<td>STORM DRAIN</td>
<td>104&quot;X108 RCB</td>
<td>STA 3539+06</td>
<td>LOS ANGELES CO. FCD</td>
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<tbody>
<tr>
<td>1. Oil</td>
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<td>STA 341+00 TO 3684+00</td>
<td>Pacific Pipeline</td>
<td>Relocate</td>
</tr>
<tr>
<td>2. Fiber</td>
<td>4&quot;-2&quot; HDPE Ducts in CSG</td>
<td>STA 3413+00 TO 3684+00</td>
<td>AT&amp;T-SPRINT</td>
<td>Relocate</td>
</tr>
<tr>
<td>3. Fiber</td>
<td>4&quot;-2&quot; HDPE Ducts in CSG</td>
<td>STA 3413+00 TO 3684+00</td>
<td>MCI-VERIZON</td>
<td>Relocate</td>
</tr>
<tr>
<td>4. Fiber</td>
<td>4&quot;-2&quot; HDPE Ducts in CSG</td>
<td>STA 3413+00 TO 3684+00</td>
<td>AT&amp;T-SPRINT</td>
<td>Relocate</td>
</tr>
<tr>
<td>5. Storm Drain</td>
<td>5.5W x 3.75H RCB</td>
<td>STA 3546+59</td>
<td>LOS ANGELES CO. FCD</td>
<td>PROTECT-IN-PLACE</td>
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</table>
MAJOR UTILITY CONFLICTS

<table>
<thead>
<tr>
<th>TYPE OF UTILITY</th>
<th>SIZE/MATERIAL</th>
<th>LOCATION</th>
<th>OWNER</th>
<th>DISPOSITION</th>
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<tbody>
<tr>
<td>1 OIL</td>
<td>20&quot; STL PIPE</td>
<td>STA 3456+37 TO 3660+00</td>
<td>PACIFIC PIPELINE</td>
<td>RELOCATE</td>
</tr>
<tr>
<td>2 FIBER</td>
<td>4-2&quot; HDPE DUCTS IN CSG</td>
<td>STA 3456+37 TO 3660+00</td>
<td>QWEST (CENTURYLINK)</td>
<td>RELOCATE</td>
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<tr>
<td>3 FIBER</td>
<td>4-2&quot; HDPE DUCTS IN CSG</td>
<td>STA 3448+20 TO 3660+00</td>
<td>MCI(VERIZON)-AT&amp;T-SPRINT</td>
<td>RELOCATE</td>
</tr>
<tr>
<td>4 FIBER</td>
<td>4-2&quot; HDPE DUCTS IN CSG</td>
<td>STA 3220+00 TO 3625+00</td>
<td>QWEST-MFS-METRO</td>
<td>RELOCATE</td>
</tr>
<tr>
<td>5 OIL</td>
<td>10&quot; ABAN</td>
<td>STA 3551+61 TO 3635+00</td>
<td>KINDER MORGAN</td>
<td>REMOVE INTERFERING PORTIONS</td>
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<tr>
<td>6 GAS</td>
<td>6&quot; IN 8&quot; CSG</td>
<td>STA 3562+36</td>
<td>SC GAS</td>
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### Major Utility Conflicts

<table>
<thead>
<tr>
<th>Type of Utility</th>
<th>Size/Material</th>
<th>Location</th>
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<th>Disposition</th>
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<tbody>
<tr>
<td>Oil</td>
<td>20&quot; STL Pipe</td>
<td>STA 3456+37 to 3660+00</td>
<td>Pacific Pipeline</td>
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</tr>
<tr>
<td>Fiber</td>
<td>4-2&quot; HDPE Ducts in CSG</td>
<td>STA 3456+37 to 3660+00</td>
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</tr>
<tr>
<td>Fiber</td>
<td>4-2&quot; HDPE Ducts in CSG</td>
<td>STA 3448+20 to 3660+00</td>
<td>MCI (Verizon-AT&amp;T-Sprint)</td>
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<td>Fiber</td>
<td>4-2&quot; HDPE Ducts in CSG</td>
<td>STA 3220+00 to 3625+00</td>
<td>Qwest-MFS-Metro</td>
<td>Relocate</td>
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<tr>
<td>Oil</td>
<td>10&quot; ABN</td>
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<td>Kinder Morgan</td>
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<tr>
<td>Storm Drain</td>
<td>48&quot; RCP</td>
<td>STA 3571+37 to 3571+55</td>
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<td>Storm Drain</td>
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<td>City of Los Angeles</td>
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<tr>
<td>Storm Drain</td>
<td>30&quot; RCP &amp; Catch Basins</td>
<td>STA 3570+96 to 3571+75</td>
<td>City of Los Angeles</td>
<td>Protect in Place to Replace Catch Basins</td>
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**

**BURBANK TO LOS ANGELES**

**OPTION B REvised ALIGNMENT - REvised FINAL**

**PEPD**

**COMPOSITE UTILITIES PLAN**

**HSR 3580+00 TO HSR 3593+00**

---

**MAJOR UTILITY CONFLICTS**

<table>
<thead>
<tr>
<th>TYPE OF UTILITY</th>
<th>SIZE/MATERIAL</th>
<th>LOCATION</th>
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<th>DISPOSITION</th>
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</thead>
<tbody>
<tr>
<td>1. OIL</td>
<td>20&quot; STL PIPE</td>
<td>STA 3456+37 TO 3660+00</td>
<td>PACIFIC PIPELINE</td>
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<td>2. FIBER</td>
<td>4-2&quot; HDPE DUCTS IN CSG</td>
<td>STA 3456+37 TO 3660+00</td>
<td>QWEST [CENTURYLINK]</td>
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<td>3. FIBER</td>
<td>4-2&quot; HDPE DUCTS IN CSG</td>
<td>STA 3448+20 TO 3660+00</td>
<td>MCI(VERIZON) - AT&amp;T - SPRINT</td>
<td>RELOCATE</td>
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<tr>
<td>4. FIBER</td>
<td>4-2&quot; HDPE DUCTS IN CSG</td>
<td>STA 3220+00 TO 3660+00</td>
<td>QWEST-MFS-METRO</td>
<td>RELOCATE</td>
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<tr>
<td>5. OIL</td>
<td>10&quot; ABAN</td>
<td>STA 3551+61 TO 3635+00</td>
<td>KINDER MORGAN</td>
<td>REMOVE INTERFERING PORTIONS</td>
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<tr>
<td>6. STORM DRAIN</td>
<td>48&quot; RCP</td>
<td>STA 3582+92 TO 3583+50</td>
<td>LACFCD</td>
<td>ENCASE UNDER ACCESS ROAD</td>
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<tr>
<td>7. WATER</td>
<td>12&quot;</td>
<td>STA 3576+75 TO 3626+50</td>
<td>LAUMP</td>
<td>RELOCATE</td>
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Refer to Volume 5 sheets UT-1001 to UT-1004 for CMF Utility Improvements.
### Major Utility Conflicts

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</thead>
<tbody>
<tr>
<td>1. Oil</td>
<td>20&quot; STL Pipe</td>
<td>STA 3456+37 to 3660+00</td>
<td>Pacific Pipeline</td>
<td>Relocate</td>
</tr>
<tr>
<td>2. Fiber</td>
<td>4-2&quot; HDPE Ducts in CSG</td>
<td>STA 3456+37 to 3660+00</td>
<td>Qwest (CenturyLink)</td>
<td>Relocate</td>
</tr>
<tr>
<td>3. Fiber</td>
<td>2-4&quot; HDPE Ducts in CSG</td>
<td>STA 3448+20 to 3660+00</td>
<td>AT&amp;T-Sprint</td>
<td>Relocate</td>
</tr>
<tr>
<td>4. Fiber</td>
<td>4-2&quot; HDPE Ducts in CSG</td>
<td>STA 3220+00 to 3625+00</td>
<td>Qwest-MFS-Metro</td>
<td>Relocate</td>
</tr>
<tr>
<td>5. Oil</td>
<td>10&quot; ABAN</td>
<td>STA 3551+61 to 3635+00</td>
<td>Kinder Morgan</td>
<td>Remove interfering portions</td>
</tr>
<tr>
<td>6. Electrical</td>
<td>230KV</td>
<td>STA 3604+33 to 3655+59</td>
<td>LaMnP</td>
<td>Project-in-place</td>
</tr>
<tr>
<td>7. Sewer</td>
<td>TBD</td>
<td>STA 3593+55 to 3603+00</td>
<td>SCRRA</td>
<td>Relocate</td>
</tr>
<tr>
<td>8. Water</td>
<td>TBD</td>
<td>STA 3593+77 to 3603+06</td>
<td>SCRRA</td>
<td>Relocate</td>
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<tr>
<td>9. Water</td>
<td>TBD</td>
<td>STA 3578+47 to 3610+07</td>
<td>SCRRA</td>
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<tr>
<td>10. Sewer</td>
<td>TBD</td>
<td>STA 3593+41 to 3603+04</td>
<td>SCRRA</td>
<td>Relocate interfering portions</td>
</tr>
</tbody>
</table>

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</thead>
<tbody>
<tr>
<td>OIL</td>
<td>20&quot; IN 110' OF 36&quot; CSG</td>
<td>STA 3488+37 TO 3660+00</td>
<td>PACIFIC PIPELINE</td>
<td>RELOCATE</td>
</tr>
<tr>
<td>FIBER</td>
<td>4-2&quot; HDPE DUCTS IN CSG</td>
<td>STA 3488+37 TO 3660+00</td>
<td>QWEST (CENTURYLINK)</td>
<td>RELOCATE</td>
</tr>
<tr>
<td>FIBER</td>
<td>2-4&quot; HDPE DUCTS IN CSG</td>
<td>STA 3488+20 TO 3660+00</td>
<td>MCI (VERIZON-AT&amp;T-SPRINT)</td>
<td>RELOCATE</td>
</tr>
<tr>
<td>FIBER</td>
<td>4-2&quot; HDPE DUCTS IN CSG</td>
<td>STA 3220+00 TO 3660+00</td>
<td>QWEST-MFS-METRO</td>
<td>RELOCATE</td>
</tr>
<tr>
<td>OIL</td>
<td>10&quot; ABAN</td>
<td>STA 3551+61 TO 3635+00</td>
<td>KINDER MORGAN</td>
<td>REMOVE INTERFERING PORTIONS</td>
</tr>
<tr>
<td>STORM DRAIN</td>
<td>8&quot; RCP</td>
<td>STA 3609+47/ POPULUS ST.</td>
<td>LACFCD</td>
<td>PROTECT-IN-PLACE</td>
</tr>
<tr>
<td>STORM DRAIN</td>
<td>63&quot; RCP</td>
<td>STA 36/2453/ HOU DRAIN</td>
<td>CITY OF LOS ANGELES</td>
<td>PROTECT-IN-PLACE</td>
</tr>
<tr>
<td>WATER</td>
<td>8&quot; WATER IN 12&quot; CSG</td>
<td>STA 36/10406</td>
<td>CITY OF LOS ANGELES</td>
<td>PROTECT-IN-PLACE</td>
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<tbody>
<tr>
<td>OIL</td>
<td>20&quot; IN 110' OF 36&quot; CSG</td>
<td>STA 3456+37 TO 3660+00</td>
<td>PACIFIC PIPELINE</td>
<td>RELOCATE</td>
</tr>
<tr>
<td>FIBER</td>
<td>4-2&quot; HOPE DUCTS IN CSG</td>
<td>STA 3456+37 TO 3660+00</td>
<td>AT&amp;T</td>
<td>RELOCATE</td>
</tr>
<tr>
<td>FIBER</td>
<td>2-4&quot; HOPE DUCTS IN CSG</td>
<td>STA 3448+20 TO 3660+00</td>
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<td>RELOCATE</td>
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<tr>
<td>FIBER</td>
<td>4-2&quot; HOPE DUCTS IN CSG</td>
<td>STA 3220+00 TO 3625+00</td>
<td>AT&amp;T</td>
<td>RELOCATE</td>
</tr>
<tr>
<td>OIL</td>
<td>10&quot; ABAN</td>
<td>STA 3551+61 TO 3635+00</td>
<td>KINDER MORGAN</td>
<td>REMOVE INTERFERING PORTIONS</td>
</tr>
<tr>
<td>ELECTRICAL</td>
<td>230 KV</td>
<td>STA 3631+16 TO 3631+88</td>
<td>LADWP</td>
<td>PROTECT-IN-PLACE</td>
</tr>
<tr>
<td>SEWER</td>
<td>48&quot; RCP</td>
<td>STA 3624+81 TO 3632+88</td>
<td>CITY OF LOS ANGELES</td>
<td>PROTECT-IN-PLACE</td>
</tr>
<tr>
<td>ELECTRICAL</td>
<td>230 KV</td>
<td>STA 3624+81 TO 3632+88</td>
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<tr>
<td>ELECTRICAL</td>
<td>OVERHEAD ELECTRICAL</td>
<td>STA 3630+56</td>
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<td>RAISE/RELOCATE</td>
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Refer to Volume 5 Sheets UT-1001 to UT-1004 for CMF Utility Improvements.

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CALIFORNIA HIGH-SPEED TRAIN PROJECT
BURBANK TO LOS ANGELES
OPTION B REVISED ALIGNMENT - REVISED FINAL
PDD
COMPOSITE UTILITIES PLAN
HSR2 3619+00 TO HSR2 3632+00
### Major Utility Conflicts

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<tr>
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<tbody>
<tr>
<td>Oil</td>
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<td>Pacific Pipeline</td>
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<tr>
<td>Fiber</td>
<td>4-2&quot; HoPE Ducts in CSG</td>
<td>STA 3456+37 to 3660+00</td>
<td>Qwest (CenturyLink)</td>
<td>Relocate</td>
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<tr>
<td>Fiber</td>
<td>2-4&quot; HoPE Ducts in CSG</td>
<td>STA 3446+00 to 3660+00</td>
<td>Imperial-AT&amp;T-Sprint</td>
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<tr>
<td>Electrical</td>
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<td>STA 3636+00 to 3660+00</td>
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<td>Protect-In-Place</td>
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<tr>
<td>Water</td>
<td>30&quot; in 40&quot; STL CSG</td>
<td>STA 3654+00</td>
<td>LADWP</td>
<td>Protect-In-Place</td>
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<tr>
<td>Water</td>
<td>30&quot; in 40&quot; STL CSG</td>
<td>STA 3654+00</td>
<td>LADWP</td>
<td>Protect-In-Place</td>
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MAJOR UTILITY CONFLICTS

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<tr>
<td>OIL</td>
<td>20&quot; IN CSG</td>
<td>STA 3456+37 TO 3660+00</td>
<td>PACIFIC PIPELINE</td>
<td>RELOCATE</td>
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<tr>
<td>FIBER</td>
<td>4-2&quot; HDPE DUCTS IN CSG</td>
<td>STA 3456+37 TO 3660+00</td>
<td>GNEST (CENTURY LINK)</td>
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<tr>
<td>FIBER</td>
<td>2-4&quot; HDPE DUCTS IN CSG</td>
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<td>MCI/VERIZON-AT&amp;T-SPRINT</td>
<td>RELOCATE</td>
</tr>
<tr>
<td>ELECTRICAL</td>
<td>230 KV</td>
<td>STA 3636+62 TO 3660+00</td>
<td>LADWP</td>
<td>RELOCATE/RAISE</td>
</tr>
<tr>
<td>OIL</td>
<td>6&quot; ABAN CONC SLURRY</td>
<td>STA 3663+29 TO 3688+00</td>
<td>MOBIL</td>
<td>REMOVE INTERFERING PORTIONS</td>
</tr>
<tr>
<td>OIL</td>
<td>10&quot; ABAN CONC SLURRY</td>
<td>STA 3663+29 TO 3688+00</td>
<td>MOBIL</td>
<td>REMOVE INTERFERING PORTIONS</td>
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<tr>
<td>STORM DRAIN</td>
<td>66&quot; RCP</td>
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<td>CITY OF LOS ANGELES</td>
<td>PROTECT-IN-PLACE</td>
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<tr>
<td>WATER</td>
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<td>STA 3660+00 TO 3665+26</td>
<td>LADWP</td>
<td>PROTECT-IN-PLACE</td>
</tr>
<tr>
<td>OIL</td>
<td>8&quot; ABAN CONC SLURRY</td>
<td>STA 3660+00 TO 3665+26</td>
<td>MOBIL</td>
<td>REMOVE INTERFERING PORTIONS</td>
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<table>
<thead>
<tr>
<th>No.</th>
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<th>Size/Material</th>
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<tbody>
<tr>
<td>1</td>
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<td>STA 3673+29+ 3684+00</td>
<td>AT&amp;T</td>
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<tr>
<td>2</td>
<td>Storm Drain</td>
<td>16&quot; VCP</td>
<td>STA 3674+00+ 3684+00</td>
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<td>Protect-in-Place</td>
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<tr>
<td>3</td>
<td>Storm Drain</td>
<td>12&quot; VCP</td>
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<td>City of Los Angeles</td>
<td>Protect-in-Place</td>
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<tr>
<td>4</td>
<td>Oil</td>
<td>6&quot; Aban Conc Slurry</td>
<td>STA 3663+29+ 3688+00</td>
<td>Mobil</td>
<td>Remove</td>
</tr>
<tr>
<td>5</td>
<td>Oil</td>
<td>10&quot; Aban Conc Slurry</td>
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<td>Mobil</td>
<td>Remove</td>
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<tr>
<td>6</td>
<td>Fiber</td>
<td>2-1.5&quot; HDPE in 6&quot; STL CSG</td>
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<tr>
<td>7</td>
<td>Electrical</td>
<td>230 KV OH</td>
<td>STA 3673+24+ 3684+00</td>
<td>LADWP</td>
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<tr>
<td>8</td>
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<td>4&quot; Communication Line</td>
<td>TBD (limits Unknown)</td>
<td>WEHOLINK</td>
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<td>9</td>
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<td>Relocate</td>
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<tr>
<td>10</td>
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<td>Relocate</td>
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<tr>
<td>11</td>
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<td>SCG</td>
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<tr>
<td>12</td>
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<td>STA 3673+27+ 3684+00</td>
<td>DWPWS</td>
<td>Remove Interfering Regions</td>
</tr>
</tbody>
</table>

Refer to proposed utility relocation DWG. No. UT-C1151 and DWG. UT-D1152 for utility information at roadway improvement.

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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**

**BURBANK TO LOS ANGELES**

**OPTION B REVISED ALIGNMENT - REVISED FINAL**

**PEPD**

COMPOSITE UTILITY PLAN

HSR1 3671+00 TO HSR2 3684+00
**Major Utility Conflicts**

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<th>Disposition</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1</strong> Oil</td>
<td>6&quot; Aban Conc Slurry</td>
<td>STA 3683+29 TO 3688+00</td>
<td>Mobil</td>
<td>Protect-In-Place</td>
</tr>
<tr>
<td><strong>2</strong> Oil</td>
<td>10&quot; Aban Conc Slurry</td>
<td>STA 3683+29 TO 3688+00</td>
<td>Mobil</td>
<td>Protect-In-Place</td>
</tr>
<tr>
<td><strong>3</strong> Electrical</td>
<td>230 KV</td>
<td>STA 3673+24 TO 3688+00</td>
<td>LADWP</td>
<td>Raise &amp; Relocate</td>
</tr>
<tr>
<td><strong>4</strong> Electrical</td>
<td>O/Lighting</td>
<td>STA 3684+46</td>
<td>LADWP</td>
<td>Raise &amp; Relocate</td>
</tr>
</tbody>
</table>

Refer to proposed utility relocation dwg. NO. UT-D7151 and dwg UT-D7152 for utility information at roadway improvement.

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*For Reference Only*  
*Refer to Drawing No. TP-O4002 for proposed traction power station.*

*Refer to Drawing No. TC-O4007 for proposed interlocking site.*

*Refer to Drawing No. TC-O4007 for proposed interlocking site.*

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*shown in volume 8 for work south of this location.*

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*Not for construction for internal use only.*

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*California High-Speed Train Project*  
*Burbank to Los Angeles*  
*Option B Revised Alignment - Revised Final*  
*Pepp*  
*Composite Utilities Plan*

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*HSR 3684+00 to HSR 3697+00*
<table>
<thead>
<tr>
<th>TYPE OF UTILITY</th>
<th>SIZE/MATERIAL</th>
<th>LOCATION</th>
<th>OWNER</th>
<th>DISPOSITION</th>
</tr>
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<tbody>
<tr>
<td>WATER</td>
<td>12&quot; HDPE WATER LINE</td>
<td>SF 3214+00 TO 3218+00</td>
<td>SF VAL BUR. OPER. UN.</td>
<td>RELOCATE</td>
</tr>
<tr>
<td>WATER</td>
<td>24&quot; STL IN 60&quot; OF 36&quot; STL CSG</td>
<td>SF 3211+29</td>
<td>BURBANK WATER &amp; POWER</td>
<td>PROTECT-IN-PLACE</td>
</tr>
<tr>
<td>GAS</td>
<td>6&quot; GAS LINE</td>
<td>SF 3211+32</td>
<td>SC GAS</td>
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<tr>
<td>ELECTRICAL</td>
<td>4 ELECTRIC DUCTS</td>
<td>SF 3211+19</td>
<td>BURBANK WATER &amp; POWER</td>
<td>PROTECT-IN-PLACE</td>
</tr>
<tr>
<td>TELEPHONE</td>
<td>24 TELEPHONE DUCTS</td>
<td>SF 3211+22</td>
<td>TBD</td>
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<tr>
<td>WATER</td>
<td>30&quot; IN 42&quot; STL CSG</td>
<td>SF 3212+79</td>
<td>BURBANK WATER &amp; POWER</td>
<td>EXTEND CSG</td>
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<td>ELECTRICAL</td>
<td>UNDERGROUND ELECTRICAL LINE</td>
<td>SF 3214+35 TO 3218+00</td>
<td>CITY OF BURBANK</td>
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<tr>
<td>EXTRATION WELL VOT</td>
<td>VAULT &amp; RELATED INFRASTRUCTURE</td>
<td>SF 3214+06 TO 3214+34</td>
<td>SF VAL BUR. OPER. UN.</td>
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<tr>
<td>FIBER</td>
<td>TBD</td>
<td>SF 3211+23</td>
<td>TBD</td>
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<tr>
<td>DRAIN</td>
<td>TBD</td>
<td>SF 3211+96 TO 3212+21</td>
<td>TBD</td>
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<td>EXTRATION WELLS</td>
<td>OBSERVATION WELLS OW-VO7A/B</td>
<td>SF 3213+97</td>
<td>SF VAL BUR. OPER. UN.</td>
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### Major Utility Conflicts

<table>
<thead>
<tr>
<th>Type of Utility</th>
<th>Size/Material</th>
<th>Location</th>
<th>Owner</th>
<th>Disposition</th>
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</thead>
<tbody>
<tr>
<td>1. Rail</td>
<td>Rail Utilities</td>
<td>STA 3244+13 to 3244+26</td>
<td>TBD</td>
<td>Relocate</td>
</tr>
<tr>
<td>2. Storm Drain</td>
<td>12” Wide Lockheed Channel</td>
<td>STA 105427 to 111400</td>
<td>LACFCD</td>
<td>Relocate, see SHT. CV-01305</td>
</tr>
<tr>
<td>3. Gas</td>
<td>3” Gas Line</td>
<td>STA 106904</td>
<td>SCE</td>
<td>Extend Csg across Const. L/W15</td>
</tr>
<tr>
<td>4. Electrical</td>
<td>Underground Elec. Ducts</td>
<td>STA 105489</td>
<td>SCE</td>
<td>Extend Csg across Const. L/W15</td>
</tr>
<tr>
<td>5. Water</td>
<td>20” Water Line</td>
<td>STA 105474</td>
<td>City of Burbank</td>
<td>Extend Csg across Const. L/W15</td>
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<tr>
<td>6. Electrical</td>
<td>Queen Pole</td>
<td>STA 105464</td>
<td>SCE</td>
<td>Relocate</td>
</tr>
<tr>
<td>11. Electrical</td>
<td>Vault</td>
<td>STA 100452</td>
<td>City of Burbank</td>
<td>Protect-IN-PLACE</td>
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**NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY**
MAJOR UTILITY CONFLICTS

<table>
<thead>
<tr>
<th>TYPE OF UTILITY</th>
<th>SIZE/MATERIAL</th>
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</tr>
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<tbody>
<tr>
<td>1. STORM DRAIN</td>
<td>36&quot; RCP</td>
<td>STA 131+417</td>
<td>TBD</td>
<td>JOIN REALIGNED CHANNEL</td>
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<tr>
<td>2. RAW WATER</td>
<td>12&quot; HDPE WATER LINE</td>
<td>STA 124+00 TO 126+85</td>
<td>SF VAL BUR.</td>
<td>RELOCATE</td>
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<tr>
<td>3. WATER</td>
<td>WATER LINE FIXTURES</td>
<td>STA 126+34 TO 131+44</td>
<td>SF VAL BUR.</td>
<td>RELOCATE</td>
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<tr>
<td>4. ELECTRICAL</td>
<td>UNDERGROUND ELECTRICAL</td>
<td>STA 127+14 TO 131+15</td>
<td>CITY OF BURBANK</td>
<td>RELOCATE</td>
</tr>
<tr>
<td>5. WATER</td>
<td>8&quot; D3 WATER LINE</td>
<td>STA 133+25 TO 135+00</td>
<td>TBD</td>
<td>RELOCATE</td>
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<tr>
<td>6. WELLS</td>
<td>OBSERVATION WELLS</td>
<td>STA 133+39 TO 135+57</td>
<td>SF VAL BUR.</td>
<td>RELOCATE</td>
</tr>
<tr>
<td>7. EXTRACTION WELL</td>
<td>OBSERVATION WELLS</td>
<td>STA 132+42 TO 127+41</td>
<td>SF VAL BUR.</td>
<td>RELOCATE</td>
</tr>
<tr>
<td>8. WELLS</td>
<td>OBSERVATION WELLS</td>
<td>STA 126+85</td>
<td>SF VAL BUR.</td>
<td>PROTECT-IN-PLACE</td>
</tr>
</tbody>
</table>

OBSERVATION WELLS

PROPOSED METROLINK (VE01)

PROPOSED UPR RIDING TRACK

PROPOSED LOCKHEED CHANNEL REALIGNMENT

EXIST ROW

PROPOSED INTERLOCKING SITE

STORM DRAIN

36" RCP

STA 131+417

TBD

JOIN REALIGNED CHANNEL

RAW WATER

12" HDPE WATER LINE

STA 124+00 TO 126+85

SF VAL BUR.

RELOCATE

WATER

WATER LINE FIXTURES

STA 126+34 TO 131+44

SF VAL BUR.

RELOCATE

ELECTRICAL

UNDERGROUND ELECTRICAL

STA 127+14 TO 131+15

CITY OF BURBANK

RELOCATE

WELLS

OBSERVATION WELLS

STA 133+39 TO 135+57

SF VAL BUR.

RELOCATE

EXTRACTION WELL

OBSERVATION WELLS

STA 126+42 TO 127+41

SF VAL BUR.

RELOCATE

WELLS

OBSERVATION WELLS

STA 126+85

SF VAL BUR.

RELOCATE

PROTECT-IN-PLACE
MAJOR UTILITY CONFLICTS

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</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>WELLS</td>
<td>OBSERVATION WELLS OM-V07A/B</td>
<td>STA 3214+00</td>
<td>SF VAL, BUR, OPR, UN.</td>
<td>PROJECT-IN-PLACE</td>
</tr>
<tr>
<td>2</td>
<td>EXTRACTION WELLS</td>
<td>VAULT &amp; RELATED INFRASTRUCTURE</td>
<td>STA 3214+08 TO 3214+38</td>
<td>SF VAL, BUR, OPR, UN.</td>
<td>PROJECT-IN-PLACE</td>
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</tbody>
</table>

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### Major Utility Conflicts

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</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Fiber</td>
<td>Underground Fiber</td>
<td>STA 3224+15 to 3231+00</td>
<td>MCI/SPRINT</td>
<td>Relocate</td>
</tr>
<tr>
<td>2</td>
<td>Wells</td>
<td>Observation Wells DM-V06A/B</td>
<td>STA 3228+55</td>
<td>SF VAL BUR. OPER. UN.</td>
<td>Protect-In-Place</td>
</tr>
<tr>
<td>3</td>
<td>Wells</td>
<td>Groundwater Monitoring Wells</td>
<td>STA 3222459 to 3225410</td>
<td>SF VAL BUR. OPER. UN.</td>
<td>Relocate</td>
</tr>
<tr>
<td>4</td>
<td>Wells</td>
<td>Extraction Well V06 Vault &amp; Related Infrastructure</td>
<td>STA 3224406 to 3224437</td>
<td>SF VAL BUR. OPER. UN.</td>
<td>Relocate</td>
</tr>
<tr>
<td>5</td>
<td>Raw Water</td>
<td>12&quot;, 16&quot;, 24&quot;, &amp; 30&quot; HDPE Water Lines</td>
<td>STA 3218400 to 3231400</td>
<td>SF VAL BUR. OPER. UN.</td>
<td>Relocate</td>
</tr>
<tr>
<td>6</td>
<td>Raw Water</td>
<td>Junction Vault and Related Infrastructure</td>
<td>STA 3228489</td>
<td>SF VAL BUR. OPER. UN.</td>
<td>Relocate</td>
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</table>
MAJOR UTILITY CONFLICTS

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</thead>
<tbody>
<tr>
<td>1</td>
<td>FIBER</td>
<td>UNDERGROUND FIBER</td>
<td>STA 3231+00 TO 3244+00</td>
<td>MCI/SPRINT</td>
<td>RELOCATE</td>
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<tr>
<td>2</td>
<td>EXCH. WELL</td>
<td>EXCH. WELL</td>
<td>STA 3237+25</td>
<td>SF VAL BUR. OPER. UN.</td>
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<tr>
<td>3</td>
<td>EXCH. WELL</td>
<td>EXCH. WELL</td>
<td>STA 3236+77 TO 3237+09</td>
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<tr>
<td>4</td>
<td>RAW WATER</td>
<td>RAW WATER</td>
<td>STA 3231+00 TO 3244+00</td>
<td>SF VAL BUR. OPER. UN.</td>
<td>RELOCATE</td>
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<tbody>
<tr>
<td>Rain Storm Drain</td>
<td>12&quot; Wide Locker Channel</td>
<td>STA 3251+82 TO 3251+00</td>
<td>LACFD</td>
<td>Relocate, See SM CV-01305</td>
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<tr>
<td>Gas</td>
<td>3&quot; Gas Line</td>
<td>STA 3252+86</td>
<td>SCE Gas</td>
<td>Extend CSG Across Cons, LWM15</td>
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<tr>
<td>Electrical</td>
<td>Underground Elec. Ducts</td>
<td>STA 3252+81</td>
<td>SCE</td>
<td>Extend CSG Across Cons, LWM15</td>
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<tr>
<td>Water</td>
<td>20&quot; Water Line</td>
<td>STA 3252+35</td>
<td>City of Burbank</td>
<td>Extend CSG Across Cons, LWM15</td>
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<tr>
<td>Electrical</td>
<td>Queen Pole</td>
<td>STA 3252+18</td>
<td>SCE</td>
<td>Relocate</td>
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<tr>
<td>Rail</td>
<td>Rail Utilities</td>
<td>STA 3245+55 TO 3245+58</td>
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<td>Electrical</td>
<td>Overhead Electrical Line</td>
<td>STA 3245+43</td>
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<td>Relocate</td>
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<td>Telephone</td>
<td>Overhead Telephone Line</td>
<td>STA 3245+42</td>
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<tr>
<td>Telecommunication</td>
<td>Overhead Cable Line</td>
<td>STA 3245+42</td>
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<tr>
<td>Rail</td>
<td>Rail Utilities</td>
<td>STA 3244+10 TO 3244+46</td>
<td>TBD</td>
<td>Relocate</td>
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<tr>
<td>Raw Water</td>
<td>20&quot; Steel Water Line &amp; Valve</td>
<td>STA 3245+81</td>
<td>SF Val. BUR., OPER. UN.</td>
<td>Relocate Pipe &amp; Valve, Add Casing</td>
</tr>
<tr>
<td>Raw Water</td>
<td>20&quot; HOPE Water Line</td>
<td>STA 3253+45 TO 3257+40</td>
<td>SF Val. BUR., OPER. UN.</td>
<td>Relocate Pipe &amp; Valve, Add Casing</td>
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<tr>
<td>Extraction Well VO1</td>
<td>Well &amp; Related Infra,</td>
<td>STA 3247+403 TO 3247+401</td>
<td>SF Val. BUR., OPER. UN.</td>
<td>Relocate, See SHT. CV-01305</td>
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<td>Well &amp; Related Infra,</td>
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<td>City of Burbank</td>
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<tr>
<td>Electrical</td>
<td>Cabinets/Transformer</td>
<td>STA 3254+05 TO 3254+36</td>
<td>TBD</td>
<td>Protect-In-Place</td>
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MAJOR UTILITY CONFLICTS

<table>
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<tr>
<th>No.</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>STORM DRAIN</td>
<td>36&quot; RCP</td>
<td>STA 3261+22</td>
<td>TBD</td>
<td>JOIN REALIGNED CHANNEL</td>
</tr>
<tr>
<td>2</td>
<td>RAW WATER</td>
<td>12&quot;, 18&quot;, &amp; 20&quot; HDPE</td>
<td>STA 3257+00 TO 3270+00</td>
<td>SF VAL BURL. OPER. UN.</td>
<td>RELOCATE</td>
</tr>
<tr>
<td>3</td>
<td>WATER - ELITE</td>
<td>WATER LINE FITTNER</td>
<td>STA 3260+64 TO 3268+33</td>
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<tr>
<td>4</td>
<td>EXTRACTION WELL V02</td>
<td>WELL &amp; RELATED INFRA.</td>
<td>STA 3265+61 TO 3265+88</td>
<td>SF VAL BURL. OPER. UN.</td>
<td>PROTECT-IN-PLACE WELL/RELOCATE RELATED INFRA.</td>
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<td>STA 3257+02</td>
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<td>OBSERVATION WELLS ON-V03A/B-R</td>
<td>STA 3265+58</td>
<td>SF VAL BURL. OPER. UN.</td>
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<tbody>
<tr>
<td>1. SEWER</td>
<td>24&quot; VCP</td>
<td>UPRR-1</td>
<td>CITY OF LOS ANGELES</td>
<td>ENCASE</td>
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<tr>
<td>2. SEWER</td>
<td>54&quot; Concrete Pipe</td>
<td>UPRR-1</td>
<td>CITY OF LOS ANGELES</td>
<td>ENCASE</td>
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<tr>
<td>3. SEWER</td>
<td>12&quot; VCP</td>
<td>UPRR-1</td>
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<td>PROTECT-IN-PLACE</td>
</tr>
<tr>
<td>4. SEWER</td>
<td>24&quot; VCP</td>
<td>MT01</td>
<td>CITY OF LOS ANGELES</td>
<td>PROTECT-IN-PLACE</td>
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<tr>
<td>5. SEWER</td>
<td>8&quot; VCP (ABAN)</td>
<td>STA N/A</td>
<td>CITY OF LOS ANGELES</td>
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<tr>
<td>6. STORM DRAIN</td>
<td>27&quot; Unreinforced Concrete Pipe</td>
<td>UPRR-1</td>
<td>LACFCD</td>
<td>PROTECT-IN-PLACE</td>
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<tr>
<td>7. STORM DRAIN</td>
<td>108&quot; RCP</td>
<td>UPRR</td>
<td>CITY OF LOS ANGELES</td>
<td>ENCASE</td>
</tr>
<tr>
<td>8. OH ELECTRIC</td>
<td>230 kV</td>
<td>MT01(B)</td>
<td>LADWP</td>
<td>PROTECT-IN-PLACE</td>
</tr>
<tr>
<td>9. OIL</td>
<td>10&quot; Oil Line</td>
<td>UPRR-1</td>
<td>TBD</td>
<td>EXTEND CASING</td>
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<tbody>
<tr>
<td>1. SEWER</td>
<td>54&quot; Concrete Pipe</td>
<td>SEE PREVIOUS SHEET</td>
<td>CITY OF LOS ANGELES</td>
<td>PROTECT-IN-PLACE</td>
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<tr>
<td>2. SEWER</td>
<td>24&quot; VCP</td>
<td>MT01 41+31</td>
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<td>PROTECT-IN-PLACE</td>
</tr>
<tr>
<td>3. OH ELECTRIC</td>
<td>230 kV</td>
<td>MT01 42+03</td>
<td>LADWP</td>
<td>PROTECT-IN-PLACE</td>
</tr>
<tr>
<td>4. STORM DRAIN</td>
<td>108&quot; RCP</td>
<td>SEE PREVIOUS SHEET</td>
<td>CITY OF LOS ANGELES</td>
<td>PROTECT-IN-PLACE</td>
</tr>
<tr>
<td>5. STORM DRAIN</td>
<td>96&quot; Channel</td>
<td>MT01(B) 8424</td>
<td>LACFCD</td>
<td>PROTECT-IN-PLACE</td>
</tr>
<tr>
<td>6. OIL</td>
<td>8&quot; ABAN Conc Slurry</td>
<td>MT01(B) 8479</td>
<td>MOBIL</td>
<td>REMOVE</td>
</tr>
<tr>
<td>7. OH ELECTRIC</td>
<td>230 kV</td>
<td>MT01(B) 8469</td>
<td>LADWP</td>
<td>PROTECT-IN-PLACE</td>
</tr>
<tr>
<td>8. STORM DRAIN</td>
<td>72&quot; RCP</td>
<td>MT01(B) 8424</td>
<td>CITY OF LOS ANGELES</td>
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<tr>
<td>9. OIL</td>
<td>8&quot; ABAN Conc Slurry</td>
<td>MT01(B) 9446</td>
<td>MOBIL</td>
<td>REMOVE</td>
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<tbody>
<tr>
<td>Sewer</td>
<td>24&quot; VCP</td>
<td>UPRR-1 8+71</td>
<td>City of Los Angeles</td>
<td>Protect-In-Place</td>
</tr>
<tr>
<td>Storm Drain</td>
<td>42&quot; RCP</td>
<td>UPRR-1 8+41</td>
<td>LACFD</td>
<td>Protect-In-Place</td>
</tr>
<tr>
<td>Sewer</td>
<td>10&quot; VCP Abandoned</td>
<td>UPRR-1 8+37</td>
<td>City of Los Angeles</td>
<td>Remove</td>
</tr>
<tr>
<td>Sewer</td>
<td>8&quot; VCP Abandoned</td>
<td>UPRR-1 7+14</td>
<td>City of Los Angeles</td>
<td>Remove</td>
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<tr>
<td>Storm Drain</td>
<td>&quot;</td>
<td>UPRR-1 6+83</td>
<td>City of Los Angeles</td>
<td>Protect-In-Place</td>
</tr>
<tr>
<td>Sewer</td>
<td>8&quot; VCP Abandoned</td>
<td>See Plan</td>
<td>City of Los Angeles</td>
<td>Remove</td>
</tr>
<tr>
<td>Storm Drain</td>
<td>10&quot; VCP Abandoned</td>
<td>UPRR-1 6+18</td>
<td>City of Los Angeles</td>
<td>Remove</td>
</tr>
<tr>
<td>Sewer</td>
<td>10&quot; VCP</td>
<td>UPRR-1 7+93</td>
<td>City of Los Angeles</td>
<td>Protect-In-Place</td>
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</table>
PROPOSED UTILITIES RELOCATION PLAN
HSR2 3026+28.25 TO HSR2 3034+00
CONTRACT NO. HSR14-39
DRAWING NO. UT-D1601
SCALE AS SHOWN
SHEET NO. 3030+00

PLAN

PROPOSED TUNNEL & SUB-SURFACE EASEMENT
PROPOSED INTERLOCKING SITE B FOR HSR2
SEE DWG TC-O4001
PROPOSED INTERLOCKING SITE A FOR HSR1
SEE DWG TC-O4001

PROFILE

PROPOSED ROW
PROPOSED HSR1
PROPOSED HSR2

PROPOSED HSR1
SEGMENT
BURBANK TO LOS ANGELES
PROFILE
FOR INTERNAL USE ONLY
NOT FOR CONSTRUCTION
07/15/2021

CALIFORNIA HIGH-SPEED TRAIN PROJECT
BURBANK TO LOS ANGELES
OPTION B REvised ALIGNMENT - REvised FINAL
PROPOSED UTILITIES RELOCATION PLAN
HSR2 3026+28.25 TO HSR2 3034+00
OPTION B REVISED ALIGNMENT - REVISED FINAL
PROPOSED UTILITIES RELOCATION PLAN
HSR2 3073+00 TO HSR2 3086+00

CONTRACT NO.
HSR14-39
DRAWING NO.
UT-D1603
SCALE
AS SHOWN
SHEET NO.
3075+00

VANOWEN ST
PROPOSED HSR2
PROPOSED HSR1
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PROPOSED UG ELECTRIC
PROPOSED UG ELECTRIC

PROPOSED EXTRACTION WELL V05
PROPOSED EXTRACTION WELL V05
WATER
PROPOSED RAW
OBSERVATION WELL
PROTECT-IN-PLACE

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
BURBANK TO LOS ANGELES
OPTION B REVISED ALIGNMENT - REVISED FINAL
PEP
PROPOSED UTILITIES RELOCATION PLAN
HSR2 3073+00 TO HSR2 3086+00

DATE
07/15/2021

DRAWN BY
DESIGNED BY
CHECKED BY
IN CHARGE

C. LEE
C. CUSSON
M. REIFER
R. PETERS
NOTES:
1. Relocate Lockheed channel with new tie-ins, see sheets CV-1301 to CV-1309.
2. Relocate power/telephone line outside row.
3. For right-of-way information, see right-of-way plans volume 1.
4. Relocate phone line outside row.

CA HIGH-SPEED TRAIN PROJECT
BURBANK TO LOS ANGELES
OPTION B REVISED ALIGNMENT - REVISED FINAL
PROPOSED UTILITIES RELocation PLAN
HSR2 3125+00 TO HSR2 3138+00

DESIGNED BY
M. REIFER
07/15/2021

SCALE 1"=50' HOR.
1"=10' VERT.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY
NOTES:
1. RELOCATE LOCKHEED CHANNEL WITH NEW TIE-INS. SEE SHEETS CV-1301 TO CV-1307.
2. RELOCATE 48" STORM DRAIN WITH NEW TIE-INS.
NOTES:
1. Relocated 20" oil line outside row.
2. Relocated 4-2" HDPE ducts outside row.
3. Relocated 4-2" HDPE ducts outside row.
4. Relocated 4-2" HDPE ducts outside row.
5. Relocate and encase water line
1. Existing water casing: 100'x16", extend existing casing from row to row.

**NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY**

**PROPOSED UTILITIES RELOCATION PLAN**

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**

**BURBANK TO LOS ANGELES**

**OPTION B REVISED ALIGNMENT - REVISED FINAL PLAN**

**NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY**

**PROPOSED UTILITIES RELOCATION PLAN**

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**

**BURBANK TO LOS ANGELES**

**OPTION B REVISED ALIGNMENT - REVISED FINAL PLAN**

**PROPOSED UTILITIES RELOCATION PLAN**
1. Relocate water line 5' below the new street with new tie-Ins.
2. Relocate gas line 5' below the new street with new tie-Ins.
3. Current storm drain manholes will have to be 9' lowered by 16'-00 at San Fernando Road to meet new grade of Sonora. The one manhole near Airway will be lowered by 9' and the manhole on the northeast edge will be lowered 23'.
4. The storm drain must be lowered, flatten slope upstream from southerly manhole under new street grade at 0.25% until minimum 2 feet of cover, then steepen slope to join at northerly manhole.
5. Proposed relocate 8" gas in 8" CSG
6. New catch basins with new storm drainPipe installed on both sides of existing manholes.

NOTES:
- OH TELEPHONE & POWER WITH THE LOWEST LINE ON ALL RAISED POLES TO ALLOW 27' CLEARANCE PER RSR STD.
- PROPOSED TCE SEE NOTE 3
- PROPOSED TCE SEE NOTE 4
- PROPOSED TCE SEE NOTE 5
- PROPOSED TCE SEE NOTE 6
- PROPOSED TCE SEE VOLUME 3, DRAWING
- PROPOSED TCE SEE NOTE 1
- PROPOSED TCE SEE NOTE 2
- PROPOSED TCE SEE NOTE 7
- PROPOSED TCE SEE NOTE 8

CALENERA HIGH-SPEED TRAIN PROJECT
BURBANK TO LOS ANGELES
OPTION B REVISED ALGINMENT - REVISED FINAL
PEPNO
PROPOSED UTILITIES RELOCATION PLAN
HSR13 3255+00 TO HSR13 3268+00

DRAWN BY C. LEE
DESIGNED BY C. ADAMS
CHECKED BY C. CUSSON
RECORD SET J. HIGGINS
DATE 07/15/2021

SCALE 1"=50' HOR.
SCALE 1"=10' VERT.
NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY
NOTES:
1. ADD WATER CASING 100'x48" FROM ROW TO ROW.
2. EXISTING NATURAL GAS TIE-IN.
3. POWER TO BE RELOCATED UNDERGROUND.
4. EXISTING ABANDONED CULVERT TO BE REMOVED
   IF NEEDED FOR TRACK CONSTRUCTION
5. REMOVE NON-HOR SIGNAL HOUSE AND RELATED INFRASTRUCTURE

PROFILE

CALIFORNIA HIGH-SPEED TRAIN PROJECT
BURBANK TO LOS ANGELES
OPTION B REVISED ALIGNMENT - REVISED FINAL PHASE
PROPOSED UTILITIES RELOCATION PLAN
HSR2 3281+00 TO HSR2 3294+00

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY
1. RAISE SANITARY SEWER MANHOLES TO GRADE OF NEW SAN FERNANDO RD TYP-6 PLACES.
2. RAISE MANHOLES TO MATCH NEW GRADE ON SAN FERNANDO ROAD TYP ALL MANHOLES.

3. PROPOSED ROW
4. REMOVE CULVERT, EXTEND RCP 50 TO CONNECT TO EXISTING

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
BURBANK TO LOS ANGELES
OPTION B REVISED ALIGNMENT - REVISED FINAL
PROPOSED UTILITIES RELOCATION PLAN
HSR2 3294+00 TO HSR2 3307+00

STV

JACOBS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY
1. NEW POLES FOR OH POWER WITH THE LOWEST LINE ON ALL POLES RAISED TO 27' CLEARANCE PER HSR STD.
2. EXISTING NATURAL GAS CASING 102" x 4" WITH CASING VENTS ON EACH END, EXTEND EXISTING CASING FROM ROW TO ROW.
3. PROPOSED UTILITIES RELOCATION PLAN
4. NEW 30" CASING FOR 14" OIL PIPELINE WITH CASING VENTS ON EACH END.
5. SEE "TC-04100" SHEETS FOR PROPOSED NON-HSR SIGNAL HOUSE AND INFRASTRUCTURE RELOCATION.

NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
BURBANK TO LOS ANGELES
OPTION B REVISED ALIGNMENT - REVISED FINAL PLAN
PROPOSED UTILITIES RELOCATION PLAN
HSR2 3320+00 TO HSR2 3333+00
CITY OF GLENDALE

PROPOSED GLENDALE SLIDE TRACK

PROPOSED HSR1

• PROPOSED HSR1

PROPOSED HSR2

SALEM/SPERRY PROJECT BY OTHERS

PROPOSED COMMUNICATION TOWER

SAN FERNANDO ROAD

PROPOSED UTILITIES RELOCATION PLAN

ADD CASING FROM ROW TO ROW

PROPOSED RELOCATE TELEPHONE SERVICE FEED (BOTH TRACKS)

B-LA TRACK PROFILE

SALEM/SPERRY OVERPASS PROJECT (BY OTHERS)

CALIFORNIA HIGH-SPEED TRAIN PROJECT

PROPOSED METROLINK (MT01)

PROPOSED METROLINK (MT02)

NOTES 1

• PROPOSED METROLINK (MT01)

• PROPOSED METROLINK (MT02)

SALEM/SPERRY OVERPASS

PROJECT BY OTHERS

CALIFORNIA HIGH-SPEED TRAIN PROJECT

CALIFORNIA HIGH-SPEED TRAIN PROJECT

CALIFORNIA HIGH-SPEED TRAIN PROJECT

BURBANK TO LOS ANGELES

OPTION B REVISED ALIGNMENT - REVISED FINAL PFD

PROPOSED UTILITIES RELOCATION PLAN

HSR2 3333+00 TO HSR2 3346+00

NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY

1. REMOVE NON-HSR SIGNAL HOUSE AND RELATED INFRASTRUCTURE
EXISTING GAS CASING 110' x 4" WITH CASING VENTS ON EACH END.

ADD CASING FROM ROW TO ROW.
EXTEND EXISTING CASING FROM ROW TO ROW.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

PROPOSED UTILITIES RELOCATION PLAN
HSR2 3398+00 TO HSR2 3411+00

CALIFORNIA HIGH-SPEED TRAIN PROJECT
BURBANK TO LOS ANGELES
OPTION B REVISED ALIGNMENT - REVISED FINAL
PEP2
PROPOSED UTILITIES RELOCATION PLAN

NOTES:
1. EXISTING GAS CASING 110' x 4" WITH CASING VENTS ON EACH END.
2. ADD CASING FROM ROW TO ROW.
EXTEND EXISTING CASING FROM ROW TO ROW.
NOTES:
1. NEW CATCH BASINS TYP-3 PLACES WITH STORM DRAIN PIPE BETWEEN TWO NEW CATCH BASINS, TIE IN WITH NEW JUNCTION STRUCTURE.
EXISTING WATER LINE WITH CASING 98' X 24"
NEW CATCH BASINS TYP-2 PLACES ON EXISTING STORM DRAIN PIPE.

BY 3424+00

EXIST ROW

3425+00

PROPOSED TCE

3426+00

E PROPOSED HSR1

3427+00

24" TO SD 437

12" W (GWP)

3428+00

PROPOSED UTILITIES RELOCATION PLAN

45" ROP SD (CLA) RELOCATE AND ADD CATCH BASINS TO TIE INTO EXISTING ROADWAY

CITY OF LOS ANGELES

CITY OF GLENDALE

NOTES:

EXISTING ROADWAY

ADD CATCH BASINS TO TIE INTO 45" RCP SD (CLA), RELOCATE AND
PROP HSR BRIDGE

RELOCATED AND
SEE NOTE 3

PROP HSR BRIDGE

SEE NOTE 2

PROPOSED GRADE SEPARATION

SEE VOLUME 3, DRAWING

PROPOSED TCE

(TYP. OF 2)

SEE ST-K1121

PROP HSR BRIDGE

HANGING ON SIDE OF BRIDGE

NO. CV-T1121

SEE NOTE 3

PROPOSED GRAY EXISTING ROADWAY

EXISTING ROADWAY

NOT FOR CONSTRUCTION

FOR INTERNAL USE ONLY

1. NEW CATCH BASINS TYP-2 PLACES ON EXISTING STORM DRAIN PIPE. REFER TO DRAWING CV-0017 (VOLUME 4) FOR SD CONNECTIONS.
2. EXISTING WATER LINE WITH CASING 98' X 24'.
3. RELOCATE ALONG SAN FERNANDO BLVD.

CALEIFORNIA HIGH-SPEED TRAIN PROJECT
BURBANK TO LOS ANGELES
OPTION B REVISED ALIGNMENT - REVISED FINAL DECO

PROPOSED UTILITIES RELOCATION PLAN
HSR2 3424+00 TO HSR2 3437+00

NOT FOR CONSTRUCTION

FOR INTERNAL USE ONLY

CHECKED BY
C. CUSSON
J. HIGGINS
C. LEE

DRAWN BY
C. ADAMS

DESIGNED BY
C. ADAMS
C. CUSSON
J. HIGGINS
C. LEE

DATE
07/15/2021
1. Extend existing casing from row to row.
2. OR power with lowest line on all raised poles.

EXISTING WATER CASING 100' x 16".
EXISTING NATURAL GAS CASING 115' x 16".
EXISTING CASING VENTS AT ROW TO ROW.

NOTES:
- EXTEND EXISTING CASING FROM ROW TO ROW.
- EXISTING WATER CASING 100' x 16".
NOTES:
1. EXISTING NATURAL GAS CASING 100'X8" WITH CASING VENTS ON EACH END OF ROW. EXTEND EXISTING CASING FROM ROW TO ROW.
ADD NEW CASING TO ALL FIRE, WATER & GAS LINES IN TAYLOR YARD.

RELOCATE UNDER CUT AND COVER

NOTES:

1. ADD NEW CASING TO ALL FIRE, WATER & GAS LINES IN TAYLOR YARD.
2. RELOCATE UNDER CUT AND COVER

ALL CASING ARE FROM ROW TO ROW.
1. Add new casings to all fire, water & gas lines in Taylor Yard. All casings are from ROW to ROW.

NOTES:

- Propose UPRR Track 1
- Propose UPRR Track 2
- Proposed HSR1/MT01
- Proposed HSR2/MT02
- Proposed CMF Yard Tracks
- Proposed TCE
- Proposed 57 Yard
- As shown

REFERENCE DWG SEE VOLUME 5 UT-01641

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
BURBANK TO LOS ANGELES
A1-GRADE SHARED ALIGNMENT
PEP3
PROPOSED UTILITIES RELOCATION PLAN
HSR2 3593+00 TO HSR2 3606400
1. Add new casings to all fire, water & gas lines in Metro maintenance facility. All casings are from row to row.
NOTES:
1. INSTALL CAP AT EACH END OF PIPELINE.
RELOCATE GROUNDWATER MONITORING WELLS
RELOCATE GROUNDWATER MONITORING WELLS
RELOCATE GROUNDWATER MONITORING WELLS
RELOCATE GROUNDWATER MONITORING WELLS
RELOCATE GROUNDWATER MONITORING WELLS
RELOCATE GROUNDWATER MONITORING WELLS

PROPOSED RELOCATED UG ELECTRICAL (CITY OF BURBANK)

PROPOSED RELOCATED HDPE RAW WATER

TEMPORARY CONSTRUCTION EASEMENT

PROPOSED UNDERGROUND TELEPHONE

EXISTING ROW

CONCRETE BRIDGE REMNANTS

STORM DRAIN LATERAL

40'-6" RD

CUT AND COVER TUNNEL TRENCH

HSR2 3012+50.00
HSR2 3012+50.00

REVISED FINAL TRENCH

HSR2 3072+50.00

HSR14-39
AS SHOWN

NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY
PROPOSED UPRR SIDING TRACK
PROPOSED RAW WATERLINE RELOCATION
PROPOSED UPRR RAW WATERLINE
PROPOSED METROLINK (VE01)
PROPOSED METROLINK (VE02)
EXIST ROW
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OPTION B REVISED ALIGNMENT - REVISED FINAL

PROPOSED UTILITIES RELOCATION PLAN
SDNG 124+00 TO SDNG 133+02.62

CONTRACT NO. HSR14-39
DRAWING NO. UT-D1706
SCALE AS SHOWN
SHEET NO. 1

PLAN

- PROPOSED UTILITY RELOCATION
- PROPOSED NEW LOCATION
- PROPOSED EXISTING LOCATION

PROFILE

- PROPOSED UTILITY RELOCATION
- PROPOSED NEW LOCATION
- PROPOSED EXISTING LOCATION

NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
BURBANK TO LOS ANGELES
OPTION B REVISED ALIGNMENT - REVISED FINAL

PROPOSED UTILITIES RELOCATION PLAN
SDNG 124+00 TO SDNG 134+02.62

DATE CHK APP REV DESCRIPTION
C. LEE J. HIGGINS C. CUSSON C. ADAMS

07/15/2021 07/15/2021 07/15/2021 07/15/2021

STV
JACOBS
CALIFORNIA HIGH-SPEED RAIL AUTHORITY
PROPOSED UTILITIES RELOCATION PLAN
VE01, VE02 3231+00 TO VE01, VE02 3244+00

CONTRACT NO. HSR14-39
DRAWING NO. UT-D1803
SCALE AS SHOWN
SHEET NO.

DATE 07/15/2021

CALEIFORNIA HIGH-SPEED TRAIN PROJECT

CHK APP
REV
DESCRIPTION

DRAWN BY
DESIGNED BY
CHECKED BY
IN CHARGE

CALIFORNIA HIGH-SPEED TRAIN PROJECT

PROPOSED UTILITIES RELOCATION PLAN
VE01, VE02 3231+00 TO VE01, VE02 3244+00

PROPOSED HSR ROW
12' WIDE LOCKHEED CHANNEL
EXIST ROW (BOTH TRACKS)
VE TRACK PROFILE

EXISTING METROLINK (VE01)
PROPOSED METROLINK (VE01)
PROPOSED METROLINK (VE02)
PROPOSED HSR1
PROPOSED HSR2

EXISTING METROLINK (VE02)
PROPOSED METROLINK (VE01)

PROPOSED EXTRACTION WELL V05
OBSERVATION WELL
PROTECT-IN-PLACE

PROFILE
CALIFORNIA HIGH-SPEED TRAIN PROJECT BURBANK TO LOS ANGELES OPTION B REVISED ALIGNMENT - REVISED FINAL}

NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY
PROPOSED UTILITIES RELOCATION PLAN
VE01, VE02 3270+00 TO VE01, VE02 3283+00

CALIFORNIA HIGH-SPEED TRAIN PROJECT
BURBANK TO LOS ANGELES
OPTION B REVISED ALIGNMENT - REVISED FINAL PE PD
PROPOSED UTILITIES RELOCATION PLAN
VE01, VE02 3270+00 TO VE01, VE02 3283+00

DESIGNED BY
L. CUSSON
C. ADAMS
C. LEE

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY
**PROPOSED UTILITIES RELOCATION PLAN**

**CALIFORNIA HIGH-SPEED TRAIN PROJECT**

**BURBANK TO LOS ANGELES**

**OPTION B REVISED ALIGNMENT - REVISED FINAL**

**HSR14-39**

PROPOSED UTILITIES RELOCATION PLAN

VE01, VE02 3283+00 TO VE01, VE02 3291+65.95

1" = 50' HOR.
1" = 10' VERT.

SCALE APPLICABLE FOR FULL SIZE ONLY

FOR INTERNAL USE ONLY

NOT FOR CONSTRUCTION

**Drawn by:**

D. C. ADAMS

C. CUSSON

J. HIGGINS

C. LEE

**Designed by:**

D. C. ADAMS

C. CUSSON

J. HIGGINS

C. LEE

**Date In Charge:**

7/15/2021

**Contraction No.:**

HSR14-39

**Volume:**

VOL. 3 DRAWING

**Scale:**

1" = 50' HOR.
1" = 10' VERT.

**Drawn by:**

D. C. ADAMS

C. CUSSON

J. HIGGINS

C. LEE

**Designed by:**

D. C. ADAMS

C. CUSSON

J. HIGGINS

C. LEE

**Date In Charge:**

7/15/2021
NOTE:

1. FOR DRILLING PIT GENERAL CROSS SECTIONS SEE DRAWING UT-03940.

PROPOSED UTILITIES RELOCATION PLAN
20" OIL AND FIBER OPTIC DUCTS

GOLDEN STATE Fwy (I-5)

EXIST ROW

DRILLING PIT

EXIST METROLINK VALLEY MAIN TRACK

RELOCATED FIBER DUCTS (QWEST, MCI, VERIZON, AT&T, MFS, METRO)

PROPOSED ROW

RELOCATED 20" OIL (PPSI)

PROPOSED ICE

EXIST ROW

EXIST ROW

VICTORY WAY

PROPOSED UTILITIES RELOCATION PLAN
20" OIL AND FIBER OPTIC DUCTS

GOLDEN STATE Fwy (I-5)

EXIST ROW

DRILLING PIT

EXIST METROLINK VALLEY MAIN TRACK

RELOCATED FIBER DUCTS (QWEST, MCI, VERIZON, AT&T, MFS, METRO)

PROPOSED ROW

RELOCATED 20" OIL (PPSI)

PROPOSED ICE

EXIST ROW

EXIST ROW

VICTORY WAY

NOTE:

1. FOR DRILLING PIT GENERAL CROSS SECTIONS SEE DRAWING UT-03940.

PROPOSED UTILITIES RELOCATION PLAN
20" OIL AND FIBER OPTIC DUCTS

GOLDEN STATE Fwy (I-5)

EXIST ROW

DRILLING PIT

EXIST METROLINK VALLEY MAIN TRACK

RELOCATED FIBER DUCTS (QWEST, MCI, VERIZON, AT&T, MFS, METRO)

PROPOSED ROW

RELOCATED 20" OIL (PPSI)

PROPOSED ICE

EXIST ROW

EXIST ROW

VICTORY WAY

NOTE:

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PROPOSED UTILITIES RELOCATION PLAN
20" OIL AND FIBER OPTIC DUCTS

GOLDEN STATE Fwy (I-5)

EXIST ROW

DRILLING PIT

EXIST METROLINK VALLEY MAIN TRACK

RELOCATED FIBER DUCTS (QWEST, MCI, VERIZON, AT&T, MFS, METRO)

PROPOSED ROW

RELOCATED 20" OIL (PPSI)

PROPOSED ICE

EXIST ROW

EXIST ROW

VICTORY WAY

NOTE:

1. FOR DRILLING PIT GENERAL CROSS SECTIONS SEE DRAWING UT-03940.

PROPOSED UTILITIES RELOCATION PLAN
20" OIL AND FIBER OPTIC DUCTS

GOLDEN STATE Fwy (I-5)

EXIST ROW

DRILLING PIT

EXIST METROLINK VALLEY MAIN TRACK

RELOCATED FIBER DUCTS (QWEST, MCI, VERIZON, AT&T, MFS, METRO)

PROPOSED ROW

RELOCATED 20" OIL (PPSI)

PROPOSED ICE

EXIST ROW

EXIST ROW

VICTORY WAY

NOTE:

1. FOR DRILLING PIT GENERAL CROSS SECTIONS SEE DRAWING UT-03940.

PROPOSED UTILITIES RELOCATION PLAN
20" OIL AND FIBER OPTIC DUCTS

GOLDEN STATE Fwy (I-5)

EXIST ROW

DRILLING PIT

EXIST METROLINK VALLEY MAIN TRACK

RELOCATED FIBER DUCTS (QWEST, MCI, VERIZON, AT&T, MFS, METRO)

PROPOSED ROW

RELOCATED 20" OIL (PPSI)

PROPOSED ICE

EXIST ROW

EXIST ROW

VICTORY WAY

NOTE:

1. FOR DRILLING PIT GENERAL CROSS SECTIONS SEE DRAWING UT-03940.

PROPOSED UTILITIES RELOCATION PLAN
20" OIL AND FIBER OPTIC DUCTS

GOLDEN STATE Fwy (I-5)

EXIST ROW

DRILLING PIT

EXIST METROLINK VALLEY MAIN TRACK

RELOCATED FIBER DUCTS (QWEST, MCI, VERIZON, AT&T, MFS, METRO)

PROPOSED ROW

RELOCATED 20" OIL (PPSI)

PROPOSED ICE

EXIST ROW

EXIST ROW

VICTORY WAY

NOTE:

1. FOR DRILLING PIT GENERAL CROSS SECTIONS SEE DRAWING UT-03940.

PROPOSED UTILITIES RELOCATION PLAN
20" OIL AND FIBER OPTIC DUCTS

GOLDEN STATE Fwy (I-5)

EXIST ROW

DRILLING PIT

EXIST METROLINK VALLEY MAIN TRACK

RELOCATED FIBER DUCTS (QWEST, MCI, VERIZON, AT&T, MFS, METRO)

PROPOSED ROW

RELOCATED 20" OIL (PPSI)

PROPOSED ICE

EXIST ROW

EXIST ROW

VICTORY WAY

NOTE:

1. FOR DRILLING PIT GENERAL CROSS SECTIONS SEE DRAWING UT-03940.

PROPOSED UTILITIES RELOCATION PLAN
20" OIL AND FIBER OPTIC DUCTS

GOLDEN STATE Fwy (I-5)

EXIST ROW

DRILLING PIT

EXIST METROLINK VALLEY MAIN TRACK

RELOCATED FIBER DUCTS (QWEST, MCI, VERIZON, AT&T, MFS, METRO)

PROPOSED ROW

RELOCATED 20" OIL (PPSI)

PROPOSED ICE

EXIST ROW

EXIST ROW

VICTORY WAY

NOTE:

1. FOR DRILLING PIT GENERAL CROSS SECTIONS SEE DRAWING UT-03940.

PROPOSED UTILITIES RELOCATION PLAN
20" OIL AND FIBER OPTIC DUCTS

GOLDEN STATE Fwy (I-5)

EXIST ROW

DRILLING PIT

EXIST METROLINK VALLEY MAIN TRACK

RELOCATED FIBER DUCTS (QWEST, MCI, VERIZON, AT&T, MFS, METRO)

PROPOSED ROW

RELOCATED 20" OIL (PPSI)

PROPOSED ICE

EXIST ROW

EXIST ROW

VICTORY WAY

NOTE:

1. FOR DRILLING PIT GENERAL CROSS SECTIONS SEE DRAWING UT-03940.

PROPOSED UTILITIES RELOCATION PLAN
20" OIL AND FIBER OPTIC DUCTS

GOLDEN STATE Fwy (I-5)

EXIST ROW

DRILLING PIT

EXIST METROLINK VALLEY MAIN TRACK

RELOCATED FIBER DUCTS (QWEST, MCI, VERIZON, AT&T, MFS, METRO)

PROPOSED ROW

RELOCATED 20" OIL (PPSI)

PROPOSED ICE

EXIST ROW

EXIST ROW

VICTORY WAY

NOTE:

1. FOR DRILLING PIT GENERAL CROSS SECTIONS SEE DRAWING UT-03940.

PROPOSED UTILITIES RELOCATION PLAN
20" OIL AND FIBER OPTIC DUCTS

GOLDEN STATE Fwy (I-5)

EXIST ROW

DRILLING PIT

EXIST METROLINK VALLEY MAIN TRACK

RELOCATED FIBER DUCTS (QWEST, MCI, VERIZON, AT&T, MFS, METRO)

PROPOSED ROW

RELOCATED 20" OIL (PPSI)

PROPOSED ICE

EXIST ROW

EXIST ROW

VICTORY WAY
NOTE: 1. FOR DRILLING PIT GENERAL CROSS SECTIONS SEE DRAWING UT-D3942.
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