

# CALIFORNIA HIGH-SPEED TRAIN

## Engineering Plans

### Burbank to Los Angeles

### Volume 4

General, Utilities, Grading & Drainage, Traction Power, Communication Towers, Train Control & System Support Facilities

April 2019





CALIFORNIA HIGH-SPEED RAIL AUTHORITY



PRELIMINARY ENGINEERING FOR PROJECT DEFINITION (PEPD)

CALIFORNIA HIGH-SPEED TRAIN PROJECT VALLEY/RIVER SUBDIVISION

BURBANK TO LOS ANGELES

VOLUME 4

GENERAL, UTILITIES, GRADING & DRAINAGE, TRACTION POWER COMMUNICATION TOWERS, TRAIN CONTROL & SYSTEM SUPPORT FACILITIES



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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**C. CUSSON**  
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CHECKED BY  
**K. PIRBAZARI**  
IN CHARGE  
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DATE  
**04/30/2019**

PEPD RECORD SET  
  
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
  
PEPD ALTERNATIVE F  
VOLUME 4  
PROJECT LOCATION MAP

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
GE-A0401  
SCALE  
NO SCALE  
SHEET NO.

NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY





**VOLUME 4 - GENERAL, UTILITIES, GRADING & DRAINAGE, TRACTION POWER, COMMUNICATION TOWERS, TRAIN CONTROL & SYSTEM SUPPORT FACILITIES**

**GENERAL**

DRAWING NO.	DRAWING TITLE
GE-A0400	COVER SHEET - VOLUME 4
GE-A0401	PROJECT LOCATION MAP - VOLUME 4
GE-A0410	INDEX OF VOLUMES
GE-A0411	INDEX OF DRAWINGS VOLUME 4 - SHEET 1 OF 4
GE-A0412	INDEX OF DRAWINGS VOLUME 4 - SHEET 2 OF 4
GE-A0413	INDEX OF DRAWINGS VOLUME 4 - SHEET 3 OF 4
GE-A0414	INDEX OF DRAWINGS VOLUME 4 - SHEET 4 OF 4
GE-D0401	VOLUME 4 - KEY MAP UTILITIES AND GRADING AND DRAINAGE - SHEET 1 OF 2
GE-D0402	VOLUME 4 - KEY MAP UTILITIES AND LOCKHEED CHANNEL - SHEET 2 OF 2
GE-B0401	BASIS OF DESIGN SUMMARY
GE-C0401	ACRONYMS AND ABBREVIATIONS - SHEET 1 OF 5
GE-C0402	ACRONYMS AND ABBREVIATIONS - SHEET 2 OF 5
GE-C0403	ACRONYMS AND ABBREVIATIONS - SHEET 3 OF 5
GE-C0404	ACRONYMS AND ABBREVIATIONS - SHEET 4 OF 5
GE-C0405	ACRONYMS AND ABBREVIATIONS - SHEET 5 OF 5
GE-C0411	SYMBOLS - SHEET 1 OF 2
GE-C0412	SYMBOLS - SHEET 2 OF 2
GE-B0411	GENERAL NOTES
GE-D6401	TRACK SCHEMATIC

**UTILITIES**

DRAWING NO.	DRAWING TITLE
UT-C1519	COMPOSITE UTILITIES PLAN STA HSR2 3281+00 TO STA HSR2 3294+00
UT-C1520	COMPOSITE UTILITIES PLAN STA HSR2 3294+00 TO STA HSR2 3307+00
UT-C1521	COMPOSITE UTILITIES PLAN STA HSR2 3307+00 TO STA HSR2 3320+00
UT-C1522	COMPOSITE UTILITIES PLAN STA HSR2 3320+00 TO STA HSR2 3333+00
UT-C1523	COMPOSITE UTILITIES PLAN STA HSR2 3333+00 TO STA HSR2 3346+00
UT-C1524	COMPOSITE UTILITIES PLAN STA HSR2 3346+00 TO STA HSR2 3359+00
UT-C1525	COMPOSITE UTILITIES PLAN STA HSR2 3359+00 TO STA HSR2 3372+00
UT-C1526	COMPOSITE UTILITIES PLAN STA HSR2 3372+00 TO STA HSR2 3385+00
UT-C1527	COMPOSITE UTILITIES PLAN STA HSR2 3385+00 TO STA HSR2 3398+00
UT-C1528	COMPOSITE UTILITIES PLAN STA HSR2 3398+00 TO STA HSR2 3411+00
UT-C1529	COMPOSITE UTILITIES PLAN STA HSR2 3411+00 TO STA HSR2 3424+00
UT-C1530	COMPOSITE UTILITIES PLAN STA HSR2 3424+00 TO STA HSR2 3437+00
UT-C1531	COMPOSITE UTILITIES PLAN STA HSR2 3437+00 TO STA HSR2 3450+00
UT-C1532	COMPOSITE UTILITIES PLAN STA HSR2 3450+00 TO STA HSR2 3463+00
UT-C1533	COMPOSITE UTILITIES PLAN STA HSR2 3463+00 TO STA HSR2 3476+00
UT-C1534	COMPOSITE UTILITIES PLAN STA HSR2 3476+00 TO STA HSR2 3489+00
UT-C1535	COMPOSITE UTILITIES PLAN STA HSR2 3489+00 TO STA HSR2 3502+00
UT-C1536	COMPOSITE UTILITIES PLAN STA HSR2 3502+00 TO STA HSR2 3515+00
UT-C1537	COMPOSITE UTILITIES PLAN STA HSR2 3515+00 TO STA HSR2 3528+00
UT-C1538	COMPOSITE UTILITIES PLAN STA HSR2 3528+00 TO STA HSR2 3541+00
UT-C1539	COMPOSITE UTILITIES PLAN STA HSR2 3541+00 TO STA HSR2 3554+00
UT-C1540	COMPOSITE UTILITIES PLAN STA HSR2 3554+00 TO STA HSR2 3567+00
UT-C1541	COMPOSITE UTILITIES PLAN STA HSR2 3567+00 TO STA HSR2 3580+00
UT-C1542	COMPOSITE UTILITIES PLAN STA HSR2 3580+00 TO STA HSR2 3593+00
UT-C1543	COMPOSITE UTILITIES PLAN STA HSR2 3593+00 TO STA HSR2 3606+00
UT-C1544	COMPOSITE UTILITIES PLAN STA HSR2 3606+00 TO STA HSR2 3619+00
UT-C1545	COMPOSITE UTILITIES PLAN STA HSR2 3619+00 TO STA HSR2 3632+00
UT-C1546	COMPOSITE UTILITIES PLAN STA HSR2 3632+00 TO STA HSR2 3645+00
UT-C1547	COMPOSITE UTILITIES PLAN STA HSR2 3645+00 TO STA HSR2 3658+00
UT-C1548	COMPOSITE UTILITIES PLAN STA HSR2 3658+00 TO STA HSR2 3671+00
UT-C1549	COMPOSITE UTILITIES PLAN STA HSR2 3671+00 TO STA HSR2 3684+00
UT-C1550	COMPOSITE UTILITIES PLAN STA HSR2 3684+00 TO STA HSR2 3697+00
UT-C1601	COMPOSITE UTILITIES PLAN STA SF 3211+43 TO STA SF 3218+00
UT-C1602	COMPOSITE UTILITIES PLAN STA SF 3218+00 TO STA SF 3231+00
UT-C1603	COMPOSITE UTILITIES PLAN STA SF 3231+00 TO STA SF 3244+00
UT-C1604	COMPOSITE UTILITIES PLAN STA SF 3244+00 TO STA SDNG 111+00
UT-C1605	COMPOSITE UTILITIES PLAN STA SDNG 111+00 TO STA SDNG 124+00
UT-C1606	COMPOSITE UTILITIES PLAN STA SDNG 124+00 TO STA SDNG 133+03
UT-C1701	COMPOSITE UTILITIES PLAN STA VE02 3215+73 TO STA VE02 3218+00
UT-C1702	COMPOSITE UTILITIES PLAN STA VE02 3218+00 TO STA VE02 3231+00
UT-C1703	COMPOSITE UTILITIES PLAN STA VE02 3231+00 TO STA VE02 3244+00
UT-C1704	COMPOSITE UTILITIES PLAN STA VE02 3244+00 TO STA VE02 3257+00

**UTILITIES**

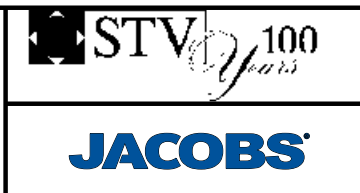
DRAWING NO.	DRAWING TITLE
UT-C1501	COMPOSITE UTILITIES PLAN STA HSR2 3026+28 TO STA HSR2 3034+00
UT-C1501A	COMPOSITE UTILITIES PLAN STA HSR2 3034+00 TO STA HSR2 3047+00
UT-C1501B	COMPOSITE UTILITIES PLAN STA HSR2 3047+00 TO STA HSR2 3060+00
UT-C1502	COMPOSITE UTILITIES PLAN STA HSR2 3060+00 TO STA HSR2 3073+00
UT-C1503	COMPOSITE UTILITIES PLAN STA HSR2 3073+00 TO STA HSR2 3086+00
UT-C1504	COMPOSITE UTILITIES PLAN STA HSR2 3086+00 TO STA HSR2 3099+00
UT-C1505	COMPOSITE UTILITIES PLAN STA HSR2 3099+00 TO STA HSR2 3112+00
UT-C1506	COMPOSITE UTILITIES PLAN STA HSR2 3112+00 TO STA HSR2 3125+00
UT-C1507	COMPOSITE UTILITIES PLAN STA HSR2 3125+00 TO STA HSR2 3138+00
UT-C1508	COMPOSITE UTILITIES PLAN STA HSR2 3138+00 TO STA HSR2 3151+00
UT-C1509	COMPOSITE UTILITIES PLAN STA HSR2 3151+00 TO STA HSR2 3164+00
UT-C1510	COMPOSITE UTILITIES PLAN STA HSR2 3164+00 TO STA HSR2 3177+00
UT-C1511	COMPOSITE UTILITIES PLAN STA HSR2 3177+00 TO STA HSR2 3190+00
UT-C1512	COMPOSITE UTILITIES PLAN STA HSR2 3190+00 TO STA HSR2 3203+00
UT-C1513	COMPOSITE UTILITIES PLAN STA HSR2 3203+00 TO STA HSR2 3216+00
UT-C1514	COMPOSITE UTILITIES PLAN STA HSR2 3216+00 TO STA HSR2 3229+00
UT-C1515	COMPOSITE UTILITIES PLAN STA HSR2 3229+00 TO STA HSR2 3242+00
UT-C1516	COMPOSITE UTILITIES PLAN STA HSR2 3242+00 TO STA HSR2 3255+00
UT-C1517	COMPOSITE UTILITIES PLAN STA HSR2 3255+00 TO STA HSR2 3268+00
UT-C1518	COMPOSITE UTILITIES PLAN STA HSR2 3268+00 TO STA HSR2 3281+00

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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
  
PEPD  
INDEX OF DRAWINGS  
VOLUME 4 - SHEET 1 OF 4

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
GE-A0411  
SCALE  
NO SCALE  
SHEET NO.





**VOLUME 4 - GENERAL, UTILITIES, GRADING & DRAINAGE, TRACTION POWER, COMMUNICATION TOWERS, TRAIN CONTROL & SYSTEM SUPPORT FACILITIES**

**UTILITIES**

DRAWING NO.	DRAWING TITLE
UT-D1914	PROPOSED UTILITIES RELOCATION PLAN - 20" OIL AND FIBER OPTIC DUCTS
UT-D1915	PROPOSED UTILITIES RELOCATION PLAN - 20" OIL AND FIBER OPTIC DUCTS
UT-D1916	PROPOSED UTILITIES RELOCATION PLAN - 20" OIL AND FIBER OPTIC DUCTS
UT-D1917	PROPOSED UTILITIES RELOCATION PLAN - 20" OIL AND FIBER OPTIC DUCTS
UT-D1918	PROPOSED UTILITIES RELOCATION PLAN - 20" OIL AND FIBER OPTIC DUCTS
UT-D1919	PROPOSED UTILITIES RELOCATION PLAN - 20" OIL AND FIBER OPTIC DUCTS
UT-D1920	PROPOSED UTILITIES RELOCATION PLAN - 20" OIL AND FIBER OPTIC DUCTS
UT-D1921	PROPOSED UTILITIES RELOCATION PLAN - 20" OIL AND FIBER OPTIC DUCTS
UT-D1922	PROPOSED UTILITIES RELOCATION PLAN - 20" OIL AND FIBER OPTIC DUCTS
UT-D1923	PROPOSED UTILITIES RELOCATION PLAN - 20" OIL AND FIBER OPTIC DUCTS
UT-D1924	PROPOSED UTILITIES RELOCATION PLAN - 20" OIL AND FIBER OPTIC DUCTS
UT-D1925	PROPOSED UTILITIES RELOCATION PLAN - 20" OIL AND FIBER OPTIC DUCTS
UT-D1926	PROPOSED UTILITIES RELOCATION PLAN - 20" OIL AND FIBER OPTIC DUCTS
UT-D1927	PROPOSED UTILITIES RELOCATION PLAN - 20" OIL AND FIBER OPTIC DUCTS
UT-D1928	PROPOSED UTILITIES RELOCATION PLAN - 20" OIL AND FIBER OPTIC DUCTS
UT-D1929	PROPOSED UTILITIES RELOCATION PLAN - 20" OIL AND FIBER OPTIC DUCTS
UT-D1930	PROPOSED UTILITIES RELOCATION PLAN - 20" OIL AND FIBER OPTIC DUCTS
UT-D1931	PROPOSED UTILITIES RELOCATION PLAN - 20" OIL AND FIBER OPTIC DUCTS
UT-D1932	PROPOSED UTILITIES RELOCATION PLAN - 20" OIL AND FIBER OPTIC DUCTS
UT-D1933	PROPOSED UTILITIES RELOCATION PLAN - 20" OIL AND FIBER OPTIC DUCTS
UT-D1934	PROPOSED UTILITIES RELOCATION PLAN - 20" OIL AND FIBER OPTIC DUCTS
UT-D1935	PROPOSED UTILITIES RELOCATION PLAN - 20" OIL AND FIBER OPTIC DUCTS
UT-D1936	PROPOSED UTILITIES RELOCATION PLAN - 20" OIL AND FIBER OPTIC DUCTS
UT-D1937	PROPOSED UTILITIES RELOCATION PLAN - 20" OIL AND FIBER OPTIC DUCTS
UT-D1938	PROPOSED UTILITIES RELOCATION PLAN - 20" OIL AND FIBER OPTIC DUCTS
UT-D1939	PROPOSED UTILITIES RELOCATION PLAN - 20" OIL AND FIBER OPTIC DUCTS
UT-D1940	PROPOSED UTILITIES RELOCATION PLAN - 20" OIL AND FIBER OPTIC DUCTS
UT-D1941	PROPOSED UTILITIES RELOCATION PLAN - 20" OIL AND FIBER OPTIC DUCTS
UT-D3942	PROPOSED UTILITIES RELOCATION PLAN SAN FERNANDO ROAD - TYPICAL CROSS SECTIONS
UT-D7011	FINAL ROAD REALIGNMENT - VANOWEN ST PROPOSED UTILITY RELOCATION PLAN
UT-D7012	FINAL ROAD REALIGNMENT - VANOWEN ST ROAD IMPACT PLAN
UT-D7021	PROPOSED UTILITIES RELOCATION PLAN - BUENA VISTA GRADE CROSSING
UT-D7022	PROPOSED UTILITIES RELOCATION PROFILE - BUENA VISTA GRADE CROSSING
UT-D7031	PROPOSED UTILITIES RELOCATION PLAN - VICTORY PLACE UNDERPASS
UT-D7032	PROPOSED UTILITIES RELOCATION PROFILE - VICTORY PLACE UNDERPASS
UT-D7041	PROPOSED UTILITIES RELOCATION PLAN - BURBANK BLVD OVERPASS
UT-D7042	PROPOSED UTILITIES RELOCATION PROFILE - BURBANK BLVD OVERPASS
UT-D7051	PROPOSED UTILITIES RELOCATION PLAN - SOUTH FLOWER EXTENSION ROAD
UT-D7071	PROPOSED UTILITIES RELOCATION PLAN - SONORA AVE UNDERPASS HYBRID
UT-D7143	PROPOSED UTILITIES RELOCATION PLAN - CMF ACCESS UNDERPASS SHEET 3 OF 3
UT-D7144	PROPOSED UTILITIES RELOCATION PROFILE - CMF ACCESS UNDERPASS
UT-D7151	PROPOSED UTILITIES RELOCATION PLAN - MAIN STREET OVERPASS SHEET 1 OF 4

**UTILITIES**

DRAWING NO.	DRAWING TITLE
UT-D7152	PROPOSED UTILITIES RELOCATION PLAN - MAIN STREET OVERPASS SHEET 2 OF 4
UT-D7153	PROPOSED UTILITIES RELOCATION PLAN - MAIN STREET OVERPASS SHEET 3 OF 4
UT-D7154	PROPOSED UTILITIES RELOCATION PLAN - MAIN STREET OVERPASS SHEET 4 OF 4
UT-D7155	PROPOSED UTILITIES RELOCATION PLAN - MAIN STREET PROFILE
UT-D7072	PROPOSED UTILITIES RELOCATION PROFILE - SONORA AVE UNDERPASS HYBRID
UT-D7081	PROPOSED UTILITIES RELOCATION PLAN - GRANDVIEW AVE UNDERPASS HYBRID
UT-D7082	PROPOSED UTILITIES RELOCATION PROFILE - GRANDVIEW AVE UNDERPASS HYBRID
UT-D7091	PROPOSED UTILITIES RELOCATION PLAN - FLOWER ST UNDERPASS HYBRID SHEET 1 OF 2
UT-D7092	PROPOSED UTILITIES RELOCATION PLAN - FLOWER ST UNDERPASS HYBRID SHEET 2 OF 2
UT-D7111	PROPOSED UTILITIES RELOCATION PLAN - GOODWIN AVE UNDERPASS SHEET 1 OF 2
UT-D7112	PROPOSED UTILITIES RELOCATION PLAN - GOODWIN AVE UNDERPASS SHEET 2 OF 2
UT-D7113	PROPOSED UTILITIES RELOCATION PLAN - GOODWIN AVE UNDERPASS
UT-D7114	PROPOSED UTILITIES RELOCATION PROFILE - CHEVY CHASE DR PEDESTRIAN UNDERPASS
UT-D7121	PROPOSED UTILITIES RELOCATION PLAN - LOS FELIZ AVE UNDERPASS
UT-D7122	PROPOSED UTILITIES RELOCATION PROFILE - LOS FELIZ AVE UNDERPASS
UT-D7131	PROPOSED UTILITIES RELOCATION PLAN - GLENDALE BLVD UNDERPASS
UT-D7141	PROPOSED UTILITIES RELOCATION PLAN - KERR RD (CMF ACCESS) UNDERPASS SHEET 1 OF 3
UT-D7142	PROPOSED UTILITIES RELOCATION PLAN - CMF ACCESS UNDERPASS SHEET 2 OF 3

**GRADING & DRAINAGE**

DRAWING NO.	DRAWING TITLE
CV-G1101	GRADING AND DRAINAGE STA HSR2 3026+28.46 TO STA HSR2 3034+00
CV-G1101A	GRADING AND DRAINAGE STA HSR2 3034+00 TO STA HSR2 3047+00
CV-G1101B	GRADING AND DRAINAGE STA HSR2 3047+00 TO STA HSR2 3060+00
CV-G1102	GRADING AND DRAINAGE STA HSR2 3060+00 TO STA HSR2 3073+00
CV-G1103	GRADING AND DRAINAGE STA HSR2 3073+00 TO STA HSR2 3086+00
CV-G1104	GRADING AND DRAINAGE STA HSR2 3086+00 TO STA HSR2 3099+00
CV-G1105	GRADING AND DRAINAGE STA HSR2 3099+00 TO STA HSR2 3112+00
CV-G1106	GRADING AND DRAINAGE STA HSR2 3112+00 TO STA HSR2 3125+00
CV-G1107	GRADING AND DRAINAGE STA HSR2 3125+00 TO STA HSR2 3138+00
CV-G1108	GRADING AND DRAINAGE STA HSR2 3138+00 TO STA HSR2 3151+00
CV-G1109	GRADING AND DRAINAGE STA HSR2 3151+00 TO STA HSR2 3164+00
CV-G1110	GRADING AND DRAINAGE STA HSR2 3164+00 TO STA HSR2 3177+00
CV-G1111	GRADING AND DRAINAGE STA HSR2 3177+00 TO STA HSR2 3190+00
CV-G1112	GRADING AND DRAINAGE STA HSR2 3190+00 TO STA HSR2 3203+00
CV-G1113	GRADING AND DRAINAGE STA HSR2 3203+00 TO STA HSR2 3216+00
CV-G1114	GRADING AND DRAINAGE STA HSR2 3216+00 TO STA HSR2 3229+00
CV-G1115	GRADING AND DRAINAGE STA HSR2 3229+00 TO STA HSR2 3242+00
CV-G1116	GRADING AND DRAINAGE STA HSR2 3242+00 TO STA HSR2 3255+00
CV-G1117	GRADING AND DRAINAGE STA HSR2 3255+00 TO STA HSR2 3268+00
CV-G1118	GRADING AND DRAINAGE STA HSR2 3268+00 TO STA HSR2 3281+00
CV-G1119	GRADING AND DRAINAGE STA HSR2 3281+00 TO STA HSR2 3294+00

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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
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PEPD  
INDEX OF DRAWINGS  
VOLUME 4 - SHEET 3 OF 4

CONTRACT NO.  
HSR14-39  
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GE-A0413  
SCALE  
NO SCALE  
SHEET NO.



**VOLUME 4 - GENERAL, UTILITIES, GRADING & DRAINAGE, TRACTION POWER, COMMUNICATION TOWERS, TRAIN CONTROL & SYSTEM SUPPORT FACILITIES**

**GRADING & DRAINAGE**

DRAWING NO.	DRAWING TITLE
CV-G1120	GRADING AND DRAINAGE STA HSR2 3294+00 TO STA HSR2 3307+00
CV-G1121	GRADING AND DRAINAGE STA HSR2 3307+00 TO STA HSR2 3320+00
CV-G1122	GRADING AND DRAINAGE STA HSR2 3320+00 TO STA HSR2 3333+00
CV-G1123	GRADING AND DRAINAGE STA HSR2 3333+00 TO STA HSR2 3346+00
CV-G1124	GRADING AND DRAINAGE STA HSR2 3346+00 TO STA HSR2 3359+00
CV-G1125	GRADING AND DRAINAGE STA HSR2 3359+00 TO STA HSR2 3372+00
CV-G1126	GRADING AND DRAINAGE STA HSR2 3372+00 TO STA HSR2 3385+00
CV-G1127	GRADING AND DRAINAGE STA HSR2 3385+00 TO STA HSR2 3398+00
CV-G1128	GRADING AND DRAINAGE STA HSR2 3398+00 TO STA HSR2 3411+00
CV-G1129	GRADING AND DRAINAGE STA HSR2 3411+00 TO STA HSR2 3424+00
CV-G1130	GRADING AND DRAINAGE STA HSR2 3424+00 TO STA HSR2 3437+00
CV-G1131	GRADING AND DRAINAGE STA HSR2 3437+00 TO STA HSR2 3450+00
CV-G1132	GRADING AND DRAINAGE STA HSR2 3450+00 TO STA HSR2 3463+00
CV-G1133	GRADING AND DRAINAGE STA HSR2 3463+00 TO STA HSR2 3476+00
CV-G1134	GRADING AND DRAINAGE STA HSR2 3476+00 TO STA HSR2 3489+00
CV-G1135	GRADING AND DRAINAGE STA HSR2 3489+00 TO STA HSR2 3502+00
CV-G1136	GRADING AND DRAINAGE STA HSR2 3502+00 TO STA HSR2 3515+00
CV-G1137	GRADING AND DRAINAGE STA HSR2 3515+00 TO STA HSR2 3528+00
CV-G1138	GRADING AND DRAINAGE STA HSR2 3528+00 TO STA HSR2 3541+00
CV-G1139	GRADING AND DRAINAGE STA HSR2 3541+00 TO STA HSR2 3554+00
CV-G1140	GRADING AND DRAINAGE STA HSR2 3554+00 TO STA HSR2 3567+00
CV-G1141	GRADING AND DRAINAGE STA HSR2 3567+00 TO STA HSR2 3580+00
CV-G1142	GRADING AND DRAINAGE STA HSR2 3580+00 TO STA HSR2 3593+00
CV-G1143	GRADING AND DRAINAGE STA HSR2 3593+00 TO STA HSR2 3606+00
CV-G1144	GRADING AND DRAINAGE STA HSR2 3606+00 TO STA HSR2 3619+00
CV-G1145	GRADING AND DRAINAGE STA HSR2 3619+00 TO STA HSR2 3632+00
CV-G1146	GRADING AND DRAINAGE STA HSR2 3632+00 TO STA HSR2 3645+00
CV-G1147	GRADING AND DRAINAGE STA HSR2 3645+00 TO STA HSR2 3658+00
CV-G1148	GRADING AND DRAINAGE STA HSR2 3658+00 TO STA HSR2 3671+00
CV-G1149	GRADING AND DRAINAGE STA HSR2 3671+00 TO STA HSR2 3684+00
CV-G1150	GRADING AND DRAINAGE STA HSR2 3684+00 TO STA HSR2 3697+00
CV-G3101	DRAINAGE TYPICAL SECTIONS
CV-G1301	GRADING AND DRAINAGE - LOCKHEED CHANNEL RELOCATION - SD 60+00 TO SD 72+00
CV-G1302	GRADING AND DRAINAGE - LOCKHEED CHANNEL RELOCATION - SD 72+00 TO SD 86+00
CV-G1303	GRADING AND DRAINAGE - LOCKHEED CHANNEL RELOCATION - SD 86+00 TO SD 100+00
CV-G1304	GRADING AND DRAINAGE - LOCKHEED CHANNEL RELOCATION - SD 100+00 TO SD 114+00
CV-G1305	GRADING AND DRAINAGE - LOCKHEED CHANNEL RELOCATION - SD 114+00 TO SD 128+00
CV-G1306	GRADING AND DRAINAGE - LOCKHEED CHANNEL RELOCATION - SD 63+00 TO SD 77+00 & SD 58+20.01 TO 63+00
CV-G1307	GRADING AND DRAINAGE - LOCKHEED CHANNEL RELOCATION - SD 77+00 TO SD 91+00
CV-G1308	GRADING AND DRAINAGE - LOCKHEED CHANNEL RELOCATION - SD 91+00 TO SD 105+00
ST-B3101	LOCKHEED CHANNEL MODIFICATION - CROSS SECTIONS
CV-G1400	GRADING AND DRAINAGE PROPOSED GOODWIN AVE STORM DRAIN REALIGNMENT

**GRADING & DRAINAGE**

DRAWING NO.	DRAWING TITLE
ST-B3421	GOODWIN AVE STORM DRAIN REALIGNMENT PLAN - CROSS SECTION
CV-G6101	EARTHWORK QUANTITIES - SHEET 1 OF 6
CV-G6102	EARTHWORK QUANTITIES - SHEET 2 OF 6
CV-G6103	EARTHWORK QUANTITIES - SHEET 3 OF 6
CV-G6104	EARTHWORK QUANTITIES - SHEET 4 OF 6
CV-G6105	EARTHWORK QUANTITIES - SHEET 5 OF 6
CV-G6106	EARTHWORK QUANTITIES - SHEET 6 OF 6

**TRACTION POWER & COMMUNICATION**

DRAWING NO.	DRAWING TITLE
TP-B0001	SYSTEM FACILITIES SITE PLAN
TP-04001	TRACTION POWER FACILITY SITE PLAN PROPOSED PARALLELING STATION
TP-04101	TRACTION POWER FACILITY SITE PLAN PROPOSED SWITCHING STATION
CO-F4001	COMMUNICATIONS SYSTEM SITE PLAN PROPOSED STANDALONE RADIO SITE - SHEET 1 OF 5
CO-F4002	COMMUNICATIONS SYSTEM SITE PLAN PROPOSED STANDALONE RADIO SITE - SHEET 2 OF 5
CO-F4003	COMMUNICATIONS SYSTEM SITE PLAN PROPOSED STANDALONE RADIO SITE - SHEET 3 OF 5
CO-F4004	COMMUNICATIONS SYSTEM SITE PLAN PROPOSED STANDALONE RADIO SITE - SHEET 4 OF 5
CO-F4005	COMMUNICATIONS SYSTEM SITE PLAN PROPOSED STANDALONE RADIO SITE - SHEET 5 OF 5

**AUTOMATIC TRAIN CONTROL**

DRAWING NO.	DRAWING TITLE
TC-B0001	HSR TRAIN CONTROL - INTERLOCKING SITE KEY MAP
TC-B0102	NON-HSR TRAIN CONTROL - NON HSR SIGNAL HOUSE KEY MAP
TC-04001	HSR TRAIN CONTROL SYSTEM - PROPOSED INTERLOCKING SITE - SHEET 1 OF 7
TC-04002	HSR TRAIN CONTROL SYSTEM - PROPOSED INTERLOCKING SITE - SHEET 2 OF 7
TC-04003	HSR TRAIN CONTROL SYSTEM - PROPOSED INTERLOCKING SITE - SHEET 3 OF 7
TC-04004	HSR TRAIN CONTROL SYSTEM - PROPOSED INTERLOCKING SITE - SHEET 4 OF 7
TC-04005	HSR TRAIN CONTROL SYSTEM - PROPOSED INTERLOCKING SITE - SHEET 5 OF 7
TC-04006	HSR TRAIN CONTROL SYSTEM - PROPOSED INTERLOCKING SITE - SHEET 6 OF 7
TC-04007	HSR TRAIN CONTROL SYSTEM - PROPOSED INTERLOCKING SITE - SHEET 7 OF 7
TC-04101	NON-HSR TRAIN CONTROL PROPOSED SIGNAL HOUSE SITE - SHEET 1 OF 10
TC-04102	NON-HSR TRAIN CONTROL PROPOSED SIGNAL HOUSE SITE - SHEET 2 OF 10
TC-04103	NON-HSR TRAIN CONTROL PROPOSED SIGNAL HOUSE SITE - SHEET 3 OF 10
TC-04104	NON-HSR TRAIN CONTROL PROPOSED SIGNAL HOUSE SITE - SHEET 4 OF 10
TC-04105	NON-HSR TRAIN CONTROL PROPOSED SIGNAL HOUSE SITE - SHEET 5 OF 10
TC-04106	NON-HSR TRAIN CONTROL PROPOSED SIGNAL HOUSE SITE - SHEET 6 OF 10
TC-D4107	NON-HSR TRAIN CONTROL PROPOSED SIGNAL HOUSE SITE - SHEET 7 OF 10
TC-D4108	NON-HSR TRAIN CONTROL PROPOSED SIGNAL HOUSE SITE - SHEET 8 OF 10
TC-D4109	NON-HSR TRAIN CONTROL PROPOSED SIGNAL HOUSE SITE - SHEET 9 OF 10
TC-D4110	NON-HSR TRAIN CONTROL PROPOSED SIGNAL HOUSE SITE - SHEET 10 OF 10

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**C. CUSSON**  
DRAWN BY  
**C. CUSSON**  
CHECKED BY  
**K. PIRBAZARI**  
IN CHARGE  
**K. PIRBAZARI**  
DATE  
**04/30/2019**

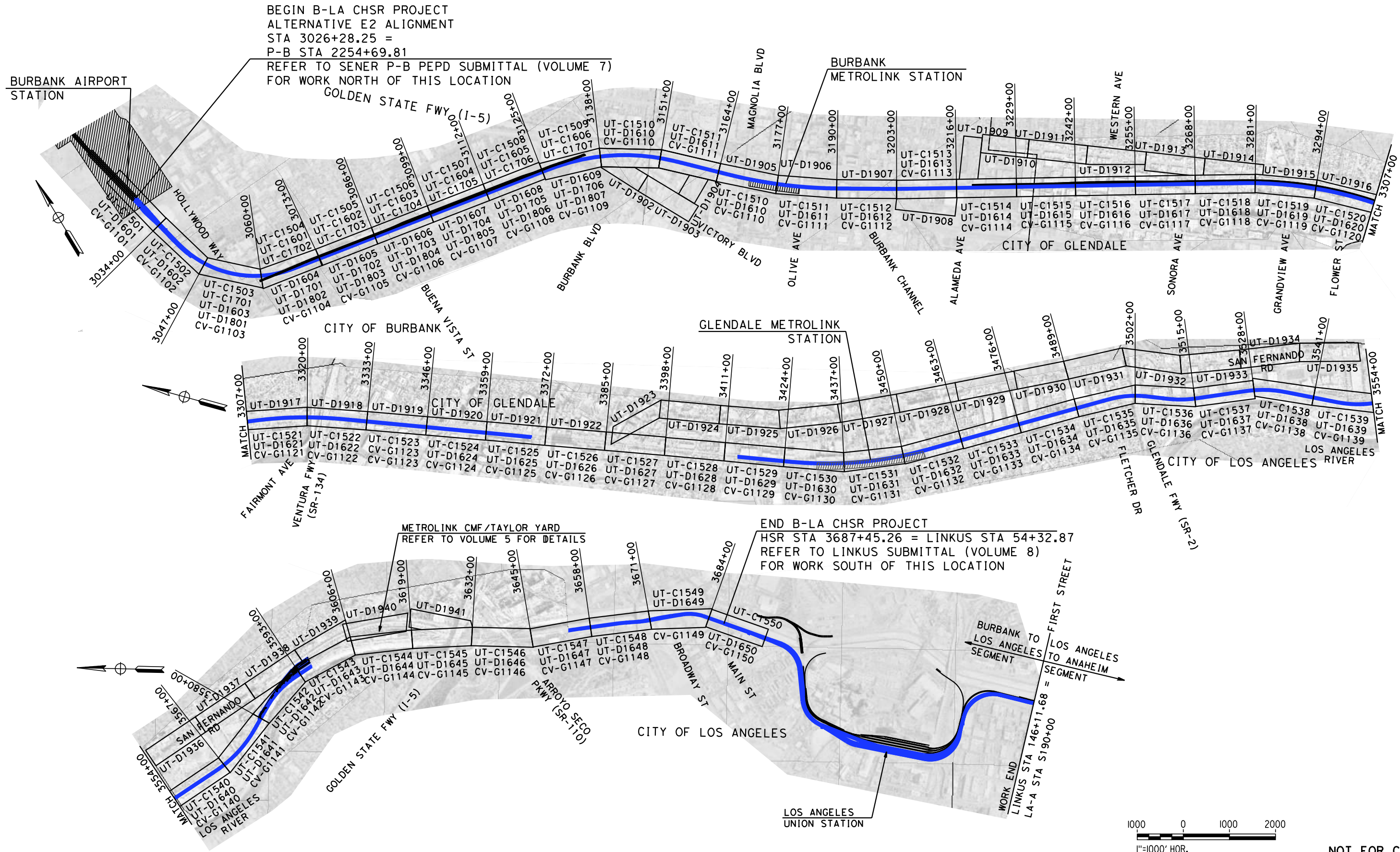
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
  
PEPD  
INDEX OF DRAWINGS  
VOLUME 4 - SHEET 4 OF 4

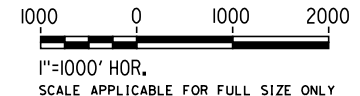
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HSR14-39  
DRAWING NO.  
GE-A0414  
SCALE  
NO SCALE  
SHEET NO.

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BEGIN B-LA CHSR PROJECT  
 ALTERNATIVE E2 ALIGNMENT  
 STA 3026+28.25 =  
 P-B STA 2254+69.81  
 REFER TO SENER P-B PEPD SUBMITTAL (VOLUME 7)  
 FOR WORK NORTH OF THIS LOCATION

END B-LA CHSR PROJECT  
 HSR STA 3687+45.26 = LINKUS STA 54+32.87  
 REFER TO LINKUS SUBMITTAL (VOLUME 8)  
 FOR WORK SOUTH OF THIS LOCATION



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**C. CUSSON**  
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**K. PIRBAZARI**  
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**K. PIRBAZARI**  
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**04/30/2019**

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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
  
 PEPD  
 VOLUME 4 - KEY MAP  
 UTILITIES AND GRADING AND DRAINAGE - SHEET 1 OF 2

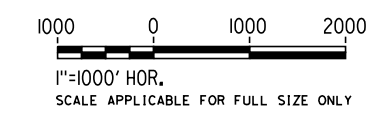
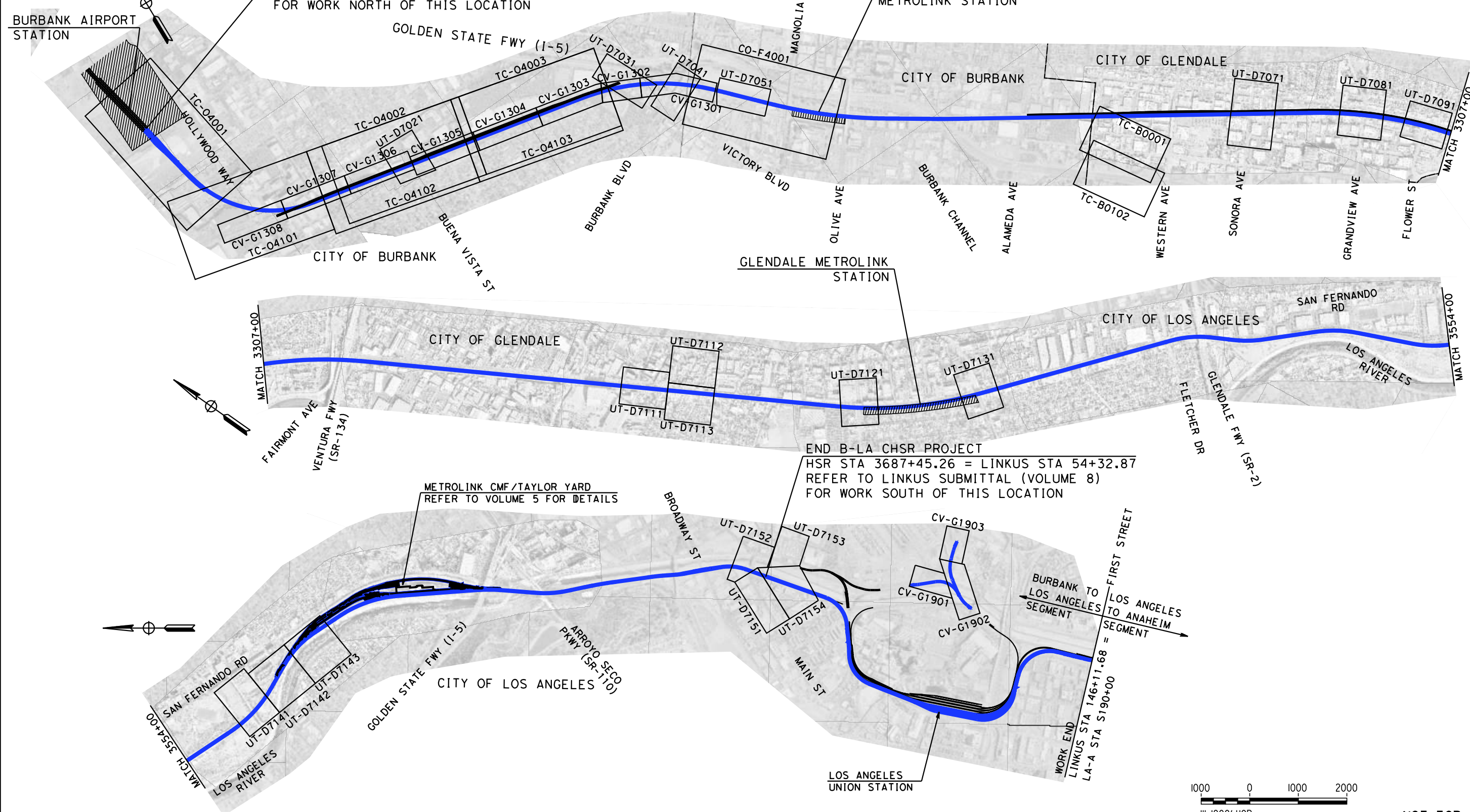
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 HSR14-39  
 DRAWING NO.  
 GE-D0401  
 SCALE  
 AS SHOWN  
 SHEET NO.



BEGIN B-LA CHSR PROJECT  
 ALTERNATIVE E2 ALIGNMENT  
 STA 3026+28.25 =  
 P-B STA 2254+69.81  
 REFER TO SENER P-B PEPD SUBMITTAL (VOLUME 7)  
 FOR WORK NORTH OF THIS LOCATION

END B-LA CHSR PROJECT  
 HSR STA 3687+45.26 = LINKUS STA 54+32.87  
 REFER TO LINKUS SUBMITTAL (VOLUME 8)  
 FOR WORK SOUTH OF THIS LOCATION

METROLINK CMF/TAYLOR YARD  
 REFER TO VOLUME 5 FOR DETAILS



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**C. CUSSON**  
 CHECKED BY  
**K. PIRBAZARI**  
 IN CHARGE  
**K. PIRBAZARI**  
 DATE  
**04/30/2019**

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**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 BURBANK TO LOS ANGELES**

PEPD  
 VOLUME 4 - KEY MAP  
 UTILITIES AND LOCKHEED CHANNEL - SHEET 2 OF 2

CONTRACT NO.  
 HSR14-39  
 DRAWING NO.  
 GE-D0402  
 SCALE  
 AS SHOWN  
 SHEET NO.





A

@ AADT AB ABBC ABM ABN ABUT ABV AC ACB ACMB ACOUS ACP ACR ACSR AD ADJ ADL ADP ADT A&E AEC AED AFC AFES A/G AGW AHD AL ALIGN ALT AM ANC ANI ANN ANS AP APC APE APEFZ API APPROX APU AR ARCH ARS AS ASPH ASRP ASSY AT ATC ATEL ATM ATO ATP ATPB ATPM ATR ATS AUX AVE AVG AVL AWG

B

BAGR BAR BAT BB B-B BC BCR BD BDA

B CONTINUED

BDD BDP BDS BEC BEG BFA BIL BITUM BKLN BK BKF BKR BL BLDG BLKG BLM BLST BLVD BM BN BND BOC BOCC BOS BOT BOW BR

BRG BRKT BRS BRT BS BSC B/SPAN BT BTM BTS BTWN BVC BW B/W BWA B/WLAN BZ

C

C CLOSE, CONDUIT, CONTACT, CONTROL CA CAA CAB CAD CD CAH CAI CALP CANT CAP

CAPB CAS CAT CBTC CBW C&C C-C CCO CCS CCTV CCVT CEG CEM CER C&G

C CONTINUED

CG CGS CHNL CI CIC CIDH CIF CIP C-I-P CIPCP CIS CISS CJ CJP CKT CL CL2 CL-6 CLG CLK CLKG CLO CLR CM CMF CMP CMU CNTR CO COL COMM CONC CONDN CONN CONST CONT CONTR COORD CORR CP CPT CPU CR CRC CRCP CRSP CRZ CS CSA CSG CSP CSPA CT CTB CTPB CTR CTSK CTVT CTW CU CULV CV CVR CW CWA CWR CWT

D

D DB DBE

D CONTINUED

DBL DC DCMB DCP DD DE DEL DEMO DEPT DET DF DGA DHV DI DIAG DIAPH DIFF DIM DIN DIP DIR DISC DISP DIST DISTR DMBB DN DNS DO DPDT DR DS DSC DSCW DSG DSHA DST DTBB DTM DVR DWG DWY DXO

E

E0 E1 E EA EB EC ECR EE EF EGS EHS EI EJ E-LAN ELAST ELEC ELECT ELEV ELOCK EMB EMC EMER EMF EMI EMS EMU ENCL

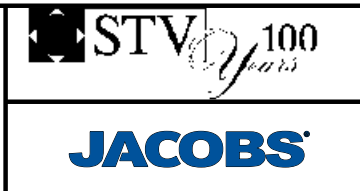
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Table with columns: DESIGNED BY, DRAWN BY, CHECKED BY, IN CHARGE, DATE

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CALIFORNIA HIGH-SPEED TRAIN PROJECT BURBANK TO LOS ANGELES PEPD ACRONYMS AND ABBREVIATIONS SHEET 1 OF 5

Table with columns: CONTRACT NO., DRAWING NO., SCALE, SHEET NO.



E CONTINUED

F CONTINUED

H CONTINUED

L CONTINUED

ENGR ENGINEER, ENGINEERING
EOB END OF BRIDGE
EOD EDGE OF DECK
EOS ELECTRICAL OPERATED BRIDGE
EOW END OF WALL
EP EDGE OF PAVEMENT
EPBM EARTH PRESSURE BALANCING MACHINE
EPR ETHYLENE PROPYLENE RUBBER
EQ EQUAL, EQUILATERAL
EQN EQUATION
EQUIP EQUIPMENT
ES EDGE OF SHOULDER, EXTRA STRENGTH, ELECTRICAL SECTION
ESA ENVIRONMENTALLY SENSITIVE AREA
ESC ESCALATOR
ESEW EMERGENCY SHOWER / EYE WASH
ESMT EASEMENT
ETCS EUROPEAN TRAIN CONTROL SYSTEM
ETEL EMERGENCY TELEPHONE
ETS EMERGENCY TRIP SYSTEM
ETW EDGE OF TRAVELED WAY
EVC END VERTICAL CURVE
EW EACH WAY, ENDWALL
EXC EXCAVATION
EXIST EXISTING
EXP EXPANSION
EXPO EXPOSED
EXWY EXPRESSWAY
EXT EXTERIOR, EXTENSION

FS FINISHED SURFACE
FTEL FIRE TELEPHONE
FTG FOOTING
FTP FILE TRANSFER PROTOCOL
FTW FIXED END TAIL WIRE
FUT FUTURE
FW FEEDER WIRE
FWY FREEWAY
G1 ENTRANCE GRADE, GRADE BEFORE CURVE
G2 EXIT GRADE, GRADE POST CURVE
GALV GALVANIZED
GCL GRADING CONTROL LINE
GD GRADE
GHS GALVANIZED HIGH STRENGTH
GI GENERAL INFORMATION
GIGE GIGABIT ETHERNET
GIS GAS INSULATED SWITCH, GEOGRAPHIC INFORMATION SYSTEM
GL GLASS
G/L GROUND LINE
GMA GROUND MOTION ANALYSIS
GND GROUND
GO-95 PUC GENERAL ORDER 95
GP GRADING PLANE
GPS GLOBAL POSITIONING SYSTEM
GR GUARDRAIL, GROUND ROD
GRP GLASS REINFORCED PLASTIC ROD
GRS GALVANIZED RIGID STEEL
GRX GRADE CROSSING
GSHA GEOLOGIC AND SEISMIC HAZARDS ANALYSIS
GSP GALVANIZED STEEL PIPE
GT GENERAL INFORMATION
GTGM GEOTECHNICAL TECHNICAL GUIDANCE MANUAL (FHWA)
GTR GUTTER
GW GUY WIRE
GYP GYPSUM
GYPBD GYPSUM BOARD

HWY HIGHWAY
I IMPENANCE BOND
IBC INTERNATIONAL BUILDING CODE
IDS INTRUSION DETECTION CODE
IIMP INTERGRATED INFORMATION MANAGEMENT PLATFORM
IJ INSULATED JOINT
IJP INSULATED JOINT PLUG
INSR INSULATOR
INST INSTANTANEOUS
INSUL INSULATION
INT INTERIOR
Inter-LATA INTER-LOCAL ACCESS AND TRANSPORT AREA
INV INVERT
I/O INPUT/OUTPUT
IR IN-RUNNING (RIDING CONTACT WIRE)
IRR IRRIGATION
I/S IN-SPAN
I/SJ IN-SPAN JUMPER

LWP LOWER WORKING POINT
M CONVENTIONAL RAILWAY TRACK
M MEDIUM LOADING
MAINT MAINTENANCE
MAT MATERIAL
MAX MAXIMUM
MB METAL BEAM
MBB METAL BEAM BARRIER
MBGR METAL BEAM GUARD RAILING
MCC MAINTENANCE CONTROL CENTER
MCE MAXIMUM CONSIDERED EARTHQUAKE
MCR MASTER CONTROL ROOM
MDS MOBILE DATA SYSTEM
MECH MECHANICAL
MED MEDIAN
MEM MEMBRANE
MESSGR MESSENGER WIRE
MET METAL
MFR MANUFACTURER
MH MANHOLE
MHHW MEAN HIGHEST HIGH WATER
MI MILD IRON
MIN MINIMUM
MISC MISCELLANEOUS
MKR MARKER
ML MAIN LINE
MLLW MEAN LOWER LOW WATER
MMIS MAINTENANCE MANAGEMENT INFORMATION SYSTEM
MO MASONRY OPENING
MOC MOTOR OPERATED CONTRACTOR
MOD MODIFIED, MODIFY
MODC MOTOR OPERATED DISCONNECT SWITCH
MOI MAINTENANCE OF INFRASTRUCTURE
MON MONUMENT
MOP MOTOR OPERATED
MOS MANUALLY OPERATED SWITCH
MOV METAL-OXIDE VARISTOR
MOW MAINTENANCE OF WAY
MP MILEPOST
MPA MIDPOINT ANCHOR
MPH MILES PER HOUR
MPLS MULTI-PROTOCOL LABEL SWITCHING
MR MOVEMENT RATING
MSE MECHANICALLY STABILIZED EMBANKMENT
MSF MAINTENANCE AND STORAGE FACILITY
MSL MEAN SEA LEVEL
MTD MEMO TO DESIGNERS (CALTRANS), MOUNTED
MUL MULLION
MVC MINIMUM VERTICAL CLEARANCE
MW MESSENGER WIRE

F CONTINUED

H CONTINUED

K CONTINUED

L CONTINUED

FA FIRE ALARM
FACP FIRE ALARM CONTROL PANEL
FAS FIRE ALARM SYSTEM
FB FLAT BAR, FLOOR BEAM, FEEDER BREAKER
FBO FURNISHED BY OTHERS
FC FARE COLLECTION
F&C FRAME AND COVER
FD FLOOR DRAIN
FDC FIRE DEPARTMENT CONNECTION
FDN FOUNDATION
FDP FIBER DISTRIBUTION PANEL
FDR FEEDER
FDU FIBER DISTRIBUTION UNIT
FE FIRE EXTINGUISHER
FES FLARED END SECTION
FF FILTER FABRIC
F/F FACE TO FACE
FFJ FULL FEEDING JUMPER
FFL FINISHED FLOOR LEVEL
FG FINISHED GRADE
F&G FRAME AND GRATE
FH FIRE HYDRANT
FHC FIRE HOSE CABINET
FID FIRE INITIATING DEVICE
FIG FIGURE
FIN FINISH
FIRM FLOOD INSURANCE RATE MAPS
FJ FEEDER JUMPER
FL FLOW LINE
FLB FLOOR BEAM
FLH FLAT HEAD
FLR FLOOR
FNA FIRE NOTIFICATION APPLIANCE
FO FIBER OPTIC
FOC FIBER OPTIC CABLE, FACE OF CURB
FOCN FIBER OPTIC CABLING NETWORK
FOF FACE OF FINISH
FOP FACE OF POLE
FOS FACE OF STUDS, FACTOR OF SAFETY
FP FULL PENETRATION
FPLM FULL SPAN PRECAST LAUNCHING
FPRF FIRE PROOF
FPS FRAMES PER SECOND
FR FRAME
FREO FREQUENCY

HSR1/2 HSR TRACK 1/2/ETC.
HAZ HAZARDOUS
HB HARDNESS BRINELL, HOSE BIBB
HC HANDICAP
HD HARD DRAWN, HORIZONTAL DRAIN
HDG HOT DIP GALVANIZED
HDPE HIGH DENSITY POLYETHYLENE
HDWE HARDWARE
HDWL HEADWALL
HEX HEXAGONAL
HH HANDHOLE, HEAD HARDENED
HI HIGH
HI-RAIL HIGHWAY TO RAILROAD VEHICLE
HM HOLLOW METAL
HMA HOT MIXED ASPHALT
HMI HUMAN MACHINE INTERFACE
HO HAND OPERATED
HOR HORIZONTAL
HOV HIGH-OCCUPANCY VEHICLE
HP HIGH POINT, HINGE POINT
HP&R HIGHWAY PLANTING AND RESTORATION
HPS HIGH PERFORMANCE STEEL
HR HANDRAIL
HRL HIGH RAIL LEVEL
HS HIGH STRENGTH
H/SPAN HEADSPAN
HSR HIGH-SPEED RAIL
HST HIGH-SPEED TRAIN
HT HIGH TEMPERATURE
HTR HEATER
HV HIGH VOLTAGE
HVAC HEATING VENTING AND AIR CONDITIONING
HW HIGH WATER
HWT HIGH WATER TABLE
HWM HIGH WATER MARK

J JUMPER
JAN JANITOR
JB JUNCTION BOX
JCT JUNCTION
JP JOINT POLE
JT(S) JOINT(S)

KV KILOVOLT

L LENGTH
LA LANDSCAPE ARCHITECT, LIGHTING ARRESTER, LOS ANGELES (CALIFORNIA, USA)
LA-A LOS ANGELES TO ANAHEIM
LAM LAMINATE
LAN LOCAL AREA NETWORK
LA-SD LOS ANGELES TO SAN DIEGO
LAT LATITUDE
LAV LAVATORY
LC LENGTH OF CURVE, LANDSCAPE CONTRACTOR
LCB LEAN CONCRETE BASE
LCX LEAKY COAXIAL RADIO CABLE
LDBE LOWER-LEVEL DESIGN BASIS EARTHQUAKE
LED LIGHT EMITTING DIODE
LF LINEAR FEET
LG LONG
LGT LIGHT, LIGHTING
LH LEFT-HAND
LKR LOCKER
LL LIGHT LOADING
LLT LAST LONG TIE
LN LANE
LO LOCKOUT
LOC LOCATION
LOL LAYOUT LINE
LONG LONGITUDE, LONGITUDINAL
LOS LEVEL OF SERVICE
LOTB LOGS OF TEST BORINGS
LP LOW POINT, LOW PROFILE
LPL LIGHT POLE
LR LOW RAIL
LRFD LOAD AND RESISTANCE FACTOR DESIGN
LRT LIGHT RAIL TRANSIT
LRV LIGHT RAIL VEHICLE
LS LENGTH OF SPIRAL, LANDSCAPING, LUMP SUM
LT LEFT
LV LOW VOLTAGE
LVL LEVEL
LVT LOW VIBRATION TRACK

N CONTINUED

N NORTH, NORTHING
N/A NOT APPLICABLE
NAVD NORTH AMERICAN VERTICAL DATUM
NB NORTHBOUND
NBR NONBRIDGING
NCL NO COLLAPSE PERFORMANCE LEVEL
NDP NONLINEAR DYNAMIC PROCEDURE
NEC NATIONAL ELECTRICAL CODE
NEG NEGATIVE
NEUT NEUTRAL
NF NEGATIVE FEEDER, NEAR FACE
NGVD NATIONAL GEODETIC VERTICAL DATUM
NI NETWORK INTERFACE
NIC NOT IN CONTRACT
NMS NETWORK MANAGEMENT SYSTEM
NO NUMBER, NORMALLY OPEN
NOM NOMINAL
NP NETWORK PORT

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DESIGNED BY C. CUSSON
DRAWN BY C. CUSSON
CHECKED BY K. PIRBAZARI
IN CHARGE K. PIRBAZARI
DATE 04/30/2019

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CALIFORNIA HIGH-SPEED TRAIN PROJECT
BURBANK TO LOS ANGELES

PEPD
ACRONYMS AND ABBREVIATIONS
SHEET 2 OF 5

CONTRACT NO. HSR14-39
DRAWING NO. GE-C0402
SCALE NO SCALE
SHEET NO.

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N CONTINUED

NPRM NOTICE OF PROPOSED RULE MAKING
NPS NOMINAL PIPE SIZE
NR NOT REGISTERED
NS NOT SUPPORTED
NT NETWORK
NTP NOTICE TO PROCEED, NETWORK TIME PROTOCOL
NTS NOT TO SCALE NETWORK TIME SERVER

O

OA OVERALL
OBLR OBLITERATE
OC ON CENTER, OVERCROSSING
OCC OPERATIONS CONTROL CENTER
OCS OVERHEAD CONTACT SYSTEM
OF OUTSIDE FACE
OFF OFFSET
OG ORIGINAL GROUND
OH OVERHEAD
O-LA ORANGE COUNTY TO LOS ANGELES OPERATIONS AND MAINTENANCE
O&M OPERATIONS AND MAINTENANCE
O-O OUT TO OUT
OOR OUT-OF-RUNNING (NONRIDING CONTACT WIRE)
OP OVERPASS
OPL OPERABILITY PERFORMANCE LEVEL
OPNG OPENING
OPP OPPOSITE
ORS OPERATIONS RADIO SYSTEM
OSP OUTSIDE PLANT
OVERTEMP OVERTEMPERATURE

P

P-LA PALMDALE TO LOS ANGELES
PA PUBLIC ADDRESS
PACIS PUBLIC ADDRESS/CUSTOMER INFORMATION SYSTEM
PAX PASSENGER
PB PULL BOX, PUSH BUTTON (ON ELECTRICAL DIAGRAMS)
PBX PRIVATE BRANCH EXCHANGE
PC PRECAST CONCRETE
PCC PORTLAND CEMENT CONCRETE
PCP PERFORATED CONCRETE PIPE
PCPT PIEZOCONE PENETROMETER TEST
PE PORCELAIN ENAMEL
PED PEDESTRIAN
PEPD PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PERF PERFORATED
PERM PERMEABLE, PERMANENT
PET POTENTIAL EQUALIZING JUMPER
PF POWER FACTOR
PFDHA PROBABILISTIC FAULT DISPLACEMENT HAZARD ANALYSIS
PGL PROFILE GRADE LINE
PH PHASE
PHE POTHOLE
PID PASSENGER INFORMATION DISPLAY
PITO POINT OF INTERSECTION TURNOUT
PJP PARTIAL JOINT PENETRATION
PL PLATE, PLACE
P/L PROPERTY LINE
PLAM PLASTIC LAMINATE
PLAS PLASTER
PLC PROGRAMMABLE LOGIC CONTROLLER
PLYWD PLYWOOD
PM POST MILE, POST MERIDIEM (TIME FROM NOON TO MIDNIGHT)
PMS PAVEMENT MANAGEMENT SYSTEM
PN PAVING NOTCH
PNL PANEL
PNT POINT
PO PULL OFF
POC POINT OF CONNECTION
POE POINT OF ENDING
POS POSITIVE
POTS PLAIN ORDINARY TELEPHONE SERVICE
PP PLASTIC PIPE, POWER POLE

P CONTINUED

PPL PREFORMED PERMEABLE LINER
PPP PERFORATED PLASTIC PIPE
PR PAIR
PRI PRIMARY RATE INTERFACE (ISDN SERVICE)
PROP PROPOSED
PS PARALLELING STATION, POINT OF SWITCH
P/S PRESTRESSED
PS PARALLELING STATION
PSP PERFORATED STEEL PIPE
PSTN PUBLIC SWITCHED TELEPHONE NETWORK
PSTTWS PUBLIC SAFETY TRENCH AND TUNNEL WIRELESS SYSTEM
PSU POWER SUPPLY UNIT
PT POTENTIAL TRANSFORMER
PTC POSITIVE TRAIN CONTROL
PTD/R PAPER TOWEL DISPENSER AND RECEPTACLE
PTEL PASSENGER ASSISTANCE TELEPHONE
PTM PARKING TICKET MACHINE
PTT PUSH TO TALK
PTZ PAN-TILT-ZOOM
PUE PUBLIC UTILITY EASEMENT
PVC POLYVINYL CHLORIDE, POINT OF VERTICAL CURVATURE, POINT OF VERTICAL INTERSECTION
PVI PAVEMENT
PVMT POINT OF VERTICAL TANGENCY
PVT POWER
PWR

Q

QOS QUALITY OF SERVICE
QT QUARRY TILE
QTY QUANTITY

R

R RADIUS,
RA REMOTE ANNUNCIATOR
R/A ROCK ANCHOR
RAID REDUNDANT ARRAY OF INDEPENDENT DISKS
RB RESILIENT BASE
RBM RAILBOUND MANGANESE FROG
RC REGIONAL CONSULTANT, REINFORCED CONCRETE
RCA REINFORCED CONCRETE ARCH
RCB REINFORCED CONCRETE BOX
RCC REGIONAL CONTROL CENTER
RCE REGISTERED CIVIL ENGINEER
RCP REINFORCED CONCRETE PIPE
RCPA REINFORCED CONCRETE PIPE ARCH
RD ROAD, ROOF DRAIN
R&D REMOVE AND DISPOSE
RDWY ROADWAY
RE RUNNING EDGE OF RAIL
REBAR CONCRETE REINFORCED BAR
RECT RECTANGULAR
REF REFERENCE
REFP REFERENCE POINT
REINFP REINFORCED, REINFORCEMENT, REINFORCING
REL RELOCATE, RELOCATED
REM REMOTE
REPL REPLACEMENT
REQD REQUIRED
RESIL RESILIENT
RET RETAINING
REV REVISED, REVISION
RF RADIO FREQUENCY
RFI REQUEST FOR INFORMATION
RGS RIGID GALVANIZED STEEL
RH RIGHT-HAND
RM RESTRICTED MANUAL, ROOM
R-M ROAD MIXED
RO ROUGH OPENING
ROW RIGHT-OF-WAY
RP RADIUS POINT
RR RAILROAD, RUNNING RAIL

R CONTINUED

RRR RESURFACING, RESTORATION, REHABILITATION (3R)
RRRR RESURFACING, RESTORATION, REHABILITATION, RECONSTRUCTION (4R)
RRX RAILROAD GRADE CROSSING
R&S REMOVE AND SALVAGE
RSP ROCK SLOPE PROTECTION
RT RESILIENT TILE, RIGHT ROUTE
RTE REMOTE TERMINAL UNIT
RTU RETAINING WALL
RW RIGHT-OF-WAY
R/W RAIN WATER LEADER
RWY RAILWAY

S

S SOUTH, SLOPE
SAE STRUCTURE APPROACH EMBANKMENT
SALV SALVAGE
SAPP STRUCTURAL ALUMINUM PLATE PIPE
SB SOUTHBOUND
SC SPIRAL TO CURVE, SWITCH CABLE
SCADA SUPERVISORY CONTROL AND DATA ACQUISITION
SCAT SIMPLE CATENARY - AUTO TENSION
SCB SUBSTATION CONTROL BUILDING
SCC STATION CONTROL CENTER
SCD SEAT COVER DISPENSER
SCFT SIMPLE CATENARY - FIXED TENSION
SCHD SCHEDULE
SCN SECURITY CLASSIFICATION NUMBERS
SCPE SEISMIC CAPACITY AND PERFORMANCE EVALUATION
SCSP SLOTTED CORRUGATED STEEL PIPE
SD STORM DRAIN
SDB SYSTEM DUCT BANK
SDC SEISMIC DESIGN CRITERIA
SDOF SINGLE DEGREE OF FREEDOM
SE SUPER ELEVATION
SECT SECTION
SECTLEG SECTIONALIZING
SEM SEQUENTIAL EXCAVATION METHOD
SEP SEPARATION
SERV SERVICE
SF SPRING FROG
SFS SANTA FE SPRINGS
SG SUBGRADE
SHA SEISMIC HAZARDS ANALYSIS
SHLD SHOULDER
SHS STATE HIGHWAY SYSTEM
SHT SHEET
SI SECTION INSULATOR, SITE INVESTIGATION
SIG SIGNAL
SIM SIMILAR
SLAN PASSENGER STATION LOCAL AREA NETWORK
SM SELECTED MATERIAL
SMF SOLID MANGANESE FROG, SINGLE MODE FIBER
SNF SWING NOSE FROG
SNTP SIMPLE NETWORK TIME PROTOCOL
SP SPARE
SPC SPECIAL
SPEC SPECIFICATION
SPKR SPEAKER
SPL SAFETY PERFORMANCE LEVEL
SPS SMALL PART STEELWORK
SPST SINGLE POLE SINGLE THROW
SPT STANDARD PENETRATION TEST
SQ SQUARE
SR SYSTEM REQUIREMENT, STATE ROUTE
SRRA SAFETY ROADSIDE REST AREA
SRSS SQUARE ROOT OF SUM OF SQUARES
SS SLOPE STAKE, SUBSTATION
S/SPAN STEADY SPAN
SSI SOIL STRUCTURE INTERACTION
SSK SERVICE SINK
SSPA STRUCTURAL STEEL PLATE ARCH
SSPP STRUCTURAL STEEL PLATE PIPE
SSPPA STRUCTURAL STEEL PLATE PIPE ARCH
SSRP STEEL SPIRAL RIB PIPE
SST STAINLESS STEEL

S CONTINUED

SSW STEADY SPAN WIRE
SS SANITARY SEWER
ST SPIRAL TO TANGENT, STREET
STA STATION, STATIONING
STBB SINGLE THRIE BEAM BARRIER
STD STANDARD
STC SINGLE TRACK CANTILEVER
STIFF STIFFENER
STL STEEL
STOR STORAGE
STP SHIELDED TWISTED PAIR CABLE
STR STRUCTURAL, STRUCTURE
STS SPIRAL TANGENT SPIRAL
STW STATIC WIRE
SUPV SUPERVISORY
SURF SURFACING
SUSP SUSPENDED
SW SOUNDWALL, SOFTWARE
SWA SINGLE WIRE ANCHOR
SWAT SINGLE WIRE AUTO TENSIONED
SWFT SINGLE WIRE - FIXED TERMINATION
SWGR SWITCHGEAR
SWK SIDEWALK
SWPPP STORM WATER POLLUTION PREVENTION PLAN
SWR SEWER
SWS SWITCHING STATION
SWT SWITCH
SYM SYMMETRICAL

T

T TREAD
TAN TANGENT
TASAS TRAFFIC ACCIDENT SUREILLANCE ANALYSIS SYSTEM
T&B TOP AND BOTTOM
TBD TO BE DETERMINED
TBM TUNNEL BORING MACHINE
TCL TRACK CENTERLINE
TC TRAIN CONTROL
TCB TRAFFIC CONTROL BOX
TCC TRAIN CONTROL AND COMMUNICATIONS
TCCR TRAIN CONTROL AND COMMUNICATIONS ROOM
TCCCT TRACK CIRCUIT
TCE TEMPORARY CONSTRUCTION EASEMENT
TCP/IP TRANSMISSION CONTROL PROTOCOL/INTERNET PROTOCOL
TCR TRANSMISSION COMMUNICATIONS ROOM
TD TRENCH DRAIN, TIME DELAY
TDA TIRE DERIVED AGGREGATE
TDD TELECOMMUNICATIONS DEVICE FOR THE DEAF
TDM TIME DIVISION MULTIPLEXING
TEL TELEPHONE
TEMP TEMPORARY
TERM TERMINATION
TES TRACTION ELECTRIFICATION SYSTEM
TESC TEMPORARY EROSION AND SETTLEMENT CONTROL
TETEL TRAIN EMERGENCY TELEPHONE/SPEAKERPHONE
TFE TETRAFLUROETHYLENE
TG TOP OF GRADE
THK THICK
TIS TELEPHONE AND INTERCOM SYSTEM
TK TRACK
TL TENSION LENGTH
TM TECHNICAL MEMORANDUM
TMP TEMPERATURE
TO TURNOUT, TELECOM OUTLET
TOC TOP OF CURB
TOG TOP OF GRATE
TOL TOLERANCE
TOLR TOP OF LOW RAIL
TOF TOP OF FOUNDATION
TOFG TOP OF FINISH GRADE
TOP TOP OF PAVEMENT
TOR TOP OF RAIL

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DESIGNED BY C. CUSSON
DRAWN BY C. CUSSON
CHECKED BY K. PIRBAZARI
IN CHARGE K. PIRBAZARI
DATE 04/30/2019

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CALIFORNIA HIGH-SPEED TRAIN PROJECT BURBANK TO LOS ANGELES

PEPD ACRONYMS AND ABBREVIATIONS SHEET 3 OF 5

CONTRACT NO. HSR14-39
DRAWING NO. GE-C0403
SCALE NO SCALE
SHEET NO.

**T CONTINUED**

**W CONTINUED**

**TRACK GEOMETRY - HORIZONTAL**

**UNITS OF MEASUREMENT**

TOS TOP OF SLOPE  
 TOT TOP OF TIE,  
 TOTAL  
 TOW TOP OF WALL  
 TP TELEPHONE POLE,  
 TRACTION POWER  
 TPB TREATED PERMEABLE BASE  
 TPD TOILET PAPER DISPENSER  
 TPF TRACTION POWER FACILITY  
 TPM TREATED PERMEABLE MATERIAL  
 TPS TRACTION POWER SUPPLY SYSTEM  
 TPSS TRACTION POWER SUBSTATION  
 (INCLUDING PARALLEL AND SWITCHING STATIONS)  
 T/R TOP OF RAIL ELEVATION  
 TRANS TRANSVERSE,  
 TRANSITION  
 TRK TRACK  
 TS TRAFFIC SIGNAL,  
 TANGENT TO SPIRAL,  
 TUBULAR STEEL  
 TSI TECHNICAL SPECIFICATIONS FOR INTEROPERABILITY  
 TSM TRAFFIC SYSTEMS MANAGEMENT  
 TSMP TRAFFIC SYSTEMS MANAGEMENT PLAN  
 TTC TWO TRACK CANTILEVER  
 TTEL TRAIN EMERGENCY SPEAKERPHONE  
 TV TELEVISION  
 TVS(S) TICKET VENDING MACHINE(S)  
 TW TIE WIRE  
 TWC TIME WARNER CABLE  
 TWT TIME WARNER TELEPHONE  
 TYP TYPICAL

W/ WITH  
 WA WORK AREA  
 WB WESTBOUND  
 WC WATER CLOSET  
 WCS WIRELESS COMMUNICATIONS SYSTEM  
 WD WOOD  
 WLAN WIRELESS LOCAL AREA NETWORK  
 WM WIRE MESH  
 W/O WITHOUT  
 WP WORK POINT,  
 WOOD POLE  
 WPF WATERPROOF  
 WPC WAYSIDE POWER CUBICLES  
 WR WIRE RUN  
 WRT WITH RESPECT TO  
 WS WATER SURFACE,  
 WORK STATION  
 WSP WELDED STEEL PIPE  
 WT WEIGHT  
 WV WATER VALVE  
 WW WINGWALL,  
 WALKWAY  
 WWF WELDED WIRE FABRIC  
 WWJCL WELDED STEEL PIPE  
 WWLOL WINGWALL LAYOUT LINE  
 WWM WELDED WIRE MESH

BC BEGIN HORIZONTAL CURVE  
 CC COMPOUND CURVE  
 CS POINT OF CHANGE FROM CIRCULAR CURVE TO SPIRAL  
 K1 TANGENT DISTANCE PF SHIFT PC REFERENCE  
 TO THE TS  
 K2 TANGENT DISTANCE PF SHIFT PT REFERENCE  
 TO THE ST  
 LC LENGTH OF CIRCULAR CURVE  
 Ls1 LENGTH OF SPIRAL FROM TS TO SC  
 Ls2 LENGTH OF SPIRAL FROM CS TO ST  
 LSc LENGTH OF COMPOUND SPIRAL FROM CS TO SC  
 p1 OFFSET FROM INITIAL TANGENT TO PC OF THE  
 SHIFTED CIRCLE OF SPIRALIZED CURVE  
 p2 OFFSET FROM INITIAL TANGENT TO PT OF THE  
 SHIFTED CIRCLE OF SPIRALIZED CURVE  
 PC POINT OF CURVATURE  
 PCC POINT OF COMPOUND CURVE  
 PF POINT OF FROG  
 PI POINT OF INTERSECTION  
 PITO POINT OF INTERSECTION TURNOUT  
 POC POINT ON HORIZONTAL CURVE  
 POE POINT OF ENDING  
 POS POINT ON SPIRAL  
 POVc POINT ON VERTICAL CURVE  
 POVT POINT ON VERTICAL TANGENT  
 PRC POINT OF REVERSE CURVE  
 PRVC POINT OF REVERSE VERTICAL CURVE  
 PS POINT OF SWITCH  
 PT POINT OF TANGENT  
 SC POINT OF CHANGE FROM SPIRAL TO CIRCULAR CURVE  
 SPO POINT ON ORIGIN OF COMPOUND SPIRAL  
 SS POINT OF CHANGE BETWEEN SPIRALS  
 SSC SPIRAL TO SPIRAL POINT OF CURVATURE  
 ST POINT OF CHANGE FROM SPIRAL TO TANGENT  
 TC POINT OF CHANGE FROM TANGENT TO CURVE  
 TS POINT OF CHANGE FROM TANGENT TO SPIRAL  
 Ts1 TANGENT DISTANCE FROM TS TO PI  
 Ts2 TANGENT DISTANCE FROM ST TO PI  
 Xs1 TANGENT OFFSET AT THE SC  
 Xs2 TANGENT OFFSET AT THE CS  
 Δ TOTAL CENTRAL ANGLE OF THE SPIRALIZED CURVE  
 Δc CENTRAL ANGLE OF CIRCULAR CURVE (Lc) FROM  
 SC TO CS  
 Δc1 CENTRAL ANGLE OF FIRST CIRCULAR CURVE OF  
 COMPOUND CURVATURE  
 Δc2 CENTRAL ANGLE OF SECOND CIRCULAR CURVE OF  
 COMPOUND CURVATURE  
 θs1 CENTRAL ANGLE OF SPIRAL LENGTH Ls1 OR SPIRAL  
 ANGLE OF FIRST SPIRAL IN SPIRALIZED CURVE  
 θs2 CENTRAL ANGLE OF SPIRAL LENGTH Ls2 OR SPIRAL  
 ANGLE OF SECOND SPIRAL IN SPIRALIZED CURVE  
 θsc CENTRAL ANGLE OF COMPOUND SPIRAL OR  
 COMPOUND SPIRAL ANGLE FROM CS TO SC

Ac ACRES  
 AMP AMPERES  
 BTU BRITISH THERMAL UNIT  
 CAL CALIPER  
 CF CUBIC FEET  
 CP CANDLE POWER  
 CY CUBIC YARD  
 dB DECIBEL  
 DEG DEGREE  
 DIA DIAMETER  
 Eu UNBALANCED SUPERELEVATION  
 F FARENHEIT  
 FT FOOT,  
 FEET  
 g ACCELERATION DUE TO GRAVITY  
 GA GAUGE  
 GAL GALLON  
 GB GIGABYTE  
 GBPS GIGABITS PER SECOND  
 GHZ GIGAHERTZ  
 HR HOUR  
 HT HEIGHT  
 Hz HERTZ  
 ID INSIDE DIAMETER  
 IF INSIDE FACE  
 IN INCHES  
 IR INSIDE RADIUS  
 K KIPS (1000 POUNDS)  
 KCMIL THOUSAND CIRCULAR MILS  
 KHz KILOHERTZ  
 KSF KIPS PER SQUARE FOOT  
 KSI KIPS PER SQUARE INCH  
 KV KILOVOLTS  
 KVA KILOVOLTS-AMPERE  
 KVAR KILOVOLTS-AMPERE REACTIVE  
 KW KILOWATT  
 KWH/D KILOWATT HOUR / DEMAND  
 L LENGTH  
 LB POUNDS  
 LB/FT POUNDS PER FOOT  
 LF LINEAR FOOT  
 m METER  
 MBPS MEGABITS PER SECOND  
 MCM THOUSAND CIRCULAR MILS  
 MHz MEGAHERTZ  
 mm MILLIMETER  
 MPH MILES PER HOUR  
 MVA MEGAVOLT-AMPERE  
 MW MEGAWATT  
 OD OUTSIDE DIAMETER  
 PSF POUNDS PER SQUARE FOOT  
 PSI POUNDS PER SQUARE INCH  
 PSIG POUNDS PER SQUARE INCH GAUGE  
 SEC SECOND  
 SF SQUARE FEET  
 SY SQUARE YARD  
 TF TRACK FEET  
 VA VOLTS  
 VAC VOLT-AMPERE  
 Y YARDS  
 YR(S) YEAR(S)

**X**

X/CAT CROSS CANTENARY  
 XD TRANSDUCER  
 XFMR TRANSFORMER  
 XO CROSSOVER  
 XOST CROSSOVER SPRING TENSIONER  
 XSEC CROSS SECTION  
 X/SPAN CROSS SPAN  
 XING CROSSING  
 XMITTER TRANSMITTER

**TRACK GEOMETRY - VERTICAL**

BVC BEGIN VERTICAL CURVE  
 Eo ACTUAL SUPERELEVATION  
 EVC END VERTICAL CURVE  
 PCVC POINT OF COMPOUND VERTICAL CURVE  
 POVc POINT ON VERTICAL CURVE  
 POVT POINT ON VERTICAL TANGENT  
 PVI POINT OF VERTICAL INTERSECTION  
 VC VERTICAL CURVE  
 VPI VERTICAL POINT OF INTERSECTION

**U**

UB UTILITY BOX  
 UBC UNIFORM BUILDING CODE  
 UC UNDERCROSSING  
 UD UNDERDRAIN  
 UG UNDERGROUND,  
 UNDERGRADE  
 UGB UNDERGRADE BRIDGE  
 UI USER INTERFACE  
 UNINS UNINSULATED  
 UON UNLESS OTHERWISE NOTED  
 UP UNDERPASS  
 UPS UNINTERRUPTIBLE POWER SUPPLY  
 UR URINAL  
 UrEDAS URGENT EARTHQUAKE DETECTION AND ALARM SYSTEM  
 USCS UNIFIED SOIL CLASSIFICATION SYSTEM  
 UTIL UTILITY  
 UTPUN SHIELDED TWISTED PAIR  
 UWP UPPER WORKING POINT

**V**

V VELOCITY,  
 DESIGN SPEED,  
 VALVE  
 VAC VOLTS ALTERNATING CURRENT  
 VAR VARIABLE,  
 VARIES  
 VCAT VIRTUAL CONCETENATION  
 VCE VERTICAL CIRCULATION ELEMENT  
 VCP VITRIFIED CLAY PIPE  
 VCT VINYL COMPOSITION TILE  
 VCD VOLT DC  
 VE VALUE ENGINEERING  
 VERT VERTICAL  
 VEST VESTIBULE  
 VIA VIADUCT  
 VLAN VIRTUAL LOCAL AREA NETWORK  
 VMS VARIABLE MESSAGE SIGN,  
 VARIABLE MESSAGE SYSTEM  
 VOL VOLTIMETER,  
 VOLUME  
 VOIP VOICE OVER INTERNET PROTOCOL  
 VPN VIRTUAL PRIVATE NETWORK  
 VRCS VOICE RADIO COMMUNICATIONS SYSTEM  
 VS VOLTAGE SWITCH  
 VT VOLTAGE TRANSFORMER/TRANSDUCER

**W**

W WEST,  
 WIDTH

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
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**C. CUSSON**  
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 IN CHARGE  
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**04/30/2019**

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**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 BURBANK TO LOS ANGELES**  
 PEPD  
 ACRONYMS AND ABBREVIATIONS  
 SHEET 4 OF 5

CONTRACT NO.  
 HSR14-39  
 DRAWING NO.  
 GE-C0404  
 SCALE  
 NO SCALE  
 SHEET NO.



**(AGENCIES/ORGANIZATIONS/REFERENCE)**

AAR ASSOCIATION OF AMERICAN RAILROADS  
 AASHTO AMERICAN ASSOCIATION OF STATE HIGHWAY TRANSPORTATION OFFICIALS  
 ACI AMERICAN CONCRETE INSTITUTE  
 ADA AMERICAN WITH DISABILITIES ACT (FEDERAL)  
 AISC AMERICAN INSTITUTE OF STEEL CONSTRUCTION  
 AMTRAK NATIONAL RAILROAD PASSENGER CORPORATION  
 ANSI AMERICAN NATIONAL STANDARDS INSTITUTE  
 ANSS ADVANCED NATIONAL SEISMIC SYSTEM  
 APWA AMERICAN PUBLIC WORKS ASSOCIATION  
 AREA AMERICAN RAILWAY ENGINEERING ASSOCIATION  
 AREMA AMERICAN RAILWAY ENGINEERING AND MAINTENANCE-OF-WAY ASSOCIATION  
 ARTIC ANAHEIM REGIONAL TRANSPORTATION INTERMODAL CENTER  
 ASCE AMERICAN SOCIETY OF CIVIL ENGINEERS  
 ASTM ASTM INTERNATIONAL, AMERICAN SOCIETY OF TESTING AND MATERIALS  
 ATC APPLIED TECHNOLOGY COUNCIL  
 AUTHORITY CALIFORNIA HIGH-SPEED RAIL AUTHORITY  
 AWS AMERICAN WELDING SOCIETY  
 BART BAY AREA RAPID TRANSIT DISTRICT  
 BDA BRIDGE DESIGN AIDS (CALTRANS)  
 BDD BRIDGE DESIGN DETAILS (CALTRANS)  
 BDP BRIDGE DESIGN PRACTICE (CALTRANS)  
 BDS BRIDGE DESIGN SPECIFICATIONS (CALTRANS)  
 BKLN BIKE LANE  
 BNSF BURLINGTON NORTHERN SANTA FE RAILWAY, BNSF RAILWAY  
 CALNET CALIFORNIA INTEGRATED TELECOMMUNICATIONS NETWORK  
 CALTRANS CALIFORNIA DEPARTMENT OF TRANSPORTATION  
 CBC CALIFORNIA BUILDING CODE  
 CBDM CALIFORNIA DEPARTMENT OF TRANSPORTATION-BRIDGE DESIGN MANUAL  
 CCR CALIFORNIA CODE OF REGULATIONS  
 CDC CALIFORNIA HIGH-SPEED TRAIN DESIGN CRITERIA  
 CEC CALIFORNIA ELECTRIC CODE  
 CEQA CALIFORNIA ENVIRONMENTAL QUALITY ACT  
 CFR CODE OF FEDERAL REGULATIONS  
 CHD COUNTY HEALTH DEPARTMENT  
 CHP CALIFORNIA DEPARTMENT OF HIGHWAY PATROL (STATE)  
 CHST CALIFORNIA HIGH-SPEED TRAIN  
 CHSTP CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 CIWMB CALIFORNIA INTEGRATED WASTE MANAGEMENT BOARD  
 CPH CALIFORNIA PERMIT HANDBOOK  
 CPUC CALIFORNIA PUBLIC UTILITIES COMMISSION  
 CRR COMMUTER RAIL PROGRAM (STATE)  
 DOD DEPARTMENT OF DEFENSE (FEDERAL)  
 DOT DEPARTMENT OF TRANSPORTATION (FEDERAL)  
 DTX DOWNTOWN EXTENSION (CALTRAIN)  
 EIRENE EUROPEAN INTEGRATED RADIO ENHANCED NETWORK  
 ERTMS EUROPEAN RAIL TRAFFIC MANAGEMENT SYSTEM  
 FAA FEDERAL AVIATION ADMINISTRATION  
 FCC FEDERAL COMMUNICATIONS COMMISSION  
 FEMA FEDERAL EMERGENCY MANAGEMENT AGENCY  
 FHWA FEDERAL HIGHWAY ADMINISTRATION  
 FMFCD FRESNO METROPOLITAN FLOOD CONTROL DISTRICT  
 FRA FEDERAL RAILROAD ADMINISTRATION  
 FSTIP FEDERAL STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM  
 FTA FEDERAL TRANSIT ADMINISTRATION  
 GBR GEOTECHNICAL BASELINE REPORT  
 GBR-B GEOTECHNICAL BASELINE REPORT FOR BIDDING  
 GBR-C GEOTECHNICAL BASELINE REPORT FOR CONSTRUCTION  
 GDR GEOTECHNICAL DATA REPORT  
 IEEE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS  
 ISO INTERNATIONAL ORGANIZATION FOR STANDARDIZATION  
 LACFCD LOS ANGELES COUNTY FLOOD CONTROL DEPARTMENT  
 LADWP LOS ANGELES DEPARTMENT OF WATER AND POWER  
 LAUS LOS ANGELES UNION STATION  
 LTC LOCAL TRANSPORTATION COMMISSION  
 METRO LOS ANGELES COUNTY METROPOLITAN TRANSIT AUTHORITY  
 MTA METROPOLITAN TRANSIT AUTHORITY  
 MUTCD MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES  
 MWD METROPOLITAN WATER DISTRICT  
 NAAQS NATIONAL AMBIENT AIR QUALITY STANDARDS  
 NAC NOISE ABATEMENT CRITERIA  
 NBSSR NOISE BARRIER SCOPE SUMMARY REPORT

**(AGENCIES/ORGANIZATIONS/REFERENCE CONTINUED)**

NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION  
 NENA NATIONAL EMERGENCY NUMBER ASSOCIATION  
 NESC NATIONAL ELECTRICAL SAFETY CODE  
 NFPA NATIONAL FIRE PROTECTION ASSOCIATION  
 NIST NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY  
 OCFCD ORANGE COUNTY FLOOD CONTROL DISTRICT  
 OCTA ORANGE COUNTY TRANSPORTATION AUTHORITY  
 OSHA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION  
 PEER PACIFIC EARTHQUAKE ENGINEER RESEARCH  
 PG&E PACIFIC GAS AND ELECTRIC COMPANY  
 PUC PUBLIC UTILITIES COMMISSION  
 RSA RAIL SAFETY IMPROVEMENT ACT (2008)  
 RWOCB REGIONAL WATER QUALITY CONTROL BOARD (STATE)  
 SAVE SOCIETY OF AMERICAN VALUE ENGINEERS  
 SCE SOUTHERN CALIFORNIA EDISON  
 SCRRA SOUTHERN CALIFORNIA REGIONAL RAIL AUTHORITY (METROLINK)  
 SDG&E SAN DIEGO GAS AND ELECTRIC COMPANY  
 SDNR SAN DIEGO NORTHERN RAILWAY  
 SHOPP STATE HIGHWAY OPERATION AND PROTECTION PROGRAM (FORMERLY HSOPP)  
 SHPO STATE HISTORIC PRESERVATION OFFICER (STATE)  
 SJRRA SAN JOAQUIN REGIONAL RAIL AUTHORITY  
 SMUD SACRAMENTO MUNICIPAL UTILITY DISTRICT  
 SPTC SOUTHERN PACIFIC TRANSPORTATION COMPANY  
 SSCOM SEISMIC SAFETY COMMISSION  
 SSORC SAFETY AND SECURITY OVERSIGHT AND REVIEW COMMITTEE  
 SVBX SILICON VALLEY BERRYESSA EXTENSION  
 SVRT SILICON VALLEY RAPID TRANSIT  
 UPRR UNION PACIFIC RAILROAD  
 US UNITED STATES  
 USCE UNITED STATES (ARMY) CORP OF ENGINEERS  
 USCG UNITED STATES COAST GUARD  
 USCS UNIFIED SOIL CLASSIFICATION SYSTEM  
 VTA VALLEY TRANSPORTATION AUTHORITY (OF SANTA CLARA COUNTY)

**(SEGMENT/COUNTY CODES AND SUBDIVISIONS)**

AJ ALTAMONT PASS  
 BP BAKERSFIELD TO PALMDALE  
 FB FRESNO TO BAKERSFIELD  
 FJ SAN FRANCISCO TO SAN JOSE  
 JM SAN JOSE TO MERCED  
 LD LOS ANGELES TO SAN DIEGO  
 LO LOS ANGELES TO ANAHEIM  
 MF MERCED TO FRESNO  
 PL PALMDALE TO LOS ANGELES  
 SM SACRAMENTO TO MERCED  
 B BAY SUBDIVISION  
 C CAPITAL SUBDIVISION  
 D DESERT SUBDIVISION  
 J SAN JACINTO SUBDIVISION  
 P PACHECO SUBDIVISION  
 S SIERRA SUBDIVISION  
 T TONGVA SUBDIVISION  
 ALA ALAMEDA  
 ALP ALPINE  
 AMA AMADOR  
 BUT BUTTE  
 CAL CALAVERAS  
 CC CONTRA COSTA  
 COL COLUSA  
 DN DEL NORTE  
 ED EL DORADO  
 FRE FRESNO  
 GLE GLENN  
 HUM HUMBOLT  
 IMP IMPERIAL  
 INY INYO  
 KER KERN  
 KIN KINGS  
 LA LOS ANGELES  
 LAK LAKE  
 LAS LASSEN  
 MAD MADERA  
 MEN MENDOCINO  
 MER MERCED  
 MNO MONO  
 MOD MODOC  
 MON MONTEREY  
 MPA MARIPOSA  
 MRN MARIN  
 NAP NAPA  
 NEV NEVADA  
 ORA ORANGE  
 PLA PLACER  
 PLU PLUMAS  
 RIV RIVERSIDE  
 SAC SACRAMENTO  
 SB SANTA BARBARA  
 SBD SAN BERNARDINO  
 SBT SAN BENITO  
 SCL SANTA CLARA  
 SCR SANTA CRUZ  
 SD SAN DIEGO  
 SF SAN FRANCISCO  
 SHA SHASTA  
 SIE SIERRA  
 SIS SISKIYOU  
 SJ SAN JOAQUIN  
 SLO SAN LUIS OBISPO  
 SM SAN MATEO  
 SOL SOLANO  
 SON SONOMA  
 STA STANISLAUS  
 SUT SUTTER  
 TEH TEHAMA  
 TRI TRINITY  
 TUL TULARE  
 TUO TUOLUMNE  
 VEN VENTURA  
 YOL YOLO  
 YUB YUBA

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DESIGNED BY  
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**04/30/2019**

**PEPD RECORD SET**  
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
 PEPD  
 ACRONYMS AND ABBREVIATIONS  
 SHEET 5 OF 5

CONTRACT NO.  
 HSR14-39  
 DRAWING NO.  
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 SCALE  
 NO SCALE  
 SHEET NO.

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**TRACK**

	EXISTING FREIGHT/PASSENGER TRACK
	NEW MAINLINE AND/OR INDUSTRY TRACK (SEE TRACK PLANS FOR DESIGNATION)
	BALLAST
	BUMPER/BUMPING POST
	CONCRETE
	DERAIL-DENOTES DERAIL DIRECTION AND LOCATION OF SWITCH MACHINE (LEFT-HAND SHOWN)
	DOUBLE CROSSOVER
	EARTH
	FRICTION BUFFER
	INSULATED JOINT
	INSULATED JOINT LOCATIONS-BOTH RAIL
	INSULATED JOINT LOCATIONS-LEFT RAIL
	INSULATED JOINT LOCATIONS-RIGHT RAIL
	POINT OF CURVATURE
	POINT OF SWITCH-DENOTES SWITCH MACHINE LOCATION
	PREPARED SUBGRADE
	RAIL LUBRICATOR-DIRECTION OF TRAVEL, (DT), TWO RAIL LUBRICATORS SHOWN
	SINGLE CROSSOVER (LEFT-HAND SHOWN)
	SPECIAL RAIL
	STANDARD BOLTED JOINT
	STANDARD RAIL
	SUBBALLAST
	TURNOUT (RIGHT HAND SHOWN)
	WELDED JOINT
	CONTROL POINT (CP)
	WALKWAY/DRAINAGE ENVELOPE

**CIVIL**

	AGGREGATE BASE
	ASPHALT CONCRETE
	BEGIN OR END PLATFORM
	BIKE STAND
	BREAK LINE
	BORINGS (EXISTING)
	CENTERLINE
	CENTERLINE TEXT SYMBOL
	CLEAN OUT
	COLUMN, BENT
	CONCRETE
	CONCRETE BARRIER
	CONTOUR LINE
	CONTROL PANEL
	CONTROL POINT OR STREET INTERSECTION POINT
	COORDINATE GRID CROSSAIR
	CURB WITH GUTTER (CURB-LIP, FLOW LINE, BACK-TOP OF CURB)
	CURVE NUMBER
	CURVE NUMBER (TRACK GEOMETRY)
	TANGENT NUMBER
	DITCH/DRAINAGE FLOW LINE
	DOUBLE THRIE BEAM BARRIER
	DROP INLET
	ROUND DROP INLET
	DETENTION BASIN
	EARTHWORK LIMITS
	ELEVATIONS

**CIVIL CONTINUED**

	ELEVATION (EXISTING)
	ELECTROLIER, ELECTROLIER ON POLE
	EXISTING GUARD RAILING
	EXISTING WALL
	FENCE
	FIRE HYDRANT
	GRADED/LANDSCAPED AREA
	GAS METER
	GAS VALVE
	GUARD POST
	GUARD RAIL
	GRAVEL OR DIRT ROAD
	GUY WIRE
	HIGH MAST LIGHTING
	HORIZONTAL & VERTICAL CONTROL MONUMENT
	HORIZONTAL CONTROL MONUMENT
	ICV
	MAIL BOX
	MANHOLE
	MATCH LINE
	NEW ASPHALTIC CONCRETE
	NEW GUARD RAILING
	NEWS STAND
	NORTH ARROW
	ORIGINAL GROUND
	PARKING METER
	POINT OF INTERSECTION

**CIVIL CONTINUED**

	POINT OF INTERSECTION SYMBOL
	POINT OF VERTICAL INTERSECTION
	POWER POLE
	PROPERTY LINE
	RETAINING WALL
	RIVER, STREAMS, AND CREEKS
	SECTION DESIGNATION (LETTER) DRAWING NO. ON WHICH SECTION AND DETAIL APPEARS
	SECTION OR DETAIL TITLE
	SCALE 1"=1'-0"
	SPOT ELEVATION
	TILDE (TERMINATOR)
	SIGNALIZED INTERSECTION
	STATION EQUATION
	STREET LIGHT
	STREET LIGHT POWER POLE
	STREET LIGHT TRAFFIC SIGNAL
	STREET SIGN
	STRUCTURE CLEARANCE ENVELOPE
	SUPER AXIS OF ROTATION
	TELEPHONE BOOTH
	TELEPHONE POLE
	TEMPORARY RAILING (TYPE K)
	TIRE DERIVED AGGREGATE
	TRACK ALIGNMENT CENTER LINE
	TRAFFIC PANEL
	TRAFFIC SIGNAL
	TRANSMISSION TOWER

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY <b>C. CUSSON</b>
DRAWN BY <b>C. CUSSON</b>
CHECKED BY <b>K. PIRBAZARI</b>
IN CHARGE <b>K. PIRBAZARI</b>
DATE <b>04/30/2019</b>

**PEPD  
RECORD SET**

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CONSTRUCTION**

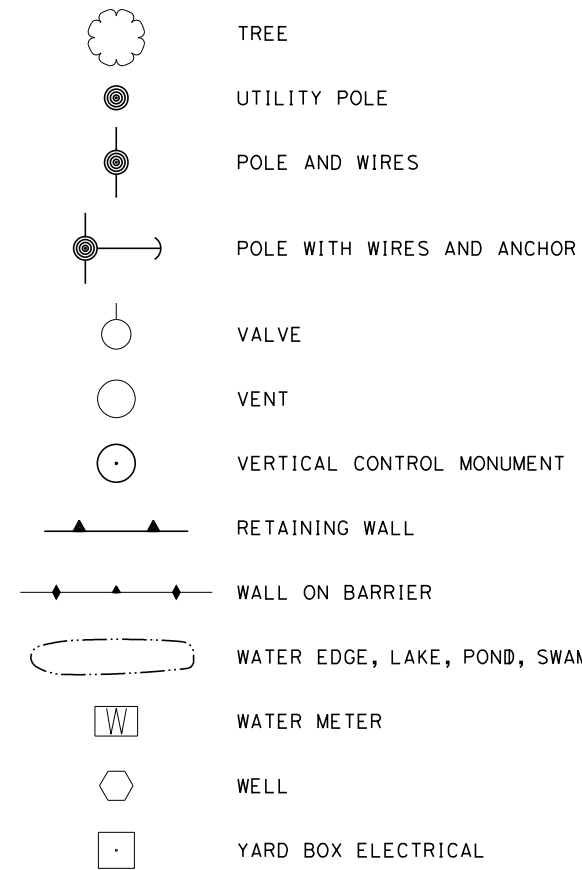


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

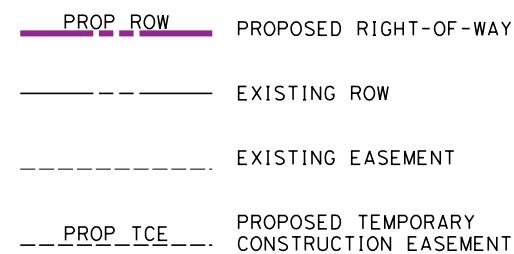
PEPD  
SYMBOLS  
SHEET 1 OF 2

CONTRACT NO. HSR14-39
DRAWING NO. GE-C0411
SCALE NO SCALE
SHEET NO.

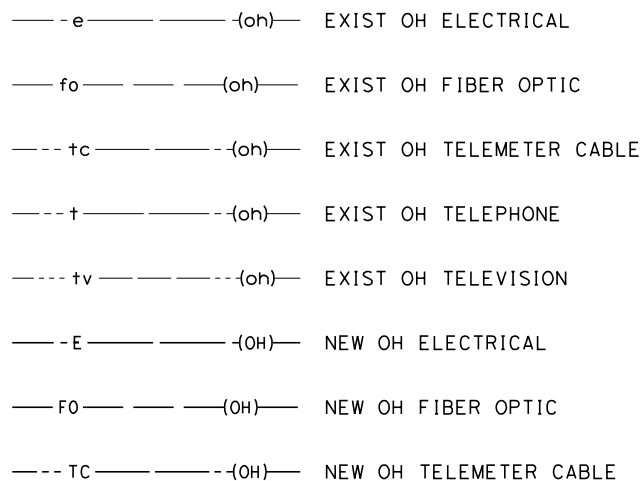
**CIVIL CONTINUED**



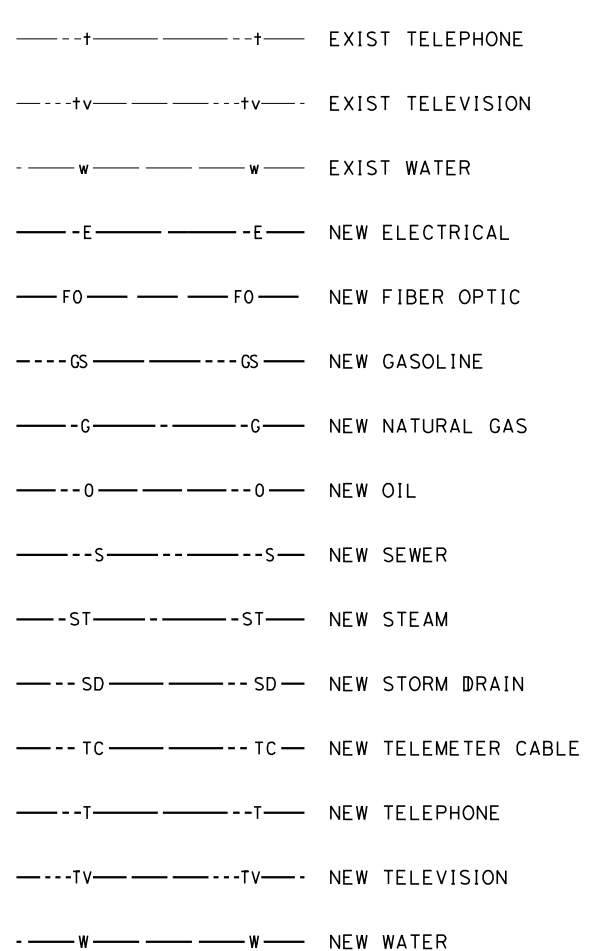
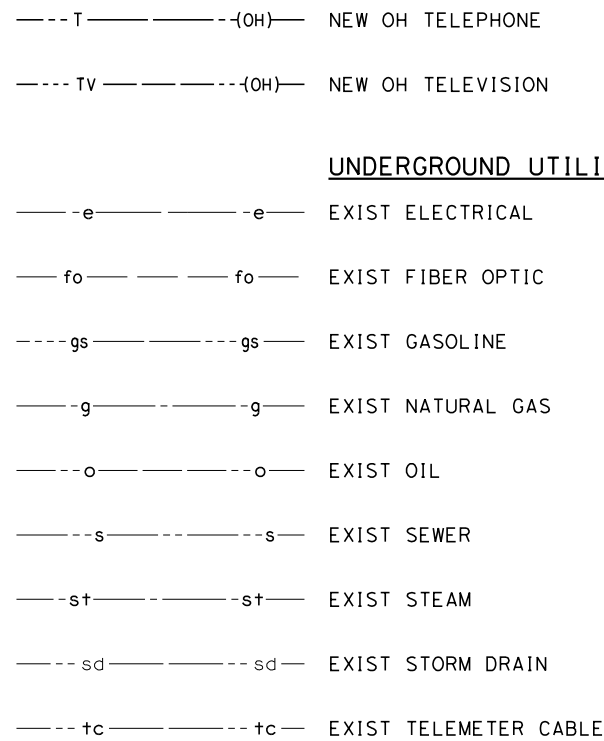
**RIGHT-OF-WAY**



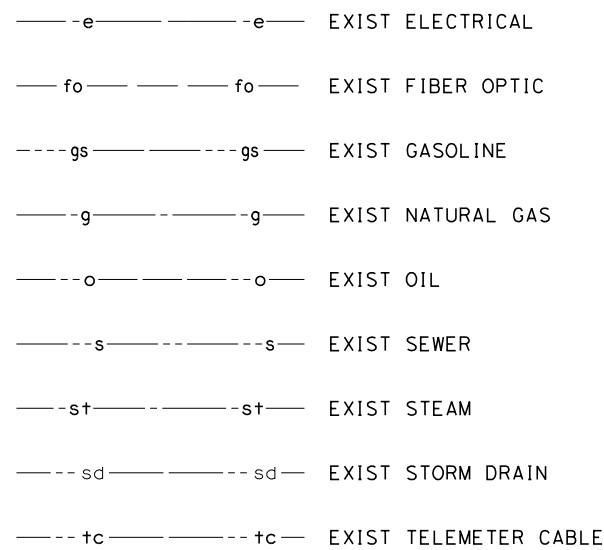
**AERIAL UTILITIES**



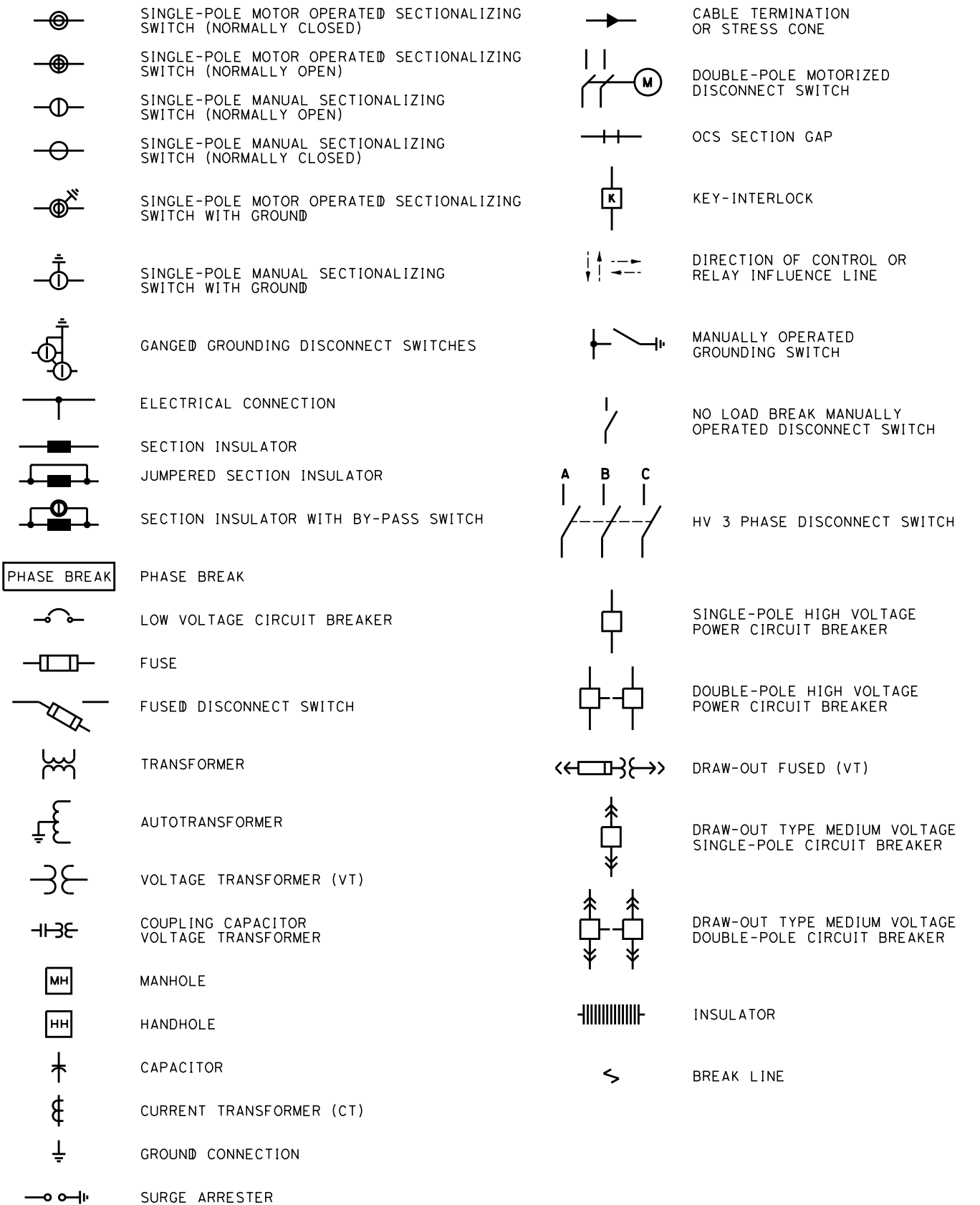
**AERIAL UTILITIES CONTINUED**



**UNDERGROUND UTILITIES**



**TRACTION POWER**



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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**C. CUSSON**  
DRAWN BY  
**C. CUSSON**  
CHECKED BY  
**K. PIRBAZARI**  
IN CHARGE  
**K. PIRBAZARI**  
DATE  
**04/30/2019**

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**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**  
  
PEPD  
SYMBOLS  
SHEET 2 OF 2

CONTRACT NO.  
**HSR14-39**  
DRAWING NO.  
**GE-C0412**  
SCALE  
**NO SCALE**  
SHEET NO.



**GENERAL NOTES**

**VOLUME 1**

1. FOR UPRR ALIGNMENTS, SEE "TT-D1500" SHEETS.
2. FOR GRADE SEPARATION DETAILS, SEE VOLUME 3.
3. FOR AERIAL STRUCTURE DETAILS, SEE VOLUME 2.
4. RAIL ALIGNMENT BETWEEN MAIN STREET, UNION STATION, AND 1ST STREET IS BEING DESIGNED BY METRO'S LINKUS TEAM. THE ALIGNMENT THAT IS SHOWN IS BASED ON LATEST COORDINATION WITH THEIR TEAM, SHOWN FOR REFERENCE ONLY AND SUBJECT TO CHANGE.
5. SCRRA TURNOUT GEOMETRY IS BASED ON THE 2009 EDITION OF THE SCRRA ENGINEERING STANDARDS.
6. PROPOSED FENCE, WHERE INDICATED ON PLANS, REPRESENT AN ACCESS CONTROL WALL WITH FENCE. REFER TO TM 2.8.2 FOR ACCESS CONTROL FOR HIGH-SPEED RAIL RIGHT-OF-WAY AND FACILITIES.

**VOLUME 2**

1. FOR TRACK INFORMATION, SEE TRACK PLANS IN VOLUME 1.
2. FOR RIGHT-OF-WAY INFORMATION, SEE RIGHT-OF-WAY PLANS IN VOLUME 1.
3. FOR BRIDGE INFORMATION, SEE STRUCTURAL PLANS IN VOLUME 3.
4. FOR UTILITY INFORMATION, SEE UTILITY PLANS IN VOLUME 4.
5. FOR GRADING INFORMATION, SEE GRADING PLANS IN VOLUME 4.
6. FOR DRAINAGE INFORMATION, SEE DRAINAGE PLANS IN VOLUME 4.
7. FOR SYSTEM INFORMATION, SEE SYSTEM PLANS IN VOLUME 4.
8. FOR TRENCH INFORMATION, SEE STRUCTURAL PLANS IN VOLUME 4.
9. ACCESS DETERING SOLID BARRIER RAILING TO BE INSTALLED ON ALL EXISTING AND PROPOSED OVERHEAD BRIDGE STRUCTURES CROSSING HSR TRACKS PER RDP DIRECTIVE NO. 0006.

**VOLUME 3**

1. FOR TRACK INFORMATION, SEE TRACK PLANS IN VOLUME 1.
2. FOR RIGHT-OF-WAY INFORMATION, SEE RIGHT-OF-WAY PLANS IN VOLUME 1.
3. FOR AERIAL STRUCTURE INFORMATION, SEE STRUCTURAL PLANS IN VOLUME 2.
4. FOR RETAINING WALL INFORMATION, SEE RETAINING WALL PLANS IN VOLUME 2.
5. FOR UTILITY INFORMATION, SEE UTILITY PLANS IN VOLUME 4.
6. FOR GRADING INFORMATION, SEE GRADING PLANS IN VOLUME 4.
7. FOR DRAINAGE INFORMATION, SEE DRAINAGE PLANS IN VOLUME 4.
8. FOR SYSTEM INFORMATION, SEE SYSTEM PLANS IN VOLUME 4.
9. FOR TRENCH INFORMATION, SEE STRUCTURAL PLANS IN VOLUME 4.
10. ACCESS DETERING SOLID BARRIER RAILING TO BE INSTALLED ON ALL EXISTING AND PROPOSED OVERHEAD BRIDGE STRUCTURES CROSSING HSR TRACKS PER RDP DIRECTIVE NO. 0006.

**VOLUME 4**

EXISTING COMPOSITE 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:
    - I. SEWER, WATER, STORM DRAIN GREATER THAN OR EQUAL TO 12".
    - II. ALL OIL LINES.
    - III. ALL FUEL (GASOLINE) LINES.
  - B. DRY UTILITIES:
    - I. ALL GAS LINES.
    - II. ALL FIBER OPTIC LINES.
    - III. ALL ELECTRIC LINES GREATER THAN 240V.
    - IV. ALL DUCT BANKS WITH 6 OR MORE DUCTS.
    - V. EXCLUDE INDIVIDUAL TELEPHONE, CABLE LINES.
  - C. ALL OTHER CONFLICTS ARE CONSIDERED MINOR AND ARE NOT SHOWN IN THE UTILITY CONFLICT MATRIX.
  - D. UTILITIES AT GRADE SEPARATIONS ARE NOT 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.
4. REFER TO TRACK PLANS, VOLUME 1 AND PROPOSED UTILITY PLANS, VOLUME 4, FOR VERTICAL UTILITY CONFLICTS.

**VOLUME 4 (CONT.)**

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

GRADING AND DRAINAGE NOTES:

1. CONTOUR GRADING ALONG THE HSR 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 5**

1. FOR MAIN LINE TRACK INFORMATION, SEE TRACK PLANS IN VOLUME 1.
2. FOR RIGHT-OF-WAY INFORMATION, SEE RIGHT-OF-WAY PLANS IN VOLUME 1.
3. FOR BRIDGE INFORMATION, SEE STRUCTURAL PLANS IN VOLUME 3.
4. FOR UTILITY INFORMATION, SEE UTILITY PLANS IN VOLUME 4.
5. FOR GRADING INFORMATION WITHIN MAIN LINE ROW, SEE GRADING PLANS IN VOLUME 4.
6. FOR DRAINAGE INFORMATION WITHIN MAIN LINE ROW, SEE DRAINAGE PLANS IN VOLUME 4.
7. FOR SYSTEM INFORMATION, SEE SYSTEM PLANS IN VOLUME 4.

**VOLUME 6**

1. CONSTRUCTION PHASING PROVIDED FOR PROPOSED WORK SOUTH OF HSR BURBANK STATION TO MAIN STREET. PHASING OF HSR BURBANK STATION AND LINKUS PROJECT NOT INCLUDED AS PART OF THIS SUBMITTAL

**VOLUME 7**

1. HSR BURBANK STATION CONCEPT DESIGN PROVIDED AS REFERENCE TO WORK PROPOSED AS PART OF THE PALMDALE TO BURBANK SEGMENT. FINAL DESIGN COORDINATION REQUIRED AT INTERFACE SOUTH OF STATION.

**VOLUME 8**

1. LINKUS 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 TOWER BRIDGE. PROPOSED TRACK DESIGN BASED ON BEST AVAILABLE INFORMATION AT TIME OF DESIGN.

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY <b>C. LEE</b>
DRAWN BY <b>C. CUSSON</b>
CHECKED BY <b>K. PIRBAZARI</b>
IN CHARGE <b>K. PIRBAZARI</b>
DATE <b>04/30/2019</b>

**PEPD  
RECORD SET**

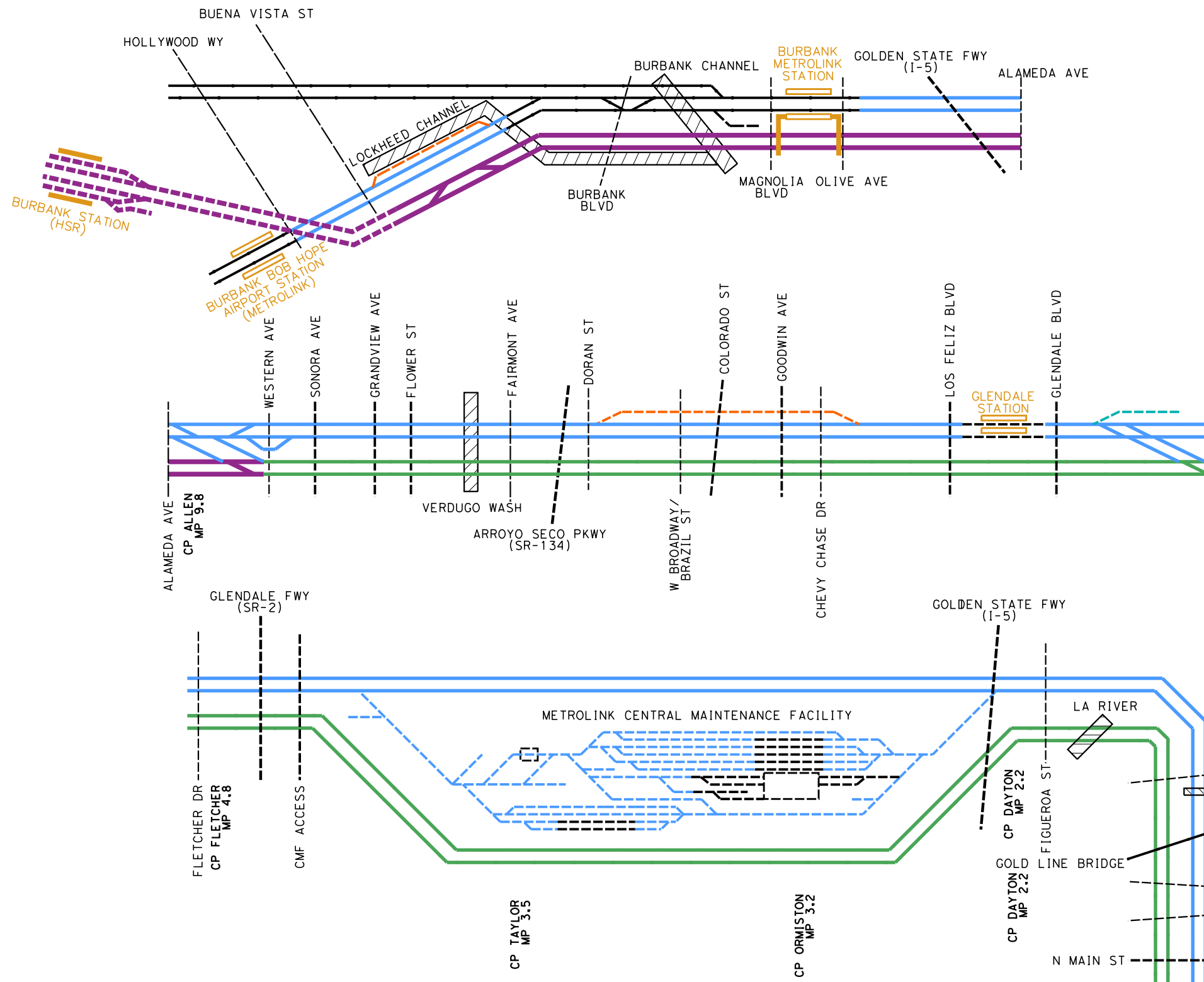
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

PEPD  
GENERAL NOTES

CONTRACT NO. HSR14-39
DRAWING NO. GE-B0411
SCALE NO SCALE
SHEET NO.



**LEGEND (TRACKWORK)**

- EXISTING FREIGHT/PASSENGER MAINLINE TRACK
- - - EXISTING FREIGHT/PASSENGER SECONDARY TRACK
- NEW AMTRAK/METROLINK/UPRR MAINLINE TRACK
- NEW AMTRAK/METROLINK TRENCH/TUNNEL
- - - NEW AMTRAK/METROLINK SECONDARY TRACK
- NEW UPRR MAINLINE TRACK
- - - NEW UPRR SECONDARY TRACK
- - - NEW TERRY LUMBER SPUR TRACK
- NEW HSR TRACK ELEVATED
- NEW HSR TRACK AT GRADE
- - - NEW HSR TRACK TRENCH/TUNNEL
- NEW SHARED MAINLINE TRACK
- - - NEW SHARED SECONDARY TRACK
- NEW TRACK BRIDGE

- EXISTING STATION PLATFORM
- EXISTING STATION PLATFORM WITH PEDESTRIAN BRIDGE/TUNNEL
- NEW STATION PLATFORM
- NEW STATION PLATFORM WITH PEDESTRIAN BRIDGE/TUNNEL

**LEGEND (ROADWAY)**

- - - EXISTING AT-GRADE CROSSING
- - - EXISTING GRADE SEPARATION (LOCAL STREET)
- - - EXISTING GRADE SEPARATION (MAJOR HWY/FREEWAY)
- - - NEW OR MODIFY GRADE SEPARATION

**LEGEND (GENERAL)**

- ▨ DRAINAGE SYSTEM

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DESIGNED BY  
**C. LEE**

DRAWN BY  
**C. CUSSON**

CHECKED BY  
**K. PIRBAZARI**

IN CHARGE  
**K. PIRBAZARI**

DATE  
**04/30/2019**

**PEPD  
RECORD SET**

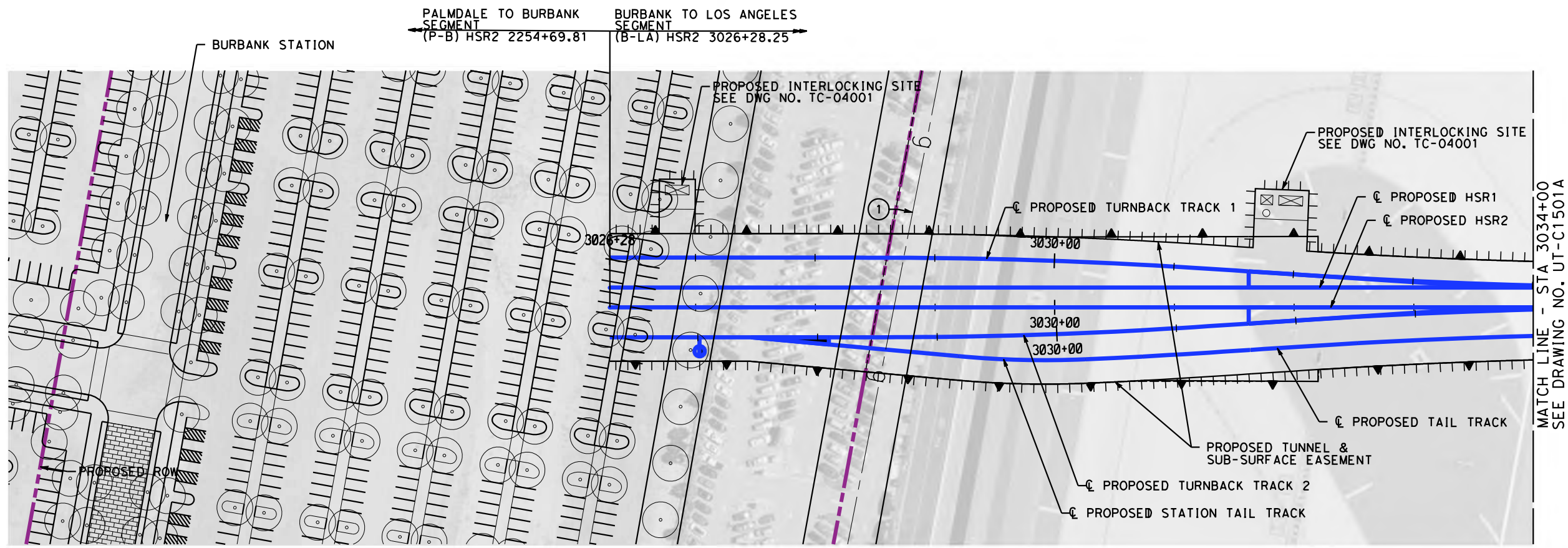
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CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

PEPD  
TRACK SCHEMATIC

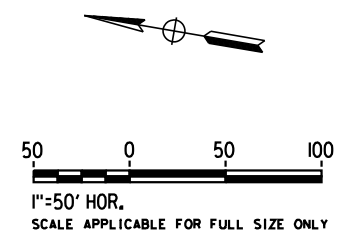
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DRAWING NO. GE-D6401
SCALE NO SCALE
SHEET NO.



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	GAS	GAS LINE	STA 3028+59	SC GAS	RELOCATE

NOTE: NO UTILITY AS-BUILT INFORMATION HAS BEEN PROVIDED BY THE AIRPORT AUTHORITY.



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DESIGNED BY  
**R. PETERS**  
DRAWN BY  
**C. CUSSON**  
CHECKED BY  
**C. ADAMS**  
IN CHARGE  
**K. PIRBAZARI**  
DATE  
**04/30/2019**

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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
  
PEPD  
COMPOSITE UTILITIES PLAN  
HSR2 3026+28 TO HSR2 3034+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-C1501  
SCALE  
AS SHOWN  
SHEET NO.

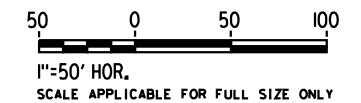
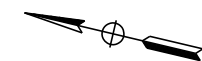




MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①					

NOTE: NO UTILITY AS-BUILT INFORMATION HAS BEEN PROVIDED BY THE AIRPORT AUTHORITY.



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**K. PIRBAZARI**  
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**04/30/2019**

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RECORD SET**

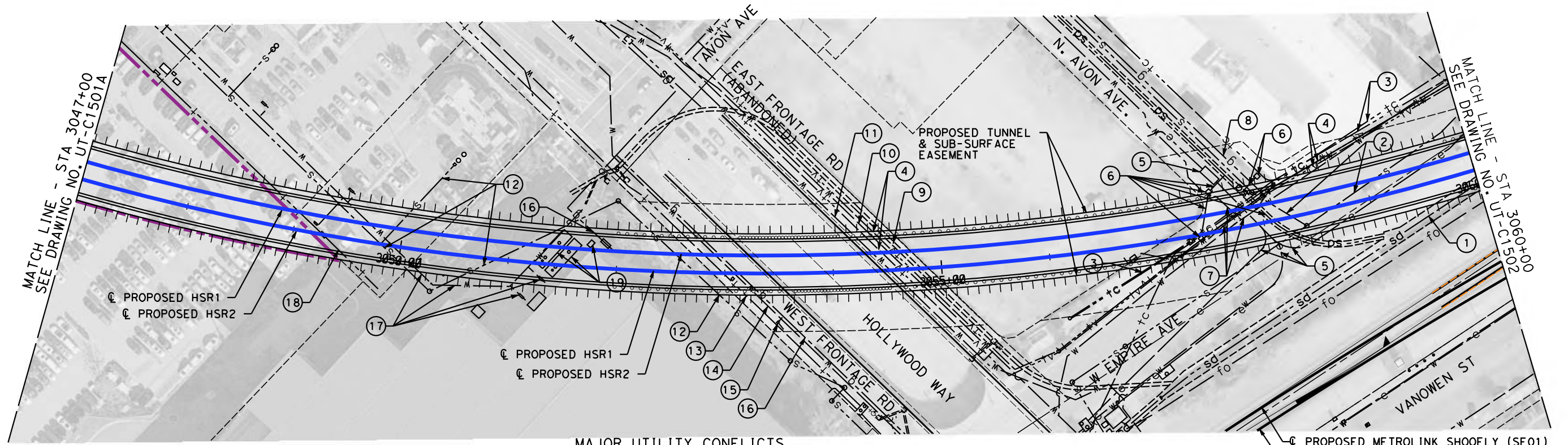
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

PEPD  
COMPOSITE UTILITIES PLAN  
HSR2 3034+00 TO HSR2 3047+00

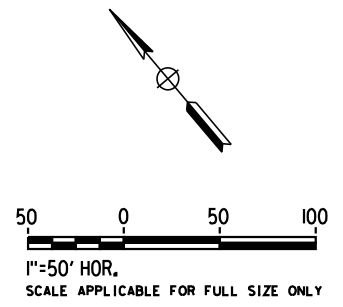
CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-C1501A  
SCALE  
AS SHOWN  
SHEET NO.



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	STORM DRAIN	12' WIDE LOCKHEED CHANNEL	STA 3059+05 TO 3060+00	LACFCD	RELOCATE, SEE SHT. CV-G1308
②	SEWER	8" VCP & 14" CIP SEWER LINE	STA 3057+84 TO 3060+00	CITY OF BURBANK	RELOCATE
③	TELECOMMUNICATION	UNDERGROUND CABLE LINE	STA 3056+65 TO 3060+00	TBD	RELOCATE
④	CABLE T.V.	UNDERGROUND CABLE TV LINE	STA 3054+14 TO 3060+00	ABOVE NET	RELOCATE
⑤	ELECTRICAL	UNDERGROUND ELECTRICAL LINES	STA 3057+51 TO 3060+00	BURBANK WATER & POWER	RELOCATE
⑥	STORM DRAIN	60" RCP & LATERALS PIPELINES	STA 3057+38 TO 3059+06	CITY OF BURBANK	RELOCATE
⑦	WATER	8" & 24" CI WATER LINE, W/SERVICES	STA 3057+04 TO 3058+89	BURBANK WATER & POWER	RELOCATE
⑧	GAS	2" GAS LINE	STA 3057+89 TO 3058+08	SC GAS	RELOCATE
⑨	STORM DRAIN	39" RCP STORM DRAIN LINE	STA 3054+80	CITY OF BURBANK	RELOCATE
⑩	WATER	8" CI WATER LINE	STA 3054+68	BURBANK WATER & POWER	RELOCATE
⑪	WATER	30" DI WATER LINE	STA 3054+53	BURBANK WATER & POWER	RELOCATE
⑫	SEWER	X" SEWER LINES	STA 3049+09 TO 3053+10	CITY OF BURBANK	RELOCATE
⑬	TELECOMMUNICATION	UNDERGROUND CABLE LINE	STA 3052+99	BELL SYSTEMS	RELOCATE
⑭	WATER	18" DI WATER LINE	STA 3053+09	BURBANK WATER & POWER	RELOCATE
⑮	ELECTRICAL	UNDERGROUND ELECTRICAL LINES	STA 3053+49	BURBANK WATER & POWER	RELOCATE
⑯	GAS	6" GAS LINE & SERVICE LATERAL	STA 3051+56 TO 3053+48	SC GAS	RELOCATE
⑰	WATER	X" WATER LINE & SERVICE LATERALS	STA 3049+21 TO 3051+63	BURBANK WATER & POWER	RELOCATE
⑱	TELECOMMUNICATION	UNDERGROUND CABLE LINE	STA 3049+28	AT&T	RELOCATE
⑲	FUEL	UNDERGROUND FUEL TANKS	STA 3051+25 TO 3051+79	CAR RENTAL	RELOCATE

PROPOSED METROLINK SHOOFLY (SF01)  
 PROPOSED METROLINK SHOOFLY (SF02)



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DESIGNED BY  
**R. PETERS**  
 DRAWN BY  
**C. CUSSON**  
 CHECKED BY  
**C. ADAMS**  
 IN CHARGE  
**K. PIRBAZARI**  
 DATE  
**04/30/2019**

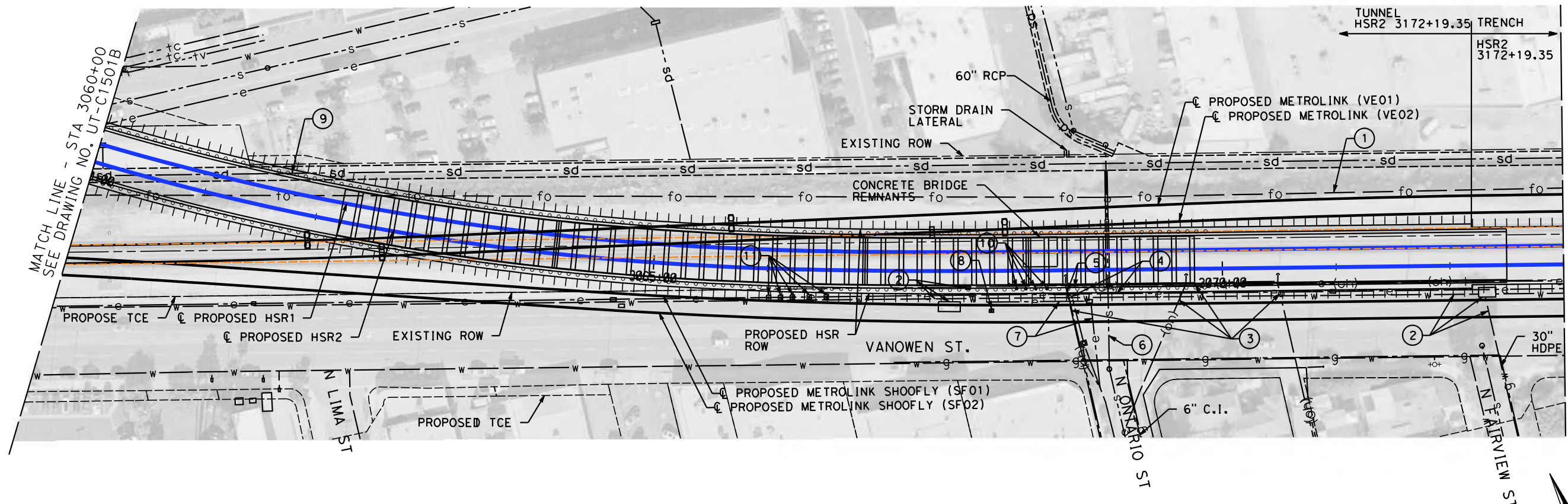
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
  
 PEPD  
 COMPOSITE UTILITIES PLAN  
 HSR2 3047+00 TO HSR2 3060+00

CONTRACT NO.  
 HSR14-39  
 DRAWING NO.  
 UT-C1501B  
 SCALE  
 AS SHOWN  
 SHEET NO.

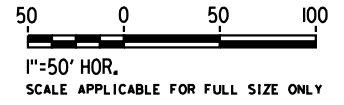




MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	FIBER	UNDERGROUND FIBER	STA 3060+00 TO 3073+00	MCI/SPRINT	RELOCATE
②	WATER	12", 16", 24", & 30" HDPE WATER LINES	STA 3064+00 TO 3073+00	TBD	RELOCATE
③	ELECTRICAL	OVERHEAD ELECTRICAL LINES	STA 3068+12 TO 3073+00	SCE	RELOCATE
④	ELECTRICAL	UNDERGROUND ELECTRICAL LINE	STA 3067+93 TO 3068+86	CITY OF BURBANK	RELOCATE
⑤	TELEPHONE	OVERHEAD TELEPHONE LINE	STA 3068+62 TO 3073+00	TBD	RELOCATE
⑥	SEWER	12" CIP SEWER LINE	STA 3069+00	CITY OF BURBANK	EXTEND EXISTING CSG. UNDER TEMP. CONST. LIMITS
⑦	ELECTRICAL	UNDERGROUND ELECTRICAL LINES	STA 3067+93 TO 3068+86	CITY OF BURBANK	RELOCATE
⑧	TBD	UNDERGROUND UTILTIY	STA 3067+97	TBD	RELOCATE
⑨	STORM DRAIN	12' WIDE LOCKHEED OPEN & CLOSED CHAN.	STA 3060+00 TO 3062+86	LACFCD	RELOCATE, SEE SHT. CV-G1308
⑩	TBD	ANODE STATIONS	STA 3068+20 TO 3068+46	TBD	RELOCATE
⑪	TBD	UNDERGROUND UTILITY, TBD	STA 3066+02 TO 3066+53	TBD	RELOCATE

REFER TO PROPOSED UTILITY RELOCATION DWG. NO. UT-D7021 FOR UTILITY INFORMATION AT ROADWAY IMPROVEMENT



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DESIGNED BY  
**R. PETERS**  
DRAWN BY  
**C. CUSSON**  
CHECKED BY  
**C. ADAMS**  
IN CHARGE  
**K. PIRBAZARI**  
DATE  
**04/30/2019**

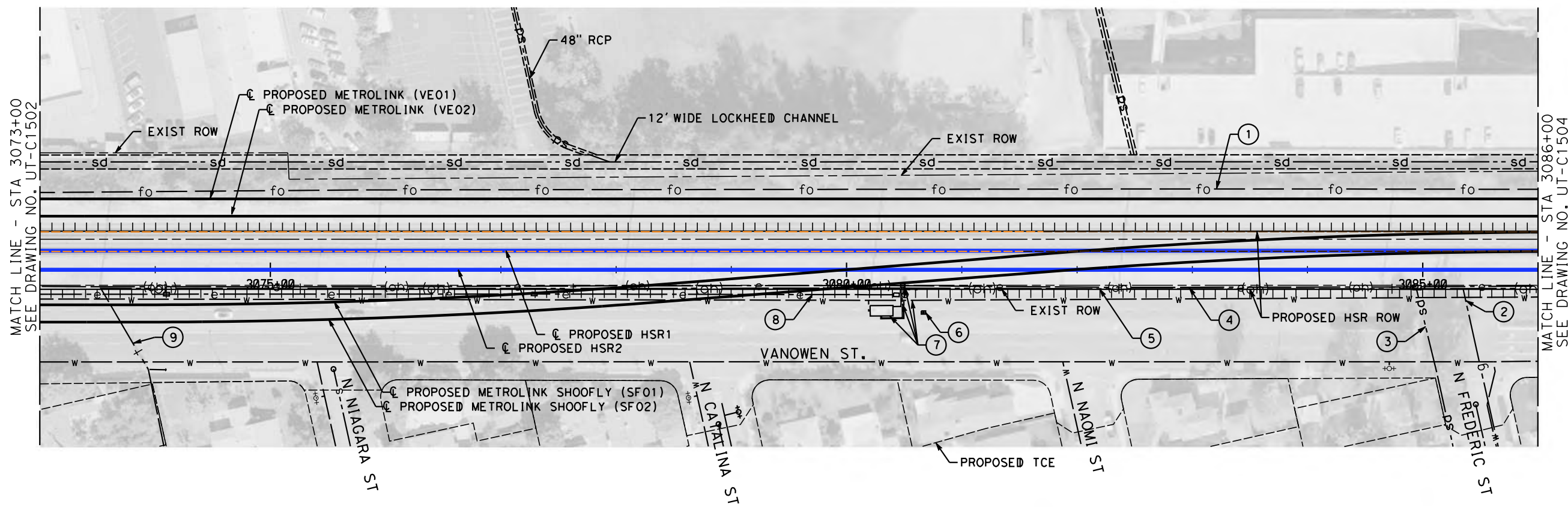
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
  
PEPD  
COMPOSITE UTILITIES PLAN  
HSR2 3060+00 TO HSR2 3073+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-C1502  
SCALE  
AS SHOWN  
SHEET NO.

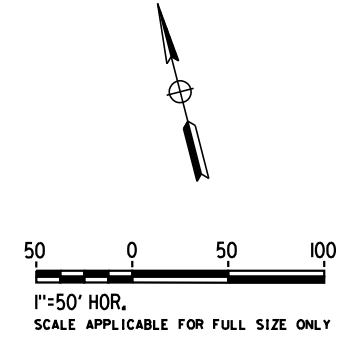




MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	FIBER	UNDERGROUND FIBER	STA 3073+00 TO 3086+00	MCI/SPRINT	RELOCATE
②	GAS	2" GAS LINE	STA 3085+36	SC GAS	RELOCATE OUTSIDE CONST. ZONE
③	STORM DRAIN	CATCH BASIN & X" CULVERT	STA 3084+95	CITY OF BURBANK	RELOCATE OUTSIDE CONST. ZONE
④	ELECTRICAL	OVERHEAD ELECTRICAL LINE	STA 3073+00 TO 3086+00	SCE	RELOCATE
⑤	TELEPONE	OVERHEAD TELEPHONE LINE	STA 3073+00 TO 3086+00	TBD	RELOCATE
⑥	TBD	UNDERGROUND UTILTIY	STA 3080+67	TBD	RELOCATE
⑦	WATER	20"-24" HDPE WATER LINE	STA 3073+00 TO 3086+00	TBD	RELOCATE
⑧	ELECTRICAL	UNDERGROUND ELECTRICAL LINE	STA 3073+00 TO 3080+46	CITY OF BURBANK	RELOCATE
⑨	TELEPONE	OVERHEAD TELEPHONE LINE	STA 3073+53	TBD	RELOCATE

REFER TO PROPOSED UTILITY RELOCATION DWG. NO. UT-D7022 FOR UTILITY INFORMATION AT ROADWAY IMPROVEMENT



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**04/30/2019**

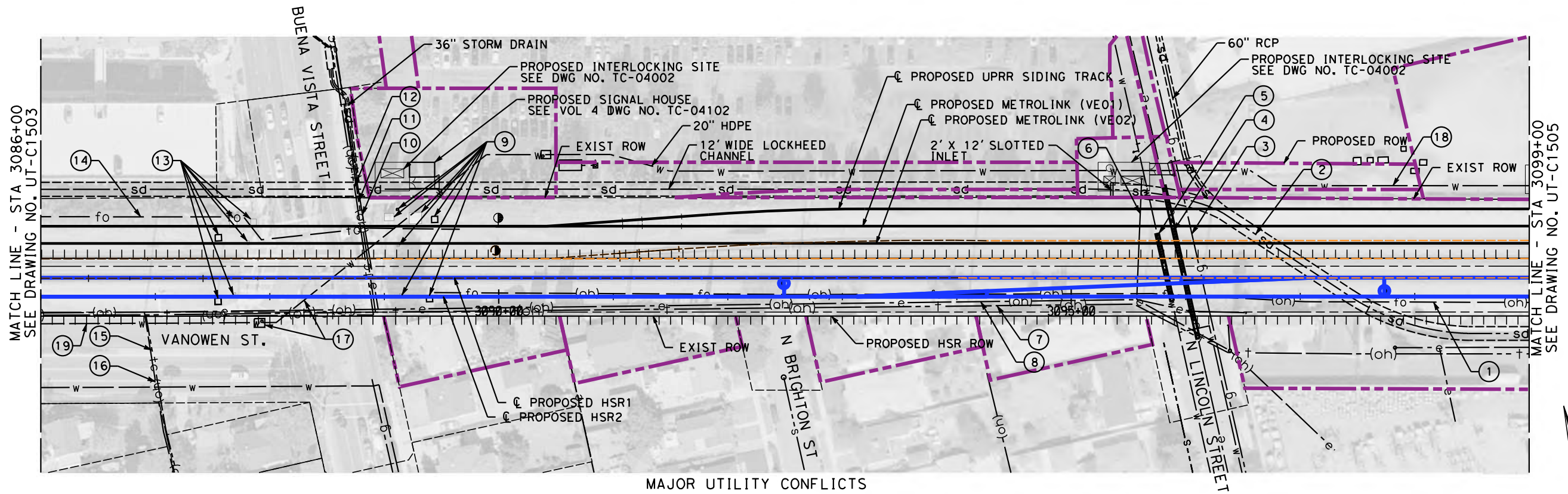
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
  
PEPD  
COMPOSITE UTILITIES PLAN  
HSR2 3073+00 TO HSR2 3086+00

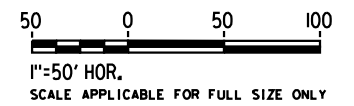
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MAJOR UTILITY CONFLICTS

	TYPE OF UTILITY	SIZE/MATERIAL	LOCATION	OWNER	DISPOSITION
①	FIBER	OVERHEAD FIBER LINE	STA 3086+00 TO 3099+00	TBD	RELOCATE
②	STORM DRAIN	12' WIDE LOCKHEED CHANNEL	STA 3095+37 TO 3097+95	LACFCD	RELOCATE, SEE SHT. CV-G1305
③	GAS	3" GAS LINE	STA 3096+18	SC GAS	EXTEND CSG ACROSS CONST. LIMITS
④	ELECTRICAL	UNDERGROUND ELEC. DUCTS	STA 3096+03	SCE	EXTEND CSG ACROSS CONST. LIMITS
⑤	WATER	20" WATER LINE	STA 3095+88	CITY OF BURBANK	EXTEND CSG ACROSS CONST. LIMITS
⑥	ELECTRICAL	QUEEN POLE	STA 3095+58	SCE	RELOCATE
⑦	TELECOMMUNICATION	OVERHEAD CABLE LINE	STA 3086+00 TO 3099+00	TBD	RELOCATE
⑧	ELECTRICAL	OVERHEAD ELECTRICAL LINE	STA 3086+00 TO 3099+00	SCE	RELOCATE
⑨	RAIL	RAIL UTILITIES	STA 3089+00 TO 3090+00	TBD	RELOCATE
⑩	ELECTRICAL	OVERHEAD ELECTRICAL LINE	STA 3088+93	SCE	RELOCATE
⑪	TELEPHONE	OVERHEAD TELEPHONE LINE	STA 3088+93	TBD	RELOCATE
⑫	TELECOMMUNICATION	OVERHEAD CABLE LINE	STA 3088+93	TBD	RELOCATE
⑬	RAIL	RAIL UTILITIES	STA 3087+00 TO 3088+00	TBD	RELOCATE
⑭	FIBER	UNDERGROUND FIBER	STA 3086+00 TO 3090+00	MCI/SPRINT	RELOCATE
⑮	TELEPHONE	OVERHEAD TELEPHONE LINE	STA 3086+92	TBD	RELOCATE
⑯	ELECTRICAL	OVERHEAD ELECTRICAL LINE	STA 3086+92	SCE	RELOCATE
⑰	WATER	20" STEEL WATER LINE	STA 3088+34	TBD	RELOCATE, ADD CASING
⑱	WATER	20" HDPE WATER LINE	STA 3096+68 TO 3099+00	TBD	RELOCATE
	WATER	22" HDPE WATER LINE	STA 3086+00 TO 3087+96	TBD	RELOCATE



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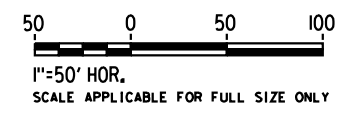
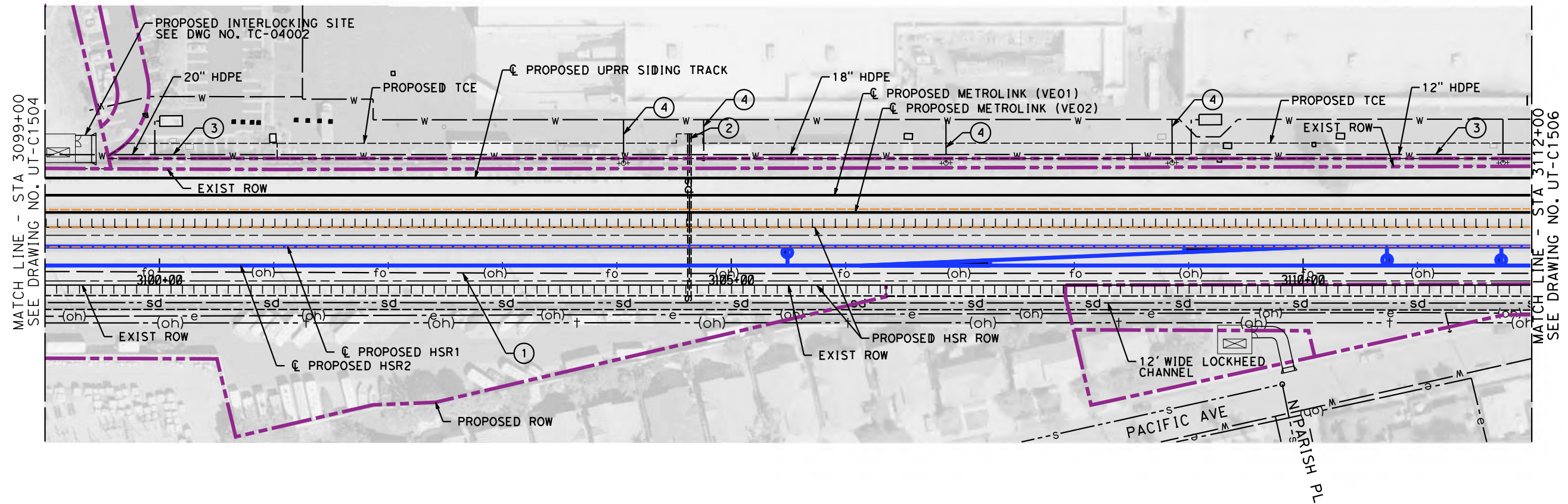
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
  
PEPD  
COMPOSITE UTILITIES PLAN  
HSR2 3086+00 TO HSR2 3099+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
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SCALE  
AS SHOWN  
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MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	FIBER	OVERHEAD FIBER LINE	STA 3099+00 TO 3112+00	TBD	RELOCATE OUTSIDE ROW
②	STORM DRAIN	36" RCP	STA 3104+64	TBD	JOIN REALIGNED CHANNEL
③	WATER	12", 18", & 20" HDPE	STA 3099+00 TO 3112+00	TBD	RELOCATE
④	WATER - FIRE	WATER LINE FIXTURES	STA 3104+06 TO 3111+75	TBD	RELOCATE

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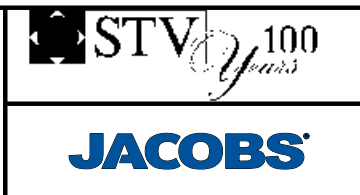
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

PEPD  
COMPOSITE UTILITIES PLAN  
HSR2 3099+00 TO HSR2 3112+00

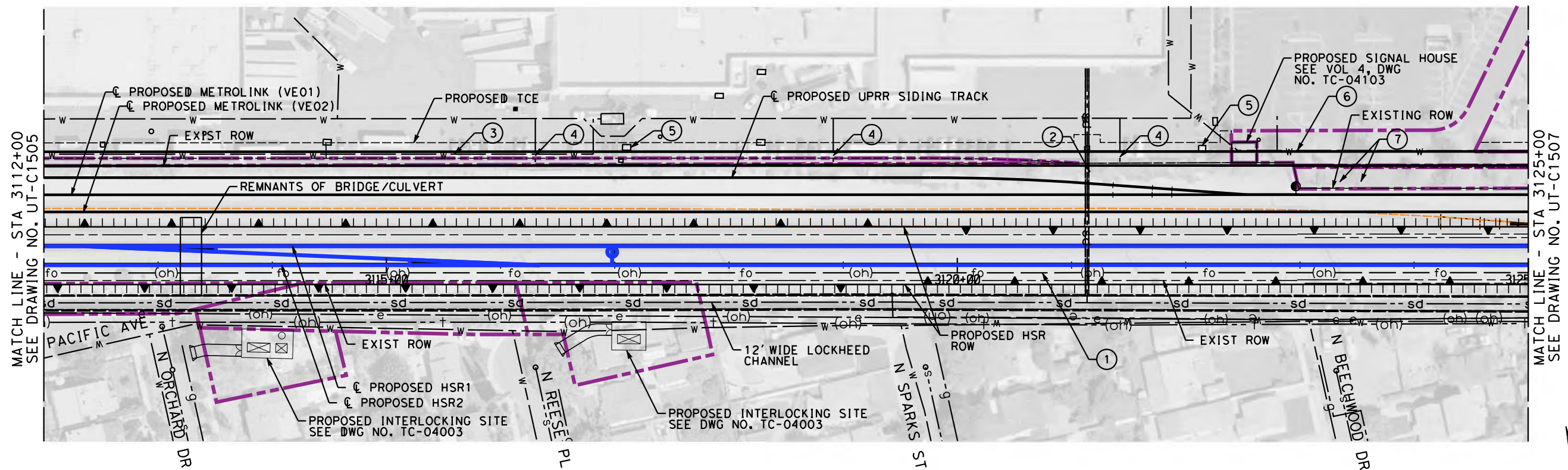
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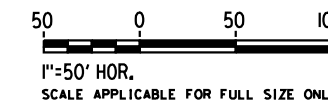
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MAJOR UTILITY CONFLICTS

	TYPE OF UTILITY	SIZE/MATERIAL	LOCATION	OWNER	DISPOSITION
①	FIBER	OVERHEAD FIBER LINE	STA 3112+00 TO 3125+00	TBD	RELOCATE
②	STORM DRAIN	36" RCP	STA 3121+14	TBD	JOIN REALIGNED CHANNEL
③	WATER	12" HDPE WATER LINE	STA 3112+00 TO 3117+08	TBD	RELOCATE
④	WATER	WATER LINE FIXTURES	STA 3116+31 TO 3121+43	TBD	RELOCATE
⑤	ELECTRICAL	UNDERGROUND ELECTRICAL	STA 3117+07 TO 3122+18	CITY OF BURBANK	RELOCATE
⑥	WATER	8" DI WATER LINE	STA 3122+34 TO 3125+00	TBD	RELOCATE
⑦	TBD	UNDERGROUND UTILITY	STA 3123+34 TO 3123+55	TBD	RELOCATE



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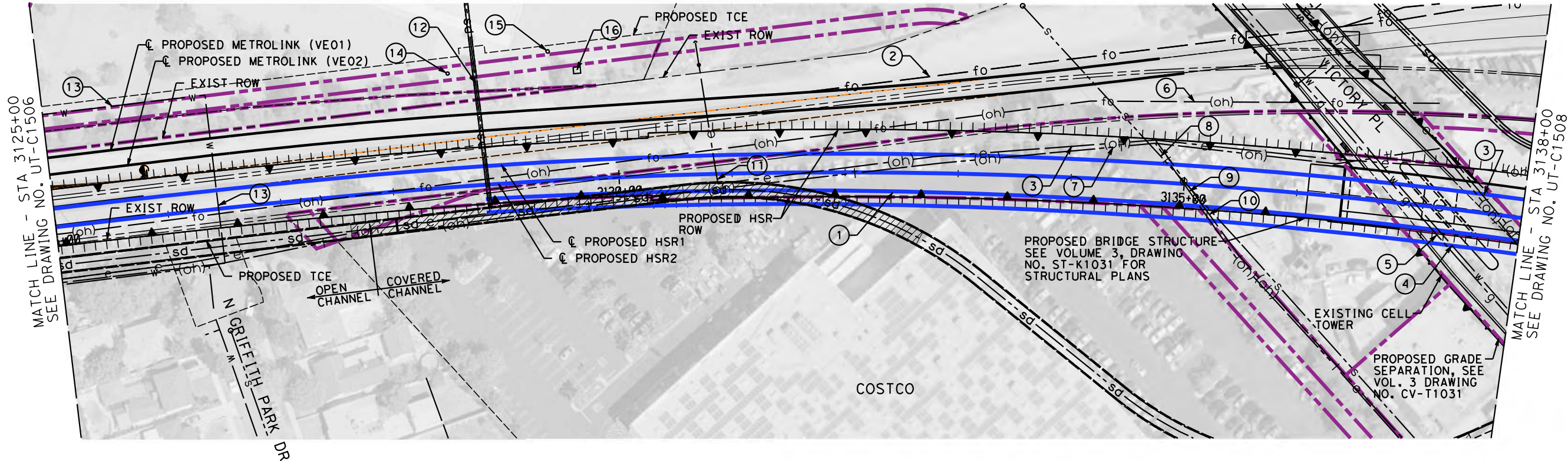
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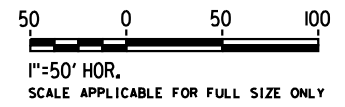
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BURBANK TO LOS ANGELES**  
  
PEPD  
COMPOSITE UTILITIES PLAN  
HSR2 3112+00 TO HSR2 3125+00

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UT-C1506  
SCALE  
AS SHOWN  
SHEET NO.



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	STORM DRAIN	12' WIDE LOCKHEED CHANNEL	STA 3125+00 TO 3138+00	LACFCD	RELOCATE SEE CV-G1302, CV-G1303
②	FIBER	4-2" HDPE DUCTS	STA 3131+69 TO 3138+00	QWEST (CENTURY LINK)	RELOCATE
③	ELECTRICAL	OVERHEAD POWER LINE	STA 3128+82 TO 3138+00	SCE	RELOCATE
④	WATER	X" WATER LINE	STA 3137+05	BURBANK WATER & POWER	RELOCATE
⑤	GAS	3" GAS LINE	STA 3137+00	SC GAS	RELOCATE
⑥	FIBER	OVERHEAD FIBER LINE	STA 3125+00 TO 3137+18	TBD	RELOCATE
⑦	TELEPHONE	OVERHEAD PHONE LINE	STA 3128+82	AT&T	RELOCATE
⑧	SEWER	8" VCP SEWER LINE	STA 3135+02	CITY OF BURBANK	EXTEND CSG TO HSR S. R/W
⑨	TELEPHONE	OVERHEAD PHONE LINE	STA 3135+00	AT&T	RELOCATE
⑩	ELECTRICAL	OVERHEAD POWER LINE	STA 3135+00	SCE	RELOCATE
⑪	ELECTRICAL	QUEEN POLE LINE	STA 3130+87	SCE	RELOCATE
⑫	STORM DRAIN	36" CMP	STA 3128+84	LACFCD	JOIN REALIGNED CHANNEL
⑬	WATER	8" AND 12" DI WATER LINE	STA 3125+00 TO 3126+45	TBD	REL. 8" AND EXTEND CASING ON 12"
⑭	STORM DRAIN	TBD	STA 3128+55	TBD	RELOCATE
⑮	TELEPHONE	UNDERGROUND TELECOMMUNICATION LINE	STA 3129+42	AT&T	RELOCATE
⑯	ELECTRICAL	ELECTRICAL CABINET	STA 3129+64	TBD	RELOCATE



REFER TO PROPOSED UTILITY RELOCATION DWG. NO. UT-D7021 FOR UTILITY INFORMATION AT ROADWAY IMPROVEMENT

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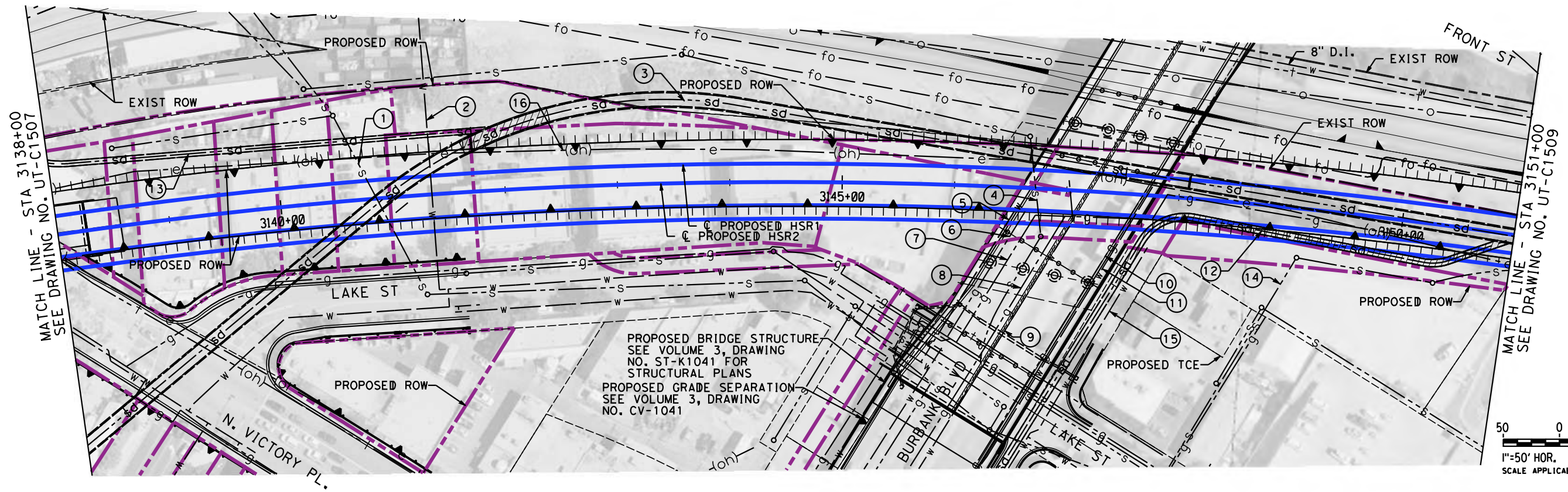
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
  
PEPD  
COMPOSITE UTILITIES PLAN  
HSR2 3125+00 TO HSR2 3138+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
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MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	SEWER	8" VCP SEWER LINE	STA 3140+86	CITY OF BURBANK	ADD CSG FROM ROW TO RET. WALL
②	WATER	16" WATER LINE	STA 3141+35	BURBANK WATER & POWER	ADD CSG FROM ROW TO RET. WALL
③	STORM DRAIN	12' WIDE LOCKHEED CHANNEL	STA 3140+11 TO 3151+00	LACFCD	RELOCATE, SEE SHT. CV-G1301
④	SEWER	15" VCP SEWER LINE	STA 3146+73	CITY OF BURBANK	RELOCATE, ADD CASING
⑤	WATER	1" GIP WATER LINE	STA 3146+60	BURBANK WATER & POWER	RELOCATE
⑥	GAS	1" GAS LINE	STA 3146+64	SC GAS	RELOCATE
⑦	GAS	12" GAS LINE	STA 3146+07 TO 3150+22	SC GAS	RELOCATE
⑧	GAS	12" GAS LINE	STA 3147+00	SC GAS	RELOCATE
⑨	WATER	16" WATER LINE	STA 3147+03	BURBANK WATER & POWER	RELOCATE
⑩	GAS	4" GAS LINE	STA 3147+69	SC GAS	RELOCATE
⑪	WATER	8" WATER LINE	STA 3147+72	BURBANK WATER & POWER	RELOCATE
⑫	STORM DRAIN	72" STORM DRAIN	STA 3147+48 TO 3151+00	LACFCD	RELOCATE
⑬	STORM DRAIN	60" STORM DRAIN	STA 3141+79	LACFCD	PROTECT, SEE SHT. CV-G1301 FOR EXTENSION
⑭	SEWER	24" VCP	STA 3149+04 TO 3151+00	CITY OF BURBANK	RELOCATE
⑮	WATER	12" DUCTICLE IRON	STA 3147+55	CITY OF BURBANK	RELOCATE INTERFERING PORTION WITH NEW S.D.
⑯	ELECTRICAL	OVERHEAD POWER LINE	STA 3138+00 TO 3151+00	SCE	RELOCATE

REFER TO PROPOSED UTILITY RELOCATION DWG. NO. UT-D7041 FOR UTILITY INFORMATION AT ROADWAY IMPROVEMENT

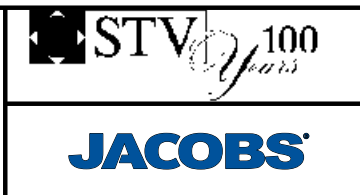
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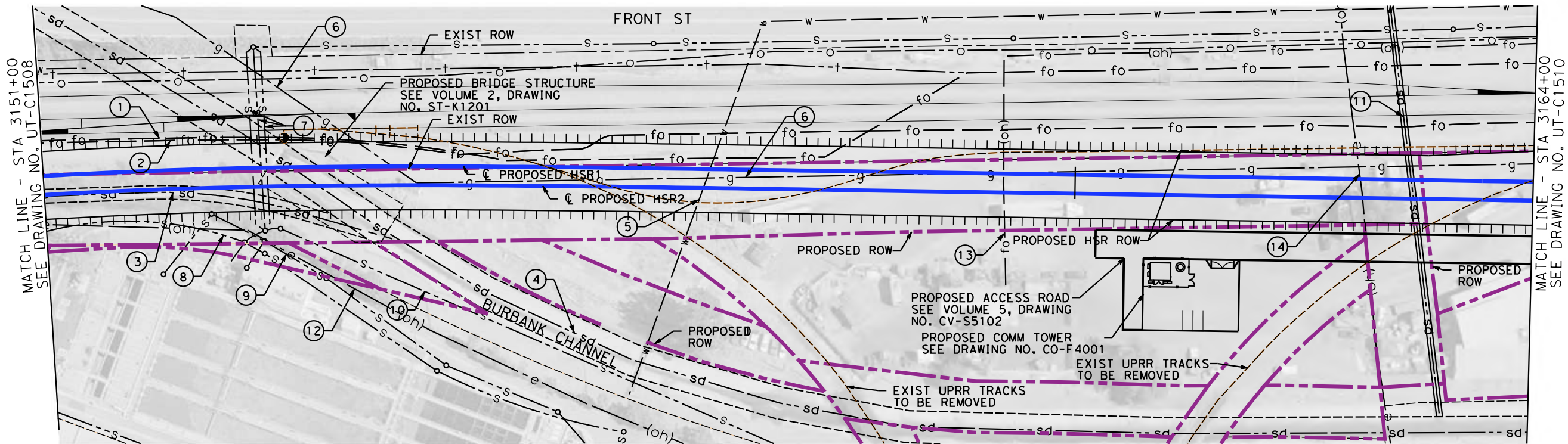
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
  
PEPD  
COMPOSITE UTILITIES PLAN  
HSR2 3138+00 TO HSR2 3151+00

CONTRACT NO.  
HSR14-39  
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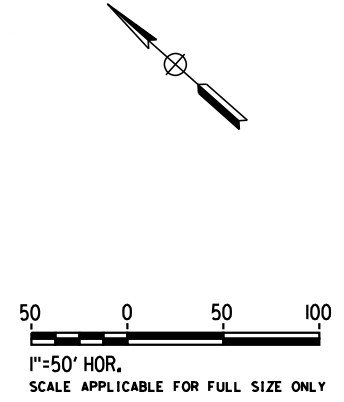




MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	FIBER	4-2" HDPE DUCTS	STA 3151+00 TO 3164+00	QWEST(CENTURY LINK)	RELOCATE
②	FIBER	4-2" HDPE DUCTS	STA 3151+00 TO 3164+00	MCI(VERIZON)-AT&T-SPRINT	RELOCATE
③	STORM DRAIN	12' WIDE LOCKHEED CHANNEL	STA 3151+00 TO 3153+81	LACFCD	RELOCATE, SEE SHT. CV-G1301
④	STORM DRAIN	28' WIDE BURBANK CHANNEL	STA 3152+60 TO 3154+62	LACFCD	PROTECT-IN-PLACE
⑤	WATER	16" DIP	STA 3156+75	BURBANK WATER & POWER	RELOCATE AND ADD CSG FROM ROW TO ROW
⑥	GAS	12" GAS LINE	STA 3151+00 TO 3164+00	SC GAS	RELOCATE
⑦	SEWER	3-12" VCP	STA 3152+82 TO 3152+95	CITY OF BURBANK	RELOCATE
⑧	SEWER	24" VCP	STA 3151+00 TO 3154+00	CITY OF BURBANK	RELOCATE
⑨	SEWER	12" VCP	STA 3152+00 TO 3153+55	CITY OF BURBANK	RELOCATE
⑩	SEWER	18" VCP	STA 3152+70 TO 3155+00	CITY OF BURBANK	RELOCATE
⑪	STORM DRAIN	60" CMP & OPEN CONC. CHANNEL	STA 3162+95	LACFCD	ADD CSG FROM ROW TO ROW
⑫	ELECTRICAL	OH-ELECTRICAL	STA 3151+00 TO 3154+39	SCE	RELOCATE
⑬	CABLE	OH-CABLE	STA 3159+38	TBD	PROTECT-IN-PLACE
⑭	ELECTRICAL	OH-ELECTRICAL	STA 3162+51	SCE	RELOCATE

REFER TO PROPOSED UTILITY RELOCATION DWG. NO. UT-D7051 FOR UTILITY INFORMATION AT ROADWAY IMPROVEMENT



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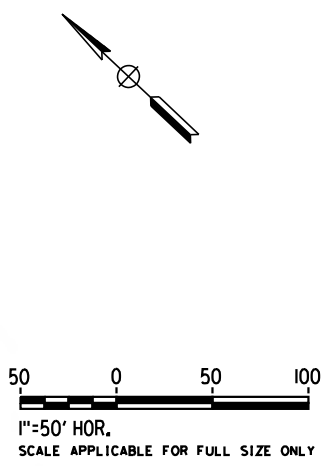
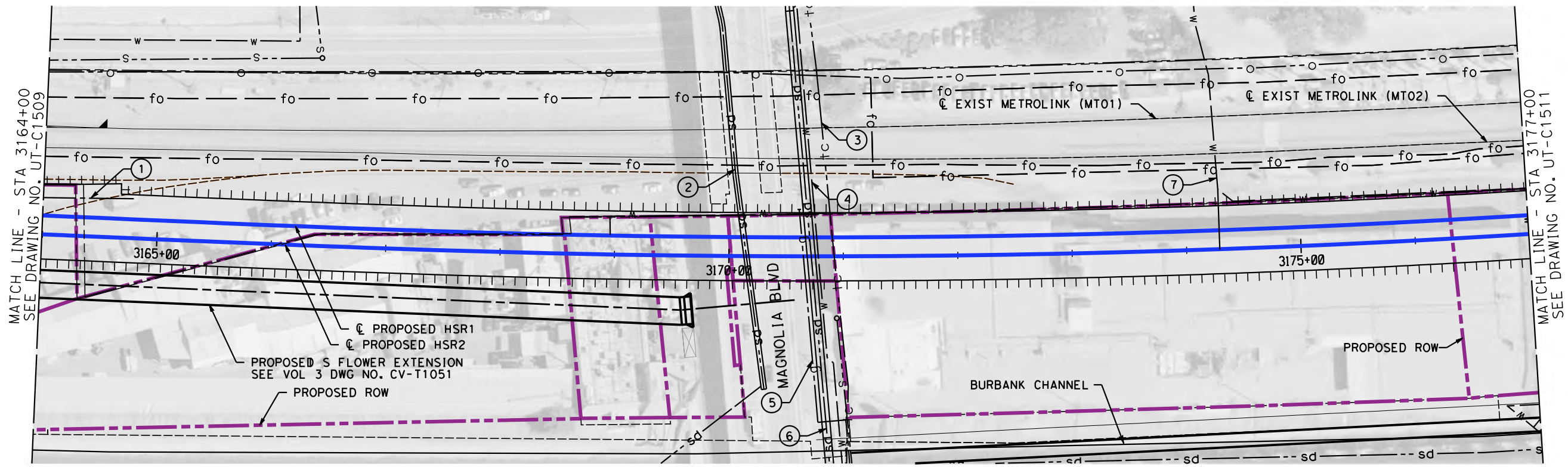
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
  
PEPD  
COMPOSITE UTILITIES PLAN  
HSR2 3151+00 TO HSR2 3164+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-C1509  
SCALE  
AS SHOWN  
SHEET NO.



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	GAS	12" GAS LINE	STA 3164+00 TO TBD	SC GAS	PROTECT-IN-PLACE
②	STORM DRAIN	54" STORM DRAIN	STA 3170+16	LACFCO	PROTECT-IN-PLACE
③	TELEPHONE	OVERHEAD PHONE LINE	STA 3170+93	AT&T	RELOCATE UNDERGROUND WITH CSG
④	WATER	12" SHARING 100' OF 18" CSG	STA 3170+79	BURBANK WATER & POWER	PROTECT-IN-PLACE
⑤	GAS (ABAN)	6" GAS LINE	STA 3170+66	SC GAS	PROTECT-IN-PLACE
⑥	STORM DRAIN	84" RCP	STA 3170+73	LACFCO	PROTECT-IN-PLACE
⑦	WATER	20" SHARING 100' OF 30" CSG	STA 3174+30	BURBANK WATER & POWER	RELOCATE

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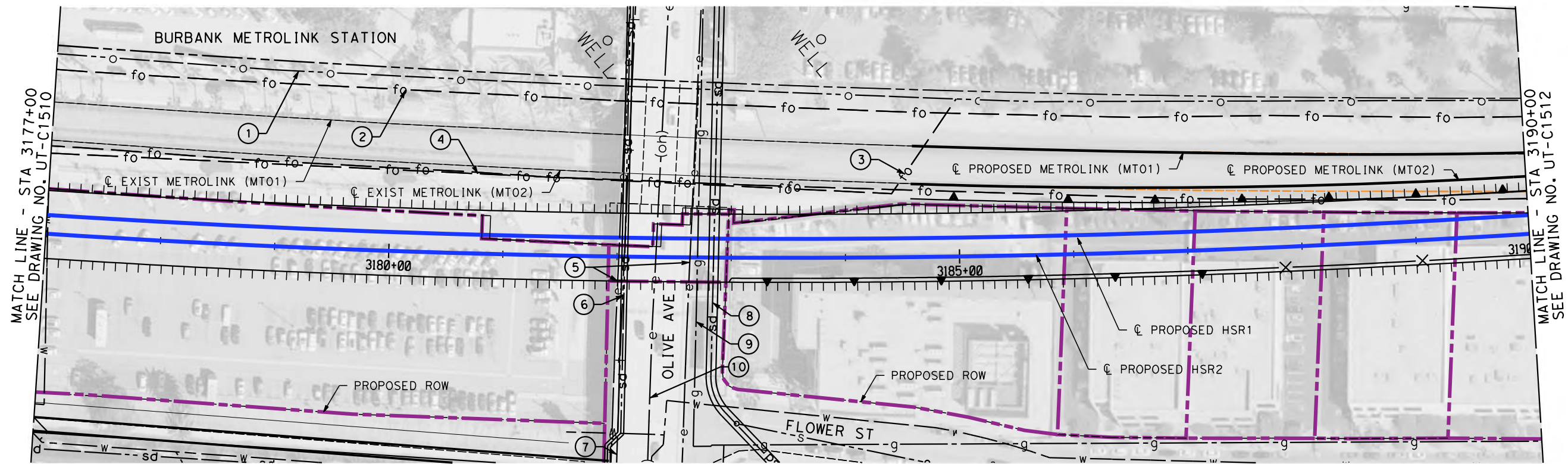


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

PEPD  
COMPOSITE UTILITIES PLAN  
HSR2 3164+00 TO HSR2 3177+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-C1510  
SCALE  
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SHEET NO.





MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	OIL	20" OIL LINE	STA 3143+00 TO 3684+00	PACIFIC PIPELINE	RELOCATE
②	FIBER	4-2" HDPE DUCTS	STA 3143+00 TO 3684+00	QWEST(CENTURY LINK)	RELOCATE
③	FIBER	4-2" HDPE DUCTS	STA 3143+00 TO 3684+00	MCI(VERIZON)-AT&T-SPRINT	RELOCATE
④	FIBER	4-2" HDPE DUCTS	STA 3143+00 TO 3684+00	QWEST-MFS-METRO	RELOCATE
⑤	ELECTRICAL	IN-BRIDGE POWER LINE	STA 3182+03 AND 3182+65	SCE	PROTECT-IN-PLACE
⑥	STORM DRAIN	60" STORM DRAIN	STA 3182+07	LACFCO	PROTECT-IN-PLACE
⑦	TELEPHONE	IN-BRIDGE PHONE LINE	STA 3182+07	AT&T	PROTECT-IN-PLACE
⑧	STORM DRAIN	102" STORM DRAIN	STA 3182+85	LACFCO	PROTECT-IN-PLACE
⑨	GAS (ABAN)	8" GAS LINE	STA 3182+60	SC GAS	REMOVE
⑩	ELECTRICAL	OVERHEAD POWER LINE	STA 3182+34	TBD	PROTECT-IN-PLACE

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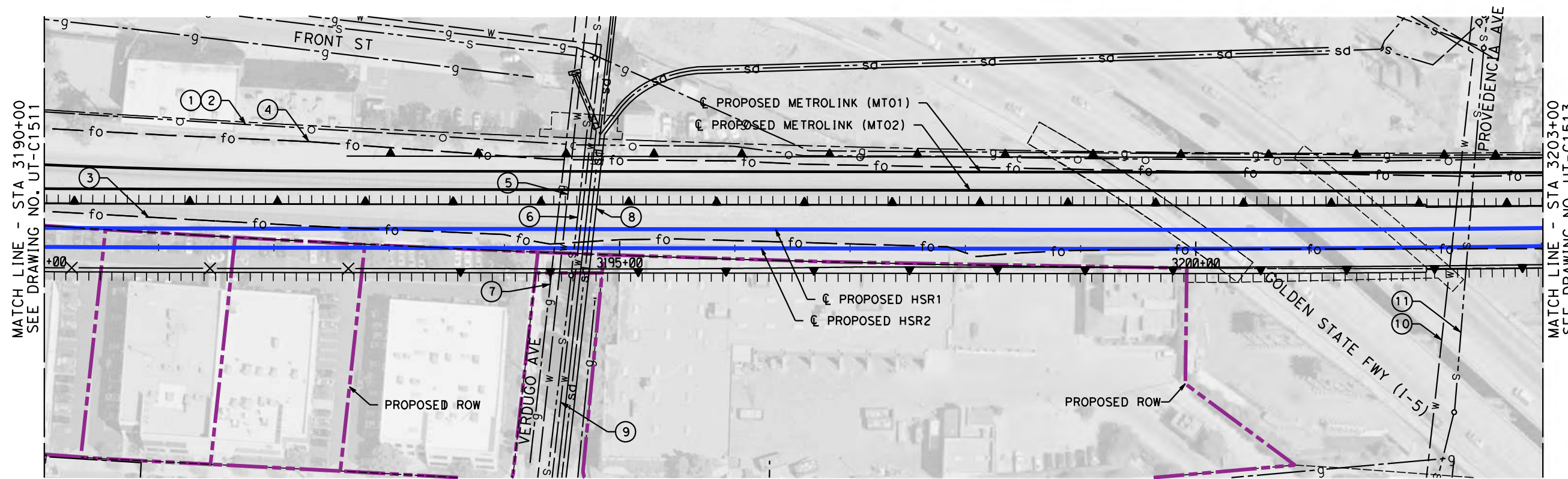
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**  
  
PEPD  
COMPOSITE UTILITIES PLAN  
HSR2 3177+00 TO HSR2 3190+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-C1511  
SCALE  
AS SHOWN  
SHEET NO.





MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	OIL	20" OIL LINE	STA 3143+00 TO 3684+00	PACIFIC PIPELINE	RELOCATE
②	FIBER	4-2" HDPE DUCTS	STA 3143+00 TO 3684+00	QWEST(CENTURY LINK)	RELOCATE
③	FIBER	4-2" HDPE DUCTS	STA 3143+00 TO 3684+00	MCI(VERIZON)-AT&T-SPRINT	RELOCATE
④	FIBER	4-2" HDPE DUCTS	STA 3143+00 TO 3684+00	QWEST-MFS-METRO	RELOCATE
⑤	WATER	41" SHARING 100' OF 48" CSG	STA 3194+50	MWD	EXTEND CSG FROM ROW TO ROW
⑥	SEWER	10" SEWER LINE	STA 3194+65	CITY OF BURBANK	ADD CSG FROM ROW TO ROW
⑦	GAS	12" GAS LINE	STA 3194+48	SC GAS	ADD CSG FROM ROW TO ROW
⑧	STORM DRAIN	90" STORM DRAIN	STA 3194+75	LACFCO	PROTECT-IN-PLACE
⑨	WATER	10" IN 100' OF 18" CSG	STA 3194+65	BURBANK WATER & POWER	EXTEND CSG FROM ROW TO ROW
⑩	WATER	18" IN 100' OF 24" CSG	STA 3202+30	BURBANK WATER & POWER	EXTEND CSG FROM ROW TO ROW
⑪	SEWER	12" VCP SEWER LINE	STA 3202+40	CITY OF BURBANK	ADD CSG FROM ROW TO ROW

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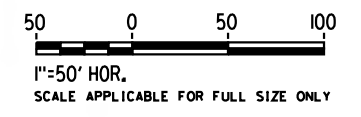
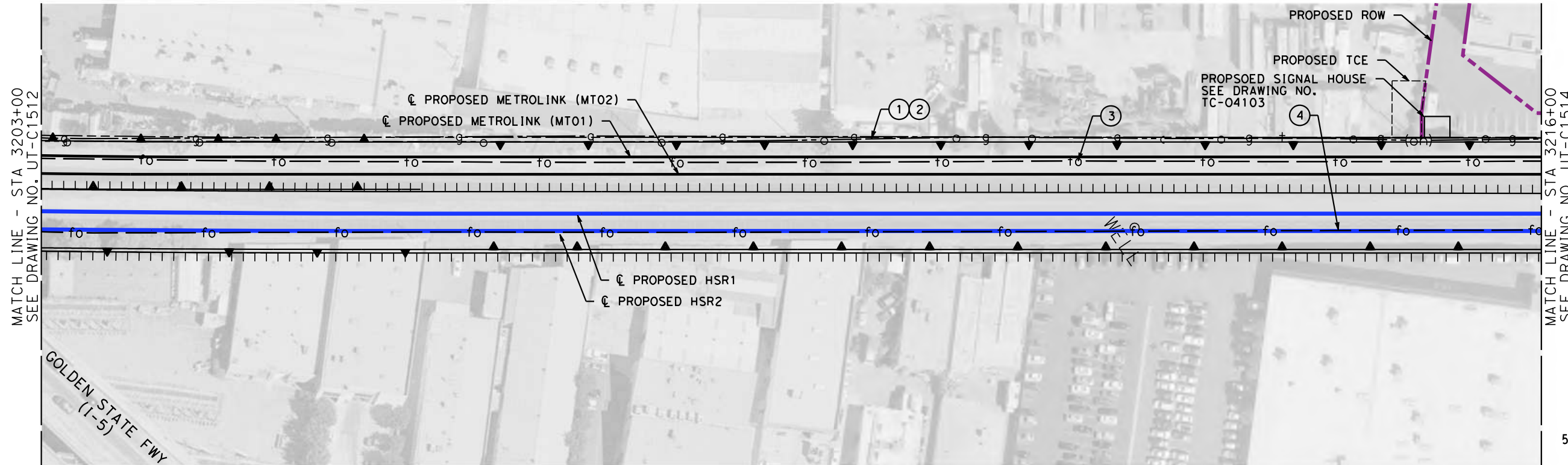
DESIGNED BY  
**J. HIGGINS**  
DRAWN BY  
**C. CUSSON**  
CHECKED BY  
**C. ADAMS**  
IN CHARGE  
**K. PIRBAZARI**  
DATE  
**04/30/2019**

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**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**  
  
PEPD  
COMPOSITE UTILITIES PLAN  
HSR2 3190+00 TO HSR2 3203+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-C1512  
SCALE  
AS SHOWN  
SHEET NO.



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	OIL	20" OIL LINE	STA 3143+00 TO 3684+00	PACIFIC PIPELINE	RELOCATE
②	FIBER	4-2" HDPE DUCTS	STA 3143+00 TO 3684+00	QWEST	RELOCATE
③	FIBER	4-2" HDPE DUCTS	STA 3143+00 TO 3684+00	MCI(VERIZON)-AT&T-SPIRNT	RELOCATE
④	FIBER	4-2" HDPE DUCTS	STA 3143+00 TO 3684+00	QWEST-MFS-METRO	RELOCATE

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**J. HIGGINS**  
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**C. ADAMS**  
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**K. PIRBAZARI**  
DATE  
**04/30/2019**

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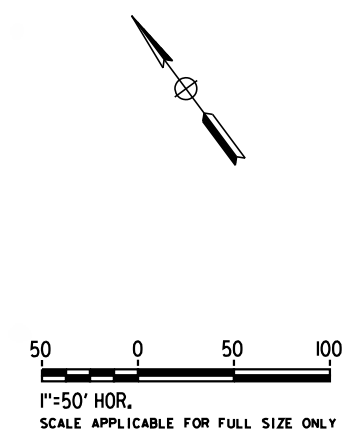
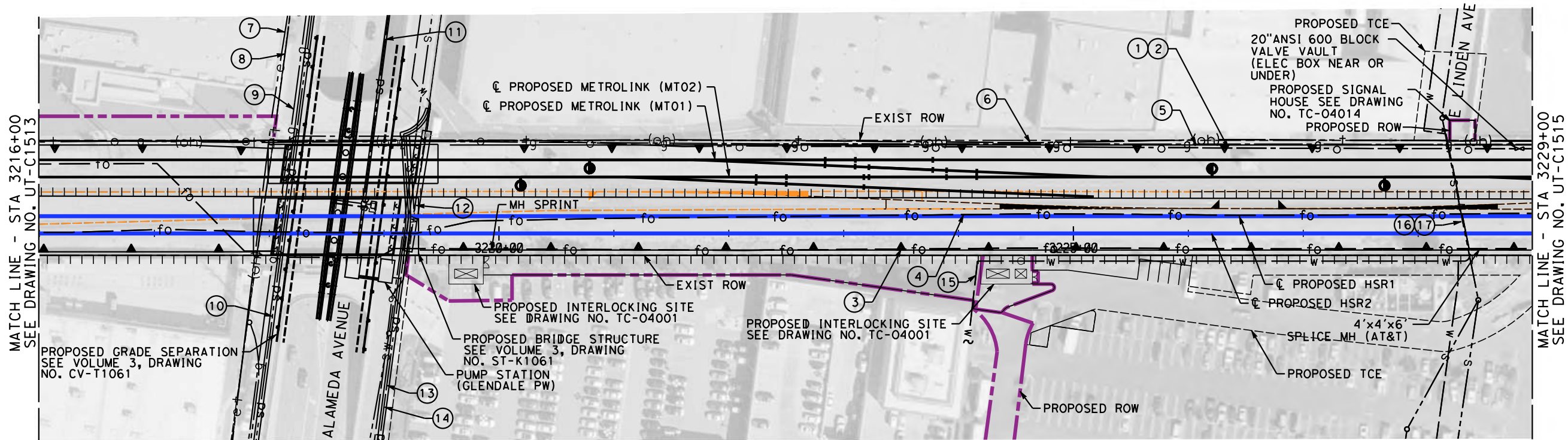
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

PEPD  
COMPOSITE UTILITIES PLAN  
HSR2 3203+00 TO HSR2 3216+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-C1513  
SCALE  
AS SHOWN  
SHEET NO.



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	OIL	20" OIL LINE	STA 3143+00 TO 3684+00	PACIFIC PIPELINE	RELOCATE
②	FIBER	4-2" HDPE DUCTS	STA 3143+00 TO 3684+00	QWEST(CENTURY LINK)	RELOCATE
③	FIBER	4-2" HDPE DUCTS	STA 3143+00 TO 3684+00	MCI(VERIZON)-AT&T-SPRINT	RELOCATE
④	FIBER	4-2" HDPE DUCTS	STA 3143+00 TO 3684+00	QWEST- MFS-METRO	RELOCATE
⑤	GAS (ABAN)	26" GAS	STA 3177+00 TO 3289+00	SC GAS	REMOVE
⑥	TELEPHONE	OVERHEAD CABLE	STA 3220+00 TO 3242+27	TBD	PROTECT-IN-PLACE
⑦	OVERHEAD POWER LINE	OVERHEAD CABLE	STA 3217+98/ ALAMEDA AVE.	GLENDALE W & P	RAISE/RELOCATE
⑧	TELEPHONE	OVERHEAD CABLE	STA 3217+98/ ALAMEDA AVE.	TBD	RAISE/RELOCATE
⑨	GAS	4" GAS IN 100' OF 8" CSG	STA 3220+00/ ALAMEDA AVE.	SC GAS	RELOCATE
⑩	STORM DRAIN	72" STORM DRAIN	STA 3118+40/ ALAMEDA AVE.	GLENDALE DPW	PROTECT-IN-PLACE
⑪	STORM DRAIN	12" STORM DRAIN	STA 3118+80/ ALAMEDA AVE.	GLENDALE DPW	PROTECT-IN-PLACE
⑫	WATER	12" CI IN 100' OF 21" CSG	STA 3219+20/ ALAMEDA AVE.	BURBANK WATER & POWER	PROTECT-IN-PLACE
⑬	STORM DRAIN	48" STORM DRAIN	STA 3219+20/ ALAMEDA AVE.	GLENDALE DPW	PROTECT-IN-PLACE
⑭	SEWER	12" VCP SEWER	STA 3219+20/ ALAMEDA AVE.	GLENDALE DPW	PROTECT-IN-PLACE
⑮	WATER	8" WATER	STA 3224+17 TO 3228+36	CITY OF BURBANK	PROTECT-IN-PLACE
⑯	WATER	8" CI SHARING 66' OF 36" CSG	STA 3228+41/ E LINDEN AVE.	CITY OF BURBANK	EXTEND CSG FROM ROW TO ROW
⑰	SEWER	8" VCP SHARING 66' OF 36" CSG	STA 3228+42/ E LINDEN AVE.	CITY OF BURBANK	EXTEND CSG FROM ROW TO ROW

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**J. HIGGINS**  
DRAWN BY  
**C. CUSSON**  
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**C. ADAMS**  
IN CHARGE  
**K. PIRBAZARI**  
DATE  
**04/30/2019**

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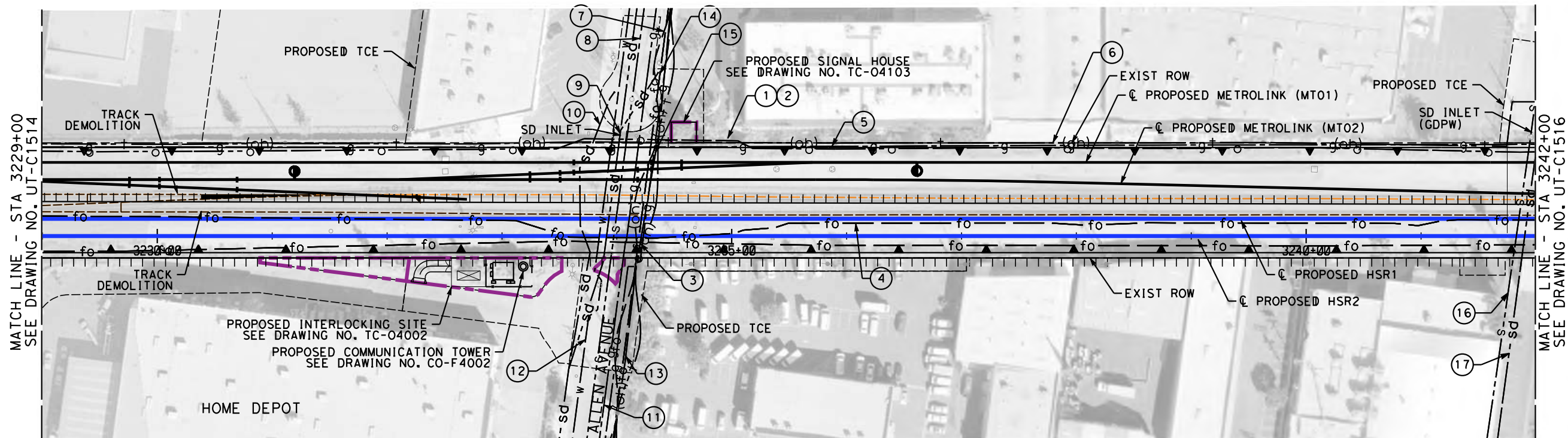


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

PEPD  
COMPOSITE UTILITIES PLAN  
HSR2 3216+00 TO HSR2 3229+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-C1514  
SCALE  
AS SHOWN  
SHEET NO.





MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	OIL	20" OIL LINE	STA 3143+00 TO 3684+00	PACIFIC PIPELINE	RELOCATE
②	FIBER	4-2" HDPE DUCTS	STA 3143+00 TO 3684+00	QWEST(CENTURY LINK)	RELOCATE
③	FIBER	4-2" HDPE DUCTS	STA 3143+00 TO 3684+00	MCI(VERIZON)-AT&T-SPRINT	RELOCATE
④	FIBER	4-2" HDPE DUCTS	STA 3143+00 TO 3684+00	QWEST-MFS-METRO	RELOCATE
⑤	GAS (ABAN)	26" GAS	STA 3220+00 TO 3289+00	SC GAS	REMOVE
⑥	TELEPHONE	OVERHEAD CABLE	STA 3220+00 TO 3242+22	TBD	PROTECT-IN-PLACE
⑦	FIBER	OVERHEAD CABLE	STA 3230+22/ ALLEN AVE.	CHARTER	RELOCATE
⑧	SEWER	8" VCP IN CSG	STA 3233+98/ ALLEN AVE.	GLENDALE DPW	EXTEND CSG FROM ROW TO ROW
⑨	STORM DRAIN	33" RCP 4' COVER	STA 3233+91/ ALLEN AVE.	GLENDALE DPW	EXTEND CSG FROM ROW TO ROW
⑩	STORM DRAIN	18" RCP	STA 3233+73/ ALLEN AVE.	GLENDALE DPW	EXTEND CSG FROM ROW TO ROW
⑪	GAS	30" H GAS IN 83' OF 36" CSG	STA 3234+09/ ALLEN AVE.	SC GAS	RELOCATE
⑫	WATER	12"	STA 3233+85/ ALLEN AVE.	BURBANK	EXTEND CSG FROM ROW TO ROW
⑬	ELECTRICAL	OVERHEAD WIRE	STA 3230+22/ ALLEN AVE.	GLENDALE W & P	RELOCATE UNDERGROUND
⑭	UG FIBER	IN CSG	STA 3234+20/ ALLEN AVE.	AT&T	RELOCATE
⑮	GAS	4" IN 80' OF 8" CSG	STA 3234+23/ ALLEN AVE.	SC GAS	RELOCATE
⑯	SEWER	8" VCP IN CSG	STA 3241+83/ THOMPSON AVE.	GLENDALE DPW	EXTEND CSG FROM ROW TO ROW
⑰	STORM DRAIN	30" RCP	STA 3241+91/ THOMPSON AVE.	GLENDALE DPW	EXTEND CSG FROM ROW TO ROW

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**C. ADAMS**  
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DATE  
**04/30/2019**

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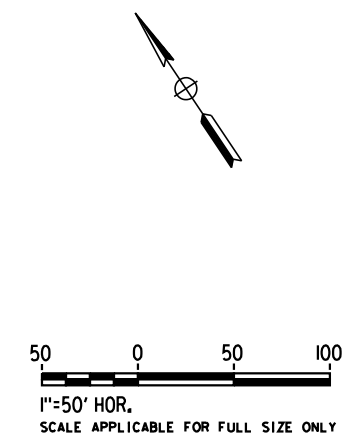
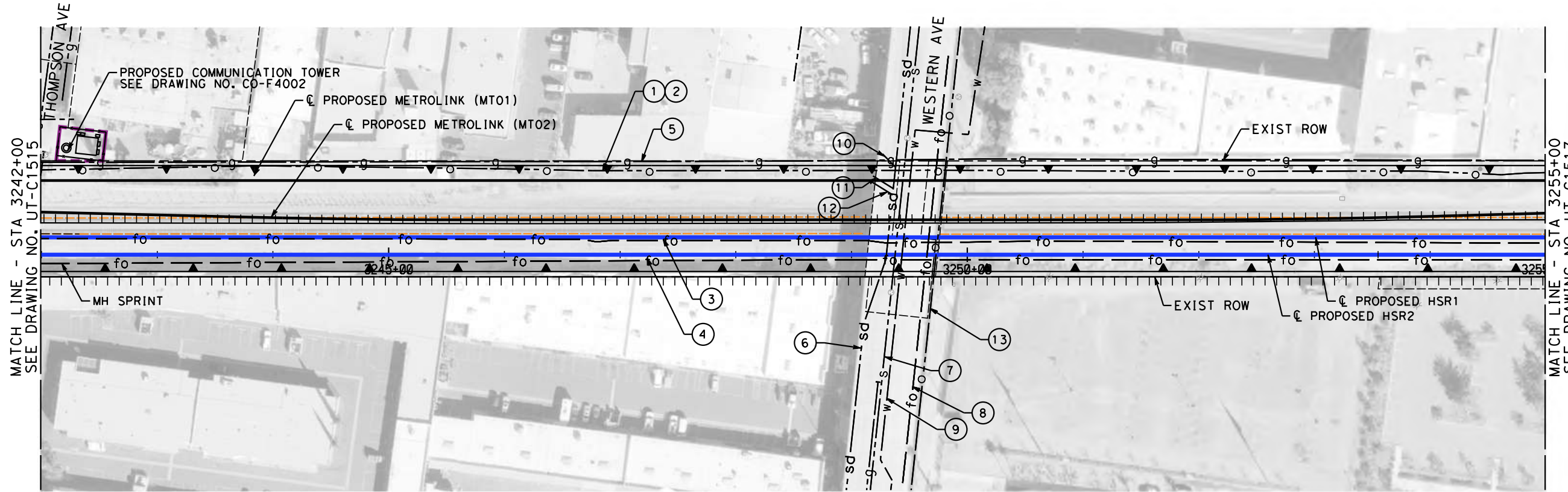
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

PEPD  
COMPOSITE UTILITIES PLAN  
HSR2 3229+00 TO HSR2 3242+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-C1515  
SCALE  
AS SHOWN  
SHEET NO.



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	OIL	20" OIL LINE	STA 3143+00 TO 3684+00	PACIFIC PIPELINE	RELOCATE
②	FIBER	4-2" HDPE DUCTS	STA 3143+00 TO 3684+00	QWEST(CENTURY LINK)	RELOCATE
③	FIBER	4-2" HDPE DUCTS	STA 3143+00 TO 3684+00	QWEST-MFS-METRO	RELOCATE
④	FIBER	4-2" HDPE DUCTS	STA 3143+00 TO 3684+00	MCI/VERIZON-AT&T-SPRINT	RELOCATE
⑤	GAS (ABAN)	26" GAS	STA 3220+00 TO 3289+00	SC GAS	REMOVE
⑥	STORM DRAIN	33" RCP	STA 3249+29/ WESTERN AVE.	GLENDALE DPW	EXTEND CSG FROM ROW TO ROW
⑦	SEWER	8" VCP IN 50' OF 15" STEEL CSG	STA 3249+37/ WESTERN AVE.	GLENDALE DPW	EXTEND CSG FROM ROW TO ROW
⑧	FIBER	SLACK COIL	STA 3249+66/ WESTERN AVE.	ZAYO	EXTEND CSG FROM ROW TO ROW
⑨	WATER	12" WATER	STA 3249+58/ WESTERN AVE.	GLENDALE W & P	EXTEND CSG FROM ROW TO ROW
⑩	STORM DRAIN	18" RCP	STA 3249+34/ WESTERN AVE.	GLENDALE DPW	PROTECT-IN-PLACE
⑪	STORM DRAIN	18" RCP	STA 3249+19/ WESTERN AVE.	GLENDALE DPW	ADD CASING FROM ROW TO ROW
⑫	STORM DRAIN	24" RCP	STA 3249+19/ WESTERN AVE.	GLENDALE DPW	ADD CASING FROM ROW TO ROW
⑬	OIL	8" OIL	STA 3249+70/ WESTERN AVE.	EXXON MOBIL	ADD CASING FROM ROW TO ROW

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**C. ADAMS**  
IN CHARGE  
**K. PIRBAZARI**  
DATE  
**04/30/2019**

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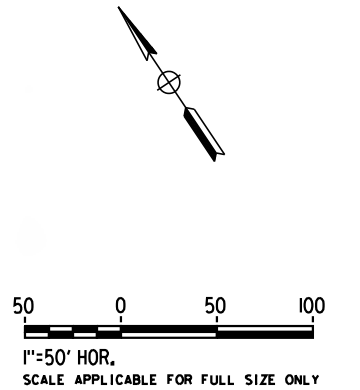
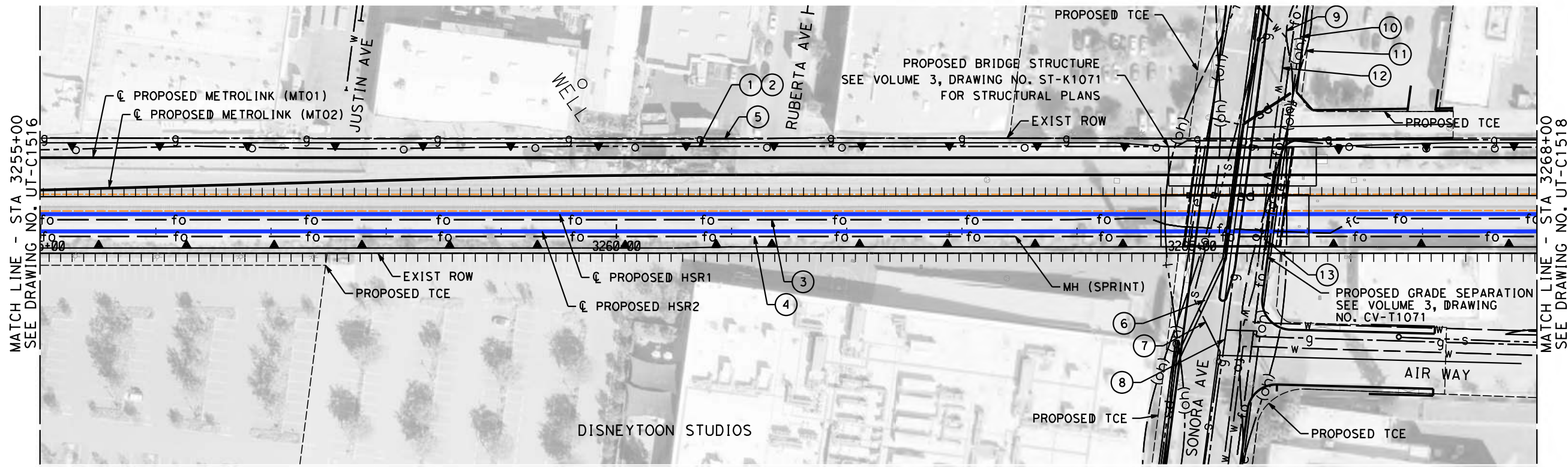


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

PEPD  
COMPOSITE UTILITIES PLAN  
HSR2 3242+00 TO HSR2 3255+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-C1516  
SCALE  
AS SHOWN  
SHEET NO.





MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	OIL	20" OIL LINE	STA 3143+00 TO 3429+61	PACIFIC PIPELINE	RELOCATE
②	FIBER	4-2" HDPE DUCTS	STA 3143+00 TO 3429+61	QWEST(CENTURY LINK)	RELOCATE
③	FIBER	4-2" HDPE DUCTS	STA 3143+00 TO 3437+92	MCI(VERIZON)-AT&T-SPRINT	RELOCATE
④	FIBER	4-2" HDPE DUCTS	STA 3143+00 TO 3625+00	QWEST-MFS-METRO	RELOCATE
⑤	GAS (ABAN)	26" GAS	STA 3216+00 TO 3289+00	SC GAS	REMOVE
⑥	STORM DRAIN	36" RCP 5' COVER	STA 3265+31/ SONORA AVE.	GLENDALE DPW	RELOCATE
⑦	SEWER	8" VCP	STA 3265+38/ SONORA AVE.	GLENDALE DPW	RELOCATE
⑧	GAS	4" GAS IN 8" CSG	STA 3265+42/ SONORA AVE.	SC GAS DISTRIBUTION	RELOCATE S/E OF SONORA AND PROTECT IN PLACE
⑨	TBD	OVERHEAD CABLE	STA 3265+71/ SONORA AVE.	TBD	RELOCATE UNDERGROUND
⑩	ELECTRICAL	OVERHEAD WIRE	STA 3265+71/ SONORA AVE.	GLENDALE W & P	RELOCATE UNDERGROUND
⑪	TELEPHONE	OVERHEAD CABLE	STA 3265+71/ SONORA AVE.	TBD	RELOCATE UNDERGROUND
⑫	WATER	12" IN CSG	STA 3265+61/ SONORA AVE.	GLENDALE W & P	RELOCATE S/E OF SONORA AND PROTECT IN PLACE
⑬	UG FIBER DUCTS	IN 100' OF 12" CSG	STA 3265+65/ SONORA AVE.	LEVEL 3	LOWER AND PROTECT IN PLACE

REFER TO PROPOSED UTILITY RELOCATION DWG. NO. UT-D7071 FOR UTILITY INFORMATION AT ROADWAY IMPROVEMENT

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**J. HIGGINS**  
DRAWN BY  
**C. CUSSON**  
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**C. ADAMS**  
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**K. PIRBAZARI**  
DATE  
**04/30/2019**

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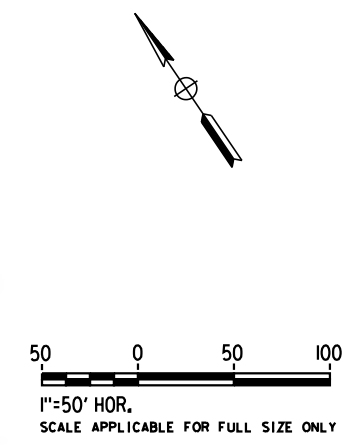
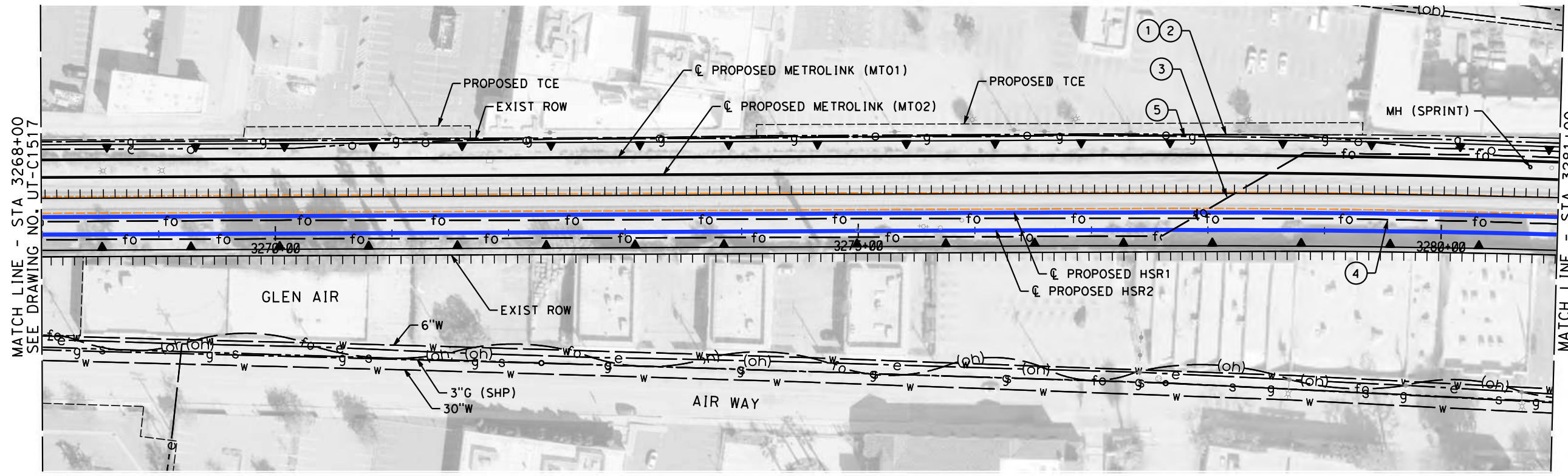


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

PEPD  
COMPOSITE UTILITIES PLAN  
HSR2 3255+00 TO HSR2 3268+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-C1517  
SCALE  
AS SHOWN  
SHEET NO.





MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	OIL	20" OIL LINE	STA 3143+00 TO 3429+61	PACIFIC PIPELINE	TO BE RELOCATED OUTSIDE ROW
②	FIBER	4-2" HDPE DUCTS	STA 3143+00 TO 3429+61	QWEST(CENTURY LINK)	TO BE RELOCATED OUTSIDE ROW
③	FIBER	4-2" HDPE DUCTS	STA 3143+00 TO 3437+92	MCI(VERIZON)-AT&T-SPRINT	TO BE RELOCATED
④	FIBER	4-2" HDPE DUCTS	STA 3143+00 TO 3625+00	QWEST-MFS-METRO	TO BE RELOCATED
⑤	GAS (ABAN)	26" GAS	STA 3216+00 TO 3289+00	SC GAS	TO BE REMOVED

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**C. ADAMS**  
IN CHARGE  
**K. PIRBAZARI**  
DATE  
**04/30/2019**

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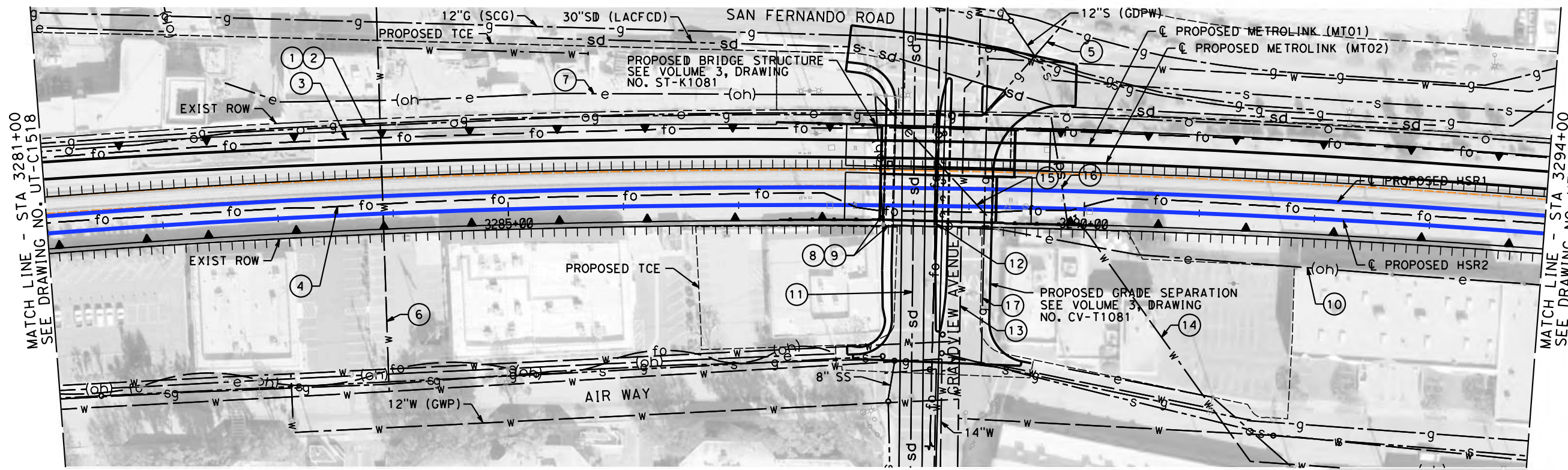
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

PEPD  
COMPOSITE UTILITIES PLAN  
HSR2 3268+00 TO HSR2 3281+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-C1518  
SCALE  
AS SHOWN  
SHEET NO.



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	OIL	20"	STA 3143+00 TO 3684+00	PACIFIC PIPELINE	RELOCATE
②	FIBER	4-2" HDPE DUCTS	STA 3143+00 TO 3684+00	QWEST(CENTURY LINK)	RELOCATE
③	FIBER	4-2" HDPE DUCTS	STA 3143+00 TO 3684+00	MCI(VERIZON)-AT&T-SPRINT	RELOCATE
④	FIBER	4-2" HDPE DUCTS	STA 3143+00 TO 3684+00	QWEST-MFS-METRO	RELOCATE
⑤	(ABAN)	26" GAS	STA 3216+00 TO 3289+00	SC GAS	TO BE REMOVED
⑥	WATER	24" HDPE LINED IN 36" CONC CSG	STA 3283+92/ WILLARD AVE.	GLENDALE W & P	EXTEND CSG FROM ROW TO ROW
⑦	ELECTRICAL	99 KV OVERHEAD	STA 3283+06 TO 3288+20	GLENDALE W & P	RELOCATE UNDERGROUND
⑧	ELECTRICAL	GUY WIRE	STA 3288+26/ GRANDVIEW AVE.	GLENDALE W & P	RELOCATE/REMOVE
⑨	ELECTRICAL	GUY WIRE	STA 3288+26 TO 3289+20	GLENDALE W & P	RELOCATE/REMOVE
⑩	ELECTRICAL	99 KV OVERHEAD	STA 3288+26 TO 3302+64	GLENDALE W & P	RELOCATE UNDERGROUND
⑪	STORM DRAIN	20x12 RCB	STA 3288+52/ GRANDVIEW AVE.	LOS ANGELES CO. FCD	PROTECT-IN-PLACE
⑫	FIBER	IN 100' OF 12" STEEL CSG	STA 3288+71/ GRANDVIEW AVE.	LEVEL 3	ENCASE WITH 100' OF 12" STEEL ALONG GRANDVIEW AVENUE
⑬	WATER	12" IN CSG	STA 3288+94/ GRANDVIEW AVE.	GLENDALE W & P	PROTECT-IN-PLACE
⑭	WATER	16" IN CSG	STA 3290+00/ GRANDVIEW AVE.	GLENDALE W & P	PROTECT-IN-PLACE
⑮	ELECTRICAL	GUY WIRE	STA 3288+20 TO 3288+90/ GRANDVIEW AVE.	GLENDALE W & P	RELOCATE UNDERGROUND
⑯	STORM DRAIN	42" CULVERT (ABAN)	STA 3289+85	LOS ANGELES CO. FCD	REMOVE INTERFERING PORTIONS
⑰	GAS	12" GAS LINE	STA 3289+13	SOUTHERN CALIFORNIA GAS	ADD/EXTEND CASING FROM ROW TO ROW

REFER TO PROPOSED UTILITY RELOCATION  
DWG. NO. UT-D7081 FOR UTILITY INFORMATION  
AT ROADWAY IMPROVEMENT

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DESIGNED BY  
**J. HIGGINS**  
DRAWN BY  
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**C. ADAMS**  
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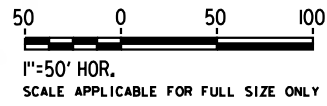
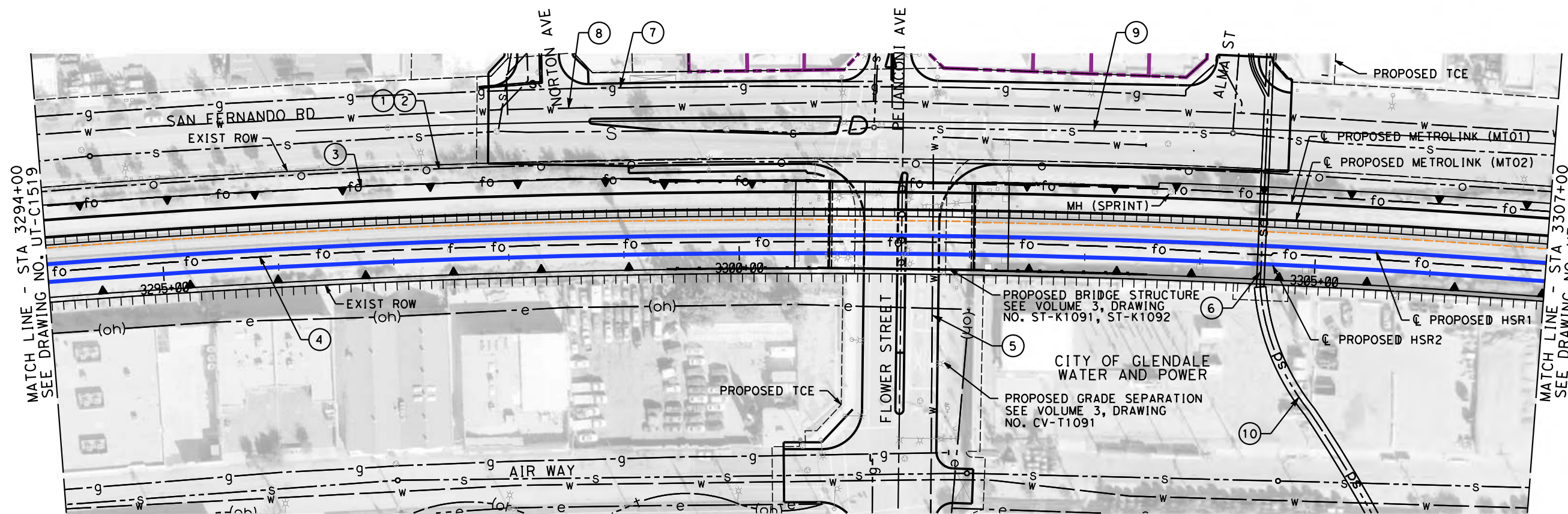


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

PEPD  
COMPOSITE UTILITIES PLAN  
HSR2 3281+00 TO HSR2 3294+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-C1519  
SCALE  
AS SHOWN  
SHEET NO.





MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	OIL	20" OIL LINE	STA 3143+00 TO 3684+00	PACIFIC PIPELINE	RELOCATE
②	FIBER	4-2" HDPE DUCTS	STA 3143+00 TO 3684+00	QWEST(CENTURY LINK)	RELOCATE
③	FIBER	4-2" HDPE DUCTS	STA 3143+00 TO 3684+00	MCI(VERIZON)-AT&T-SPRINT	RELOCATE
④	FIBER	4-2" HDPE DUCTS	STA 3143+00 TO 3684+00	QWEST-MFS-METRO	RELOCATE
⑤	WATER	8" IN CSG	STA 3301+68/ FLOWER ST.	GLENDALE W & P	RELOCATE
⑥	STORM DRAIN	6.5Wx10H RCB - CULVERT	STA 3304+53/ ALMA ST.	LACFCD	REMOVE CULVERT AND EXTEND 72" RCB ACROSS ROW
⑦	GAS	6" GAS LINE	STA 3295+00 TO 3310+00	SCG	RELOCATE AND ALIGN WITH SAN FERNANDO ROAD
⑧	WATER LINE	12" WATER LINE	STA 3295+00 TO 3310+00	GLENDALE W&P	RELOCATE AND ALIGN WITH SAN FERNANDO ROAD
⑨	SEWER	N/A	STA 3295+00 TO 3310+00	GDPW	RELOCATE
⑩	STORM DRAIN	72" RCB	STA 3304+53/ ALMA ST.	LACFCD	PROTECT-IN-PLACE

REFER TO PROPOSED UTILITY RELOCATION DWG. NO. UT-D7091 FOR UTILITY INFORMATION AT ROADWAY IMPROVEMENT

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. HIGGINS**  
DRAWN BY  
**C. CUSSON**  
CHECKED BY  
**C. ADAMS**  
IN CHARGE  
**K. PIRBAZARI**  
DATE  
**04/30/2019**

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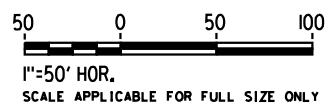
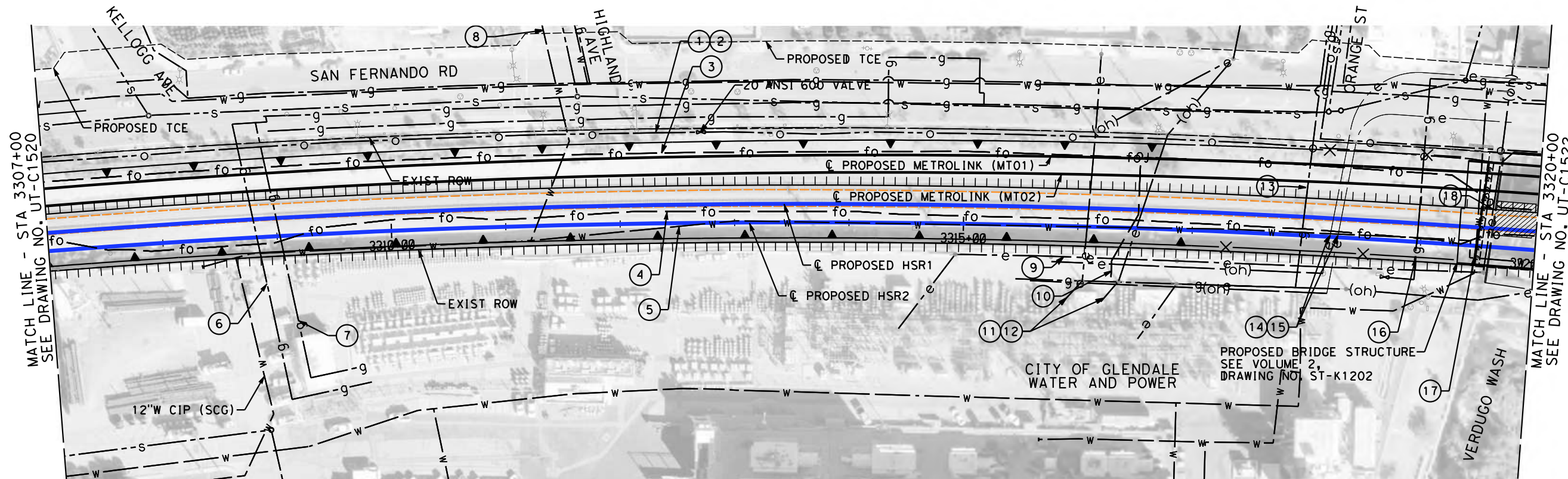


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

PEPD  
COMPOSITE UTILITIES PLAN  
HSR2 3294+00 TO HSR2 3307+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-C1520  
SCALE  
AS SHOWN  
SHEET NO.





MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	OIL	20"	STA 3143+00 TO 3684+00	PACIFIC PIPELINE	RELOCATE
②	FIBER	4-2" HDPE DUCTS	STA 3143+00 TO 3684+00	QWEST(CENTURY LINK)	RELOCATE
③	FIBER	4-2" HDPE DUCTS	STA 3143+00 TO 3684+00	MCI(VERIZON)-AT&T-SPRINT	RELOCATE
④	FIBER	4-2" HDPE DUCTS	STA 3143+00 TO 3684+00	QWEST-MFS-METRO	RELOCATE
⑤	WATER	12"	STA 3308+62 TO 3320+78	GLENDALÉ W & P	RELOCATE
⑥	GAS H	8" IN 63' OF CSG	STA 3308+82/ KELLOGG AVE.	SC GAS DISTRIBUTION	EXTEND CASING FROM ROW TO ROW
⑦	GAS H	8" IN 44' OF CSG	STA 3309+03/ KELLOGG AVE.	SC GAS DISTRIBUTION	EXTEND CASING FROM ROW TO ROW
⑧	WATER	12" IN CSG	STA 3311+27/ HIGHLAND AVE.	GLENDALÉ W & P	EXTEND CASING FROM ROW TO ROW
⑨	ELECTRICAL	99 KV OVERHEAD	STA 3314+93 TO 3320+57	GLENDALÉ W & P	PROTECT-IN-PLACE
⑩	FIBER	UNDERGROUND	STA 3316+46/ GRANGE ST.	PACIFIC BELL/AT&T	RELOCATE
⑪	ELECTRICAL	115 KV OVERHEAD	STA 3316+08/ GRANGE ST.	GLENDALÉ W & P	RAISE/RELOCATE
⑫	ELECTRICAL	115 KV OVERHEAD	STA 3316+51/ GRANGE ST.	GLENDALÉ W & P	RAISE/RELOCATE
⑬	GAS	12" IN 40' OF CSG	STA 3317+96/ GRANGE ST.	SCG	EXTEND CASING FROM ROW TO ROW
⑭	ELECTRICAL	9-6" DUCTS IN 43' OF 36" DIA CSG	STA 3318+21/ GRANGE ST.	GLENDALÉ W & P	EXTEND CASING FROM ROW TO ROW
⑮	ELECTRICAL	9-6" DUCTS IN 43' OF 36" DIA CSG	STA 3318+27/ GRANGE ST.	GLENDALÉ W & P	EXTEND CASING FROM ROW TO ROW
⑯	GAS	14" IN 80' OF 33" CSG	STA 3319+00/ GRANGE ST.	SCHOLL CANYON	EXTEND CASING FROM ROW TO ROW
⑰	WATER	12" IN 80' OF 24" CMP CSG	STA 3319+49/ GRANGE ST.	GLENDALÉ W & P	EXTEND CASING FROM ROW TO ROW
⑱	ELECTRICAL	99 KV OVERHEAD	STA 3319+58/ GRANGE ST.	GLENDALÉ W & P	RAISE/RELOCATE

REFER TO PROPOSED UTILITY RELOCATION DWG. NO. UT-D7092 FOR UTILITY INFORMATION AT ROADWAY IMPROVEMENT

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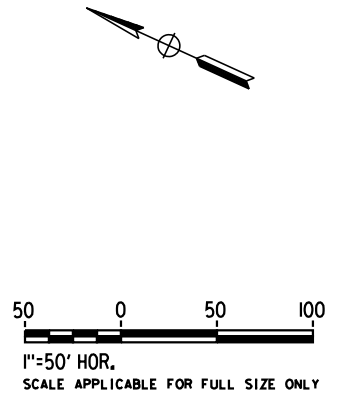
DESIGNED BY  
**J. HIGGINS**  
DRAWN BY  
**C. CUSSON**  
CHECKED BY  
**C. ADAMS**  
IN CHARGE  
**K. PIRBAZARI**  
DATE  
**04/30/2019**

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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
  
PEPD  
COMPOSITE UTILITIES PLAN  
HSR2 3307+00 TO HSR2 3320+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-C1521  
SCALE  
AS SHOWN  
SHEET NO.



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	OIL	20" OIL LINE	STA 3143+00 TO 3684+00	PACIFIC PIPELINE	RELOCATE
②	FIBER	4-2" HDPE DUCTS	STA 3143+00 TO 3684+00	QWEST(CENTURY LINK)	RELOCATE
③	FIBER	4-2" HDPE DUCTS	STA 3143+00 TO 3684+00	MCI(VERIZON)-AT&T-SPRINT	RELOCATE
④	FIBER	4-2" HDPE DUCTS	STA 3143+00 TO 3684+00	QWEST-MFS-METRO	RELOCATE
⑤	ELECTRICAL	99 KV OVERHEAD	STA 3321+57/ FAIRMONT AVE.	GLENDALE W & P	RAISE/RELOCATE
⑥	SEWER	60" VCP	STA 3320+76/ FAIRMONT AVE.	GLENDALE W & P	RELOCATE AWAY FROM BRIDGE AND EXTEND CASING
⑦	WATER	16" IN CSG	STA 3320+78/ FAIRMONT AVE.	GLENDALE W & P	PROTECT-IN-PLACE
⑧	WATER	8" IN CSG	STA 3326+01/ DORAN ST.	GLENDALE W & P	ADD CASING FROM ROW TO ROW
⑨	GAS	3" IN 62' OF 4" CSG	STA 3326+28/ DORAN ST.	SC GAS	PROTECT-IN-PLACE AND ADD CASING
⑩	SEWER	24" VCP (ABANDONED)	STA 3326+28/ DORAN ST.	CITY OF LOS ANGELES	REMOVE
⑪	OIL	14" OIL LINE	STA 3326+22/ DORAN ST.	PACIFIC PIPELINE	RELOCATE

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**J. HIGGINS**  
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**C. CUSSON**  
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**C. ADAMS**  
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**K. PIRBAZARI**  
DATE  
**04/30/2019**

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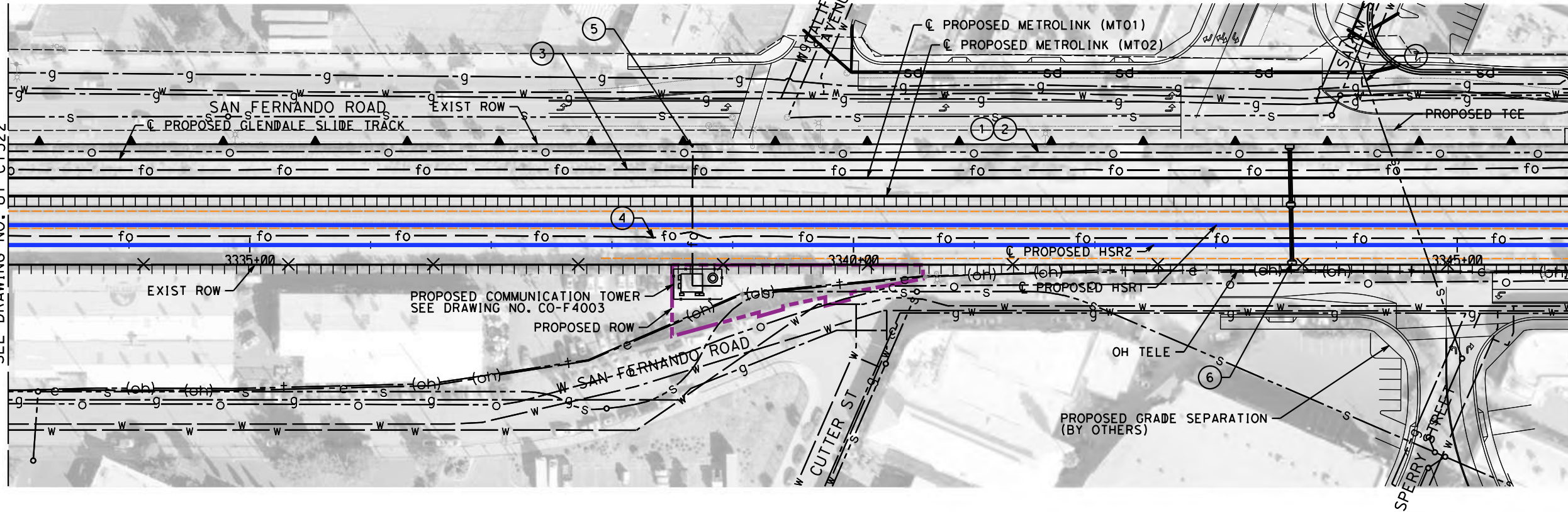


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**  
  
PEPD  
COMPOSITE UTILITIES PLAN  
HSR2 3320+00 TO HSR2 3333+00

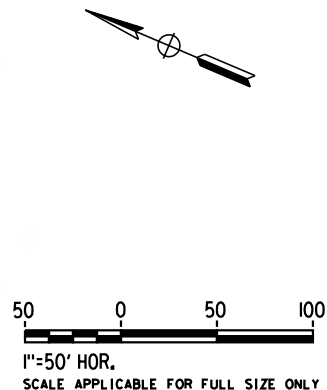
CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-C1522  
SCALE  
AS SHOWN  
SHEET NO.



MATCH LINE - STA 3333+00  
SEE DRAWING NO. UT-C1522



MATCH LINE - STA 3346+00  
SEE DRAWING NO. UT-C1524



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	OIL	20"	STA 3143+00 TO 3684+00	PACIFIC PIPELINE	RELOCATE
②	FIBER	4-2" HDPE DUCTS	STA 3143+00 TO 3684+00	OWEST(CENTURY LINK)	RELOCATE
③	FIBER	4-2" HDPE DUCTS	STA 3143+00 TO 3684+00	MCI(VERIZON)-AT&T-SPRINT	RELOCATE
④	FIBER	4-2" HDPE DUCTS	STA 3143+00 TO 3684+00	OWEST-MFS-METRO	RELOCATE
⑤	TELEPHONE	2-4"CONDUIT IN 100'OF IRON PIPE	STA 3338+67/ W CALIFORNIA AVE.	AT&T	RELOCATE
⑥	STORM DRAIN	30" RCB	STA 3343+63/ SALEM ST.	METRO	EXTEND CASING
⑦	SEWER	18" VCP IN 202' OF 30" CSG	STA 3344+45 TO 3344+77/ SPERRY ST./SALEM ST.	GLENDALE DPW	PROTECT-IN-PLACE

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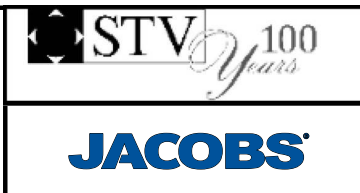
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**J. HIGGINS**  
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**C. CUSSON**  
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**K. PIRBAZARI**  
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**04/30/2019**

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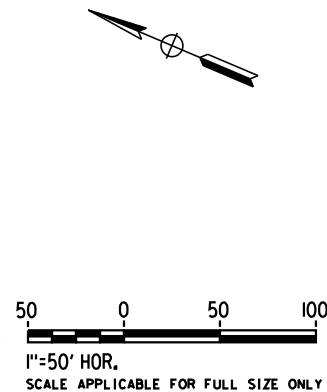
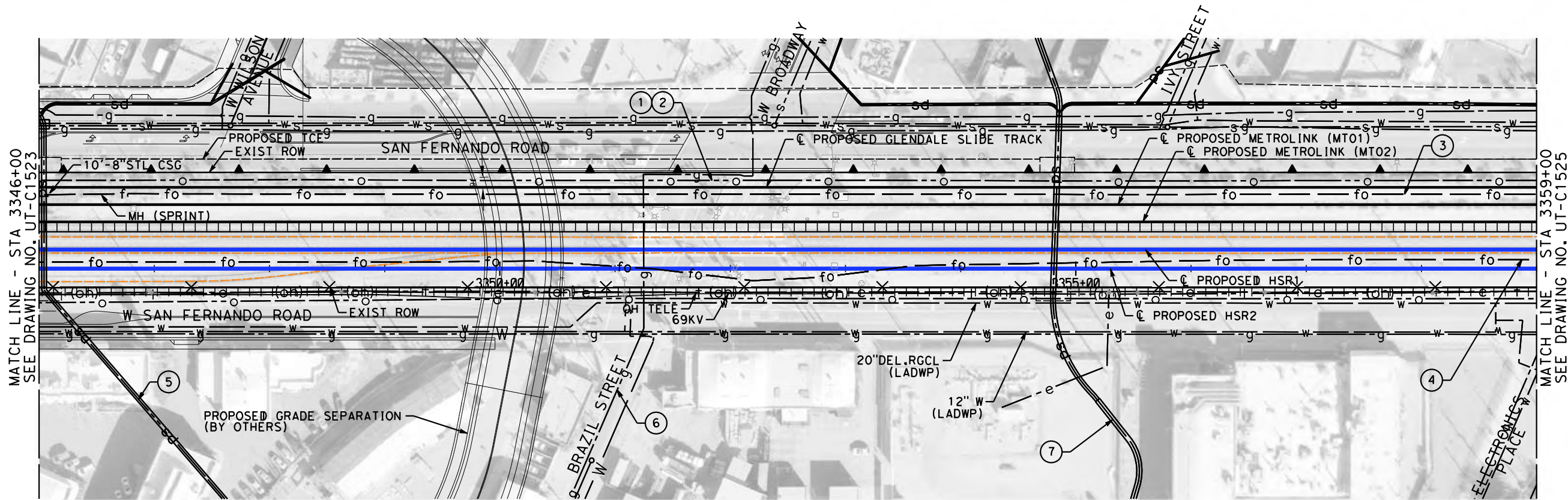


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

PEPD  
COMPOSITE UTILITIES PLAN  
HSR2 3333+00 TO HSR2 3346+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-C1523  
SCALE  
AS SHOWN  
SHEET NO.





MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	OIL	20" OIL LINE	STA 3143+00 TO 3684+00	PACIFIC PIPELINE	RELOCATE
②	FIBER	4-2" HDPE DUCTS	STA 3143+00 TO 3684+00	QWEST(CENTURY LINK)	RELOCATE
③	FIBER	4-2" HDPE DUCTS	STA 3143+00 TO 3684+00	MCI(VERIZON)-AT&T-SPRINT	RELOCATE
④	FIBER	4-2" HDPE DUCTS	STA 3143+00 TO 3684+00	QWEST-MFS-METRO	RELOCATE
⑤	STORM DRAIN	48" RCP	STA 3346+04/ W WILSON AVE.	CITY OF LOS ANGELES	PROTECT IN PLACE
⑥	GAS	4" IN 6" CSG	STA 3351+25/ BROADWAY ST./BRAZIL ST.	SC GAS TRANSMISSION	ADD CSG FROM ROW TO ROW
⑦	STORM DRAIN	51" RCP	STA 3354+81/ IVY ST.	LOS ANGELES CO. FCD	PROTECT-IN-PLACE

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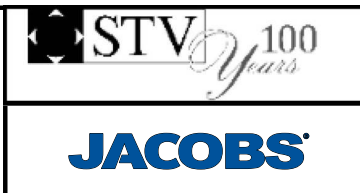
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**C. ADAMS**  
IN CHARGE  
**K. PIRBAZARI**  
DATE  
**04/30/2019**

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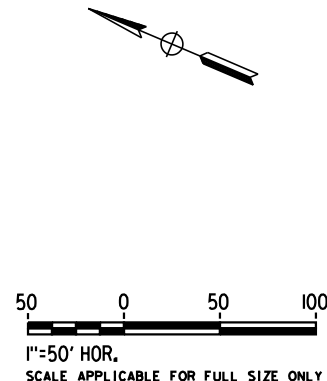
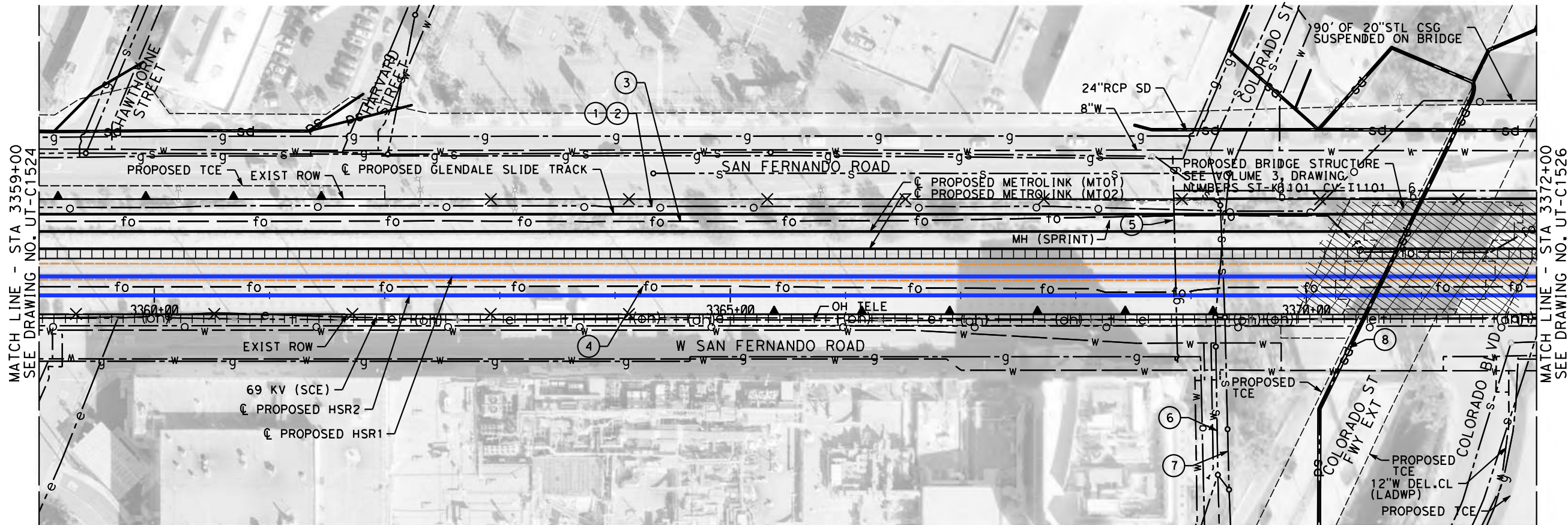
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

PEPD  
COMPOSITE UTILITIES PLAN  
HSR2 3346+00 TO HSR2 3359+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-C1524  
SCALE  
AS SHOWN  
SHEET NO.



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	OIL	20" OIL LINE	STA 3143+00 TO 3684+00	PACIFIC PIPELINE	RELOCATE
②	FIBER	4-2" HDPE DUCTS	STA 3143+00 TO 3684+00	QWEST(CENTURY LINK)	RELOCATE
③	FIBER	4-2" HDPE DUCTS	STA 3143+00 TO 3684+00	MCI(VERIZON)-AT&T-SPRINT	RELOCATE
④	FIBER	4-2" HDPE DUCTS	STA 3143+00 TO 3684+00	QWEST- MFS-METRO	RELOCATE
⑤	GAS	2" IN CSG	STA 3368+87/ COLORADO BLVD.	SC GAS DISTRIBUTION	PROTECT-IN-PLACE AND ADD CASING
⑥	SEWER	21" VCP	STA 3369+23/ COLORADO BLVD.	GLENDALE DPW	PROTECT-IN-PLACE
⑦	SEWER	30" VCP	STA 3369+29/ COLORADO BLVD.	GLENDALE DPW	PROTECT-IN-PLACE
⑧	STORM DRAIN	30" RCP	STA 3370+76/ COLORADO ST. FWY EXT	CALTRANS	PROTECT-IN-PLACE

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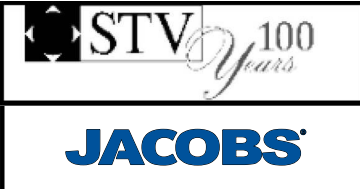
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**J. HIGGINS**  
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**C. ADAMS**  
IN CHARGE  
**K. PIRBAZARI**  
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**04/30/2019**

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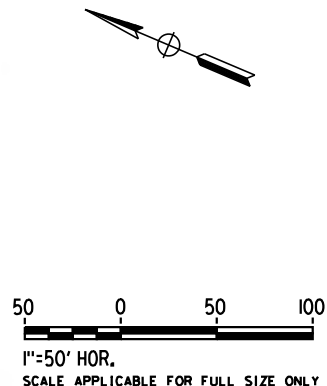
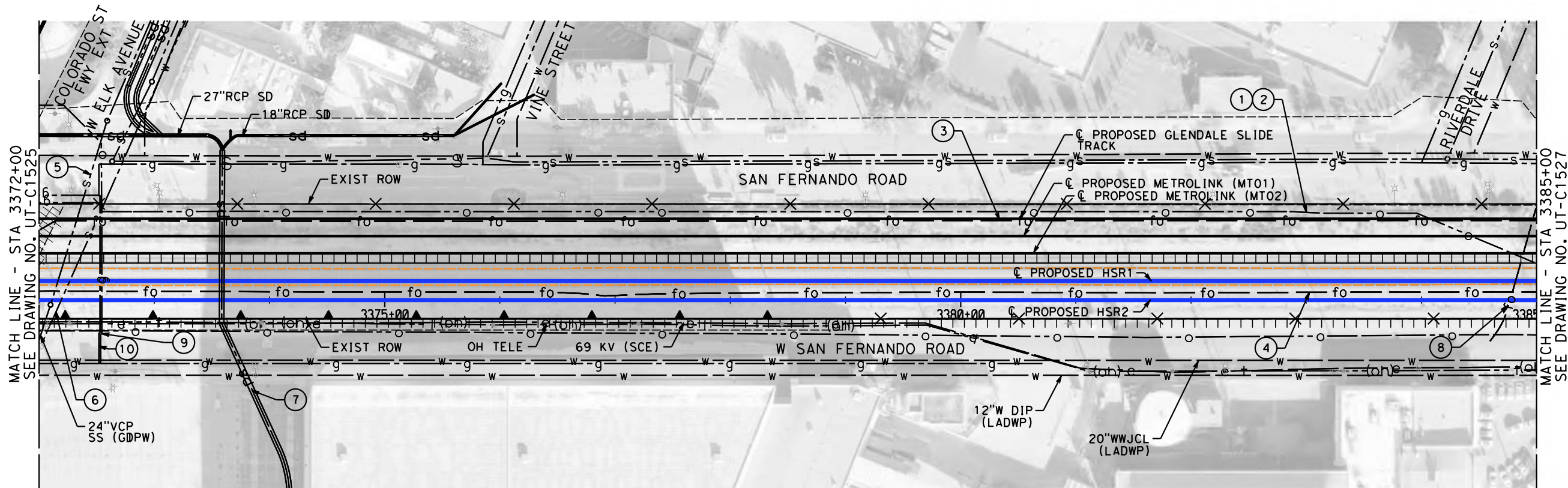


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

PEPD  
COMPOSITE UTILITIES PLAN  
HSR2 3359+00 TO HSR2 3372+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-C1525  
SCALE  
AS SHOWN  
SHEET NO.





MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	OIL	20" OIL LINE	STA 3143+00 TO 3684+00	PACIFIC PIPELINE	RELOCATE
②	FIBER	4-2" HDPE DUCTS	STA 3143+00 TO 3684+00	QWEST (CENTURYLINK)	RELOCATE
③	FIBER	4-2" HDPE DUCTS	STA 3143+00 TO 3684+00	MCI(VERIZON)-AT&T-SPRINT	RELOCATE
④	FIBER	4-2" HDPE DUCTS	STA 3143+00 TO 3684+00	QWEST-MFS-METRO	RELOCATE
⑤	SEWER	30" VCP IN CSG	STA 3372+03/ W ELK AVE.	GLENDALE DPW	EXTEND CSG FROM ROW TO ROW
⑥	SEWER	21" VCP IN CSG	STA 3372+19/ W ELK AVE.	CRESCENTA VALLEY	EXTEND CSG FROM ROW TO ROW
⑦	STORM DRAIN	48" RCP	STA 3373+59/ W ELK AVE.	LOS ANGELES CO. FCD	ADD CSG FROM ROW TO ROW
⑧	TELEPHONE	ABAN CONDUIT	STA 3384+77/ RIVERDALE DR.	PACIFIC BELL/AT&T	RELOCATE
⑨	GAS	4" IN 73' OF 20" CSG	STA 3372+54/ W ELK AVE.	SCG	EXTEND CSG FROM ROW TO ROW
⑩	GAS	4" IN 73' OF 20" CSG	STA 3372+54/ W ELK AVE.	SCG	EXTEND CSG FROM ROW TO ROW

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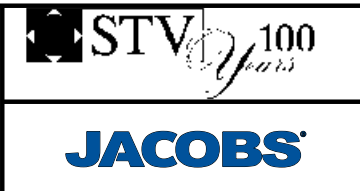
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DESIGNED BY  
**J. HIGGINS**  
DRAWN BY  
**C. CUSSON**  
CHECKED BY  
**C. ADAMS**  
IN CHARGE  
**K. PIRBAZARI**  
DATE  
**04/30/2019**

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RECORD SET**

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CONSTRUCTION**

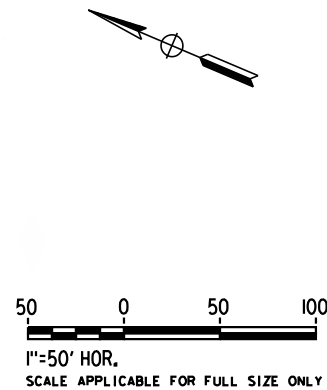
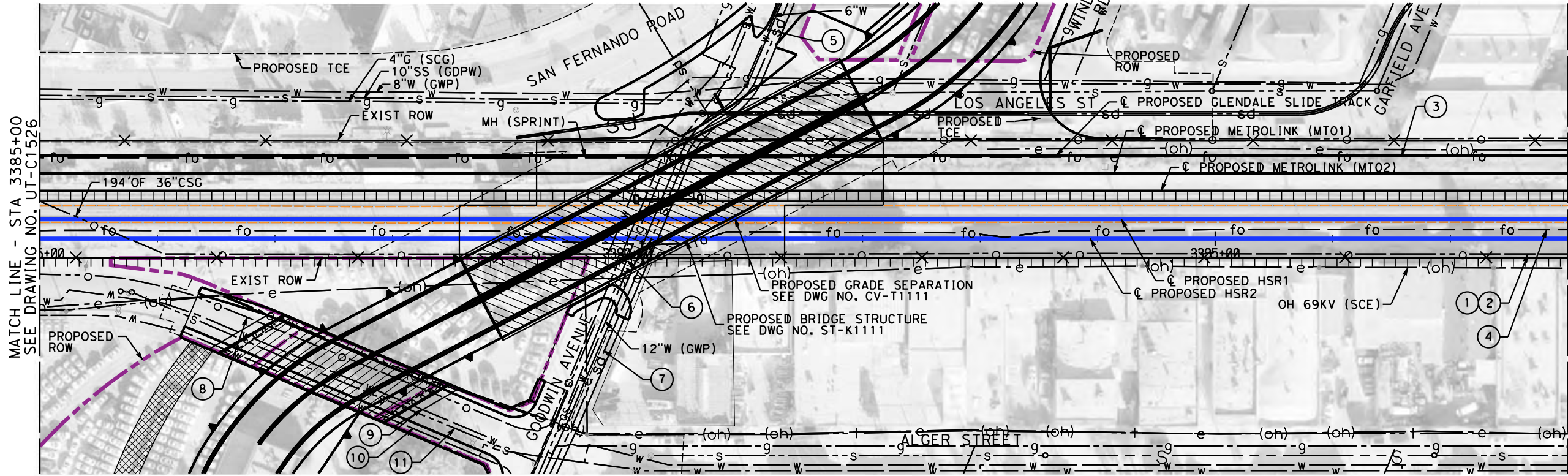


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

PEPD  
COMPOSITE UTILITIES PLAN  
HSR2 3372+00 TO HSR2 3385+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-C1526  
SCALE  
AS SHOWN  
SHEET NO.





MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	OIL	20" IN 194' OF 36" CSG	STA 3143+00 TO 3684+00	PACIFIC PIPELINE	RELOCATE
②	FIBER	4-2" HDPE DUCTS	STA 3143+00 TO 3684+00	QWEST (CENTURYLINK)	RELOCATE
③	FIBER	UNDERGROUND DUCTS IN CSG	STA 3143+00 TO 3684+00	MCI(VERIZON)-AT&T-SPRINT	RELOCATE
④	FIBER	4-2" HDPE DUCTS	STA 3143+00 TO 3684+00	QWEST-MFS-METRO	RELOCATE
⑤	WATER	30" IN CSG	STA 3389+89 GOODWIN AVE.	GLENDALE W & P	RELOCATE
⑥	GAS	6" IN 100' OF 10" CSG	STA 3390+07/ GOODWIN AVE.	SC GAS TRANSMISSION	RELOCATE
⑦	STORM DRAIN	10' RCP	STA 3390+20/ GOODWIN AVE.	LOS ANGELES CO. FCD	RELOCATE
⑧	OIL	14" OIL	STA 3318+00 TO 3427+00	KELLY WATSON	RELOCATE
⑨	WATER	20" WATER	STA 3386+02 TO 3490+47	GLENDALE W & P	RELOCATE ALONG PROPOSED BRIDGE
⑩	WATER	12" WATER	STA 3386+02 TO 3490+47	GLENDALE W & P	RELOCATE ALONG PROPOSED BRIDGE
⑪	SEWER	8" SEWER	STA 3386+02 TO 3490+47	CITY OF GLENDALE	RELOCATE ALONG PROPOSED BRIDGE

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DESIGNED BY  
**J. HIGGINS**  
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**C. CUSSON**  
CHECKED BY  
**C. ADAMS**  
IN CHARGE  
**K. PIRBAZARI**  
DATE  
**04/30/2019**

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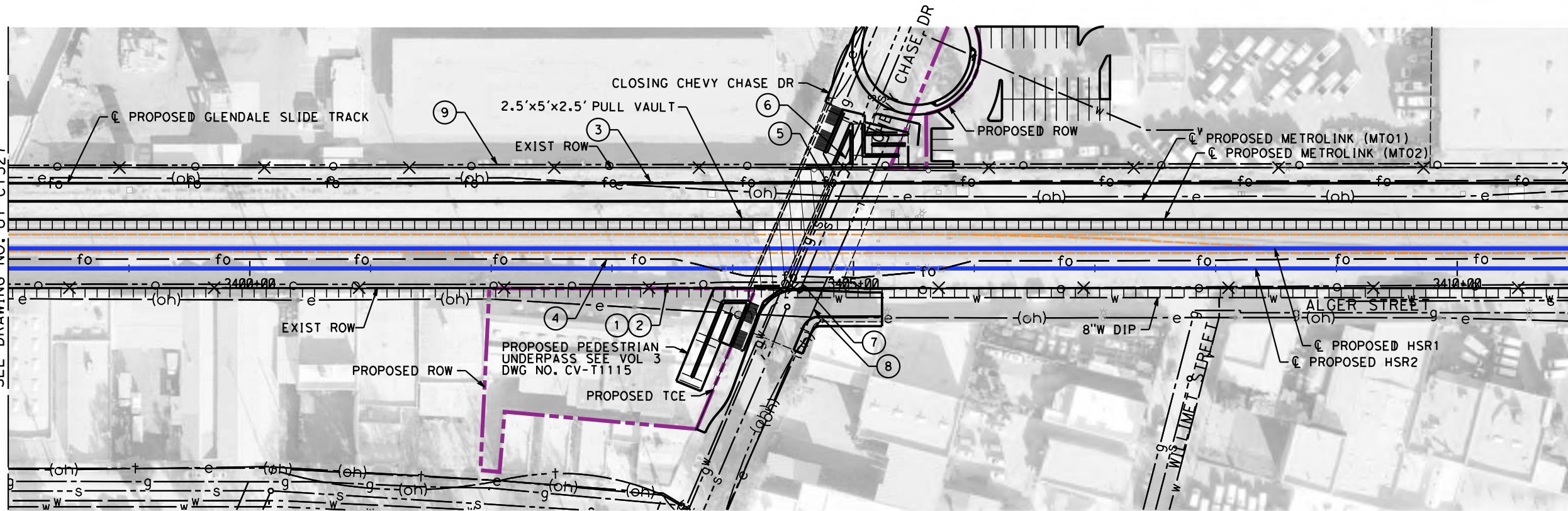


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

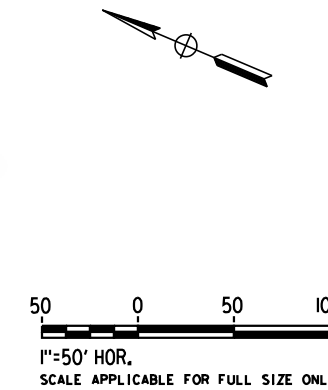
PEPD  
COMPOSITE UTILITIES PLAN  
HSR2 3385+00 TO HSR2 3398+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-C1527  
SCALE  
AS SHOWN  
SHEET NO.

MATCH LINE - STA 3398+00  
SEE DRAWING NO. UT-C1527



MATCH LINE - STA 3411+00  
SEE DRAWING NO. UT-C1529



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	OIL	20"	STA 3143+00 TO 3684+00	PACIFIC PIPELINE	RELOCATE
②	FIBER	4-2" HDPE DUCTS	STA 3143+00 TO 3684+00	QWEST (CENTURYLINK)	RELOCATE
③	FIBER	UNDERGROUND DUCTS IN CSG	STA 3143+00 TO 3684+00	MCI(VERIZON)-AT&T-SPRINT	RELOCATE
④	FIBER	4-2" HDPE DUCTS	STA 3143+00 TO 3684+00	QWEST-MFS-METRO	RELOCATE
⑤	GAS	2" IN 80' OF 4" CSG	STA 3404+53 CHEVY CHASE DR.	SC GAS DISTRIBUTION	EXTEND CASING FROM ROW TO ROW
⑥	SEWER	33" VCP IN 67' OF 60" RCP CSG	STA 3404+55/ CHEVY CHASE DR.	GLENDALE DPW	EXTEND CASING FROM ROW TO ROW
⑦	SEWER	18" VCP IN CSG	STA 3404+64/ CHEVY CHASE DR.	GLENDALE DPW	PROTECT-IN-PLACE
⑧	TELEPHONE	2 DUCTS	STA 3404+82/ CHEVY CHASE DR.	TBD	TO BE ENCASED FROM ROW TO ROW
⑨	OIL	14" OIL	STA 3318+00 TO 3427+00	KELLY WATSON	PROTECT-IN-PLACE

REFER TO PROPOSED UTILITY RELOCATION DWG. NO. UT-D7113 FOR UTILITY INFORMATION AT ROADWAY IMPROVEMENT

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**J. HIGGINS**  
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**C. ADAMS**  
IN CHARGE  
**K. PIRBAZARI**  
DATE  
**04/30/2019**

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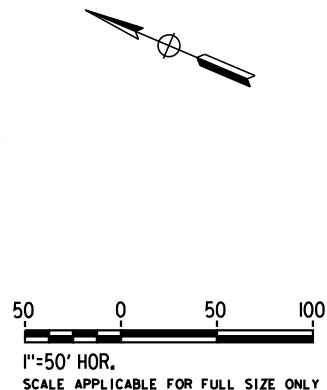
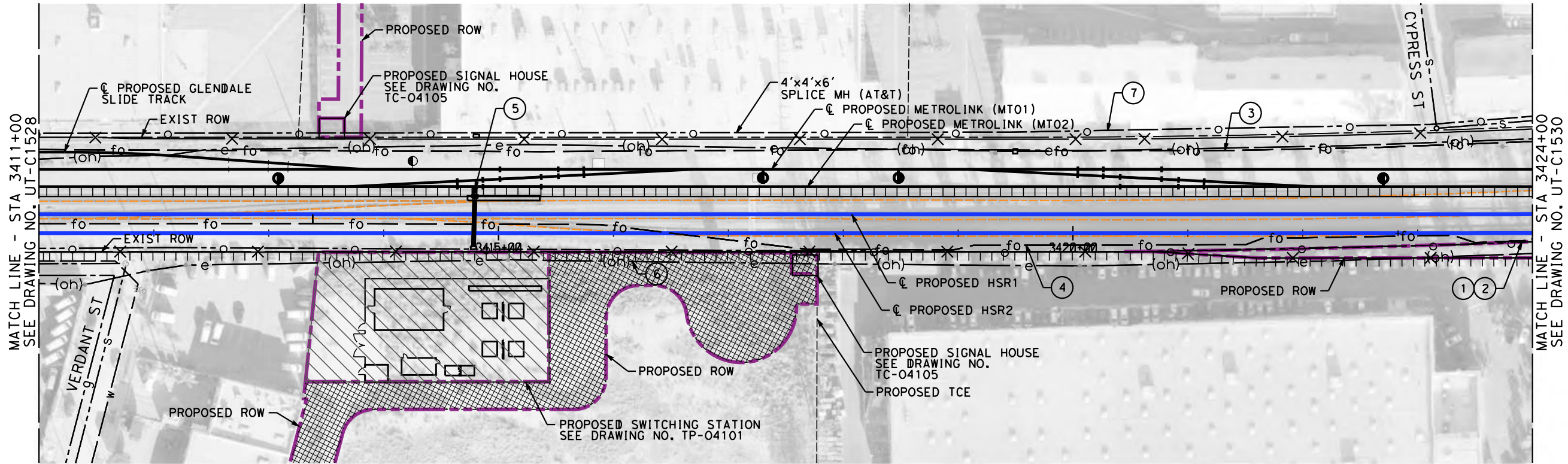


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

PEPD  
COMPOSITE UTILITIES PLAN  
HSR2 3398+00 TO HSR2 3411+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-C1528  
SCALE  
AS SHOWN  
SHEET NO.





MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	OIL	20" IN 125' OF 24" CSG	STA 3143+00 TO 3684+00	PACIFIC PIPELINE	RELOCATE
②	FIBER	4-2" HDPE DUCTS IN 125' OF CSG	STA 3143+00 TO 3684+00	QWEST (CENTURYLINK)	RELOCATE
③	FIBER	UNDERGROUND DUCTS IN CSG	STA 3143+00 TO 3684+00	MCI(VERIZON)-AT&T-SPRINT	RELOCATE
④	FIBER	4-2" HDPE DUCTS	STA 3143+00 TO 3684+00	QWEST- MFS-METRO	RELOCATE
⑤	STORM DRAIN	18" RCB - 2 CULVERTS	STA 3414+79/ VERDANT ST.	METRO	EXTEND CLUVERTS TO COVER TRACKS
⑥	ELECTRICAL	69 KV	STA 3413+43 TO 3429+52	SCE	RELOCATE
⑦	OIL	14" OIL	STA 3318+00 TO 3427+00	KELLY WATSON	PROTECT-IN-PLACE

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**C. ADAMS**  
IN CHARGE  
**K. PIRBAZARI**  
DATE  
**04/30/2019**

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RECORD SET**

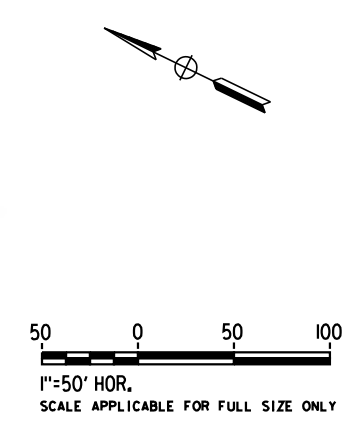
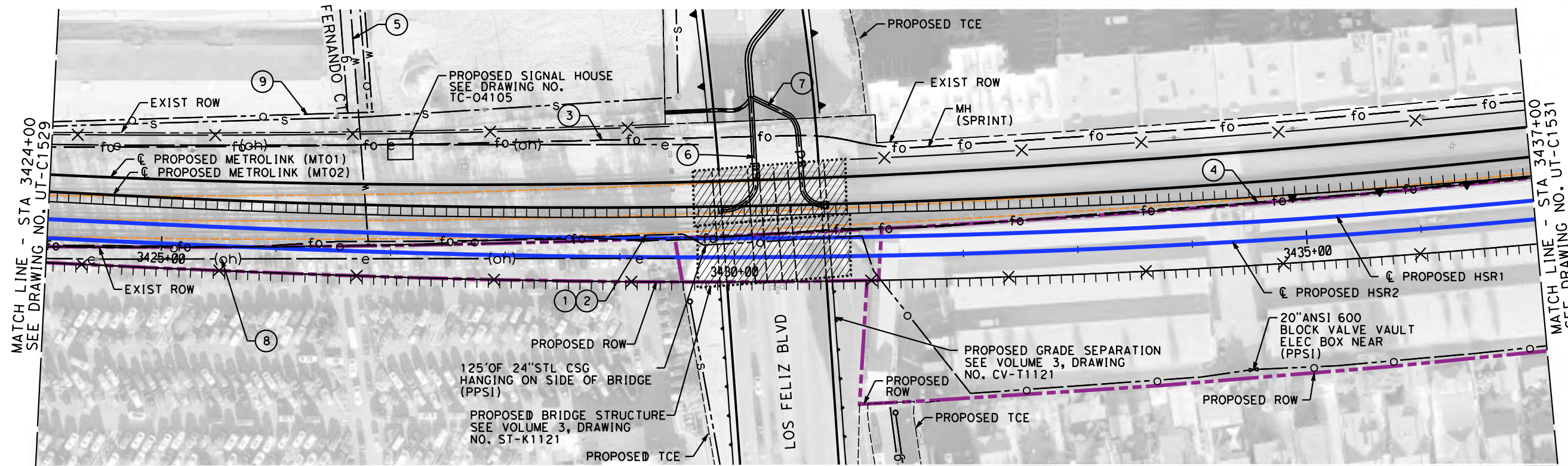
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

PEPD  
COMPOSITE UTILITIES PLAN  
HSR2 3411+00 TO HSR2 3424+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-C1529  
SCALE  
AS SHOWN  
SHEET NO.



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	OIL	20"	STA 3143+00 TO 3684+00	PACIFIC PIPELINE	RELOCATE
②	FIBER	4-2" HDPE DUCTS IN 125' OF CSG	STA 3143+00 TO 3684+00	QWEST (CENTURYLINK)	RELOCATE
③	FIBER	4-2" HDPE DUCTS	STA 3143+00 TO 3684+00	MCI(VERIZON)-AT&T-SPRINT	RELOCATE
④	FIBER	4-2" HDPE DUCTS	STA 3143+00 TO 3684+00	QWEST-MFS-METRO	RELOCATE
⑤	WATER	12" IN 98' OF 24" CSG	STA 3426+81 / FERNANDO CT.	GLENDALE W&P	TO BE PROTECTED IN PLACE
⑥	STORM DRAIN	45" RCP	STA 3430+60 / LOS FELIZ BLVD.	CITY OF LOS ANGELES	RELOCATE, ADD CATCH BASINS TO TIE INTO EXISTING
⑦	STORM DRAIN	45" RCP	STA 3430+66 / LOS FELIZ BLVD.	CITY OF LOS ANGELES	RELOCATE, ADD CATCH BASINS TO TIE INTO EXISTING
⑧	ELECTRICAL	69 KV	STA 3413+43 TO 3429+52	SCE	RELOCATE
⑨	OIL	14" OIL	STA 3318+00 TO 3427+00	KELLY WATSON	PROTECT-IN-PLACE

REFER TO PROPOSED UTILITY RELOCATION DWG. NO. UT-D7121 FOR UTILITY INFORMATION AT ROADWAY IMPROVEMENT

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**K. PIRBAZARI**  
DATE  
**04/30/2019**

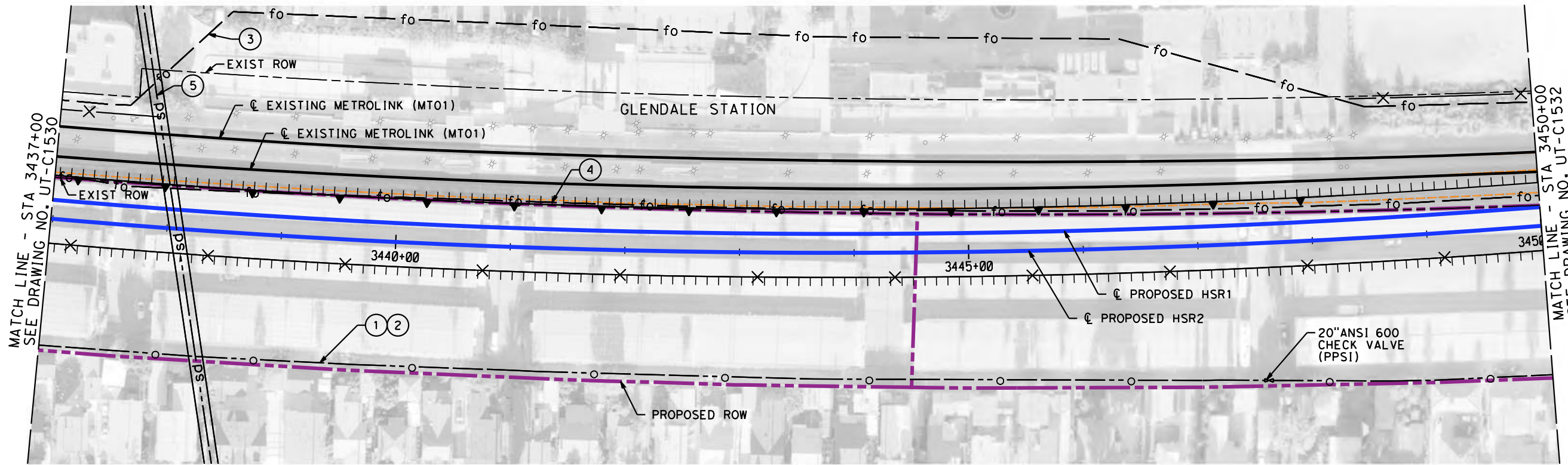
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**  
  
PEPD  
COMPOSITE UTILITIES PLAN  
HSR2 3424+00 TO HSR2 3437+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-C1530  
SCALE  
AS SHOWN  
SHEET NO.





MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	OIL	20" OIL LINE	STA 3143+00 TO 3684+00	PACIFIC PIPELINE	RELOCATE
②	FIBER	4-2" HDPE DUCTS IN 125' OF CSG	STA 3143+00 TO 3684+00	QWEST (CENTURYLINK)	RELOCATE
③	FIBER	4-2" HDPE DUCTS	STA 3143+00 TO 3684+00	MCI(VERIZON)-AT&T-SPRINT	RELOCATE
④	FIBER	4-2" HDPE DUCTS	STA 3143+00 TO 3684+00	QWEST-MFS-METRO	RELOCATE
⑤	STORM DRAIN	12' RCP	STA 3438+13/ S CENTRAL AVE.	LOS ANGELES CO. FCD	PROTECT-IN-PLACE

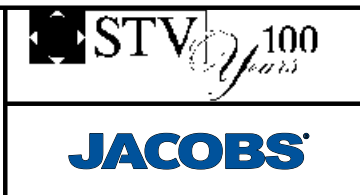
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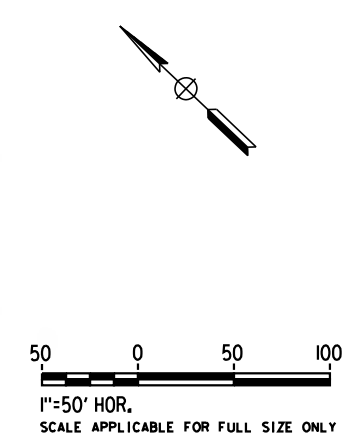
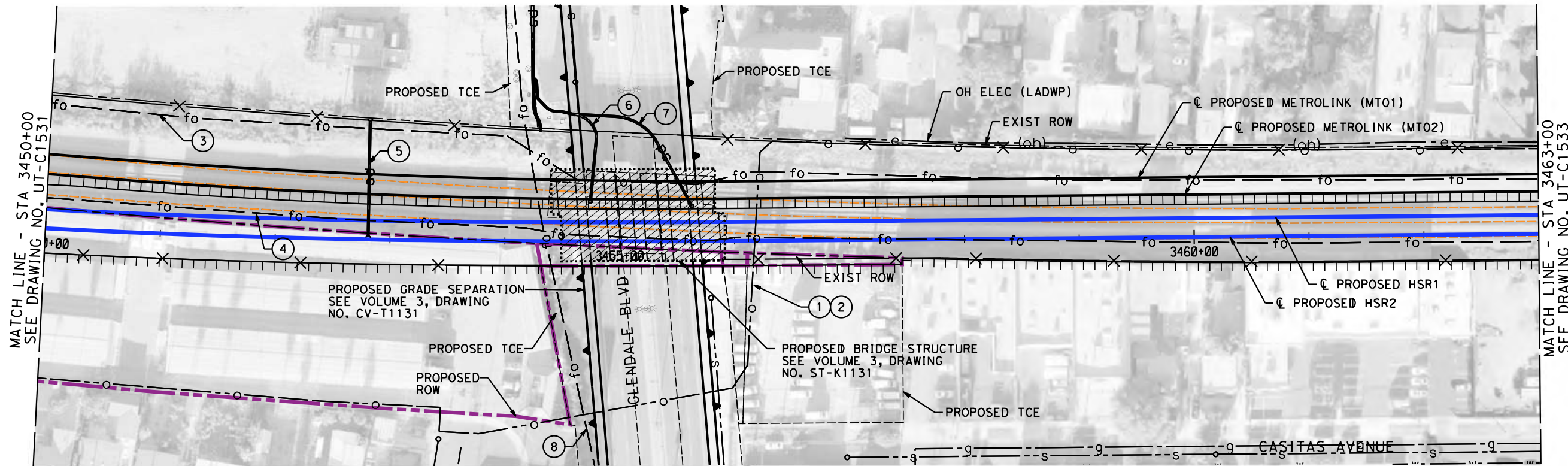
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**  
  
PEPD  
COMPOSITE UTILITIES PLAN  
HSR2 3437+00 TO HSR2 3450+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-C1531  
SCALE  
AS SHOWN  
SHEET NO.



MAJOR UTILITY CONFLICTS

	TYPE OF UTILITY	SIZE/MATERIAL	LOCATION	OWNER	DISPOSITION
①	OIL	20" IN 122' OF 36" CSG	STA 3143+00 TO 3684+00	PACIFIC PIPELINE	RELOCATE
②	FIBER	4-2" HDPE DUCTS IN CSG	STA 3143+00 TO 3684+00	QWEST (CENTURYLINK)	RELOCATE
③	FIBER	4-2" HDPE DUCTS	STA 3143+00 TO 3684+00	MCI(VERIZON)-AT&T-SPRINT	RELOCATE
④	FIBER	4-2" HDPE DUCTS	STA 3143+00 TO 3684+00	QWEST-MFS-METRO	RELOCATE
⑤	STORM DRAIN	18" RCP	STA 3452+85/ GLENDALE BLVD.	METRO	PROTECT-IN-PLACE
⑥	STORM DRAIN	24" RCP	STA 3454+79/ GLENDALE BLVD.	CITY OF LOS ANGELES	PROTECT-IN-PLACE, ADD CATCH BASINS TO TIE INTO EXISTING
⑦	STORM DRAIN	24" RCP	STA 3455+65/ GLENDALE BLVD.	CITY OF LOS ANGELES	PROTECT-IN-PLACE, ADD CATCH BASINS TO TIE INTO EXISTING
⑧	FIBER	UNGROUND FIBER CABLE	3454+36	AT&T	PROTECT-IN-PLACE

REFER TO PROPOSED UTILITY RELOCATION DWG. NO. UT-D7131 FOR UTILITY INFORMATION AT ROADWAY IMPROVEMENT

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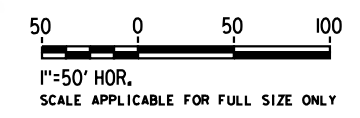
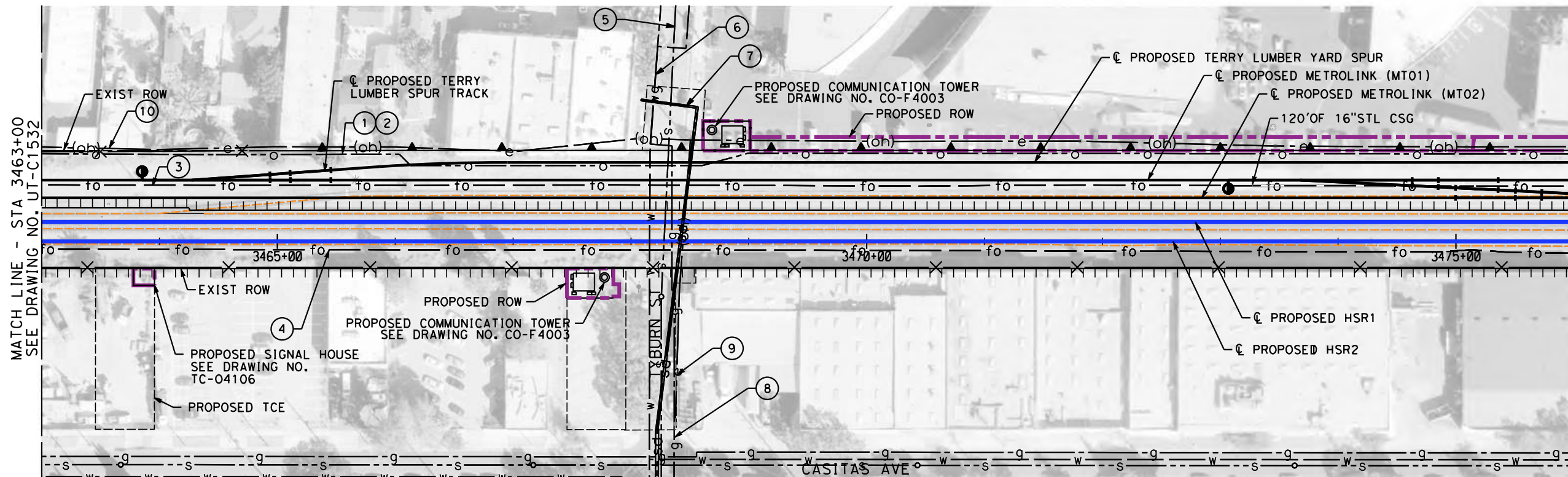


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

PEPD  
COMPOSITE UTILITIES PLAN  
HSR2 3450+00 TO HSR2 3463+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-C1532  
SCALE  
AS SHOWN  
SHEET NO.





MAJOR UTILITY CONFLICTS

	TYPE OF UTILITY	SIZE/MATERIAL	LOCATION	OWNER	DISPOSITION
①	OIL	20" IN 122' OF 36" CSG	STA 3143+00 TO 3684+00	PACIFIC PIPELINE	RELOCATE
②	FIBER	4-2" HDPE DUCTS IN CSG	STA 3143+00 TO 3684+00	QWEST (CENTURYLINK)	RELOCATE
③	FIBER	4-2" HDPE DUCTS	STA 3143+00 TO 3684+00	MCI(VERIZON)-AT&T-SPRINT	RELOCATE
④	FIBER	4-2" HDPE DUCTS	STA 3143+00 TO 3684+00	QWEST-MFS-METRO	RELOCATE
⑤	SEWER	12" VCP IN CSG	STA 3468+32/ TYBURN ST.	GLENDALE DPW	PROTECT-IN-PLACE
⑥	WATER	12" IN 16" STL CSG	STA 3468+20/ TYBURN ST.	LADWP-W	PROTECT-IN-PLACE
⑦	STORM DRAIN	18" RCP	STA 3468+46/ TYBURN ST.	CITY OF LOS ANGELES	PROTECT-IN-PLACE
⑧	GAS	6" IN 115' OF 16" CSG	STA 3468+38/ TYBURN ST.	SC GAS DISTRIBUTION	PROTECT-IN-PLACE
⑨	ELECTRICAL	OVERHEAD WIRE	STA 3468+57/ TYBURN ST.	LADWP-P	RAISE/RELOCATE
⑩	ELECTRICAL	OVERHEAD WIRE	STA 3463+49 TO 3480+51	LADWP-P	PROTECT-IN-PLACE

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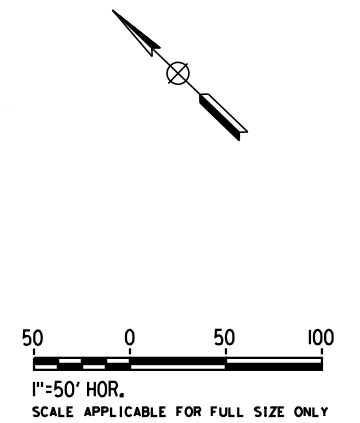
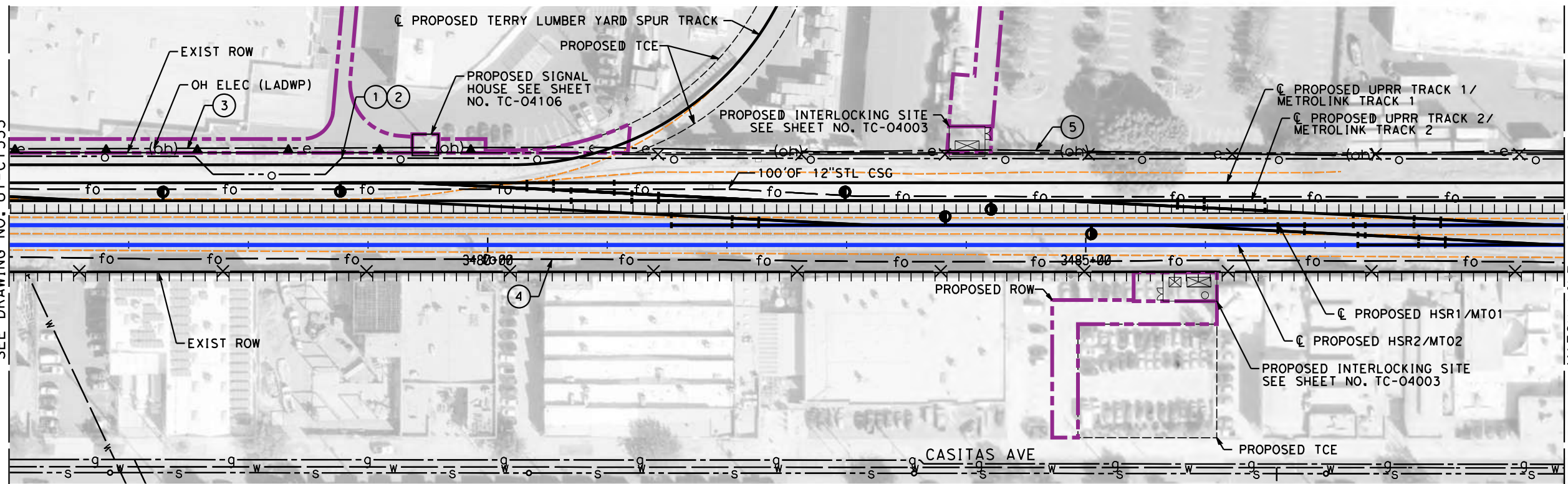
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

PEPD  
COMPOSITE UTILITIES PLAN  
HSR2 3463+00 TO HSR2 3476+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-C1533  
SCALE  
AS SHOWN  
SHEET NO.

MATCH LINE - STA 3476+00  
SEE DRAWING NO. UT-C1533

MATCH LINE - STA 3489+00  
SEE DRAWING NO. UT-C1535



MAJOR UTILITY CONFLICTS

	TYPE OF UTILITY	SIZE/MATERIAL	LOCATION	OWNER	DISPOSITION
①	OIL	20" OIL LINE	STA 3143+00 TO 3684+00	PACIFIC PIPELINE	RELOCATE
②	FIBER	4-2" HDPE DUCTS IN CSG	STA 3143+00 TO 3684+00	QWEST (CENTURYLINK)	RELOCATE
③	FIBER	4-2" HDPE DUCTS IN CSG	STA 3143+00 TO 3684+00	MCI(VERIZON)-AT&T-SPRINT	RELOCATE
④	FIBER	4-2" HDPE DUCTS IN CSG	STA 3143+00 TO 3684+00	QWEST-MFS-METRO	RELOCATE
⑤	ELECTRICAL	OVERHEAD WIRE	STA 3463+49 TO 3480+51	LADWP-P	PROTECT-IN-PLACE

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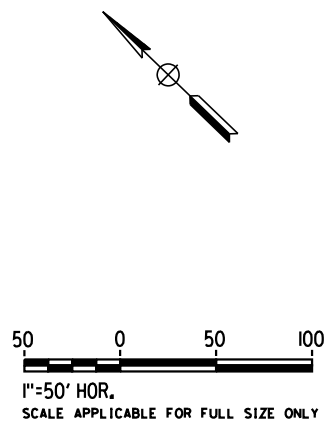
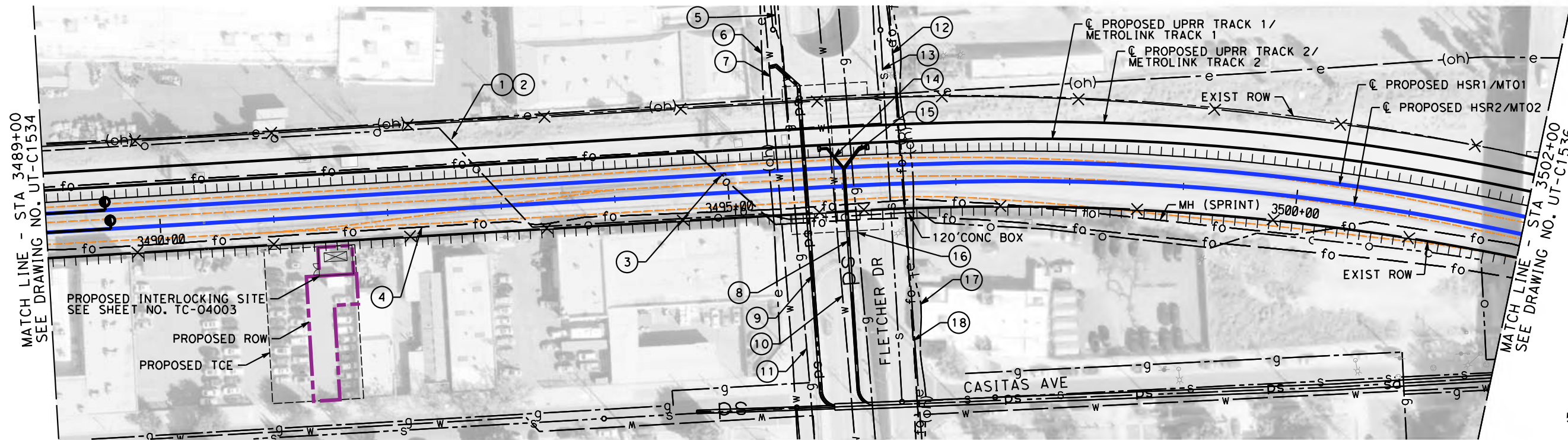


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

PEPD  
COMPOSITE UTILITIES PLAN  
HSR2 3476+00 TO HSR2 3489+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-C1534  
SCALE  
AS SHOWN  
SHEET NO.





MAJOR UTILITY CONFLICTS

	TYPE OF UTILITY	SIZE/MATERIAL	LOCATION	OWNER	DISPOSITION
①	OIL	20" OIL LINE	STA 3143+00 TO 3684+00	PACIFIC PIPELINE	RELOCATE
②	FIBER	4-2" HDPE DUCTS IN CSG	STA 3143+00 TO 3684+00	QWEST (CENTURYLINK)	RELOCATE
③	FIBER	4-2" HDPE DUCTS IN CSG	STA 3143+00 TO 3684+00	MCI(VERIZON)-AT&T-SPRINT	RELOCATE
④	FIBER	4-2" HDPE DUCTS IN CSG	STA 3143+00 TO 3684+00	QWEST-MFS-METRO	RELOCATE
⑤	WATER	6" WWJCL	STA 3496+41/ FLETCHER DR.	LADWP	RELOCATE
⑥	ELECTRICAL	OVERHEAD WIRE	STA 3495+42/ FLETCHER DR.	LADWP	RAISE/RELOCATE
⑦	WATER	70" WWJCL	STA 3495+48/ FLETCHER DR.	LADWP	PROTECT-IN-PLACE
⑧	RCP SD	24" RCP	STA 3496+06/ FLETCHER DR.	CITY OF LOS ANGELES	PROTECT-IN-PLACE
⑨	RCP SD	30" RCP	STA 3495+72/ FLETCHER DR.	CITY OF LOS ANGELES	PROTECT-IN-PLACE
⑩	WATER	30" DIP IN 40" CSG	STA 3495+96/ FLETCHER DR.	LADWP	PROTECT-IN-PLACE
⑪	GAS	6" IN CSG	STA 3495+61/ FLETCHER DR.	SC GAS DISTRIBUTION	ADD CASING FROM ROW TO ROW
⑫	ELECTRICAL	69 KV	STA 3496+58/ FLETCHER DR.	LADWP	RAISE/RELOCATE
⑬	SEWER	8" VCP IN CSG	STA 3496+45/ FLETCHER DR.	CITY OF LOS ANGELES	PROTECT-IN-PLACE
⑭	STORM DRAIN	18" RCP	STA 3496+06/ FLETCHER DR.	CITY OF LOS ANGELES	PROTECT-IN-PLACE
⑮	RCP SD	24" RCP	STA 3496+06/ FLETCHER DR.	CITY OF LOS ANGELES	PROTECT-IN-PLACE
⑯	GAS H	4" IN 8" CSG	STA 3496+14/ FLETCHER DR.	SC GAS DISTRIBUTION	ADD CASING FROM ROW TO ROW
⑰	FIBER	OVERHEAD CABLE	STA 3496+58/ FLETCHER DR.	TBD	RAISE/RELOCATE
⑱	TELEPHONE	OVERHEAD CABLE	STA 3496+58/ FLETCHER DR.	AT&T LOCAL	RAISE/RELOCATE

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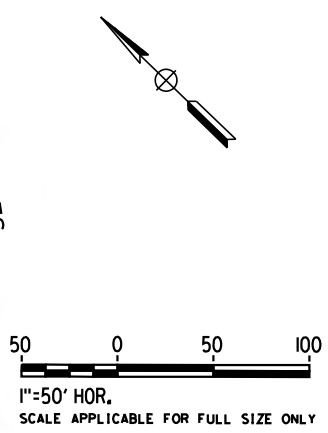
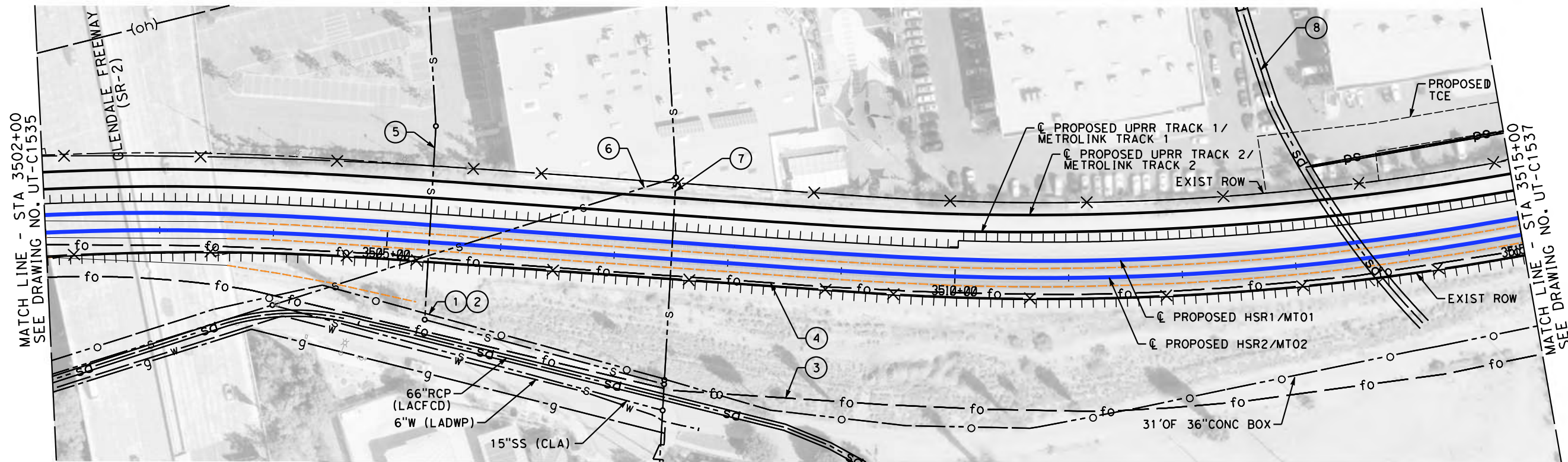
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

PEPD  
COMPOSITE UTILITIES PLAN  
HSR2 3489+00 TO HSR2 3502+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-C1535  
SCALE  
AS SHOWN  
SHEET NO.



MAJOR UTILITY CONFLICTS

	TYPE OF UTILITY	SIZE/MATERIAL	LOCATION	OWNER	DISPOSITION
①	OIL	20" STL PIPE	STA 3143+00 TO 3684+00	PACIFIC PIPELINE	RELOCATE
②	FIBER	4-2" HDPE DUCTS IN CSG	STA 3143+00 TO 3684+00	QWEST (CENTURYLINK)	RELOCATE
③	FIBER	4-2" HDPE DUCTS IN CSG	STA 3143+00 TO 3684+00	MCI(VERIZON)-AT&T-SPRINT	RELOCATE
④	FIBER	4-2" HDPE DUCTS IN CSG	STA 3143+00 TO 3684+00	QWEST-MFS-METRO	RELOCATE
⑤	SEWER	8" VCP	STA 3505+41	CITY OF LOS ANGELES	PROTECT-IN-PLACE
⑥	SEWER	15" VCP ABAN	STA 3505+50 TO 3506+00	CITY OF LOS ANGELES	PROTECT-IN-PLACE
⑦	SEWER	12" VCP ABAN IN CSG	STA 3507+54	CITY OF LOS ANGELES	PROTECT-IN-PLACE
⑧	STORM DRAIN	10Wx12H RCP	STA 3513+66	LOS ANGELES CO. FCD	PROTECT-IN-PLACE

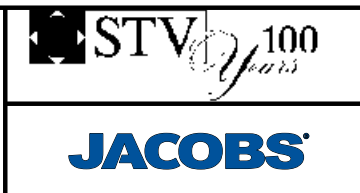
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DATE  
**04/30/2019**

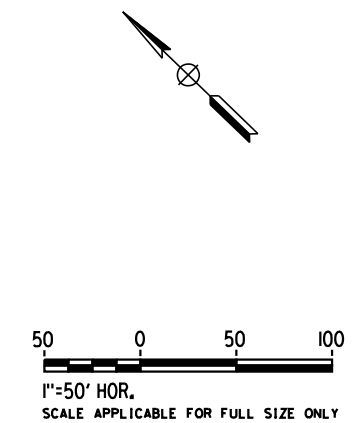
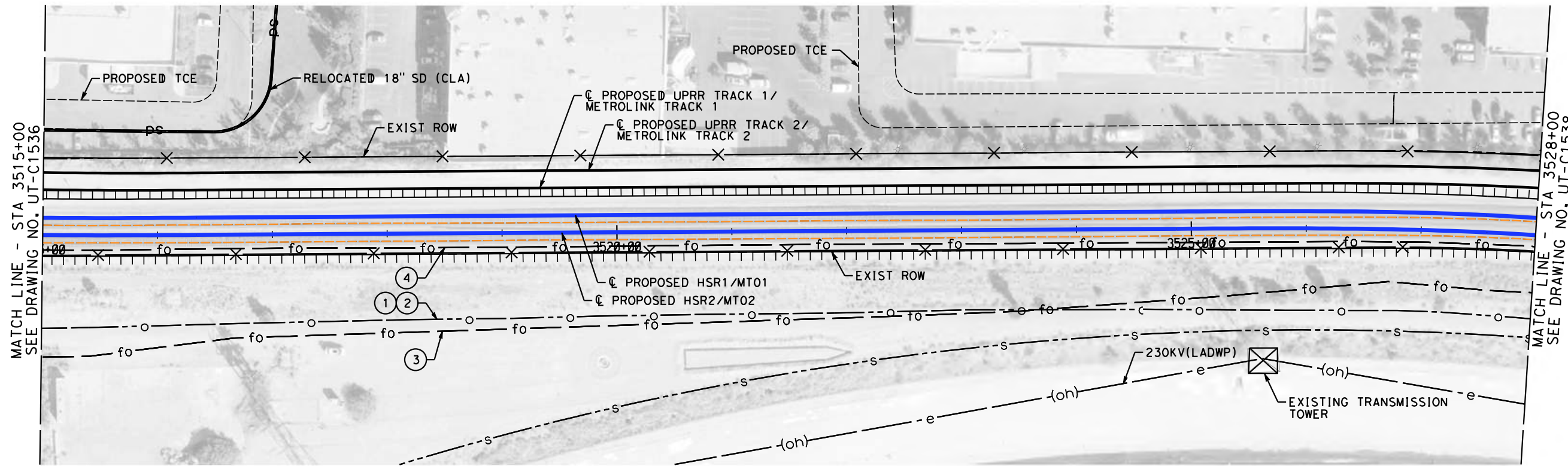
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**  
  
PEPD  
COMPOSITE UTILITIES PLAN  
HSR2 3502+00 TO HSR2 3515+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-C1536  
SCALE  
AS SHOWN  
SHEET NO.





MAJOR UTILITY CONFLICTS

	TYPE OF UTILITY	SIZE/MATERIAL	LOCATION	OWNER	DISPOSITION
①	OIL	20" STL PIPE	STA 3143+00 TO 3684+00	PACIFIC PIPELINE	RELOCATE
②	FIBER	4-2" HDPE DUCTS IN CSG	STA 3143+00 TO 3684+00	QWEST (CENTURYLINK)	RELOCATE
③	FIBER	4-2" HDPE DUCTS IN CSG	STA 3143+00 TO 3684+00	MCI(VERIZON)-AT&T-SPRINT	RELOCATE
④	FIBER	4-2" HDPE DUCTS IN CSG	STA 3143+00 TO 3684+00	QWEST-MFS-METRO	RELOCATE

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**C. CUSSON**  
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**C. ADAMS**  
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**K. PIRBAZARI**  
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**04/30/2019**

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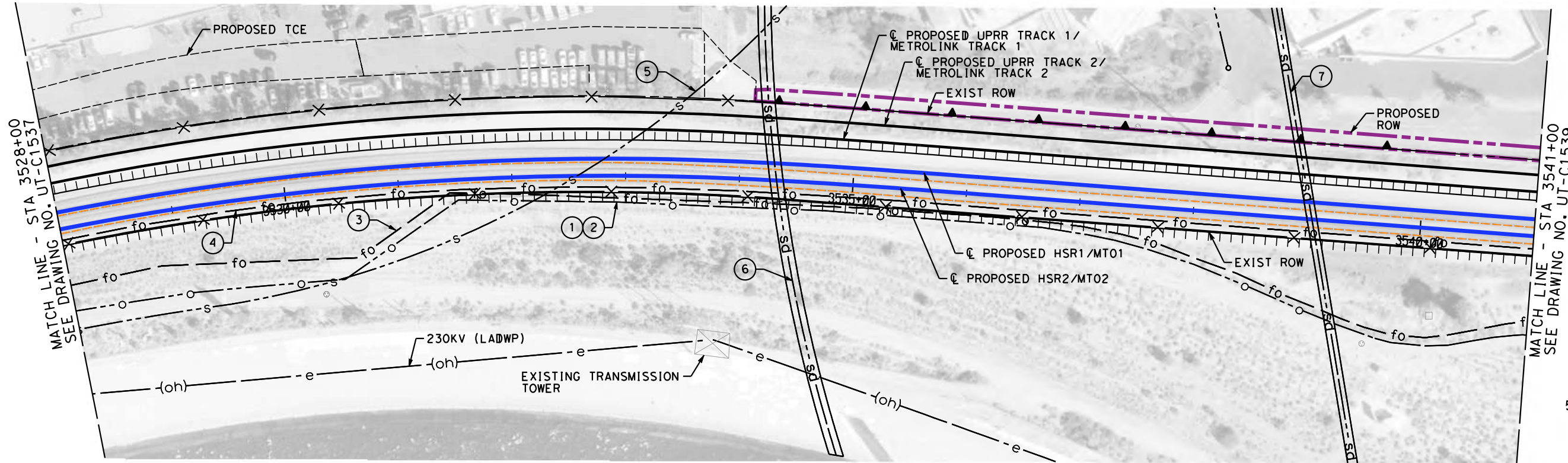
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

PEPD  
COMPOSITE UTILITIES PLAN  
HSR2 3515+00 TO HSR2 3528+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-C1537  
SCALE  
AS SHOWN  
SHEET NO.



MAJOR UTILITY CONFLICTS

	TYPE OF UTILITY	SIZE/MATERIAL	LOCATION	OWNER	DISPOSITION
①	OIL	20" STL PIPE	STA 3413+00 TO 3684+00	PACIFIC PIPELINE	RELOCATE
②	FIBER	4-2" HDPE DUCTS IN CSG	STA 3413+00 TO 3684+00	QWEST (CENTURYLINK)	RELOCATE
③	FIBER	4-2" HDPE DUCTS IN CSG	STA 3413+00 TO 3684+00	MCI(VERIZON)-AT&T-SPRINT	RELOCATE
④	FIBER	4-2" HDPE DUCTS IN CSG	STA 3413+00 TO 3684+00	QWEST-MFS-METRO	RELOCATE
⑤	SEWER	12' INTERCEPTOR	STA 3532+61	TBD	PROTECT-IN-PLACE
⑥	STORM DRAIN	12' RC ARCH	STA 3534+36	TBD	PROTECT-IN-PLACE
⑦	STORM DRAIN	10Wx10H RCB	STA 3539+08	LOS ANGELES CO. FCD	PROTECT-IN-PLACE

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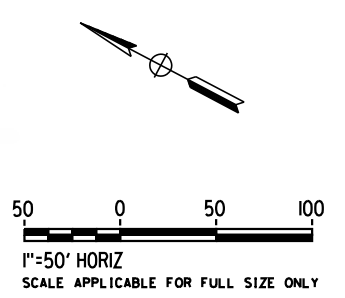
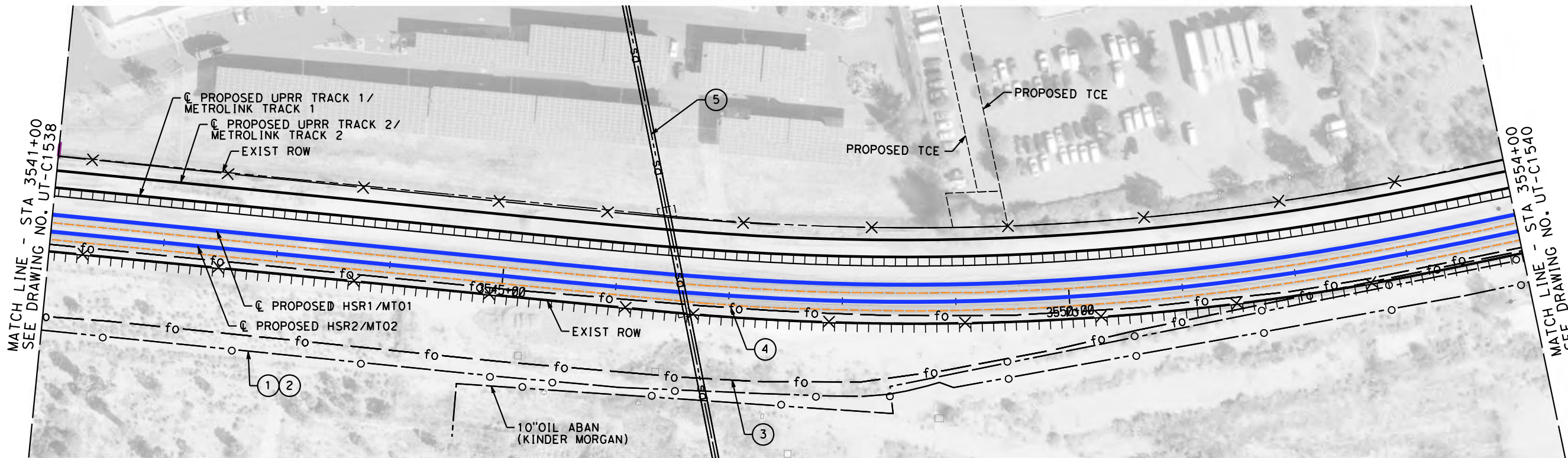


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

PEPD  
COMPOSITE UTILITIES PLAN  
HSR2 3528+00 TO HSR2 3541+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-C1538  
SCALE  
AS SHOWN  
SHEET NO.





MAJOR UTILITY CONFLICTS

	TYPE OF UTILITY	SIZE/MATERIAL	LOCATION	OWNER	DISPOSITION
①	OIL	20" STL PIPE	STA 3413+00 TO 3684+00	PACIFIC PIPELINE	RELOCATE
②	FIBER	4-2" HDPE DUCTS IN CSG	STA 3413+00 TO 3684+00	QWEST (CENTURYLINK)	RELOCATE
③	FIBER	4-2" HDPE DUCTS IN CSG	STA 3413+00 TO 3684+00	MCI(VERIZON)-AT&T-SPRINT	RELOCATE
④	FIBER	4-2" HDPE DUCTS IN CSG	STA 3413+00 TO 3684+00	QWEST-MFS-METRO	RELOCATE
⑤	STORM DRAIN	5.5W x 3.75H RCB	STA 3546+59	LOS ANGELES CO. FCD	RELOCATE

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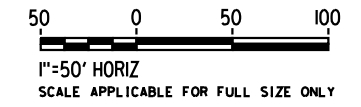
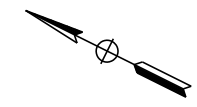
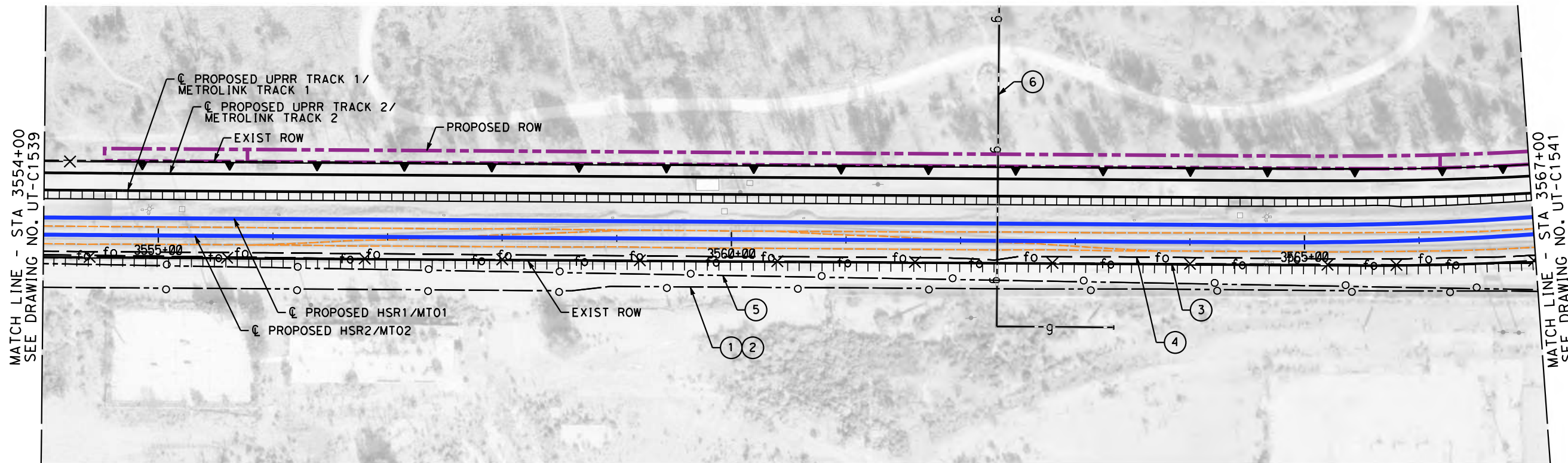
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

PEPD  
COMPOSITE UTILITIES PLAN  
HSR2 3541+00 TO HSR2 3554+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-C1539  
SCALE  
AS SHOWN  
SHEET NO.



MAJOR UTILITY CONFLICTS

	TYPE OF UTILITY	SIZE/MATERIAL	LOCATION	OWNER	DISPOSITION
①	OIL	20" STL PIPE	STA 3456+37 TO 3660+00	PACIFIC PIPELINE	RELOCATE
②	FIBER	4-2" HDPE DUCTS IN CSG	STA 3456+37 TO 3660+00	QWEST (CENTURYLINK)	RELOCATE
③	FIBER	4-2" HDPE DUCTS IN CSG	STA 3448+20 TO 3660+00	MCI(VERIZON)-AT&T-SPRINT	RELOCATE
④	FIBER	4-2" HDPE DUCTS IN CSG	STA 3220+00 TO 3625+00	QWEST-MFS-METRO	RELOCATE
⑤	OIL	10" ABAN	STA 3551+61 TO 3641+34	KINDER MORGAN	RELOCATE INTERFERING PORTIONS
⑥	GAS	6" IN 8" CSG	STA 3562+36	SC GAS	PROTECT-IN-PLACE

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IN CHARGE  
**K. PIRBAZARI**  
DATE  
**04/30/2019**

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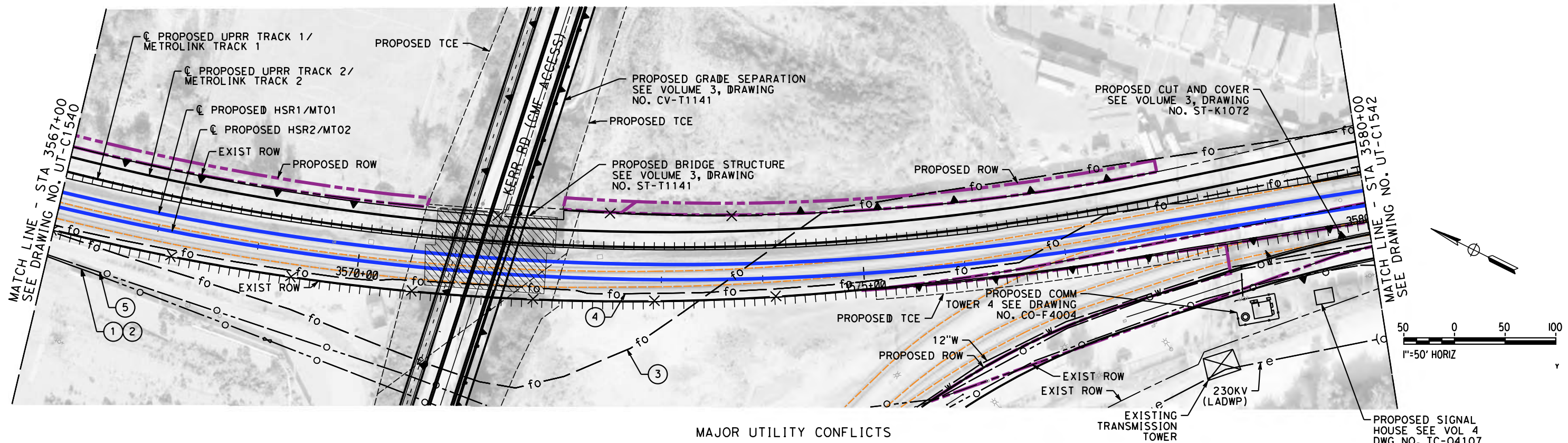


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

PEPD  
COMPOSITE UTILITIES PLAN  
HSR2 3554+00 TO HSR2 3567+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-C1540  
SCALE  
AS SHOWN  
SHEET NO.





MAJOR UTILITY CONFLICTS

	TYPE OF UTILITY	SIZE/MATERIAL	LOCATION	OWNER	DISPOSITION
①	OIL	20" STL PIPE	STA 3456+37 TO 3660+00	PACIFIC PIPELINE	RELOCATE
②	FIBER	4-2" HDPE DUCTS IN CSG	STA 3456+37 TO 3660+00	QWEST (CENTURYLINK)	RELOCATE
③	FIBER	4-2" HDPE DUCTS IN CSG	STA 3448+20 TO 3660+00	MCI(VERIZON)-AT&T-SPRINT	RELOCATE
④	FIBER	4-2" HDPE DUCTS IN CSG	STA 3220+00 TO 3625+00	QWEST-MFS-METRO	RELOCATE
⑤	OIL	10" ABAN	STA 3551+61 TO 3634+34	KINDER MORGAN	REMOVE INTERFERING PORTIONS

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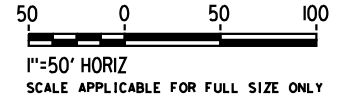
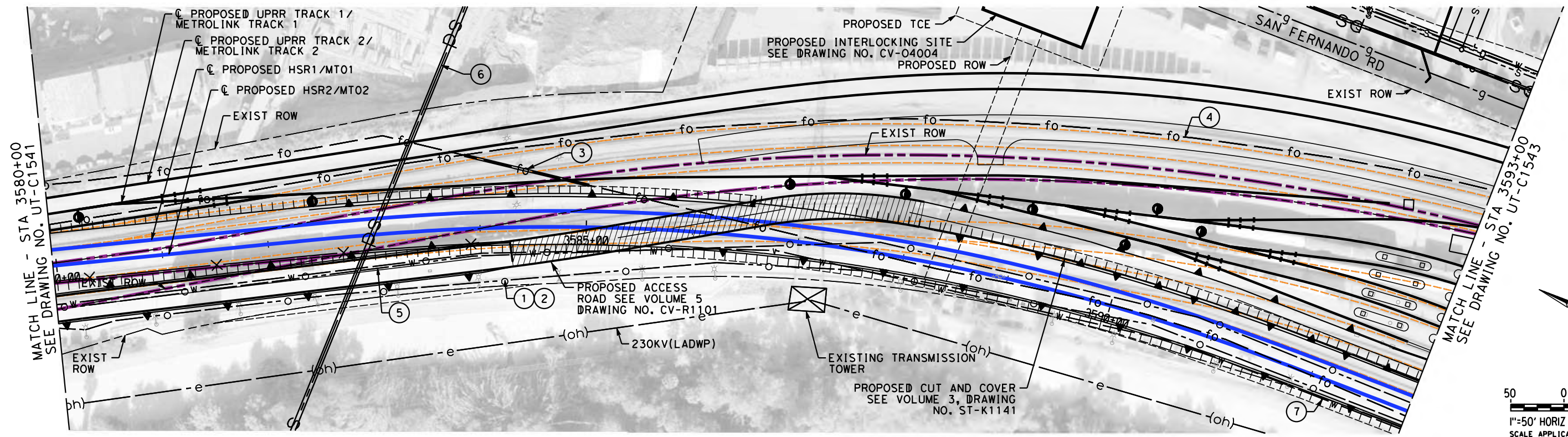
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**  
  
PEPD  
COMPOSITE UTILITIES PLAN  
HSR2 3567+00 TO HSR2 3580+00

CONTRACT NO.  
**HSR14-39**  
DRAWING NO.  
**UT-C1541**  
SCALE  
**AS SHOWN**  
SHEET NO.



MAJOR UTILITY CONFLICTS

	TYPE OF UTILITY	SIZE/MATERIAL	LOCATION	OWNER	DISPOSITION
①	OIL	20" STL PIPE	STA 3456+37 TO 3660+00	PACIFIC PIPELINE	RELOCATE
②	FIBER	4-2" HDPE DUCTS IN CSG	STA 3456+37 TO 3660+00	QWEST (CENTURYLINK)	RELOCATE
③	FIBER	2-4" HDPE DUCTS IN CSG	STA 3448+20 TO 3660+00	MCI(VERIZON)-AT&T-SPRINT	RELOCATE
④	FIBER	4-2" HDPE DUCTS IN CSG	STA 3220+00 TO 3625+00	QWEST-MFS-METRO	RELOCATE
⑤	OIL	10" ABAN	STA 3551+61 TO 3634+34	KINDER MORGAN	REMOVE INTERFERING PORTIONS
⑥	STORM DRAIN	48" RCP	STA 3582+92 TO 3583+50	LACFCD	RELOCATE
⑦	WATER	12"	STA 3576+75 TO 3626+50	LADWP	RELOCATE

REFER TO VOLUME 5 SHEETS UT-1001 TO UT-1004 FOR CMF UTILITY IMPROVEMENTS.

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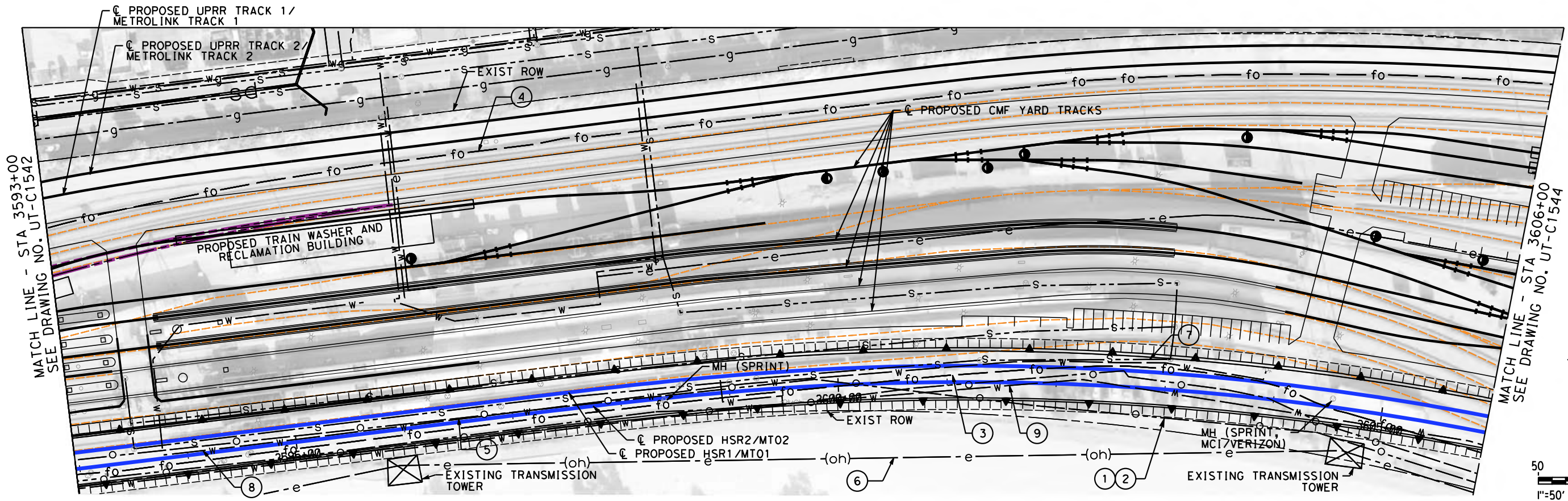
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
  
PEPD  
COMPOSITE UTILITIES PLAN  
HSR2 3580+00 TO HSR2 3593+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-C1542  
SCALE  
AS SHOWN  
SHEET NO.





MAJOR UTILITY CONFLICTS

	TYPE OF UTILITY	SIZE/MATERIAL	LOCATION	OWNER	DISPOSITION
①	OIL	20" STL PIPE	STA 3456+37 TO 3660+00	PACIFIC PIPELINE	RELOCATE
②	FIBER	4-2" HDPE DUCTS IN CSG	STA 3456+37 TO 3660+00	QWEST (CENTURYLINK)	RELOCATE
③	FIBER	2-4" HDPE DUCTS IN CSG	STA 3448+20 TO 3660+00	MCI(VERIZON)-AT&T-SPRINT	RELOCATE
④	FIBER	4-2" HDPE DUCTS IN CSG	STA 3220+00 TO 3625+00	QWEST-MFS-METRO	RELOCATE
⑤	OIL	10" ABAN	STA 3551+61 TO 3634+34	KINDER MORGAN	REMOVE INTERFERING PORTIONS
⑥	ELECTRICAL	230 KV	STA 3604+33 TO 3605+58	LADWP	PROTECT-IN-PLACE
⑦	SEWER	TBD	STA 3593+55 TO 3603+00	SCRRRA	RELOCATE
⑧	WATER	TBD	STA 3593+77 TO 3603+86	SCRRRA	RELOCATE
⑨	WATER	TBD	STA 3578+75 TO 3610+07	SCRRRA	RELOCATE

REFER TO VOLUME 5 SHEETS UT-1001 TO UT-1004 FOR CMF UTILITY IMPROVEMENTS.

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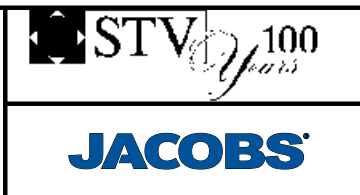
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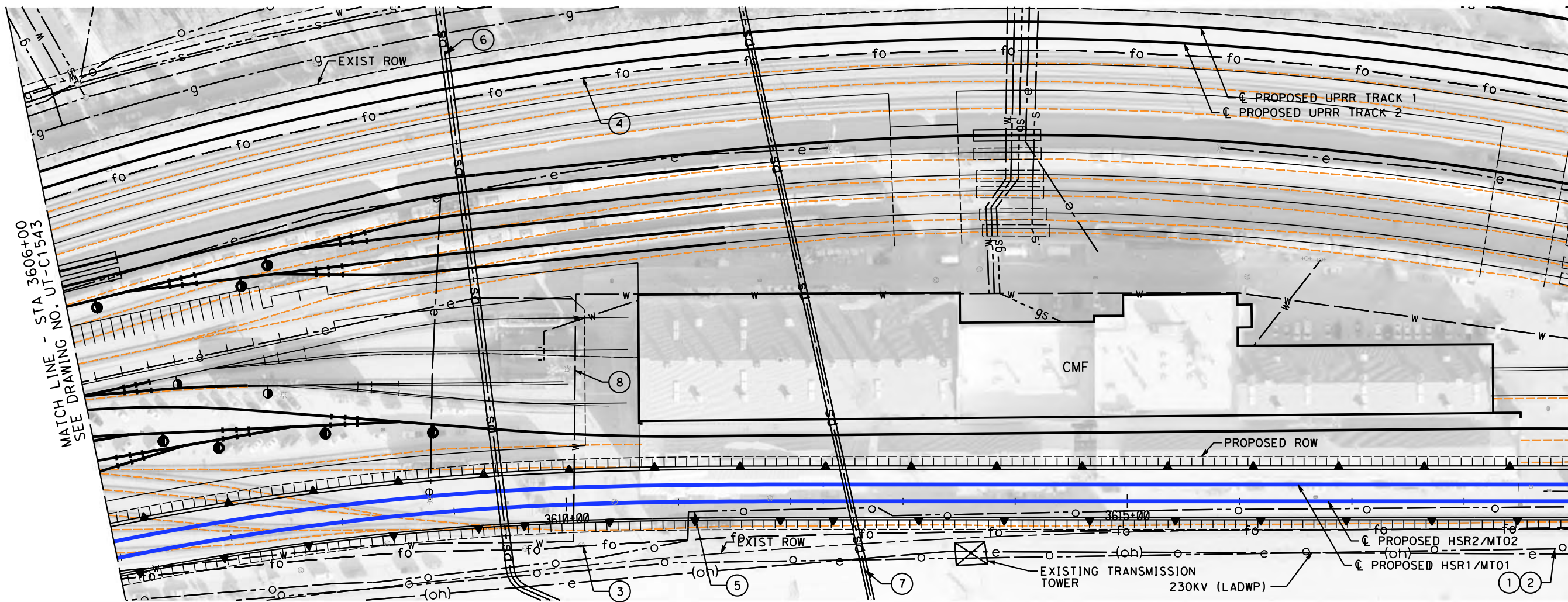


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

PEPD  
COMPOSITE UTILITIES PLAN  
HSR2 3593+00 TO HSR2 3606+00

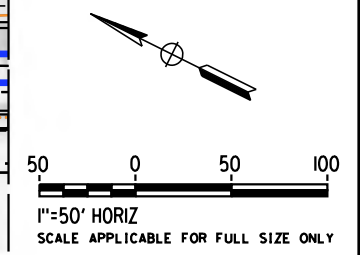
CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-C1543  
SCALE  
AS SHOWN  
SHEET NO.





MATCH LINE - STA 3619+00  
SEE DRAWING NO. UT-C1545

MATCH LINE - STA 3606+00  
SEE DRAWING NO. UT-C1543



MAJOR UTILITY CONFLICTS

①	TYPE OF UTILITY	SIZE/MATERIAL	LOCATION	OWNER	DISPOSITION
①	OIL	20" IN 110' OF 36" CSG	STA 3456+37 TO 3660+00	PACIFIC PIPELINE	RELOCATE
②	FIBER	4-2" HDPE DUCTS IN CSG	STA 3456+37 TO 3660+00	QWEST (CENTURYLINK)	RELOCATE
③	FIBER	2-4" HDPE DUCTS IN CSG	STA 3448+20 TO 3660+00	MCI(VERIZON)-AT&T-SPRINT	RELOCATE
④	FIBER	4-2" HDPE DUCTS IN CSG	STA 3220+00 TO 3625+00	QWEST-MFS-METRO	RELOCATE
⑤	OIL	10" ABAN	STA 3551+61 TO 3634+34	KINDER MORGAN	REMOVE INTERFERING PORTIONS
⑥	STORM DRAIN	81" RCP	STA 3609+43/ POPLAR ST.	LACFCD	PROTECT-IN-PLACE
⑦	STORM DRAIN	63" RCP	STA 3612+53/ MC CLURE ST.	CITY OF LOS ANGELES	PROTECT-IN-PLACE
⑧	WATER	8" WATER IN 12" CSG	STA 3610+06	CITY OF LOS ANGELES	PROTECT-IN-PLACE

REFER TO VOLUME 5 SHEETS UT-1001 TO UT-1004 FOR CMF UTILITY IMPROVEMENTS.

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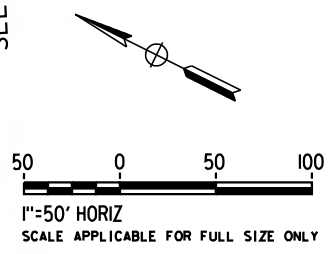
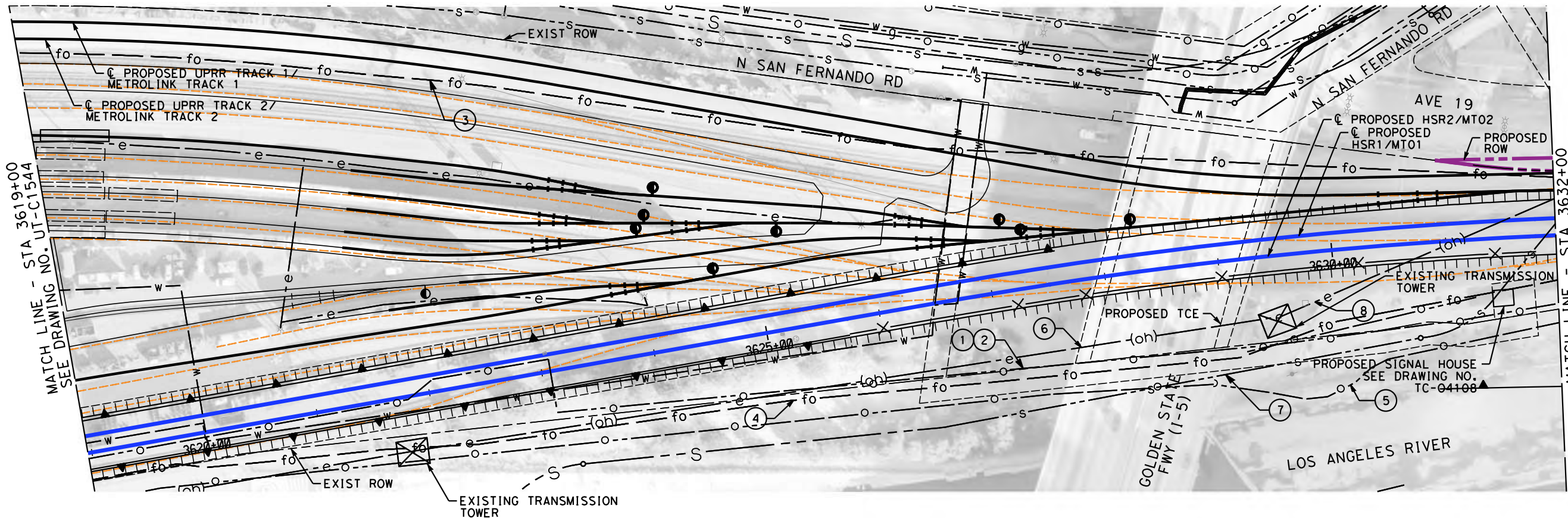
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**  
  
PEPD  
COMPOSITE UTILITIES PLAN  
HSR2 3606+00 TO HSR2 3619+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-C1544  
SCALE  
AS SHOWN  
SHEET NO.





MAJOR UTILITY CONFLICTS

	TYPE OF UTILITY	SIZE/MATERIAL	LOCATION	OWNER	DISPOSITION
①	OIL	20" IN 110' OF 36" CSG	STA 3456+37 TO 3660+00	PACIFIC PIPELINE	RELOCATE
②	FIBER	4-2" HDPE DUCTS IN CSG	STA 3456+37 TO 3660+00	QWEST (CENTURY LINK)	RELOCATE
③	FIBER	2-4" HDPE DUCTS IN CSG	STA 3448+20 TO 3660+00	MCI(VERIZON)-AT&T-SPRINT	RELOCATE
④	FIBER	4-2" HDPE DUCTS IN CSG	STA 3220+00 TO 3625+00	QWEST-MFS-METRO	RELOCATE
⑤	OIL	10" ABAN	STA 3551+61 TO 3634+34	KINDER MORGAN	REMOVE INTERFERING PORTIONS
⑥	ELECTRICAL	230 KV	STA 3631+16 TO 3631+88	LADWP	PROTECT-IN-PLACE
⑦	SEWER	48" RCP	STA 3624+81 TO 3632+88	CITY OF LOS ANGELES	PROTECT-IN-PLACE
⑧	ELECTRICAL	230 KV	STA 3624+81 TO 3632+88	LADWP	RAISE/RELOCATE

REFER TO VOLUME 5 SHEETS UT-1001 TO UT-1004 FOR CMF UTILITY IMPROVEMENTS.

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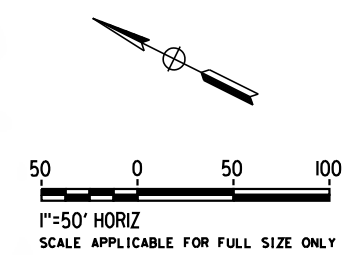
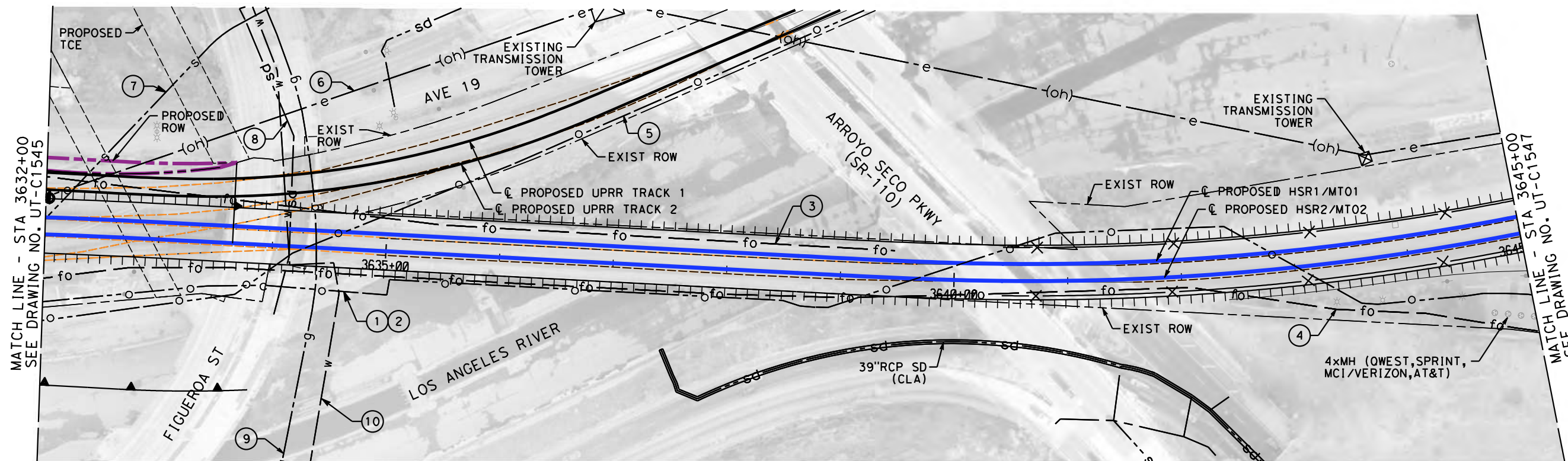
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**04/30/2019**

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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
  
PEPD  
COMPOSITE UTILITIES PLAN  
HSR2 3619+00 TO HSR2 3632+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-C1545  
SCALE  
AS SHOWN  
SHEET NO.



MAJOR UTILITY CONFLICTS

	TYPE OF UTILITY	SIZE/MATERIAL	LOCATION	OWNER	DISPOSITION
①	OIL	20" IN CSG	STA 3456+37 TO 3660+00	PACIFIC PIPELINE	RELOCATE
②	FIBER	4-2" HDPE DUCTS IN CSG	STA 3456+37 TO 3660+00	QWEST (CENTURYLINK)	RELOCATE
③	FIBER	2-4" HDPE DUCTS IN CSG	STA 3448+20 TO 3660+00	MCI(VERIZON)-AT&T-SPRINT	RELOCATE
④	FIBER	4-2" HDPE DUCTS IN CSG	STA 3220+00 TO 3660+00	QWEST-MFS-METRO	RELOCATE
⑤	OIL	10" ABAN	STA 3636+62 TO 3688+00	KINDER MORGAN	REMOVE INTERFERING PORTIONS
⑥	ELECTRICAL	230 KV	STA 3624+81 TO 3632+88	LADWP	RAISE/RELOCATE
⑦	SEWER	48" RCP	STA 3631+88	CITY OF LA	PROTECT-IN-PLACE
⑧	STORM DRAIN	TBD	STA 3634+15/ FIGUEROA ST.	CITY OF LA	PROTECT-IN-PLACE
⑨	GAS	6"	STA TBD/ FIGUEROA ST.	SC GAS	PROTECT-IN-PLACE
⑩	WATER	40" IN 48" WWJ CSG	STA TBD/ FIGUEROA ST.	LADWP	PROTECT-IN-PLACE

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**C. ADAMS**  
IN CHARGE  
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DATE  
**04/30/2019**

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CONSTRUCTION**



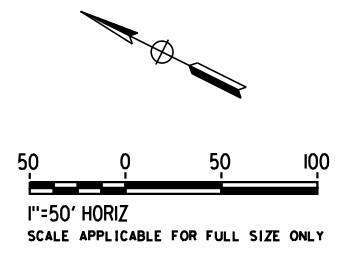
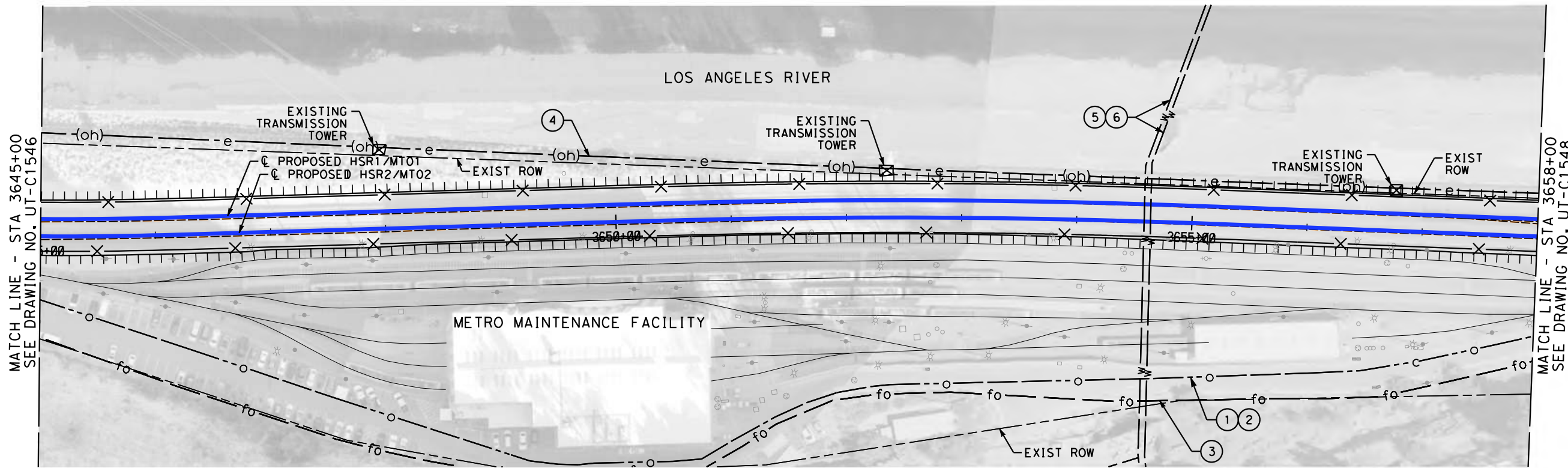
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

PEPD  
COMPOSITE UTILITIES PLAN  
HSR2 3632+00 TO HSR2 3645+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-C1546  
SCALE  
AS SHOWN  
SHEET NO.



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MAJOR UTILITY CONFLICTS

	TYPE OF UTILITY	SIZE/MATERIAL	LOCATION	OWNER	DISPOSITION
①	OIL	20" IN CSG	STA 3456+37 TO 3660+00	PACIFIC PIPELINE	RELOCATE
②	FIBER	4-2" HDPE DUCTS IN CSG	STA 3456+37 TO 3660+00	QWEST (CENTURYLINK)	RELOCATE
③	FIBER	2-4" HDPE DUCTS IN CSG	STA 3448+20 TO 3660+00	MCI(VERIZON)-AT&T-SPRINT	RELOCATE
④	ELECTRICAL	230 KV	STA 3636+62 TO 3660+00	LADWP	RAISE/RELOCATE
⑤	WATER	30" IN 40" STL CSG	STA 3654+62	LADWP	PROTECT-IN-PLACE
⑥	WATER	30" IN 40" STL CSG	STA 3654+68	LADWP	PROTECT-IN-PLACE

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. HIGGINS**  
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**C. CUSSON**  
CHECKED BY  
**C. ADAMS**  
IN CHARGE  
**K. PIRBAZARI**  
DATE  
**04/30/2019**

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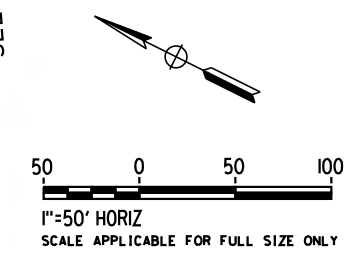
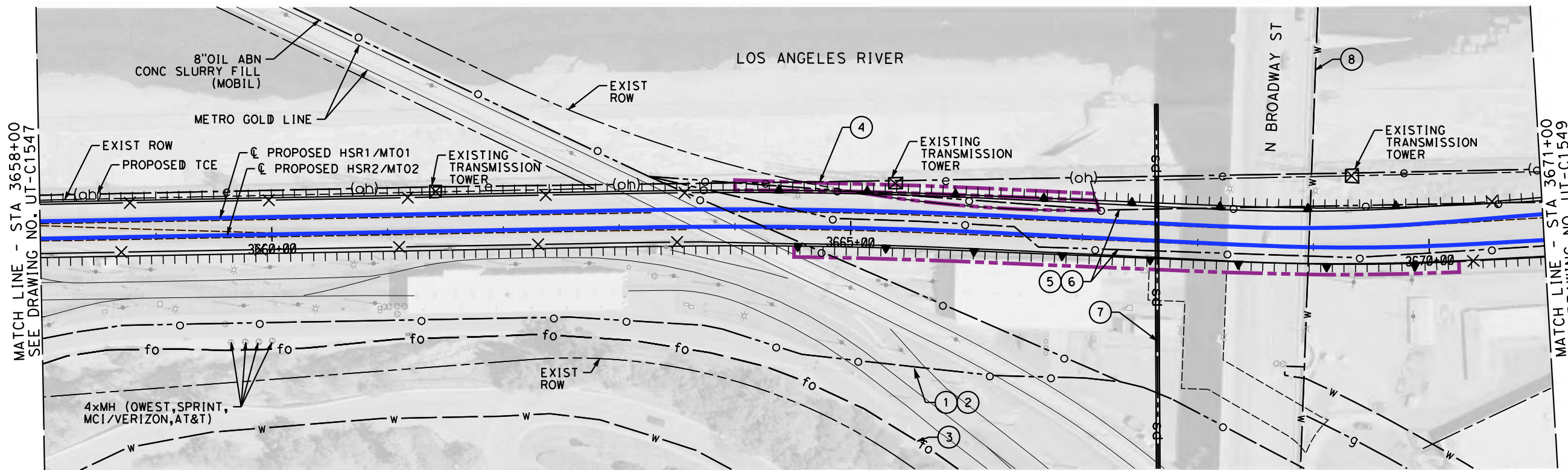
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

PEPD  
COMPOSITE UTILITIES PLAN  
HSR2 3645+00 TO HSR2 3658+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-C1547  
SCALE  
AS SHOWN  
SHEET NO.



MAJOR UTILITY CONFLICTS

	TYPE OF UTILITY	SIZE/MATERIAL	LOCATION	OWNER	DISPOSITION
①	OIL	20" IN CSG	STA 3456+37 TO 3660+00	PACIFIC PIPELINE	RELOCATE
②	FIBER	4-2" HDPE DUCTS IN CSG	STA 3456+37 TO 3660+00	QWEST (CENTURY LINK)	RELOCATE
③	FIBER	2-4" HDPE DUCTS IN CSG	STA 3448+20 TO 3660+00	MCI(VERIZON)-AT&T-SPRINT	RELOCATE
④	ELECTRICAL	230 KV	STA 3636+62 TO 3660+00	LADWP	RELOCATE/RAISE
⑤	OIL	6" ABAN CONC SLURRY	STA 3663+29 TO 3688+00	MOBIL	REMOVE INTERFERING PORTIONS
⑥	OIL	10" ABAN CONC SLURRY	STA 3663+29 TO 3688+00	MOBIL	REMOVE INTERFERING PORTIONS
⑦	STORM DRAIN	66" RCP	STA 3667+68/ BROADWAY ST.	CITY OF LOS ANGELES	PROTECT-IN-PLACE
⑧	WATER	16" IN 24" STL CSG	STA 3668+99/ BROADWAY ST.	LADWP	PROTECT-IN-PLACE

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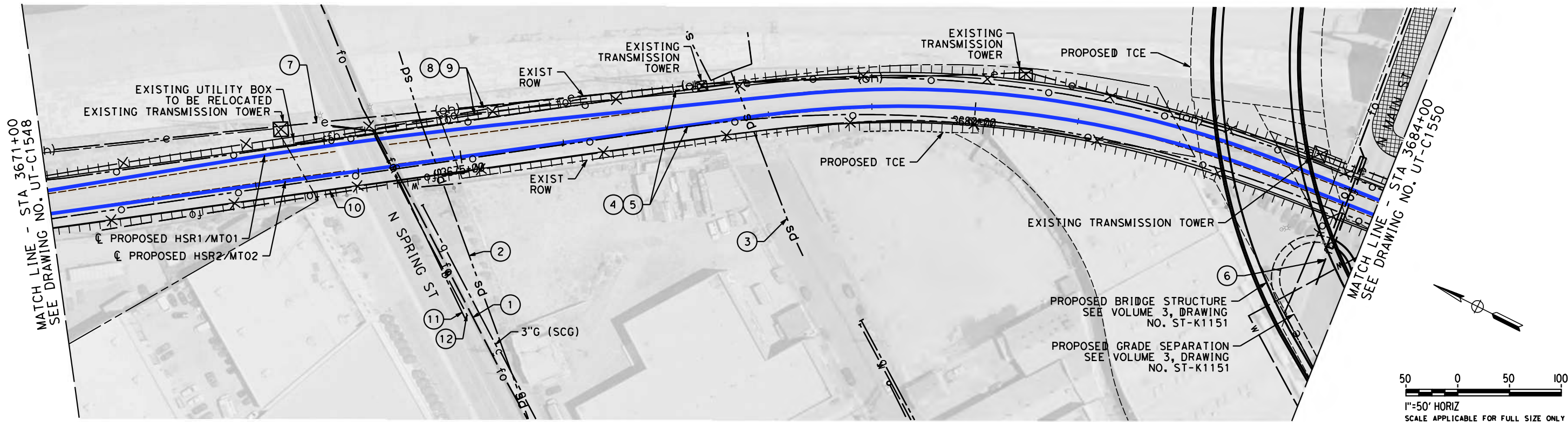


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

PEPD  
COMPOSITE UTILITIES PLAN  
HSR2 3658+00 TO HSR2 3671+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-C1548  
SCALE  
AS SHOWN  
SHEET NO.





MAJOR UTILITY CONFLICTS

	TYPE OF UTILITY	SIZE /M-TERI-L	LOC-TION	OWNER	DISPOSITION
①	FIBER	TBD	ST- 3674+33/ N SPRING ST.	-T&T	PROTECT-IN-PLACE
②	STORM DRAIN	16" VCP	ST- 3674+74/ N SPRING ST.	CITY OF LOS -NGELES	PROTECT-IN-PLACE
③	STORM DRAIN	12" VCP	ST- 3677+80/ N-UD ST.	CITY OF LOS -NGELES	PROTECT-IN-PLACE
④	OIL	6" ABAN CONC SLURRY	ST- 3663+29 TO 3688+00	MOBIL	REMOVE
⑤	OIL	10" -B-N CONC SLURRY	ST- 3663+29 TO 3688+00	MOBIL	REMOVE
⑥	FIBER	2-1.5" HDPE IN 6" STL CSG	ST- 3684+71	LEVEL 3	RELOC-TE TO NEW BRIDGE TO TIE-IN -T E-CH END
⑦	ELECTRIC-L	230 KV	ST- 3684+53 TO 3688+00	L-DWP	RELOC-TE TOWER/TR-NSMISSION LINE
⑧	FIBER	4" COMMUNICATION LINE	TBD (LIMITS UNKNOWN)	METROLINK	RELOC-TE
⑨	FIBER	4" COMMUNICATION LINE	TBD (LIMITS UNKNOWN)	METROLINK	RELOC-TE
⑩	FIBER	4" COMMUNICATION LINE	TBD (LIMITS UNKNOWN)	METROLINK	RELOC-TE
⑪	G-S	6" G-S (-B-NDONED)	ST- 3674+32/ N SPRING ST.	SCG	REMOVE INTERFERING REGIONS
⑫	W-TER	10" W-TER (-B-NDONED)	ST- 3674+31/ N SPRING ST.	DWPWS	REMOVE INTERFERING REGIONS

REFER TO PROPOSED UTILITY RELOCATION DWG. NO. UT-D7151 AND DWG UT-D7152 FOR UTILITY INFORMATION AT ROADWAY IMPROVEMENT

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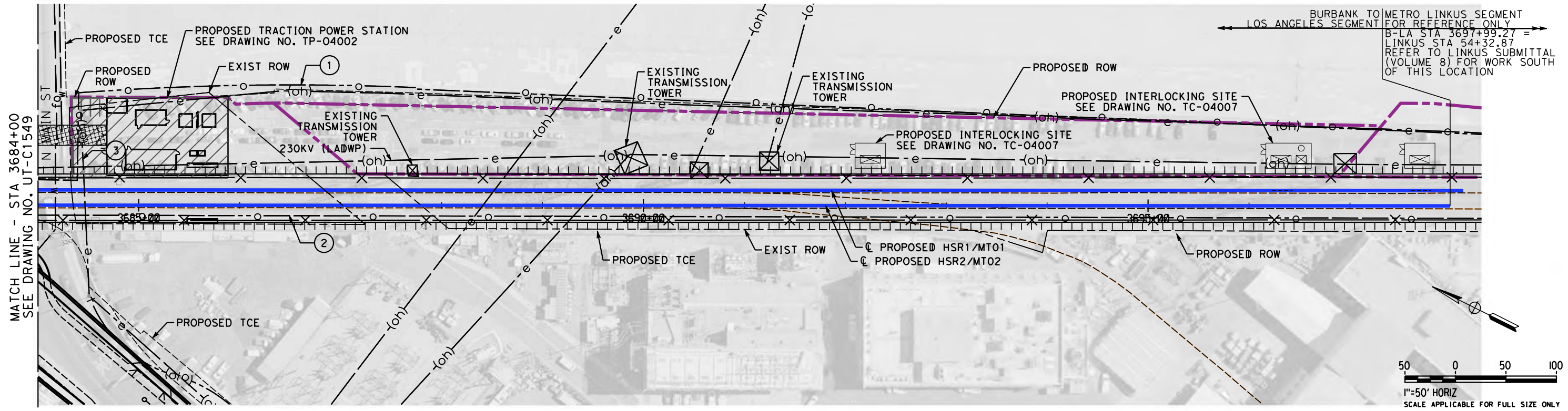
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

PEPD  
COMPOSITE UTILITIES PLAN  
HSR2 3671+00 TO HSR2 3684+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-C1549  
SCALE  
AS SHOWN  
SHEET NO.



MAJOR UTILITY CONFLICTS

	TYPE OF UTILITY	SIZE/MATERIAL	LOCATION	OWNER	DISPOSITION
①	OIL	6" ABAN CONC SLURRY	STA 3663+29 TO 3688+00	MOBIL	PROTECT-IN-PLACE
②	OIL	10" ABAN CONC SLURRY	STA 3663+29 TO 3688+00	MOBIL	PROTECT-IN-PLACE
③	ELECTRICAL	230 KV	STA 3684+53 TO 3688+00	LADWP	RELOCATE

REFER TO PROPOSED UTILITY RELOCATION DWG. NO. UT-D7151 AND DWG UT-D7152 FOR UTILITY INFORMATION AT ROADWAY IMPROVEMENT

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**04/30/2019**

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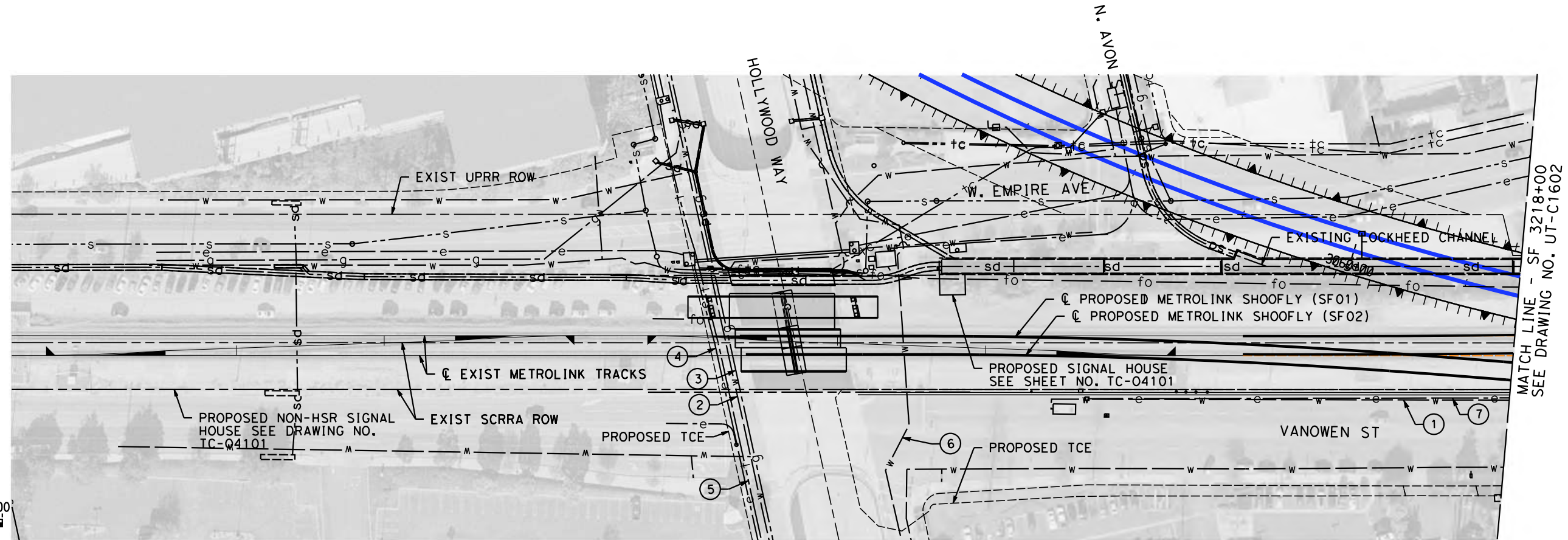
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

PEPD  
COMPOSITE UTILITIES PLAN  
HSR2 3684+00 TO HSR2 3697+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-C1550  
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AS SHOWN  
SHEET NO.



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MATCH LINE - SF 3218+00  
SEE DRAWING NO. UT-C1602

MAJOR UTILITY CONFLICTS

	TYPE OF UTILITY	SIZE/MATERIAL	LOCATION	OWNER	[I - ITI]
①	WATER	12" HDPE WATER LINE	SF 3214+06 TO 3218+00	TBD	RELOCATE
②	WATER	24" STL IN 60" OF 36" STL CSG	SF 3211+29	BURBANK WATER & POWER	PROTECT-IN-PLACE
③	GAS	6" GAS LINE	SF 3211+32	SC GAS	PROTECT-IN-PLACE
④	ELECTRICAL	4 ELECTRIC DUCTS	SF 3211+19	BURBANK WATER & POWER	PROTECT-IN-PLACE
⑤	TELEPHONE	24 TELEPHONE DUCTS	SF 3211+22	TBD	PROTECT-IN-PLACE
⑥	WATER	30" IN 42" STL CSG	SF 3212+79	BURBANK WATER & POWER	EXTEND CSG
⑦	ELECTRICAL	UNDERGROUND ELECTRICAL LINE	SF 3214+35 TO 3218+00	CITY OF BURBANK	RELOCATE

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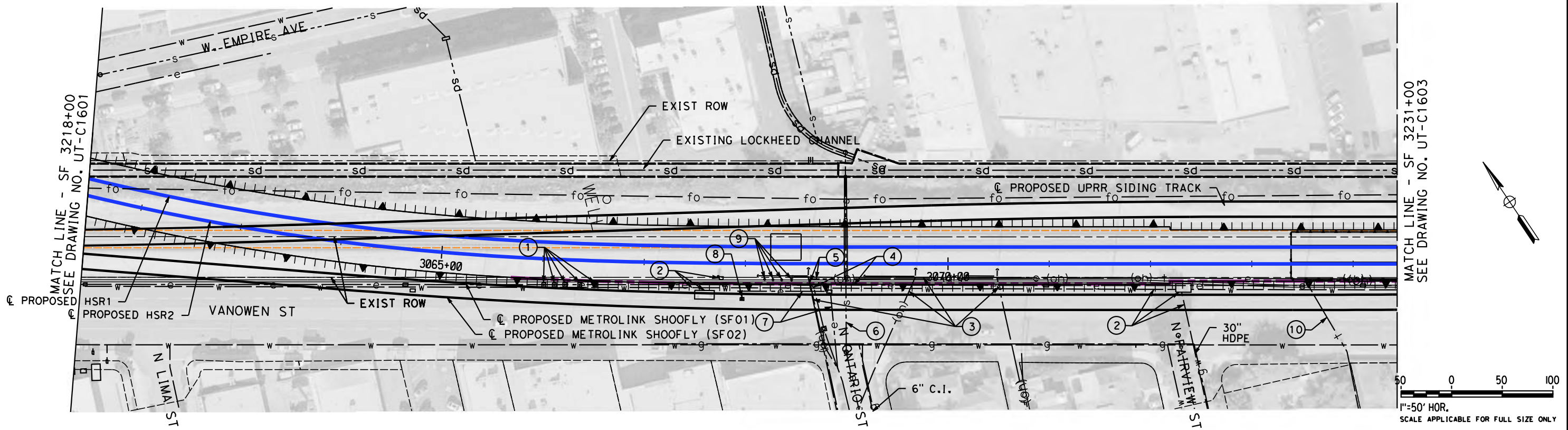
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**  
  
PEPD  
COMPOSITE UTILITIES PLAN  
SF 3211+43.44 TO SF 3218+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-C1601  
SCALE  
AS SHOWN  
SHEET NO.



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	TBD	UNDERGROUND UTILITY, TBD	STA 3066+02 TO 3066+53	TBD	RELOCATE
②	WATER	12", 16", 24", & 30" HDPE WATER LINES	STA 3064+00 TO 3073+00	TBD	RELOCATE
③	ELECTRICAL	OVERHEAD ELECTRICAL LINES	STA 3068+12 TO 3073+00	SCE	RELOCATE
④	ELECTRICAL	UNDERGROUND ELECTRICAL LINE	STA 3067+93 TO 3068+86	CITY OF BURBANK	RELOCATE
⑤	TELEPHONE	OVERHEAD TELEPHONE LINE	STA 3068+62 TO 3073+00	TBD	RELOCATE
⑥	SEWER	12" CIP SEWER LINE	STA 3069+00	CITY OF BURBANK	EXTEND EXISTING CSG. UNDER TEMP. CONST. LIMITS
⑦	ELECTRICAL	UNDERGROUND ELECTRICAL LINES	STA 3067+93 TO 3068+86	CITY OF BURBANK	RELOCATE
⑧	TBD	UNDERGROUND UTILTIY	STA 3067+97	TBD	RELOCATE
⑨	TBD	ANODE STATIONS	STA 3068+20 TO 3068+46	TBD	RELOCATE
⑩	TELEPHONE	OVERHEAD TELEPHONE	STA 3230+26	TBD	RELOCATE

REFER TO PROPOSED UTILITY RELOCATION DWG. NO. UT-D7021 FOR UTILITY INFORMATION AT ROADWAY IMPROVEMENT

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**04/30/2019**

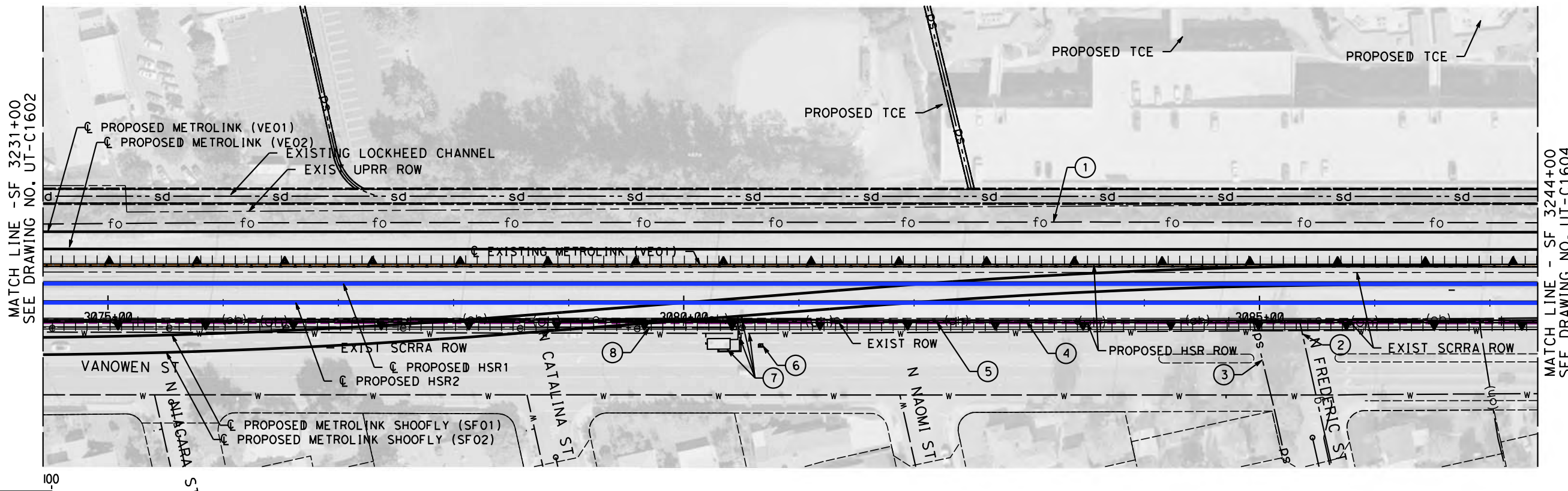
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
  
PEPD  
COMPOSITE UTILITIES PLAN  
SF 3218+00 TO SF 3231+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-C1602  
SCALE  
AS SHOWN  
SHEET NO.





50 0 50 100  
 1"=50' HOR.  
 SCALE APPLICABLE FOR FULL SIZE ONLY

MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	FIBER	UNDERGROUND FIBER	STA 3231+00 TO 3244+00	MCI/SPRINT	RELOCATE
②	GAS	2" GAS LINE	STA 3241+93	SC GAS	RELOCATE OUTSIDE CONST. ZONE
③	STORM DRAIN	CATCH BASIN & X" CULVERT	STA 3241+52	CITY OF BURBANK	RELOCATE OUTSIDE CONST. ZONE
④	ELECTRICAL	OVERHEAD ELECTRICAL LINE	STA 3231+00 TO 3244+00	SCE	RELOCATE
⑤	TELEPHONE	OVERHEAD TELEPHONE LINE	STA 3231+00 TO 3244+00	TBD	RELOCATE
⑥	TBD	UNDERGROUND UTILTIY	STA 3237+27	TBD	RELOCATE
⑦	WATER	20"-24" HDPE WATER LINE	STA 3231+00 TO 3244+00	TBD	RELOCATE
⑧	ELECTRICAL	UNDERGROUND ELECTRICAL LINE	STA 3231+00 TO 3237+00	CITY OF BURBANK	RELOCATE

REFER TO PROPOSED UTILITY RELOCATION DWG. NO. UT-D7022 FOR UTILITY INFORMATION AT ROADWAY IMPROVEMENT

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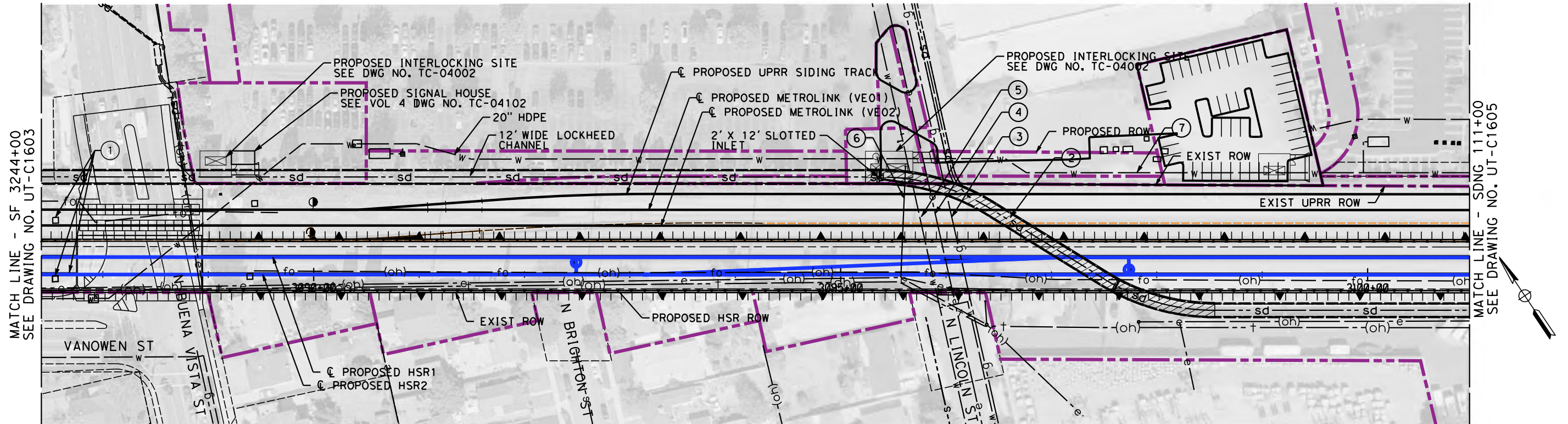
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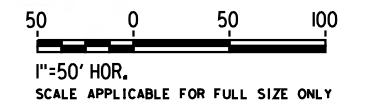
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 BURBANK TO LOS ANGELES**  
  
 PEPD  
 COMPOSITE UTILITIES PLAN  
 SF 3231+00 TO SF 3244+00

CONTRACT NO.  
 HSR14-39  
 DRAWING NO.  
 UT-C1603  
 SCALE  
 AS SHOWN  
 SHEET NO.



MAJOR UTILITY CONFLICTS

	TYPE OF UTILITY	SIZE/MATERIAL	LOCATION	OWNER	DISPOSITION
①	RAIL	RAIL UTILITIES	STA 3244+13 TO 3244+26	TBD	RELOCATE
②	STORM DRAIN	12' WIDE LOCKHEED CHANNEL	STA 105+27 TO 111+00	LACFCD	RELOCATE, SEE SHT. CV-G1305
③	GAS	3" GAS LINE	STA 106+04	SC GAS	EXTEND CSG ACROSS CONST. LIMITS
④	ELECTRICAL	UNDERGROUND ELEC. DUCTS	STA 105+89	SCE	EXTEND CSG ACROSS CONST. LIMITS
⑤	WATER	20" WATER LINE	STA 105+74	CITY OF BURBANK	EXTEND CSG ACROSS CONST. LIMITS
⑥	ELECTRICAL	QUEEN POLE	STA 105+64	SCE	RELOCATE
⑦	WATER	20" HDPE WATER LINE	STA 106+60 TO 111+00	TBD	RELOCATE



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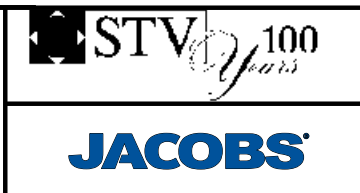
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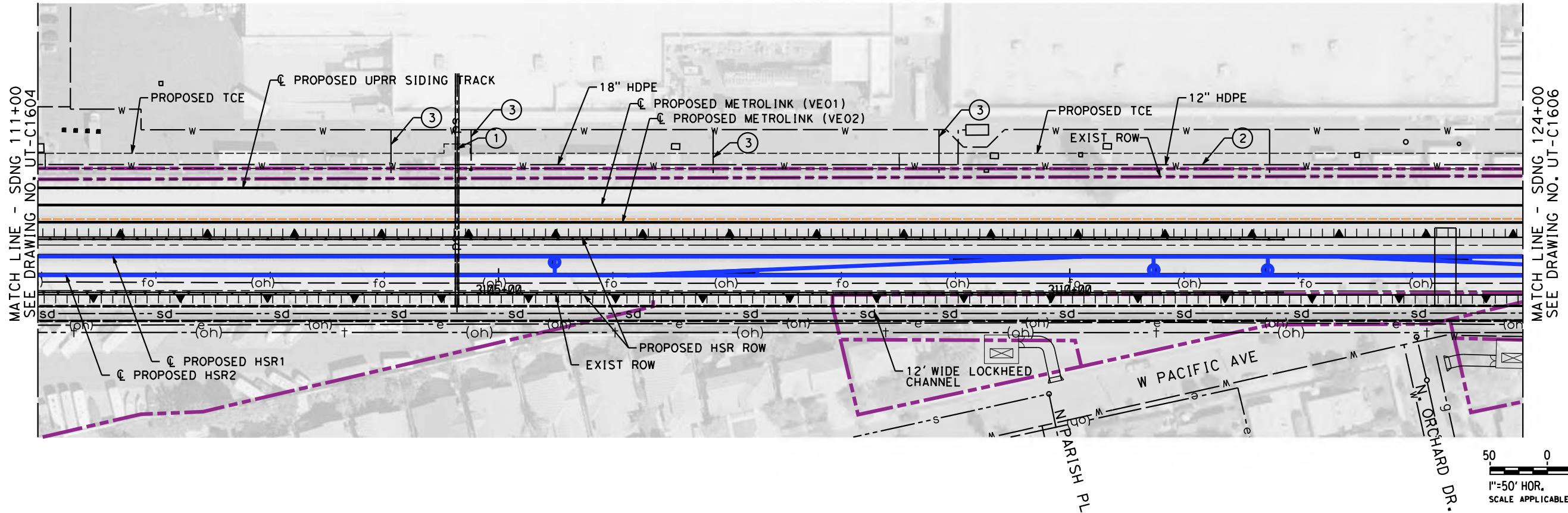


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

PEPD  
COMPOSITE UTILITIES PLAN  
SF 3244+00 TO SDNG 111+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-C1604  
SCALE  
AS SHOWN  
SHEET NO.





MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	STORM DRAIN	36" RCP	STA 114+67	TBD	JOIN REALIGNED CHANNEL
②	WATER	12", 18", & 20" HDPE	STA 111+00 TO 124+00	TBD	RELOCATE
③	WATER - FIRE	WATER LINE FIXTURES	STA 114+09 TO 121+78	TBD	RELOCATE
④					

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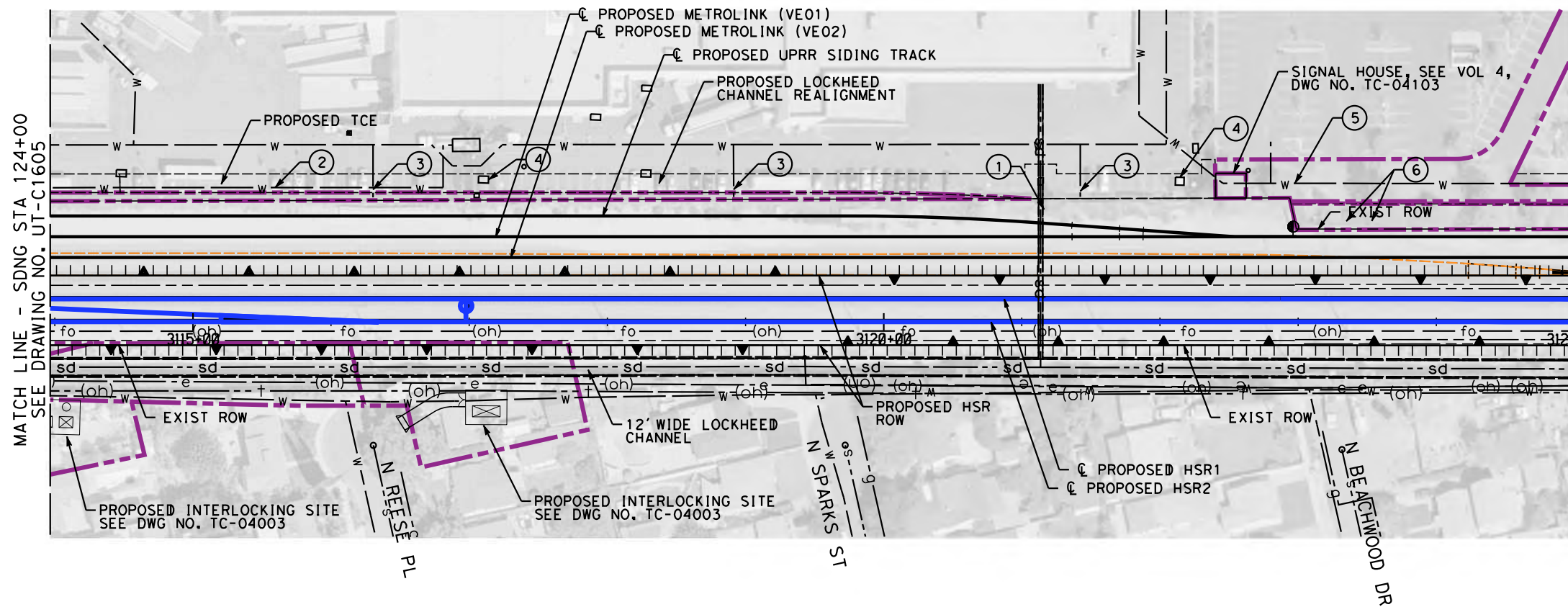
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**  
  
PEPD  
COMPOSITE UTILITIES PLAN  
SDNG 111+00 TO SDNG 124+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-C1605  
SCALE  
AS SHOWN  
SHEET NO.



MAJOR UTILITY CONFLICTS

	TYPE OF UTILITY	SIZE/MATERIAL	LOCATION	OWNER	DISPOSITION
①	STORM DRAIN	36" RCP	STA 131+17	TBD	JOIN REALIGNED CHANNEL
②	WATER	12" HDPE WATER LINE	STA 124+00 TO 126+85	TBD	RELOCATE
③	WATER	WATER LINE FIXTURES	STA 126+34 TO 131+44	TBD	RELOCATE
④	ELECTRICAL	UNDERGROUND ELECTRICAL	STA 127+14 TO 131+15	CITY OF BURBANK	RELOCATE
⑤	WATER	8" DI WATER LINE	STA 132+25 TO 135+00	TBD	RELOCATE
⑥	TBD	UNDERGROUND UTILITY	STA 133+39 TO 133+57	TBD	RELOCATE
⑦					

REFER TO LOCKHEED CHANNEL RELOCATION DWG. NO. CV-G1301 TO CV-G1308 FOR PROPOSED DESIGN. NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY

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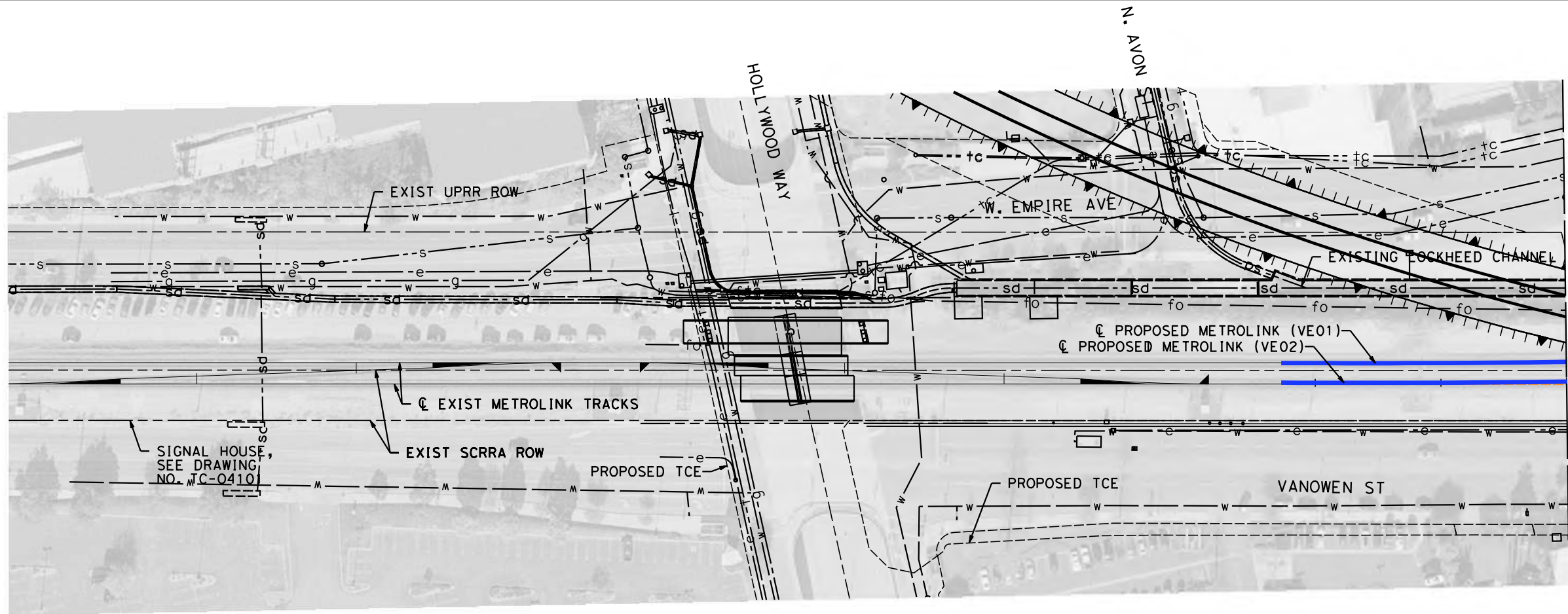
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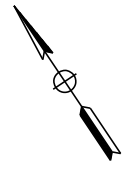
**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
  
PEPD  
PROPOSED UTILITIES RELOCATION PLAN  
SDNG 124+00 TO SDNG 133+02.62

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-C1606  
SCALE  
AS SHOWN  
SHEET NO.





MATCH LINE - VE 3218+00  
SEE DRAWING NO. UT-C1702



50 0 50 100  
1"=50' HOR.  
SCALE APPLICABLE FOR FULL SIZE ONLY

MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION

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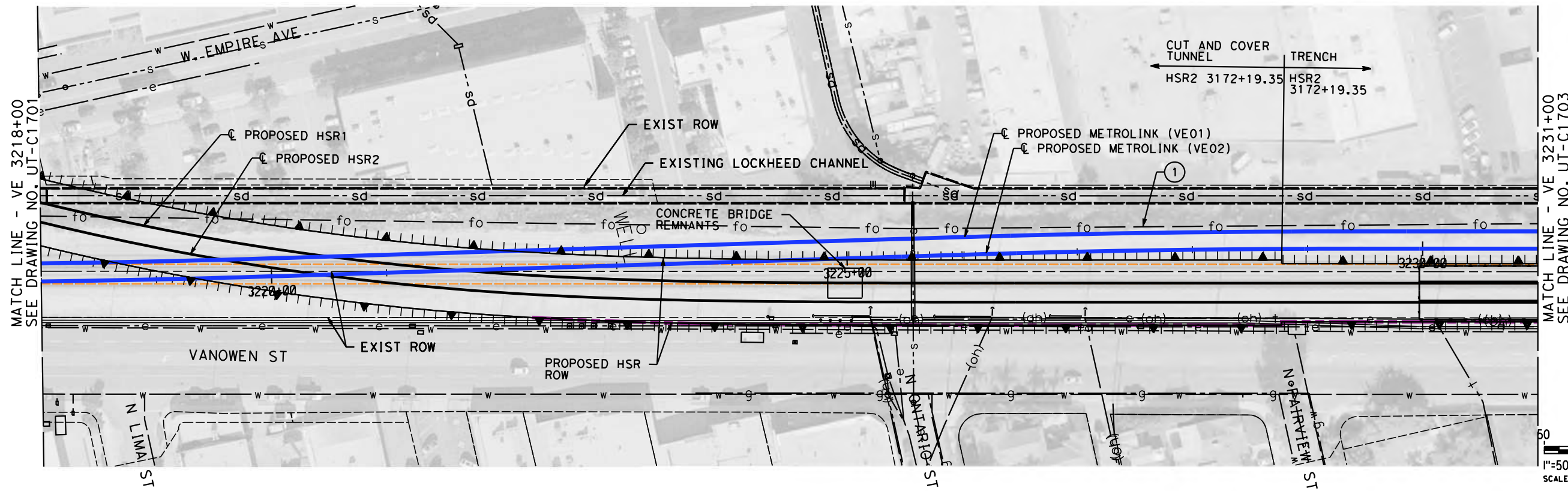
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**  
  
PEPD  
COMPOSITE UTILITIES PLAN  
VE01, VE02 3215+72.96 TO VE01, VE02 3218+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-C1701  
SCALE  
AS SHOWN  
SHEET NO.



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	FIBER	UNDERGROUND FIBER	STA 3218+00 TO 3231+00	MCI/SPRINT	RELOCATE

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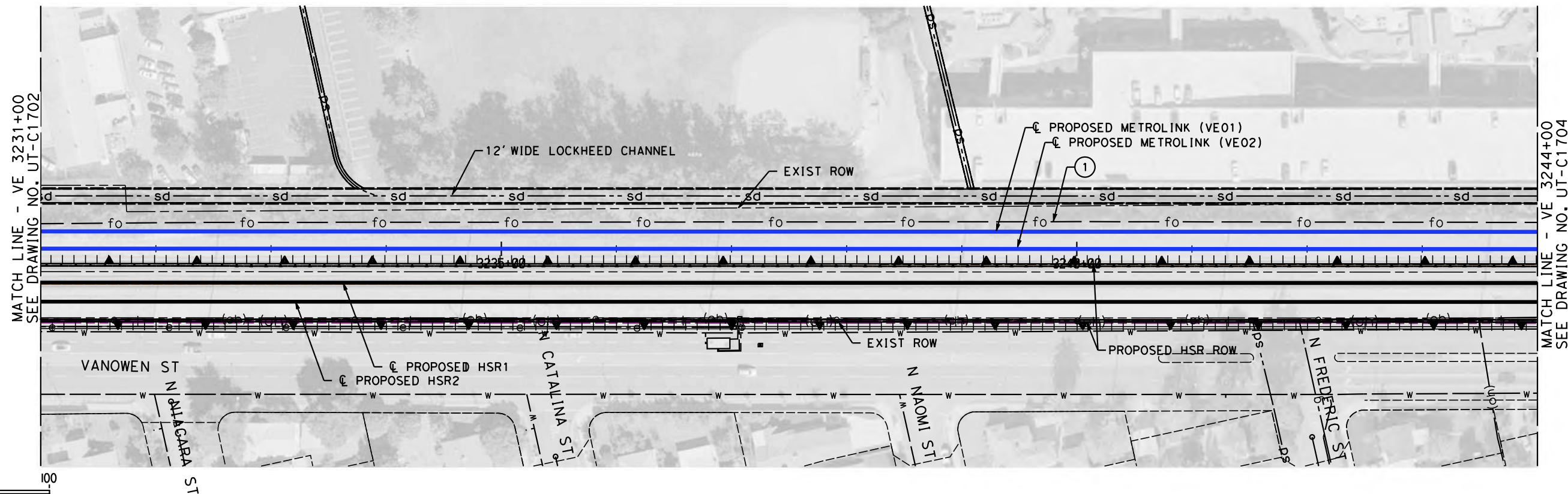
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**  
  
PEPD  
COMPOSITE UTILITIES PLAN  
VE01, VE02 3218+00 TO VE01, VE02 3231+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-C1702  
SCALE  
AS SHOWN  
SHEET NO.





50 0 50 100  
 1"=50' HOR.  
 SCALE APPLICABLE FOR FULL SIZE ONLY

MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / M-TERI-L	LOC-TION	OWNER	DISPOSITION
①	FIBER	UNDERGROUND FIBER	STA 3231+00 TO 3244+00	MCI/SPRINT	RELOC-TE

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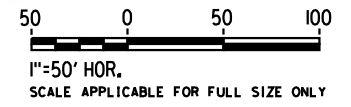
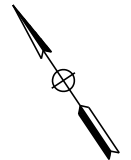
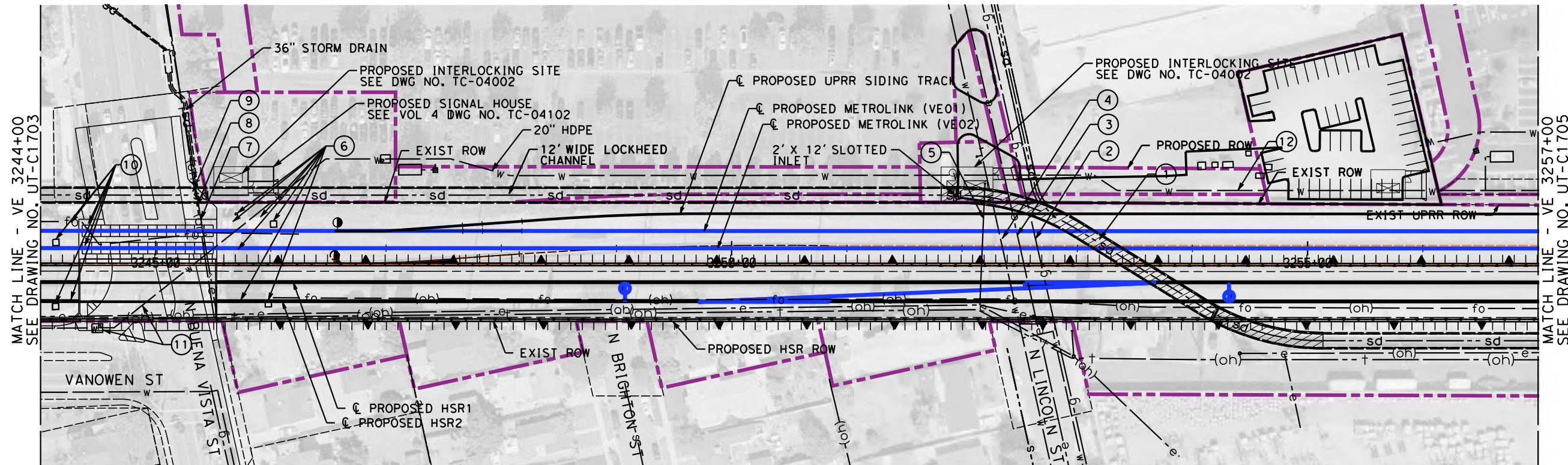
DESIGNED BY  
**J. HIGGINS**  
 DRAWN BY  
**C. CUSSON**  
 CHECKED BY  
**C. ADAMS**  
 IN CHARGE  
**K. PIRBAZARI**  
 DATE  
**04/30/2019**

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**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 BURBANK TO LOS ANGELES**  
  
 PEPD  
 COMPOSITE UTILITIES PLAN  
 VE01, VE02 3231+00 TO VE01, VE02 3244+00

CONTRACT NO.  
 HSR14-39  
 DRAWING NO.  
 UT-C1703  
 SCALE  
 AS SHOWN  
 SHEET NO.



MAJOR UTILITY CONFLICTS

	TYPE OF UTILITY	SIZE/MATERIAL	LOCATION	OWNER	DISPOSITION
①	STORM DRAIN	12' WIDE LOCKHEED CHANNEL	STA 3251+82 TO 3257+00	LACFCD	RELOCATE, SEE SHT. CV-G1305
②	GAS	3" GAS LINE	STA 3252+66	SC GAS	EXTEND CSG ACROSS CONST. LIMITS
③	ELECTRICAL	UNDERGROUND ELEC. DUCTS	STA 3252+51	SCE	EXTEND CSG ACROSS CONST. LIMITS
④	WATER	20" WATER LINE	STA 3252+35	CITY OF BURBANK	EXTEND CSG ACROSS CONST. LIMITS
⑤	ELECTRICAL	QUEEN POLE	STA 3252+18	SCE	RELOCATE
⑥	RAIL	RAIL UTILITIES	STA 3245+58 TO 3246+05	TBD	RELOCATE
⑦	ELECTRICAL	OVERHEAD ELECTRICAL LINE	STA 3245+43	SCE	RELOCATE
⑧	TELEPHONE	OVERHEAD TELEPHONE LINE	STA 3245+42	TBD	RELOCATE
⑨	TELECOMMUNICATION	OVERHEAD CABLE LINE	STA 3245+42	TBD	RELOCATE
⑩	RAIL	RAIL UTILITIES	STA 3244+10 TO 3244+46	TBD	RELOCATE
⑪	WATER	20" STEEL WATER LINE	STA 3245+51	TBD	RELOCATE, ADD CASING
⑫	WATER	20" HDPE WATER LINE	STA 3253+15 TO 3257+00	TBD	RELOCATE

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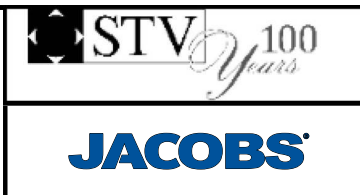
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R. PETERS				
REV	DATE	BY	CHK	APP

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**C. ADAMS**  
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**K. PIRBAZARI**  
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**04/30/2019**

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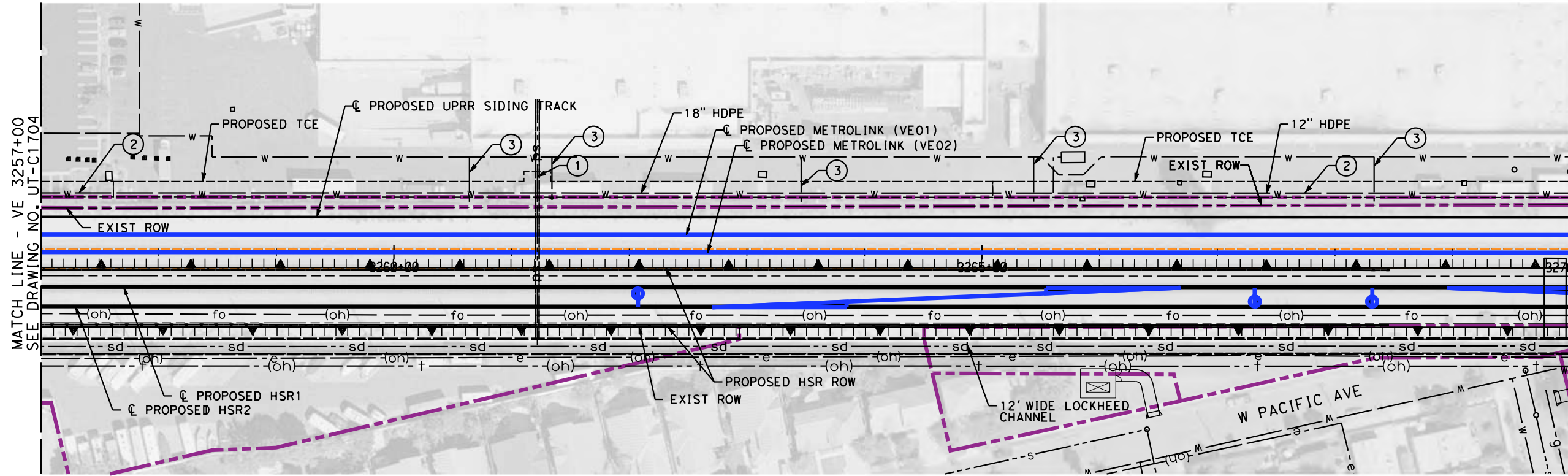


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

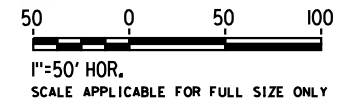
PEPD  
COMPOSITE UTILITIES PLAN  
VE01, VE02 3244+00 TO VE01, VE02 3257+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-C1704  
SCALE  
AS SHOWN  
SHEET NO.





MATCH LINE - VE 3270+00  
SEE DRAWING NO. UT-C1706



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	STORM DRAIN	36" RCP	STA 3261+22	TBD	JOIN REALIGNED CHANNEL
②	WATER	12", 18", & 20" HDPE	STA 3257+00 TO 3270+00	TBD	RELOCATE
③	WATER - FIRE	WATER LINE FIXTURES	STA 3260+64 TO 3268+33	TBD	RELOCATE
④					

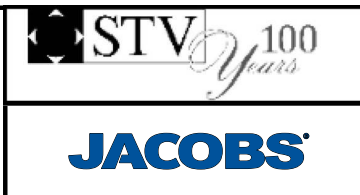
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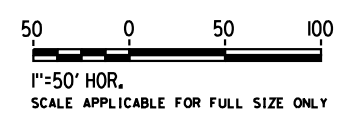
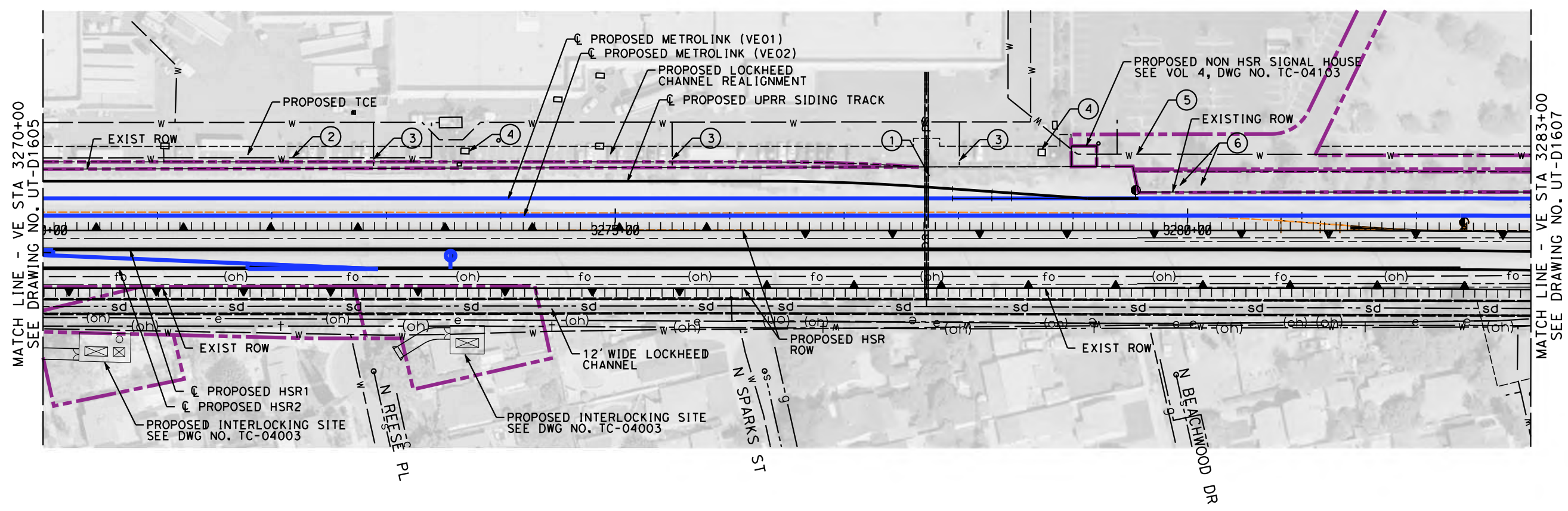
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**J. HIGGINS**  
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**04/30/2019**

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**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**  
  
PEPD  
COMPOSITE UTILITIES PLAN  
VE01, VE02 3257+00 TO VE01, VE02 3270+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-C1705  
SCALE  
AS SHOWN  
SHEET NO.



MAJOR UTILITY CONFLICTS

	TYPE OF UTILITY	SIZE/MATERIAL	LOCATION	OWNER	DISPOSITION
①	STORM DRAIN	36" RCP	STA 3277+72	TBD	JOIN REALIGNED CHANNEL
②	WATER	12" HDPE WATER LINE	STA 3270+00 TO 3273+40	TBD	RELOCATE
③	WATER	WATER LINE FIXTURES	STA 3272+89 TO 3278+01	TBD	RELOCATE
④	ELECTRICAL	UNDERGROUND ELECTRICAL	STA 3273+65 TO 3278+76	CITY OF BURBANK	RELOCATE
⑤	WATER	8" DI WATER LINE	STA 3278+84 TO 3283+00	TBD	RELOCATE
⑥	TBD	UNDERGROUND UTILITY	STA 3279+93 TO 3280+12	TBD	RELOCATE

REFER TO LOCKHEED CHANNEL RELOCATION DWG. NO. CV-G1301 TO CV-G1308 FOR PROPOSED DESIGN. NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY

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**K. PIRBAZARI**  
DATE  
**04/30/2019**

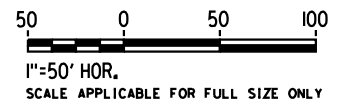
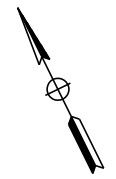
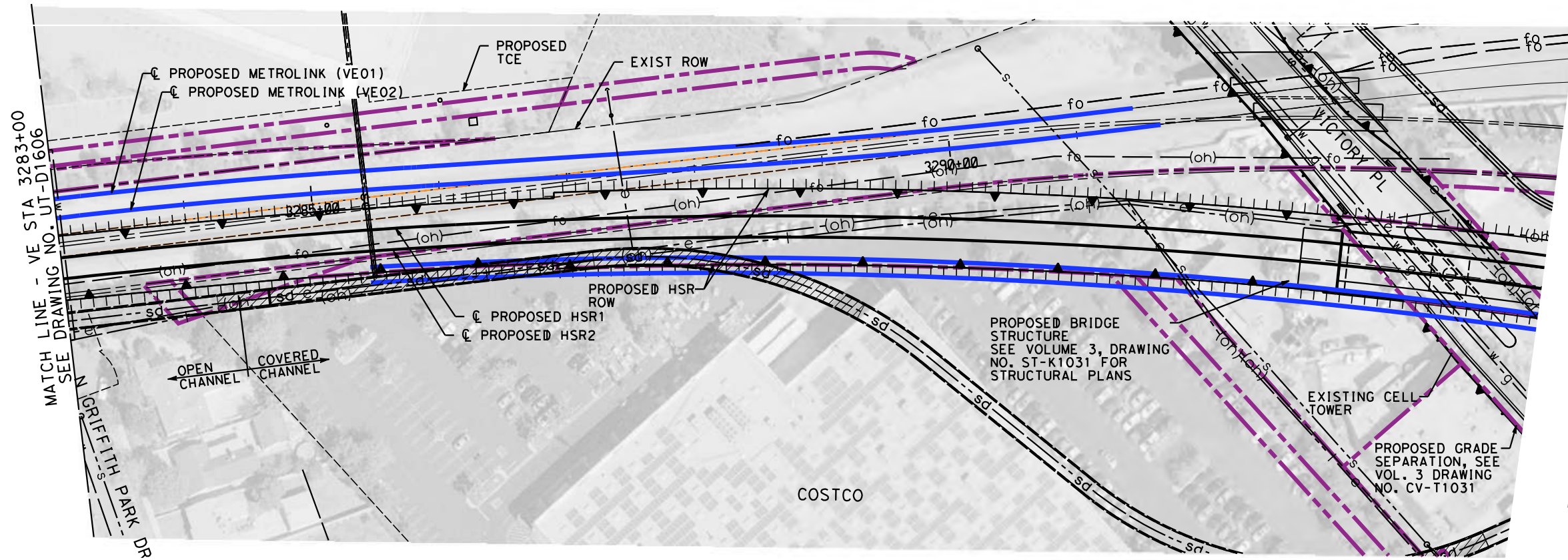
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
  
PEPD  
PROPOSED UTILITIES RELOCATION PLAN  
VE01, VE02 3270+00 TO VE01, VE02 3283+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-C1706  
SCALE  
AS SHOWN  
SHEET NO.





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**C. ADAMS**  
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**K. PIRBAZARI**  
 DATE  
**04/30/2019**

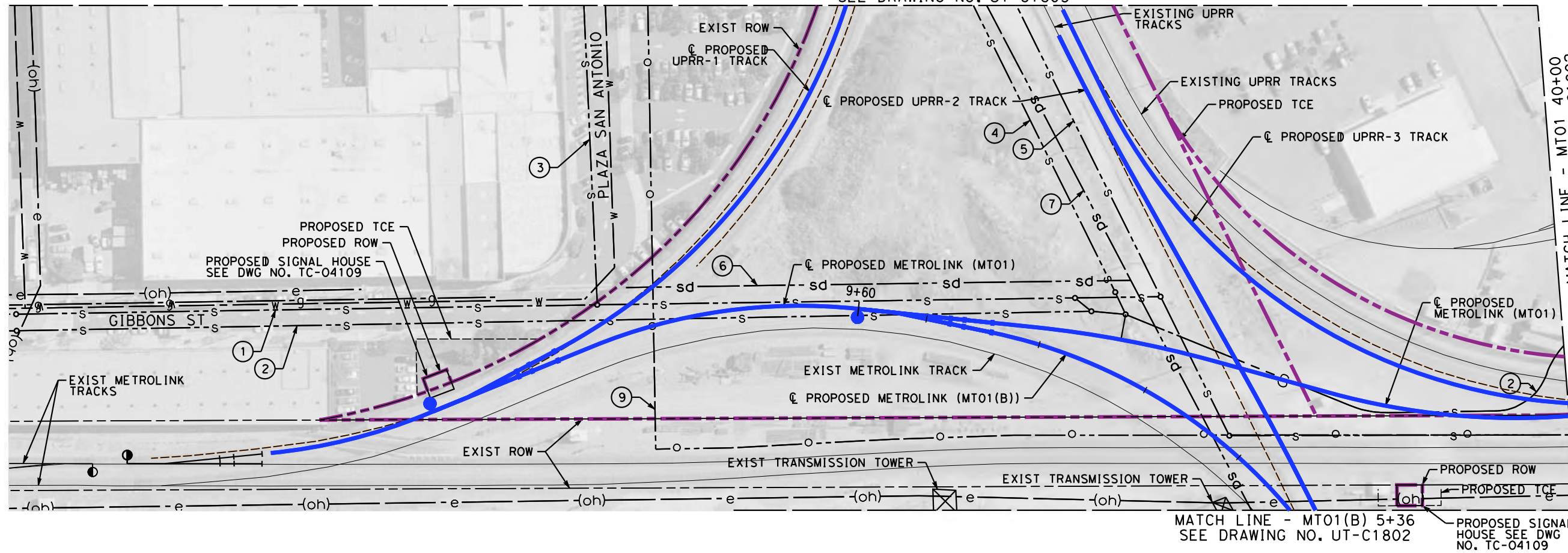
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
  
 PEPD  
 PROPOSED UTILITIES RELOCATION PLAN  
 VE01, VE02 3283+00 TO VE01, VE02 3291+65.95

CONTRACT NO.  
 HSR14-39  
 DRAWING NO.  
 UT-C1707  
 SCALE  
 AS SHOWN  
 SHEET NO.

MATCH LINE - UPRR-1 6+19  
SEE DRAWING NO. UT-C1803



MAJOR UTILITY CONFLICTS

	TYPE OF UTILITY	SIZE/MATERIAL	LOCATION	OWNER	DISPOSITION
①	SEWER	24" VCP	UPRR-1 2+94.41	CITY OF LOS ANGELES	ENCASE
②	SEWER	54" CONCRETE PIPE	UPRR-1 2+70.62	CITY OF LOS ANGELES	ENCASE
③	SEWER	12" VCP	UPRR-1 2+72.02	CITY OF LOS ANGELES	PROTECT-IN-PLACE
④	SEWER	24" VCP	UPRR 43+96.22	CITY OF LOS ANGELES	PROTECT-IN-PLACE
⑤	SEWER	8" VCP (ABAN)	STA N/A	CITY OF LOS ANGELES	PROTECT-IN-PLACE
⑥	STORM DRAIN	27" UNREINFORCED CONCRETE PIPE	UPRR-1 3+18.80	LACFCD	PROTECT-IN-PLACE
⑦	STORM DRAIN	108" RCP	UPRR 43+55.52	CITY OF LOS ANGELES	ENCASE
⑧	OH ELECTRIC	230 kV	MT01(B) 5+46.28	LADWP	PROTECT-IN-PLACE
⑨	OIL	10" OIL LINE	UPRR-1 3+18.80	TBD	EXTEND CASING

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**K. PIRBAZARI**  
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**04/30/2019**

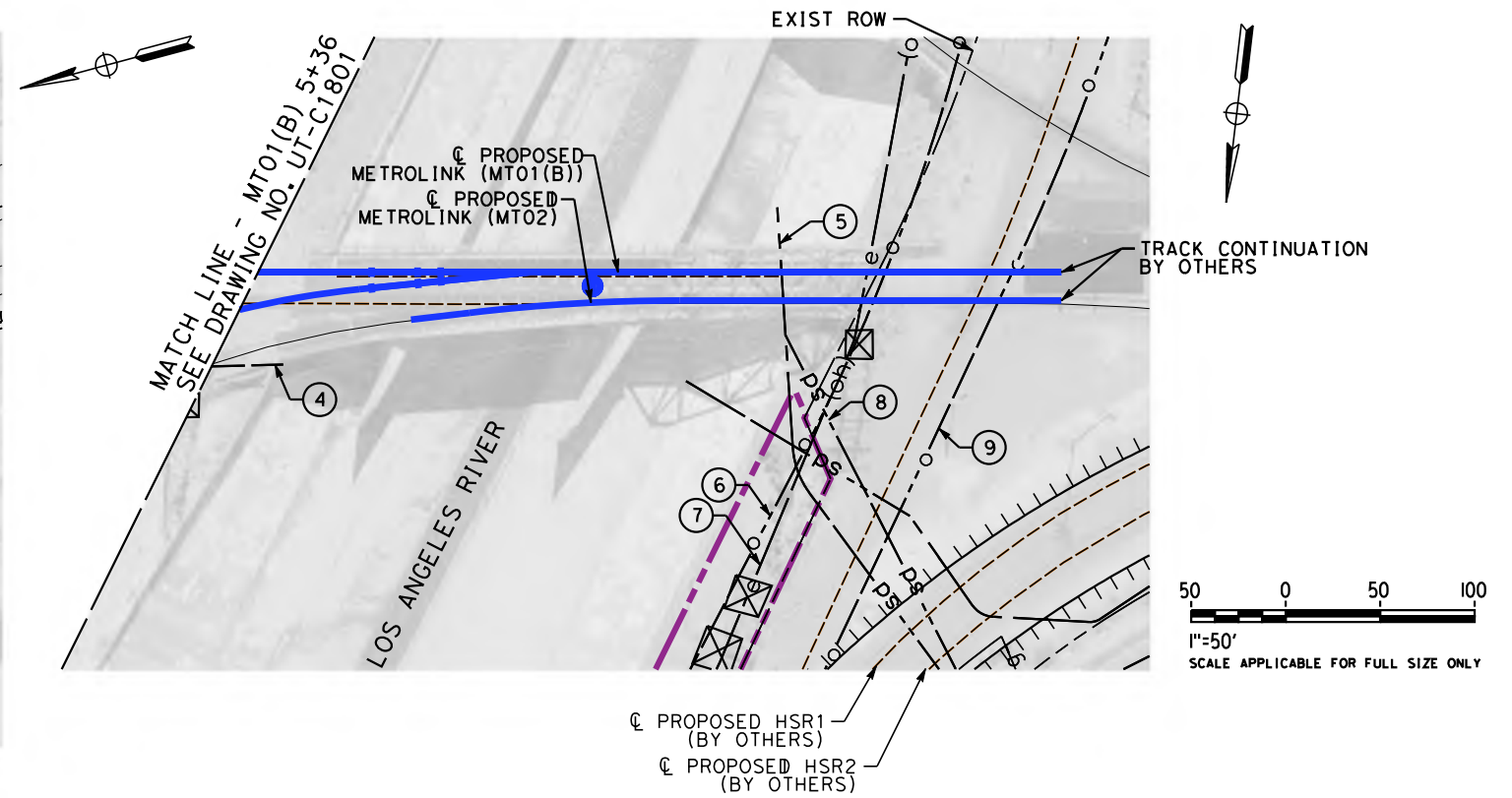
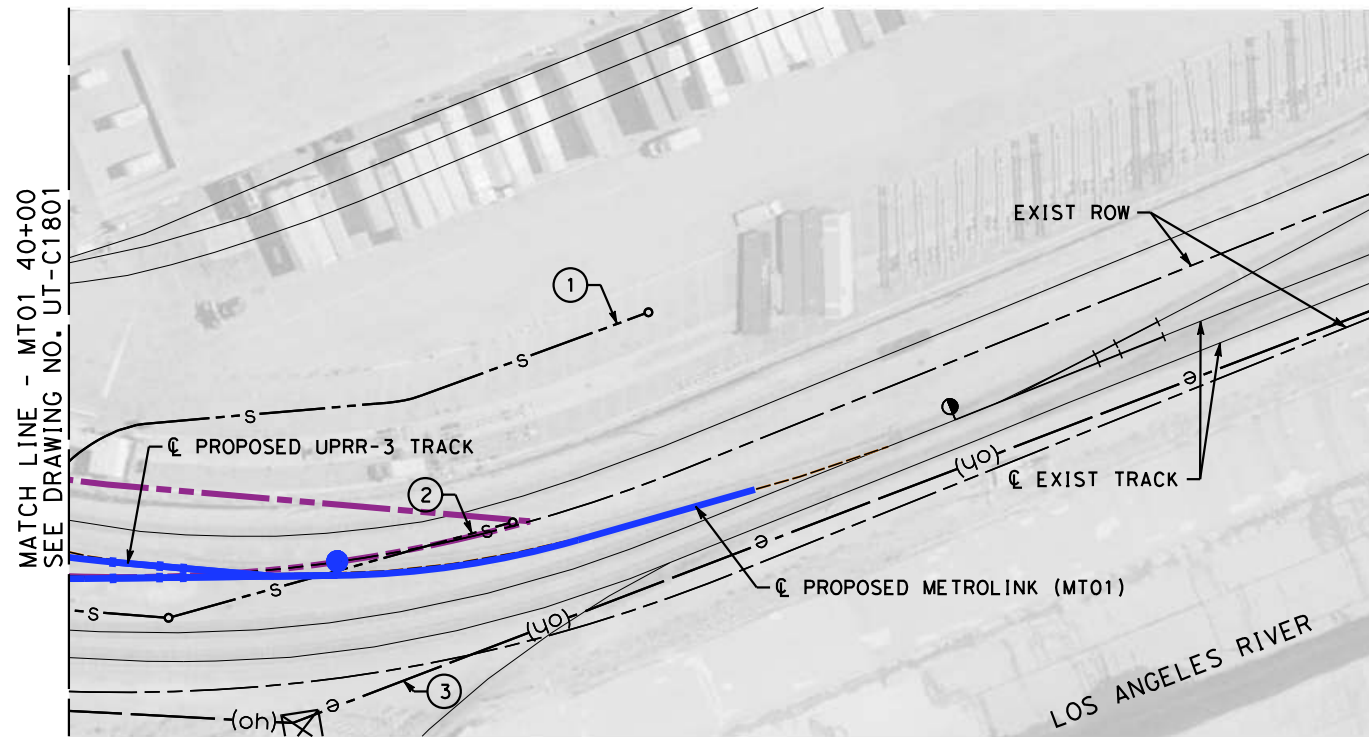
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**  
  
PEPD  
COMPOSITE UTILITIES PLAN  
MT01 52+80 TO MT01 40+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-C1801  
SCALE  
AS SHOWN  
SHEET NO.





MAJOR UTILITY CONFLICTS

	TYPE OF UTILITY	SIZE/MATERIAL	LOCATION	OWNER	DISPOSITION
①	SEWER	54" CONCRETE PIPE	SEE PREVIOUS SHEET	CITY OF LOS ANGELES	PROTECT-IN-PLACE
②	SEWER	24" VCP	MT01 41+31	CITY OF LOS ANGELES	PROTECT-IN-PLACE
③	OH ELECTRIC	230 kV	MT01 42+03	LADWP	PROTECT-IN-PLACE
④	STORM DRAIN	108" RCP	SEE PREVIOUS SHEET	CITY OF LOS ANGELES	PROTECT-IN-PLACE
⑤	STORM DRAIN	96" CHANNEL	MT01(B) 8+24	LACFCD	PROTECT-IN-PLACE
⑥	OIL	8" ABAN CONC SLURRY	MT01(B) 8+79	MOBIL	REMOVE
⑦	OH ELECTRIC	230 kV	MT01(B) 8+69	LADWP	PROTECT-IN-PLACE
⑧	STORM DRAIN	72" RCP	MT01(B) 8+24	CITY OF LOS ANGELES	PROTECT-IN-PLACE
⑨	OIL	8" ABAN CONC SLURRY	MT01(B) 9+46	MOBIL	REMOVE

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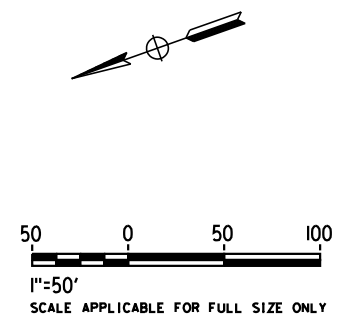
DESIGNED BY  
**J. HIGGINS**  
DRAWN BY  
**C. CUSSON**  
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**C. ADAMS**  
IN CHARGE  
**K. PIRBAZARI**  
DATE  
**04/30/2019**

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CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**  
  
PEPD  
COMPOSITE UTILITIES PLAN  
MT01 40+00 TO MT01 35+27

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-C1802  
SCALE  
AS SHOWN  
SHEET NO.



MATCH LINE UPRR-1 6+19  
SEE DRAWING NO. UT-C1801

MAJOR UTILITY CONFLICTS

	TYPE OF UTILITY	SIZE/MATERIAL	LOCATION	OWNER	DISPOSITION
①	SEWER	24" VCP	UPRR-1 8+71	CITY OF LOS ANGELES	PROTECT-IN-PLACE
②	STORM DRAIN	42" RCP	UPRR-1 8+51	LACFCD	PROTECT-IN-PLACE
③	SEWER	10" VCP ABANDONED	UPRR-1 8+37	CITY OF LOS ANGELES	REMOVE
④	SEWER	8" VCP ABANDONED	UPRR-1 7+14	CITY OF LOS ANGELES	REMOVE
⑤	STORM DRAIN	TBD	UPRR-1 6+83	CITY OF LOS ANGELES	PROTECT-IN-PLACE
⑥	SEWER	8" VCP ABANDONED	SEE PLAN	CITY OF LOS ANGELES	REMOVE
⑦	STORM DRAIN	108" RCP ABANDONED	UPRR-1 8+18	CITY OF LOS ANGELES	REMOVE
⑧	SEWER	10" VCP	UPRR-1 7+93	CITY OF LOS ANGELES	PROTECT-IN-PLACE

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**J. HIGGINS**  
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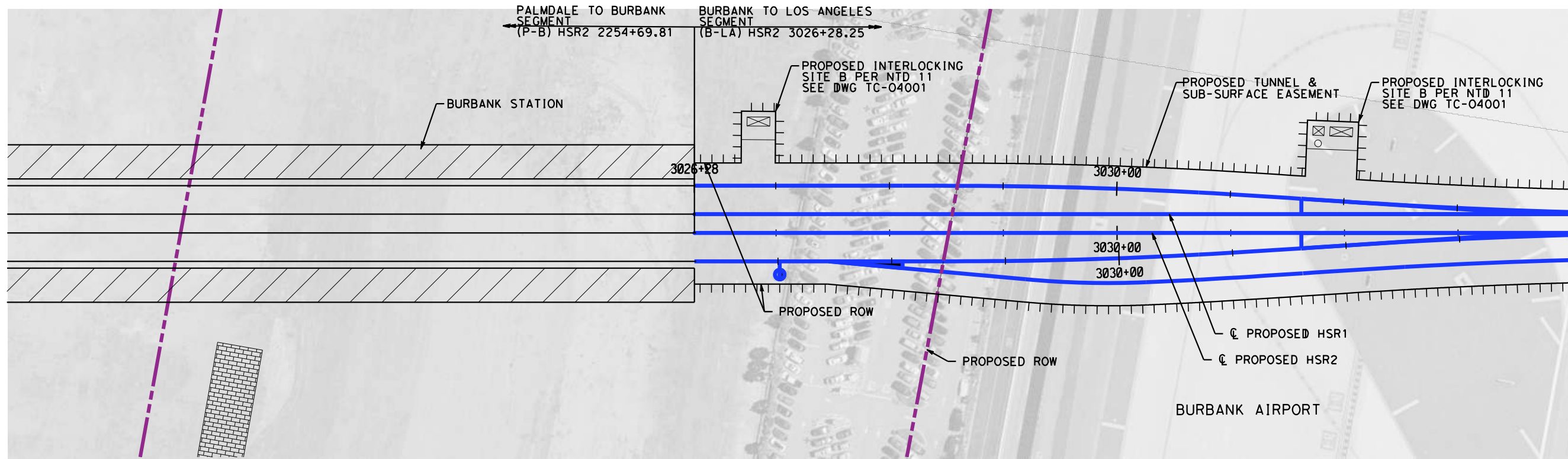
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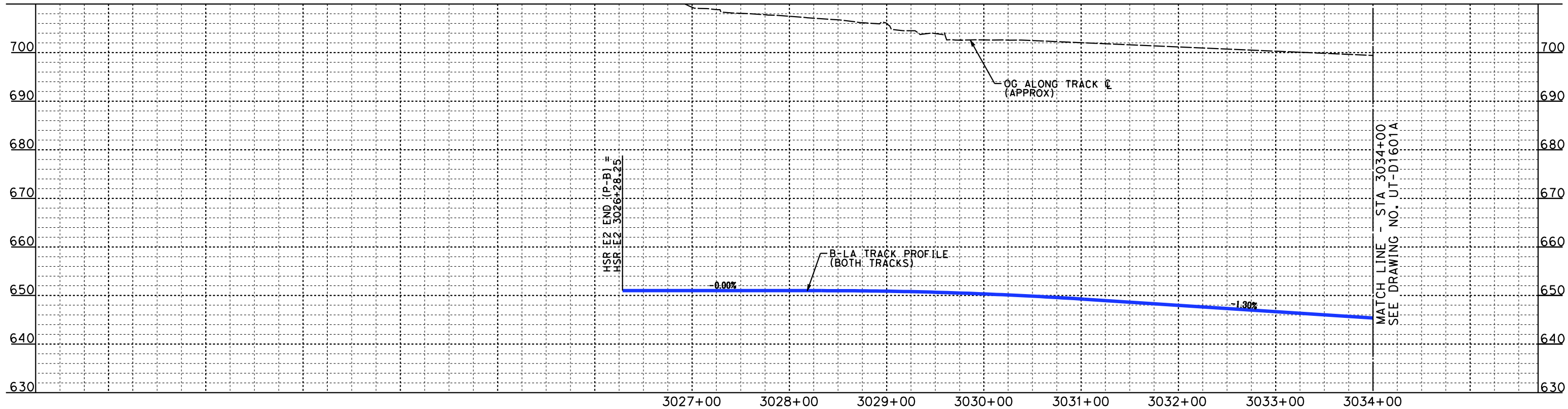
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**  
  
PEPD  
COMPOSITE UTILITIES PLAN  
UPRR 1 TRACK

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-C1803  
SCALE  
AS SHOWN  
SHEET NO.





**PLAN**



**PROFILE**

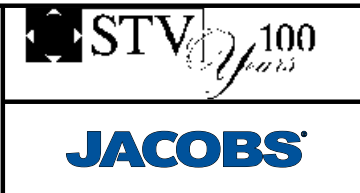
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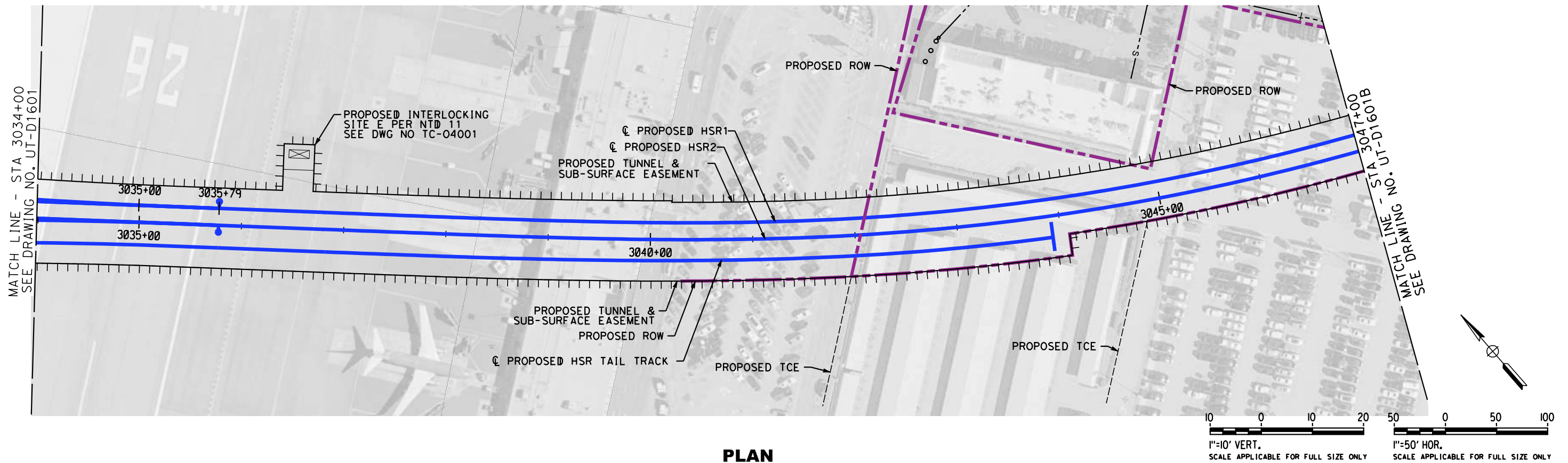
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**R. PETERS**  
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**C. CUSSON**  
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**C. ADAMS**  
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**04/30/2019**

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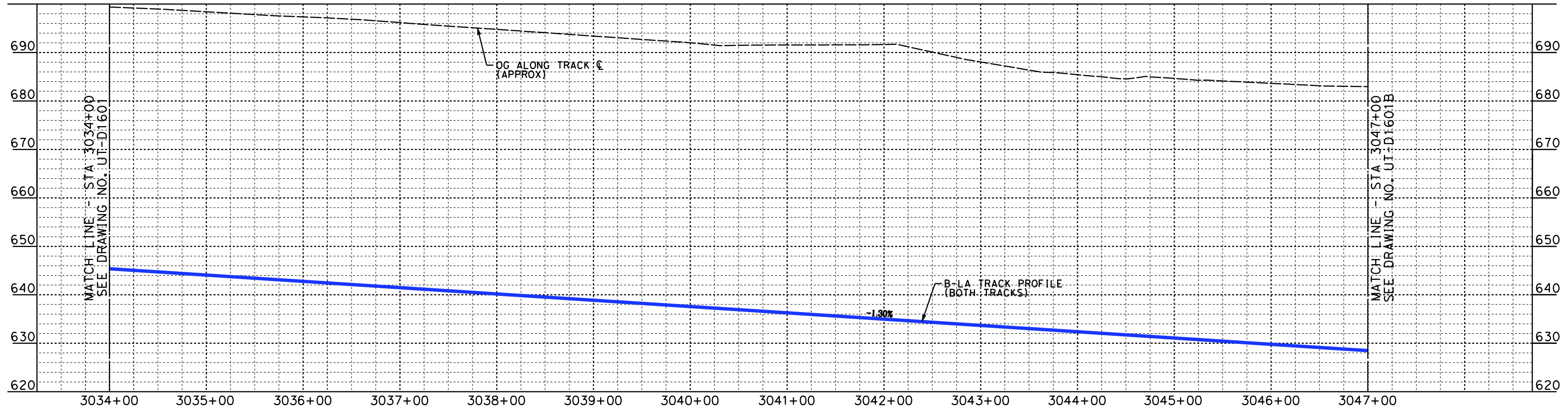


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**  
  
PEPD  
PROPOSED UTILITIES RELOCATION PLAN  
HSR2 3026+28.25 TO HSR2 3034+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-D1601  
SCALE  
AS SHOWN  
SHEET NO.



**PLAN**



**PROFILE**

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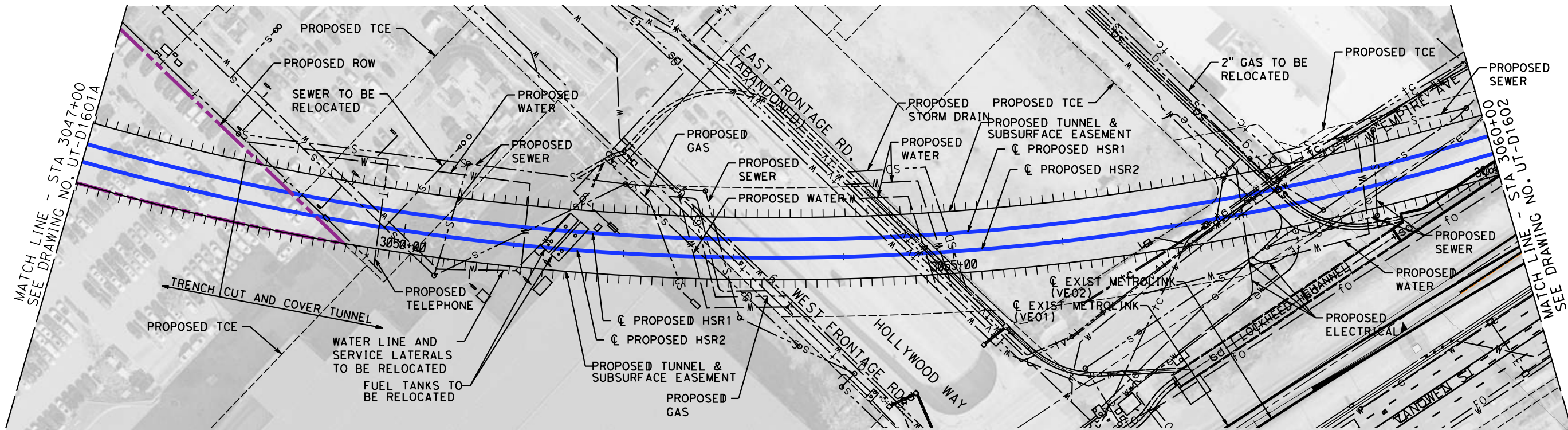


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

PEPD  
PROPOSED UTILITIES RELOCATION PLAN  
HSR2 3034+00 TO HSR2 3047+00

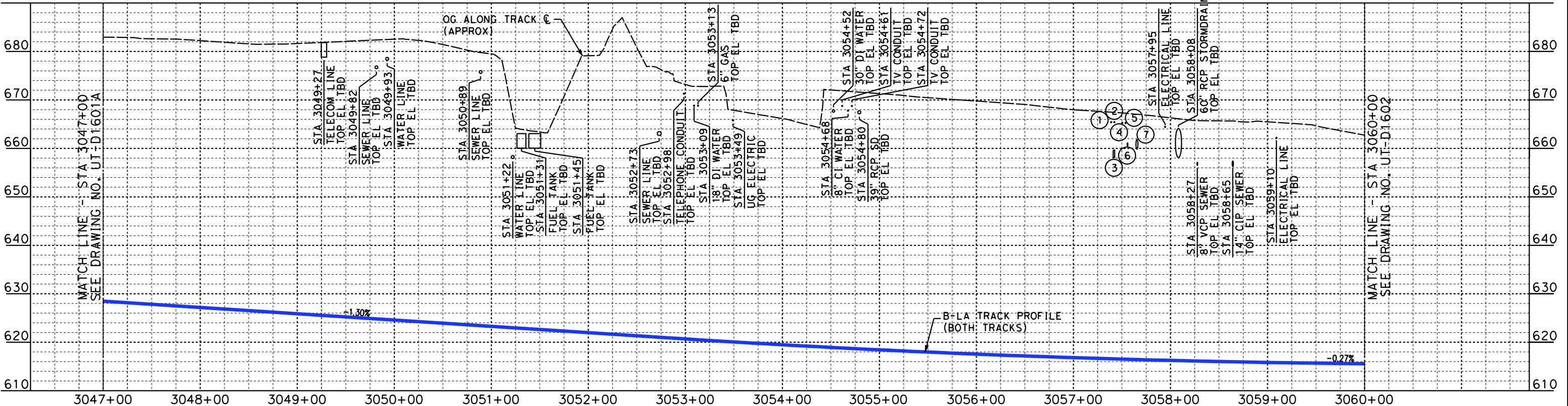
CONTRACT NO.  
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DRAWING NO.  
UT-D1601A  
SCALE  
AS SHOWN  
SHEET NO.





1. 3057+39 TELECOM LINE TOP EL TBD
2. 3057+42 TELECOM LINE TOP EL TBD
3. 3057+42 STORM DRAIN LATERAL TOP EL TBD
4. 3057+50 CABLE TV LINE TOP EL TBD
5. 3057+54 CABLE TV LINE TOP EL TBD
6. 3057+56 4" WATER SERVICE TOP EL TBD
7. 3057+65 24" CI WATER LINE TOP EL TBD

**PLAN**



**PROFILE**

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**K. PIRBAZARI**

DATE  
**04/30/2019**

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**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

PEPD  
PROPOSED UTILITIES RELOCATION PLAN  
HSR2 3047+00 TO HSR2 3060+00

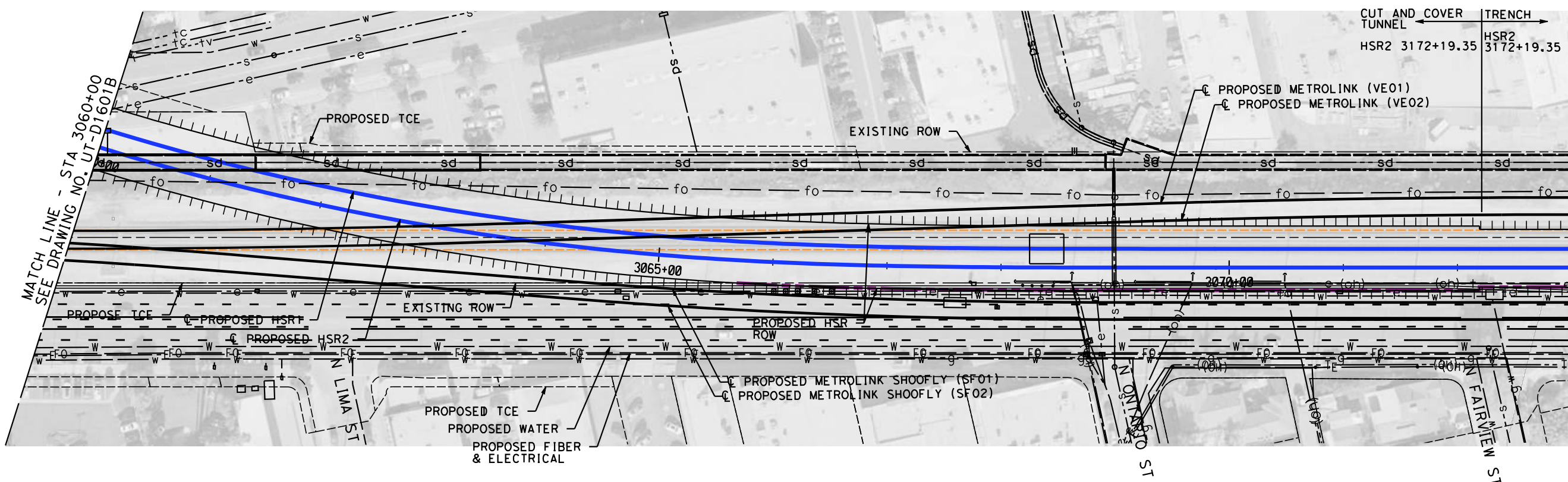
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DRAWING NO.  
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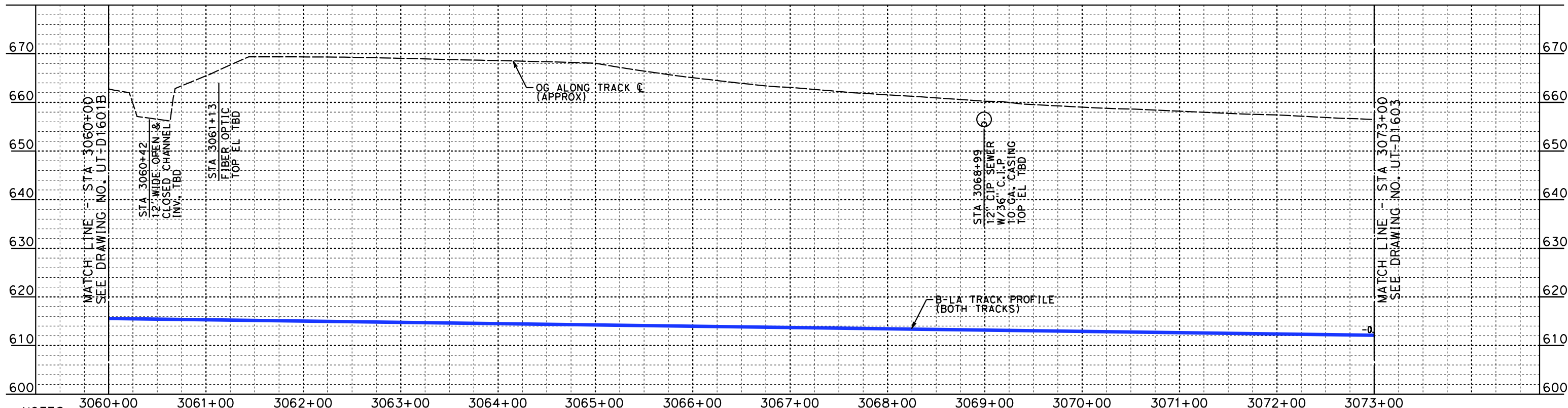
SCALE  
AS SHOWN

SHEET NO.





**PLAN**



**PROFILE**

NOTES:  
1. RELOCATE LOCKHEED CHANNEL WITH NEW TIE-INS. SEE CV-G1305.

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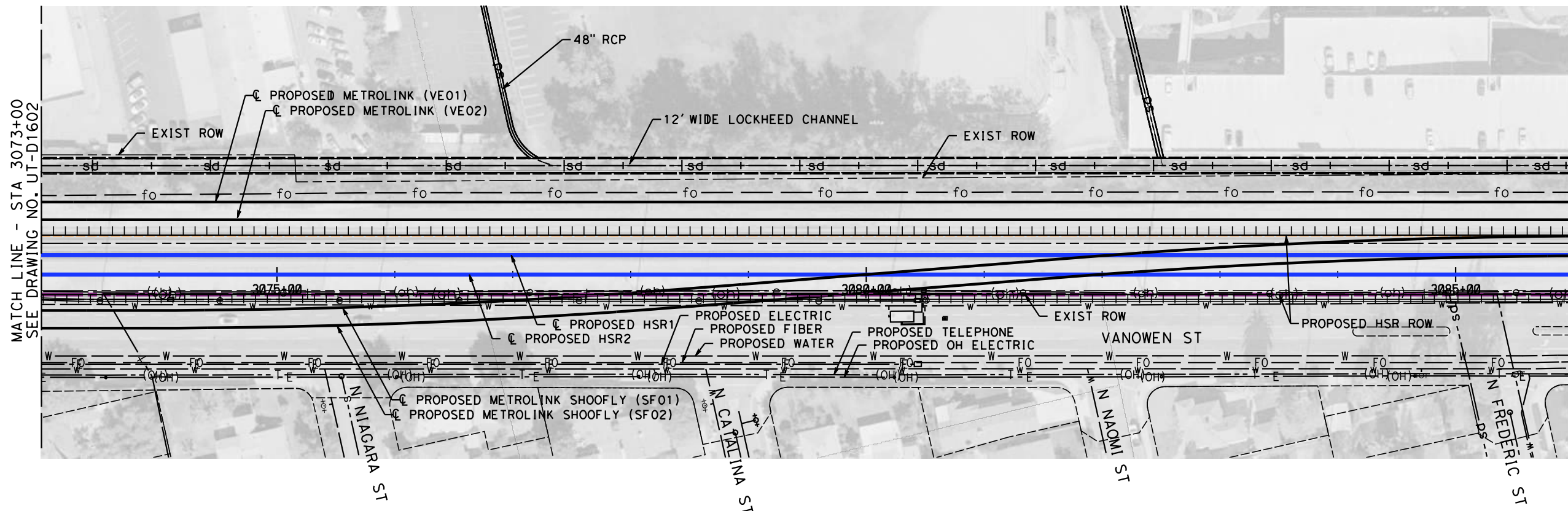
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**NOT FOR  
CONSTRUCTION**



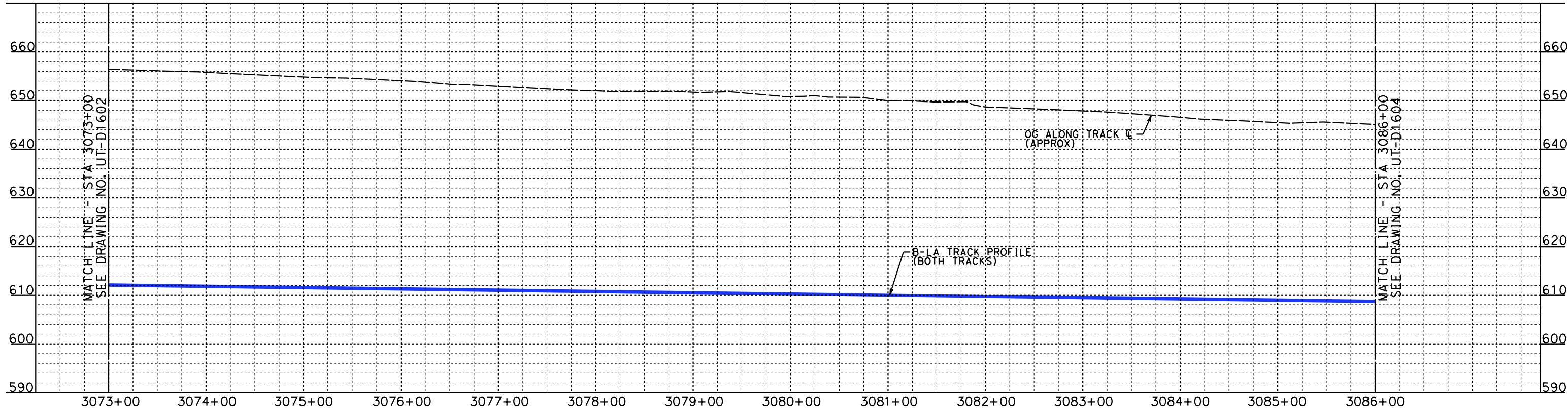
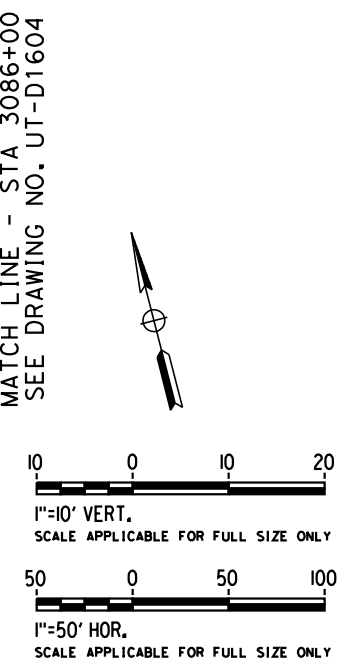
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**  
  
PEPD  
PROPOSED UTILITIES RELOCATION PLAN  
HSR2 3060+00 TO HSR2 3073+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-D1602  
SCALE  
AS SHOWN  
SHEET NO.





**PLAN**



**PROFILE**

NOT FOR CONSTRUCTION  
FOR INTERNAL USE ONLY

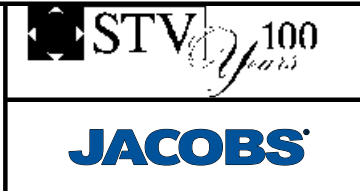
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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. PETERS**  
DRAWN BY  
**C. CUSSON**  
CHECKED BY  
**C. ADAMS**  
IN CHARGE  
**K. PIRBAZARI**  
DATE  
**04/30/2019**

**PEPD  
RECORD SET**

**NOT FOR  
CONSTRUCTION**

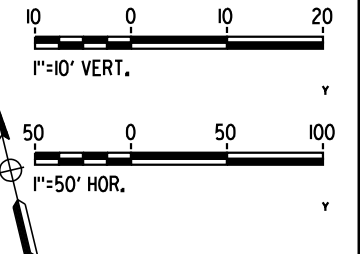
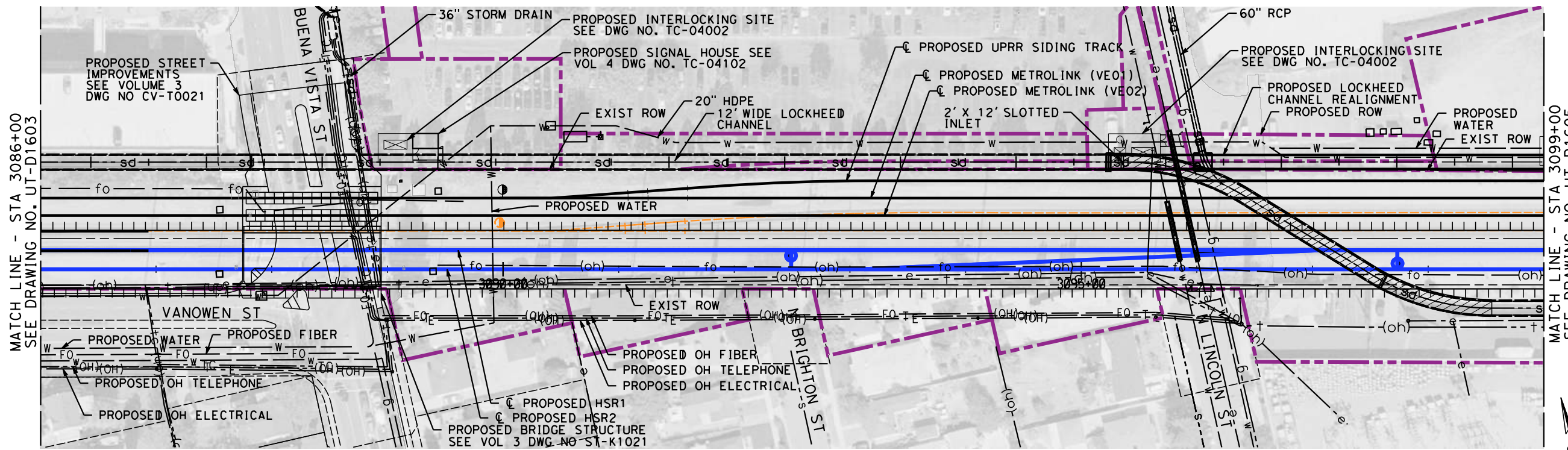


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

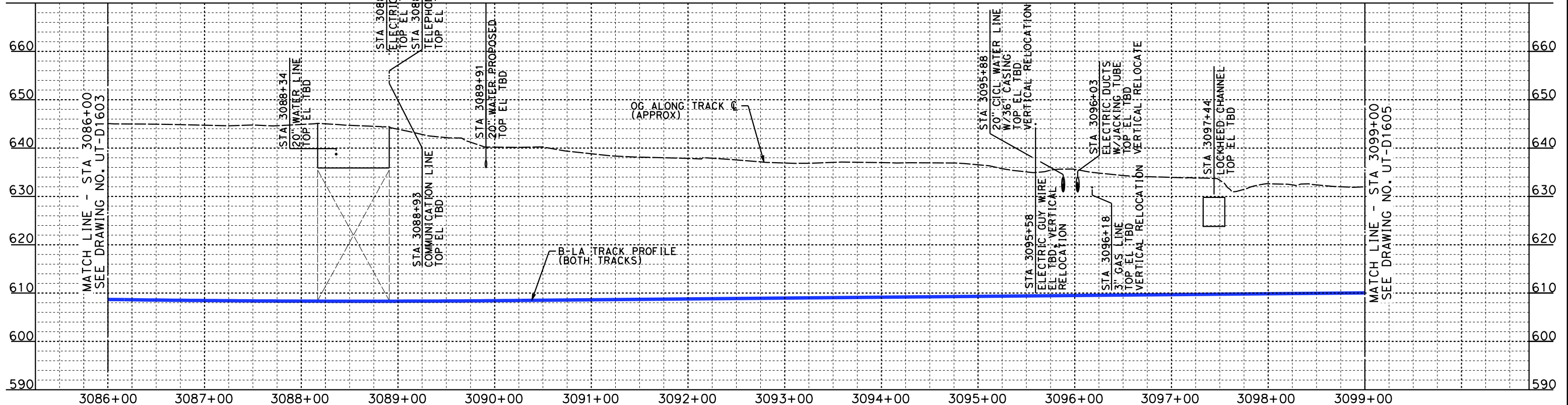
PEPD  
PROPOSED UTILITIES RELOCATION PLAN  
HSR2 3073+00 TO HSR2 3086+00

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

4/30/2019 11:42:14 AM c:\jip\pwworkdir\haynesma\d0135596\k2l-ut-d1604.dgn haynesma



**PLAN**



**PROFILE**

REFER TO PROPOSED UTILITY RELOCATION DWG. NO. UT-D7023 FOR UTILITY INFORMATION AT ROADWAY IMPROVEMENT

REFER TO LOCKHEED CHANNEL RELOCATION DWG. NO. CV-G1301 TO CV-G1308 FOR PROPOSED DESIGN NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. PETERS**  
DRAWN BY  
**C. CUSSON**  
CHECKED BY  
**C. ADAMS**  
IN CHARGE  
**K. PIRBAZARI**  
DATE  
**04/30/2019**

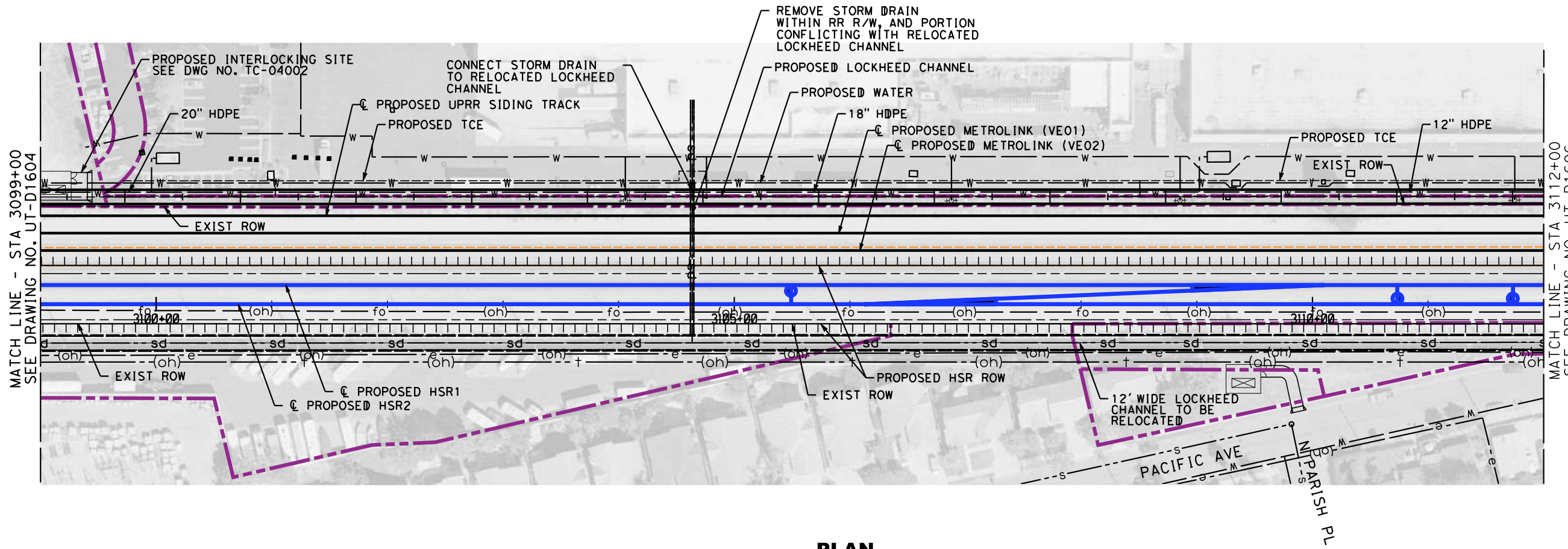
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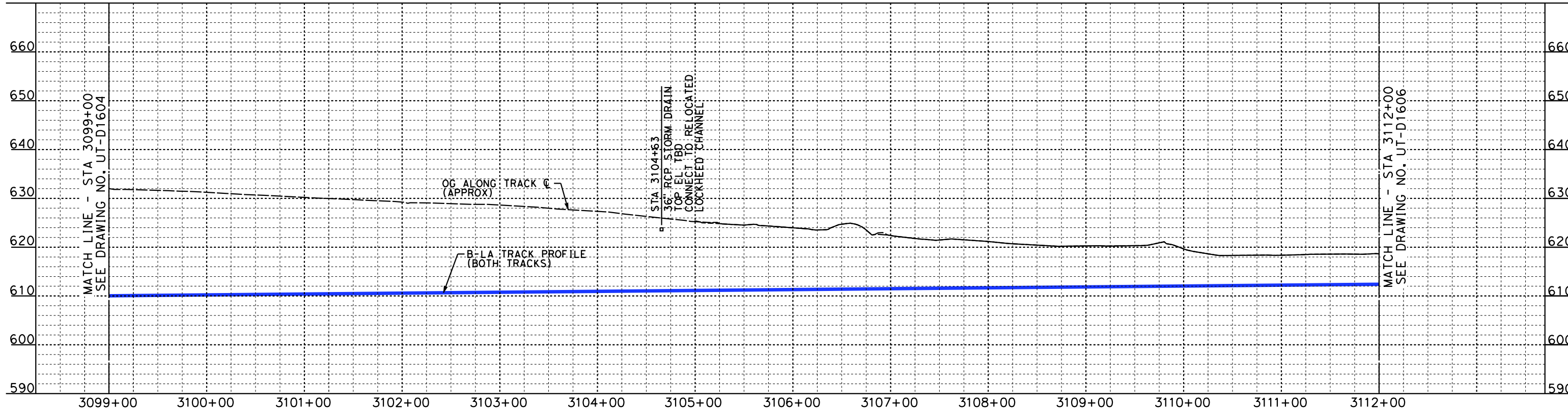
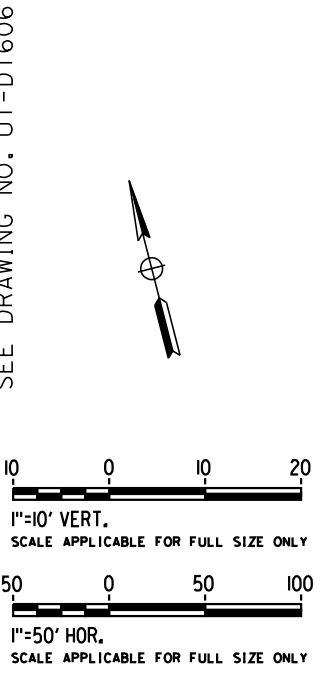
**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
  
PEPD  
PROPOSED UTILITIES RELOCATION PLAN  
HSR2 3086+00 TO HSR2 3099+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-D1604  
SCALE  
AS SHOWN  
SHEET NO.





**PLAN**



**PROFILE**

REFER TO LOCKHEED CHANNEL RELOCATION DWG. NO. CV-G1301 TO CV-G1308 FOR PROPOSED DESIGN. NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY

4/30/2019 11:43:02 AM c:\jip\pwworkdir\haynesma\d0135596\k2l-ut-d1605.dgn haynesma

REV	DATE	BY	CHK	APP	DESCRIPTION

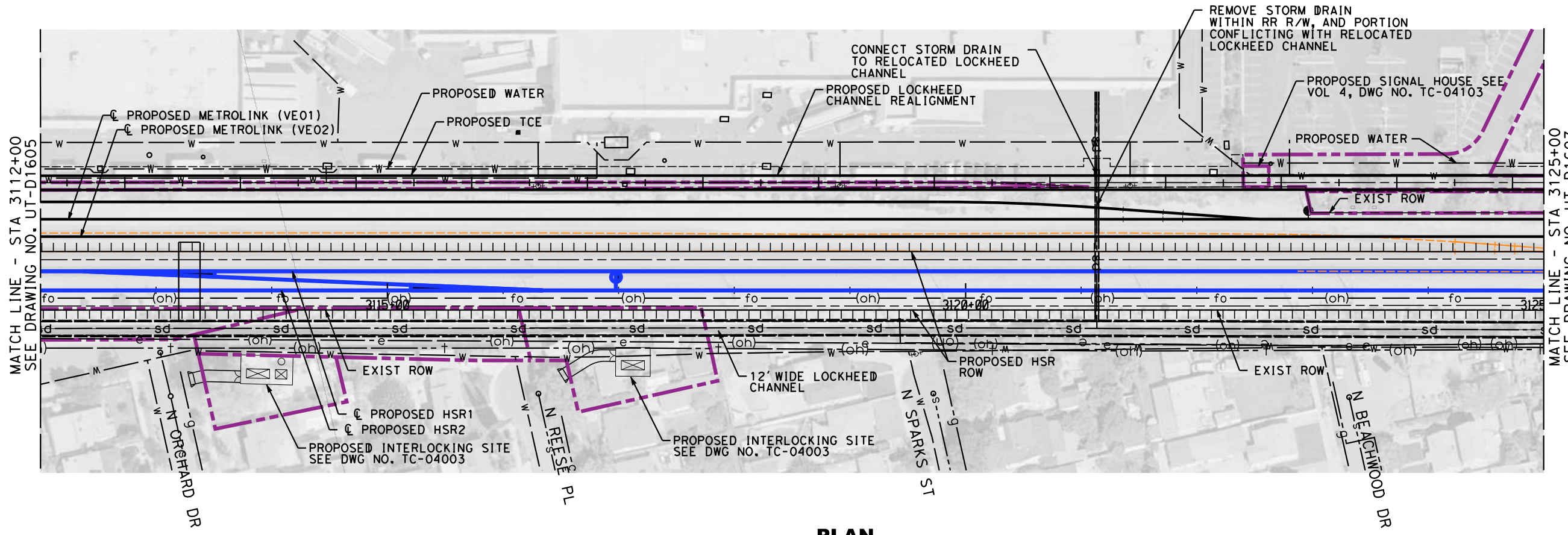
DESIGNED BY  
**J. HIGGINS**  
DRAWN BY  
**C. CUSSON**  
CHECKED BY  
**C. ADAMS**  
IN CHARGE  
**K. PIRBAZARI**  
DATE  
**04/30/2019**

**PEPD RECORD SET**  
  
**NOT FOR CONSTRUCTION**

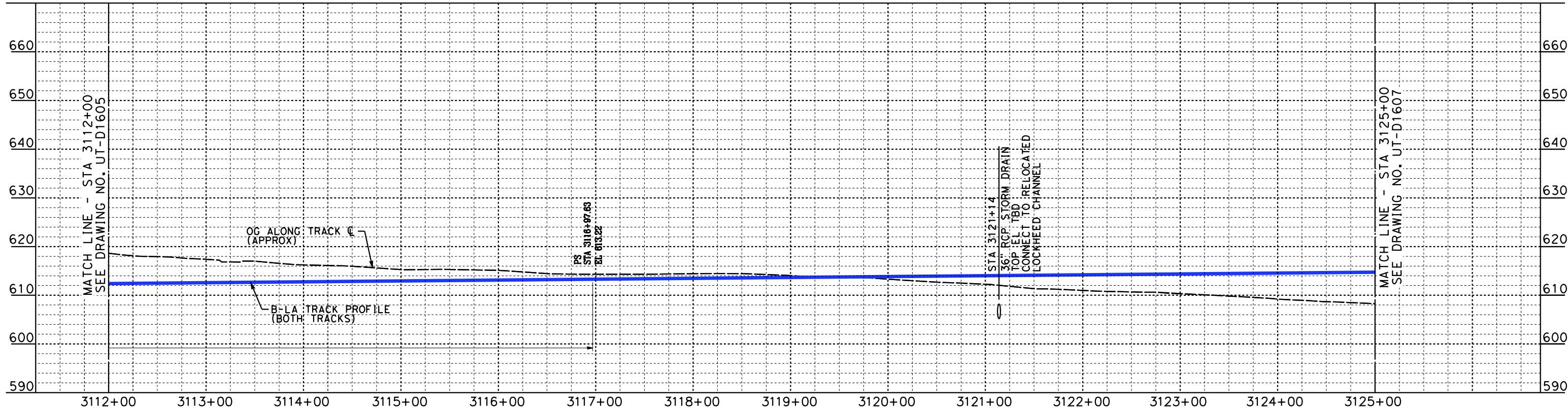


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
  
PEPD  
PROPOSED UTILITIES RELOCATION PLAN  
HSR2 3099+00 TO HSR2 3112+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-D1605  
SCALE  
AS SHOWN  
SHEET NO.



**PLAN**



**PROFILE**

REFER TO LOCKHEED CHANNEL RELOCATION DWG. NO. CV-G1301 TO CV-G1308 FOR PROPOSED DESIGN. NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. HIGGINS**  
DRAWN BY  
**C. CUSSON**  
CHECKED BY  
**C. ADAMS**  
IN CHARGE  
**K. PIRBAZARI**  
DATE  
**04/30/2019**

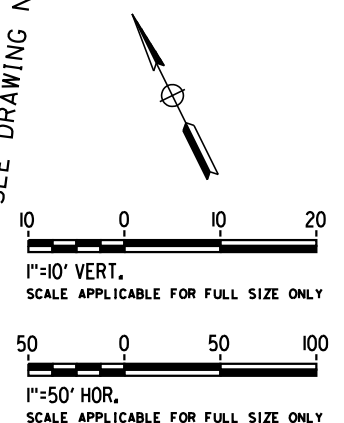
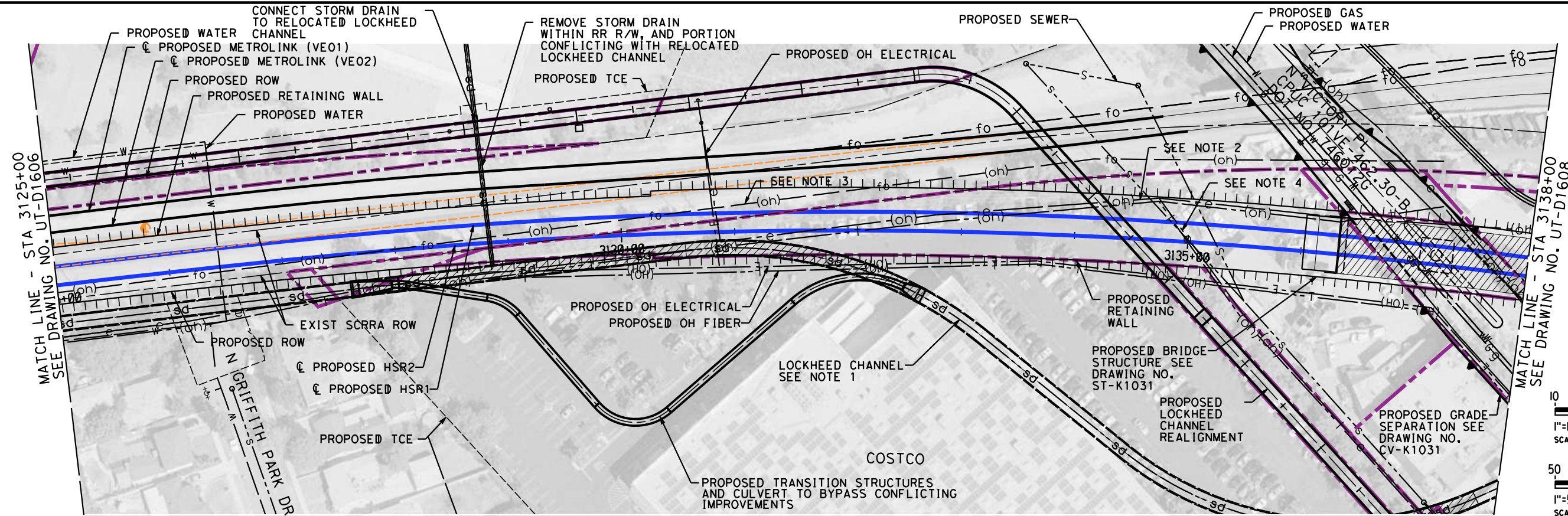
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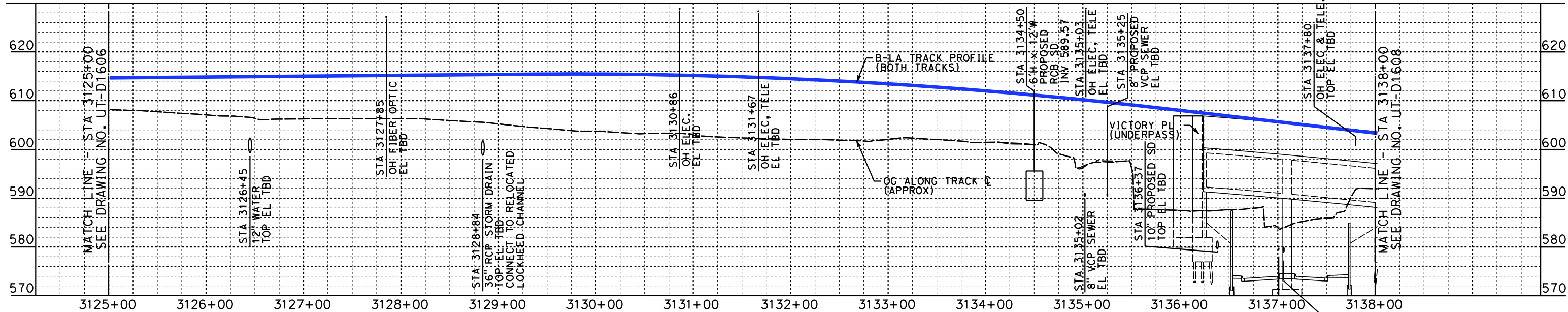
**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
  
PEPD  
PROPOSED UTILITIES RELOCATION PLAN  
HSR2 3112+00 TO HSR2 3125+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-D1606  
SCALE  
AS SHOWN  
SHEET NO.





**PLAN**



- NOTES:**
1. RELOCATE LOCKHEED CHANNEL WITH NEW TIE-INS. SEE SHEETS CV-1301 TO CV-1308.
  2. RELOCATE POWER/TELEPHONE LINE OUTSIDE ROW.
  3. RELOCATE FIBER LINE OUTSIDE ROW.
  4. RELOCATE PHONE LINE OUTSIDE ROW.

**PROFILE**

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. HIGGINS**  
DRAWN BY  
**C. CUSSON**  
CHECKED BY  
**C. ADAMS**  
IN CHARGE  
**K. PIRBAZARI**  
DATE  
**04/30/2019**

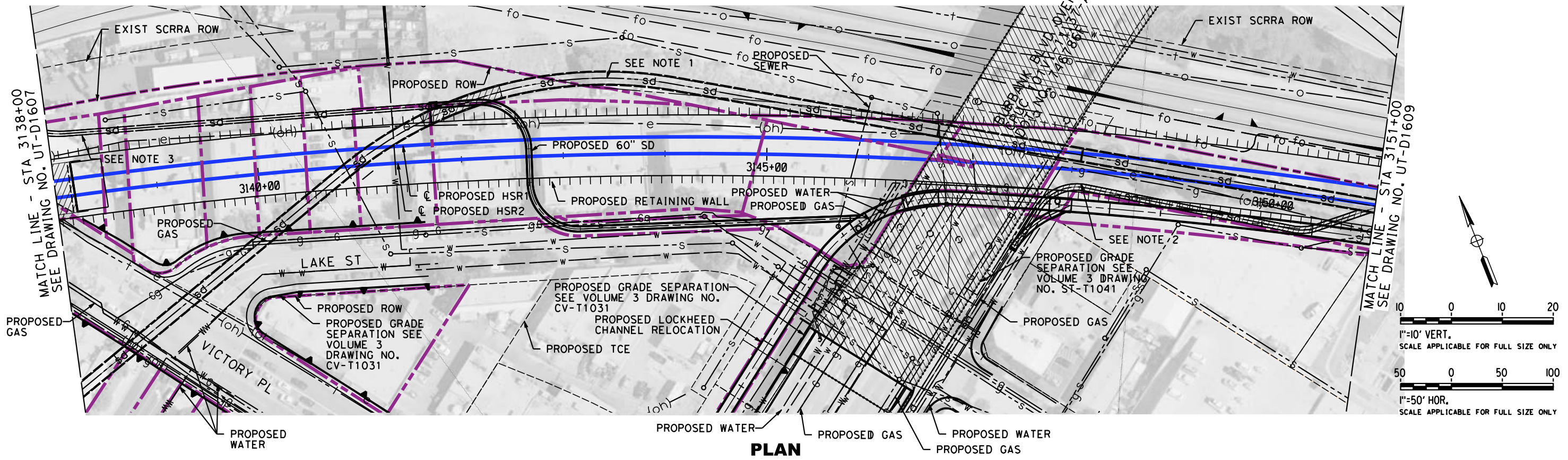
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CONSTRUCTION**



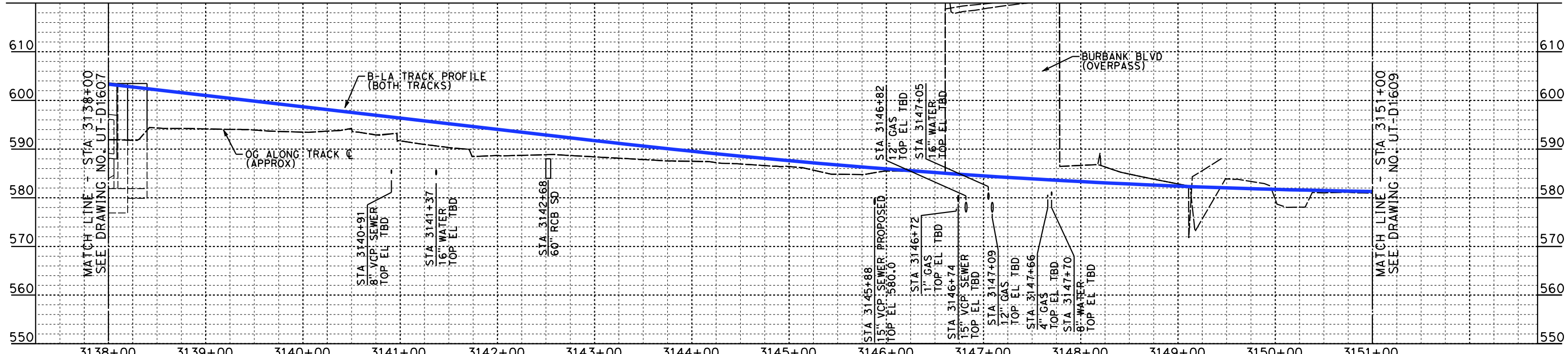
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**  
  
PEPD  
PROPOSED UTILITIES RELOCATION PLAN  
HSR2 3125+00 TO HSR2 3138+00

CONTRACT NO. HSR14-39
DRAWING NO. UT-D1607
SCALE AS SHOWN
SHEET NO.





**PLAN**



**PROFILE**

- NOTES:**
1. RELOCTED LOCKHEED CHANNEL WITH NEW TIE-INS. SEE SHEETS CV-1301 TO CV-1307.
  2. RELOCTED 72" STORM DRAIN WITH NEW TIE-INS.
  3. RELOCTED 48" STORM DRAIN WITH NEW TIE-INS.

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4/30/2019 11:45:34 AM c:\j\p\pwworkdir\haynesma\d0135596\k2l-ut-d1608.dgn haynesma

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**R. PETERS**

DRAWN BY  
**C. CUSSON**

CHECKED BY  
**C. ADAMS**

IN CHARGE  
**K. PIRBAZARI**

DATE  
**04/30/2019**

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RECORD SET**

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CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

PEPD  
PROPOSED UTILITIES RELOCATION PLAN  
HSR2 3138+00 TO HSR2 3151+00

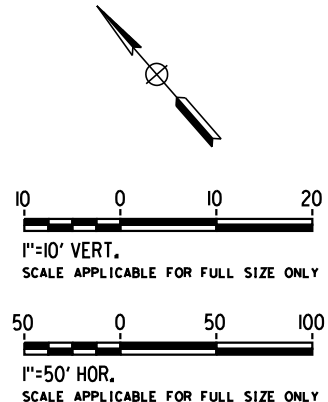
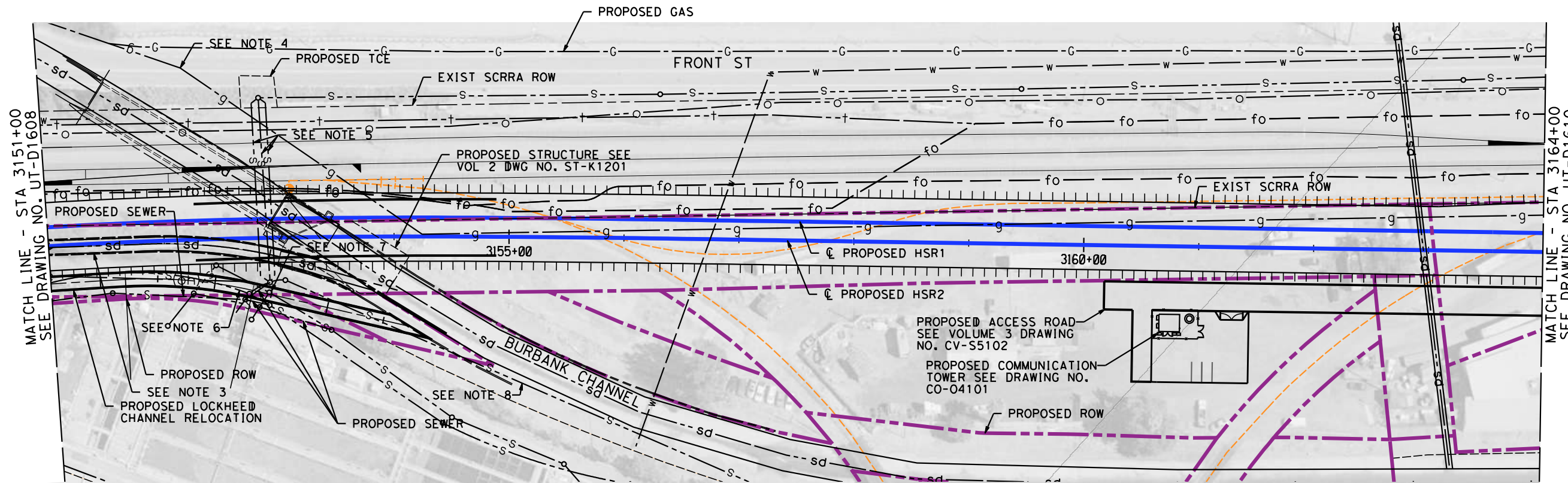
CONTRACT NO.  
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DRAWING NO.  
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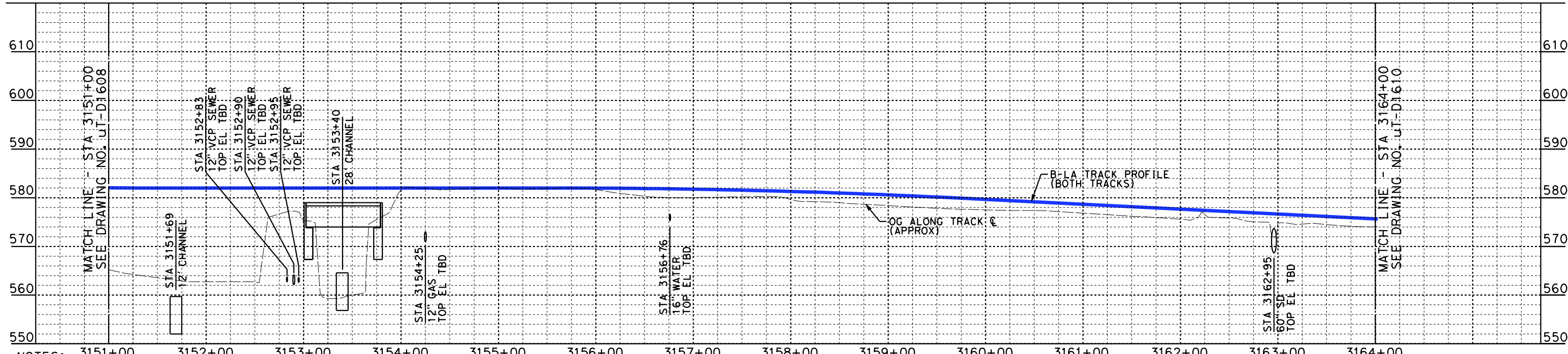
SCALE  
AS SHOWN

SHEET NO.





**PLAN**



- NOTES:**
1. RELOCATE 4-2" HDPE DUCTS OUTSIDE ROW.
  2. RELOCATE 4-2" HDPE DUCTS OUTSIDE ROW.
  3. RELOCATE LOCKHEED CHANNEL WITH NEW TIE-INS. SEE SHEETS CV-1301 TO CV-1308.
  4. RELOCATE GAS LINE OUTSIDE ROW.
  5. RELOCATE 3-12" VCP SEWER OUTSIDE ROW.
  6. RELOCATE 24" VCP SEWER OUTSIDE ROW.
  7. RELOCATE 12" VCP SEWER OUTSIDE ROW.
  8. RELOCATE 18" VCP SEWER OUTSIDE ROW.

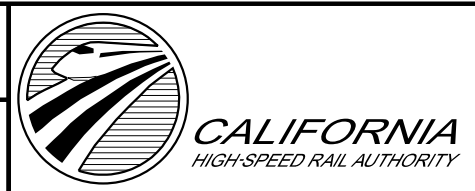
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DESIGNED BY  
**R. PETERS**  
DRAWN BY  
**C. CUSSON**  
CHECKED BY  
**C. ADAMS**  
IN CHARGE  
**K. PIRBAZARI**  
DATE  
**04/30/2019**

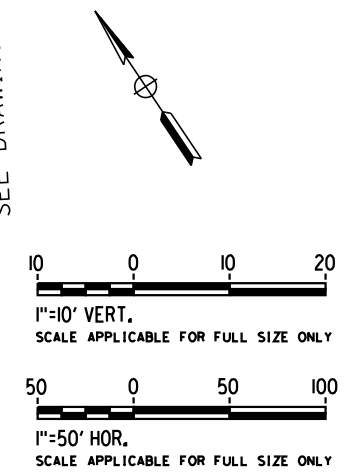
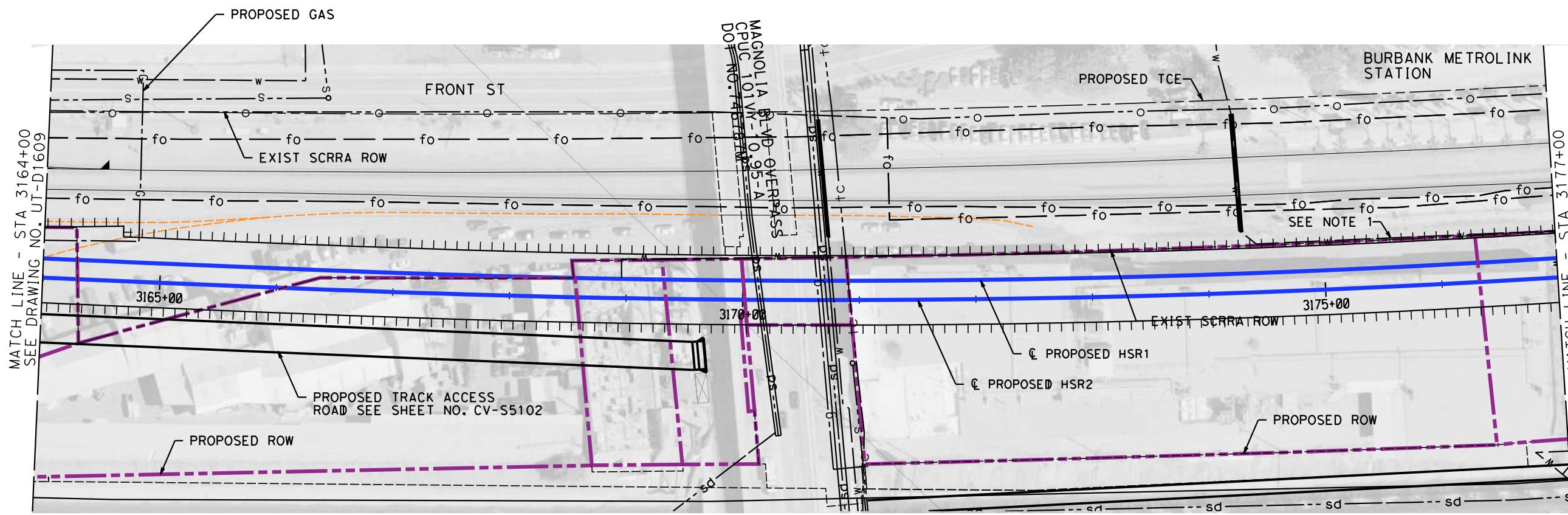
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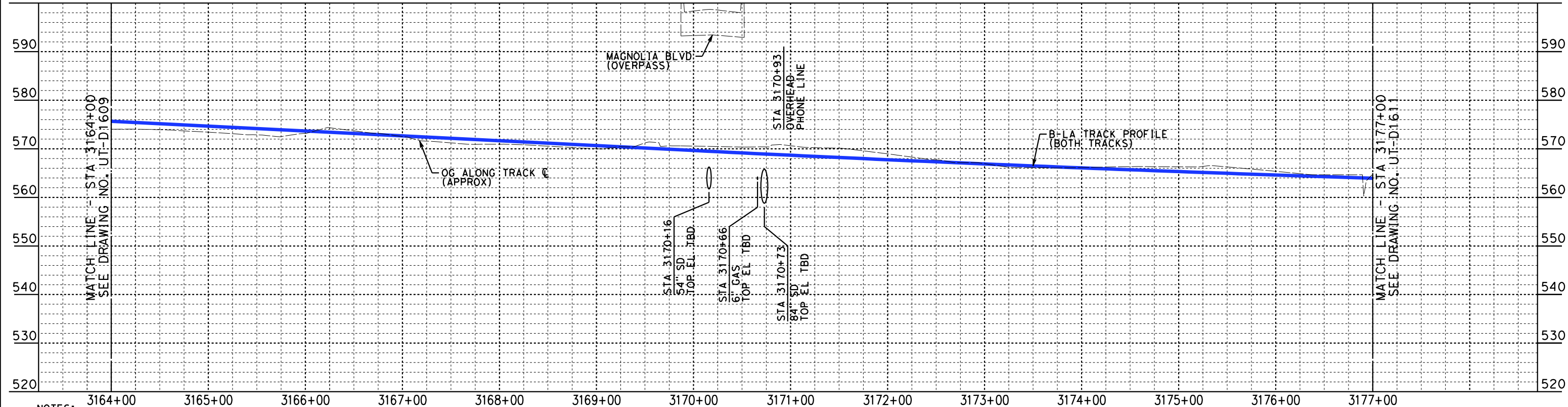
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**  
  
PEPD  
PROPOSED UTILITIES RELOCATION PLAN  
HSR2 3151+00 TO HSR2 3164+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-D1609  
SCALE  
AS SHOWN  
SHEET NO.

REV	DATE	BY	CHK	APP	DESCRIPTION



**PLAN**



**PROFILE**

NOTES: 3164+00 3165+00 3166+00 3167+00 3168+00 3169+00 3170+00 3171+00 3172+00 3173+00 3174+00 3175+00 3176+00 3177+00

1. RELOCATE WATER LINE

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4/30/2019 11:47:25 AM c:\j\p\work\dir\haynesma\d0135596\k2l-ut-d1610.dgn haynesma

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. HIGGINS**  
DRAWN BY  
**C. CUSSON**  
CHECKED BY  
**C. ADAMS**  
IN CHARGE  
**K. PIRBAZARI**  
DATE  
**04/30/2019**

**PEPD  
RECORD SET**  
  
**NOT FOR  
CONSTRUCTION**

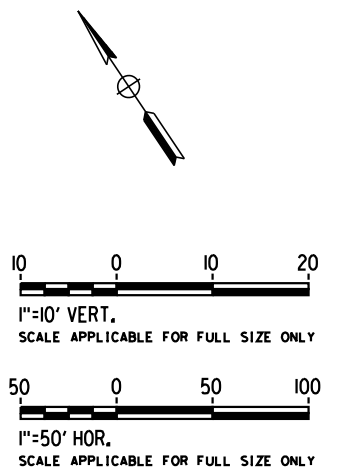


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**  
  
PEPD  
PROPOSED UTILITIES RELOCATION PLAN  
HSR2 3164+00 TO HSR2 3177+00

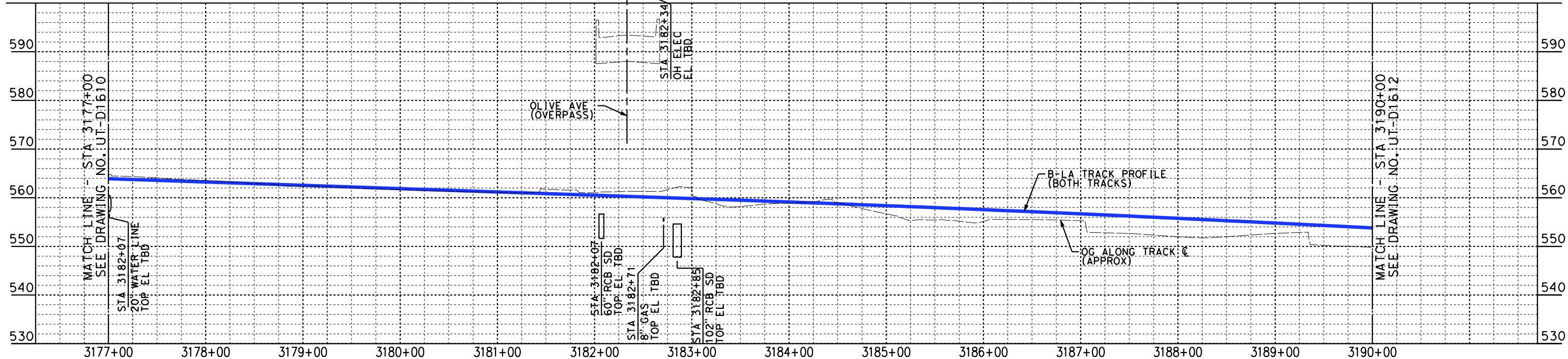
CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-D1610  
SCALE  
AS SHOWN  
SHEET NO.



4/30/2019 11:48:14 AM c:\j\p\pwworkdir\haynesma\d0135596\k2l-ut-d1611.dgn haynesma



**PLAN**



**PROFILE**

- 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

**NOT FOR CONSTRUCTION  
FOR INTERNAL USE ONLY**

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. HIGGINS**  
DRAWN BY  
**C. CUSSON**  
CHECKED BY  
**C. ADAMS**  
IN CHARGE  
**K. PIRBAZARI**  
DATE  
**04/30/2019**

**PEPD  
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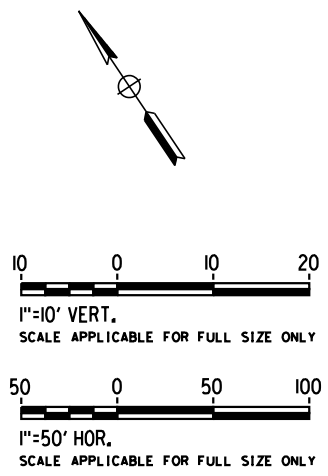
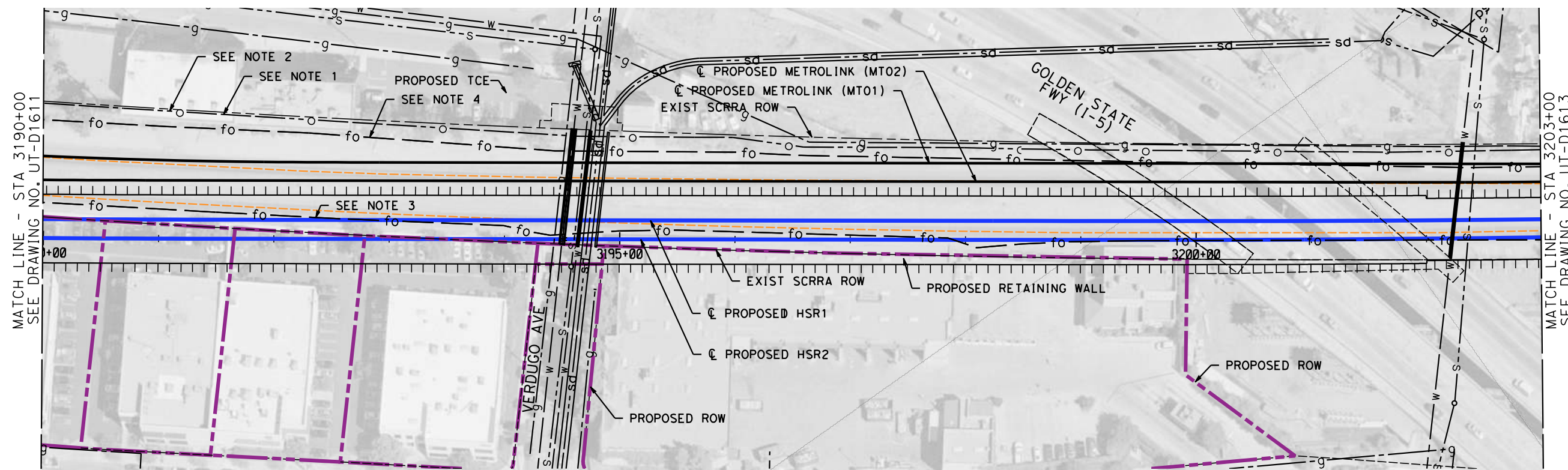
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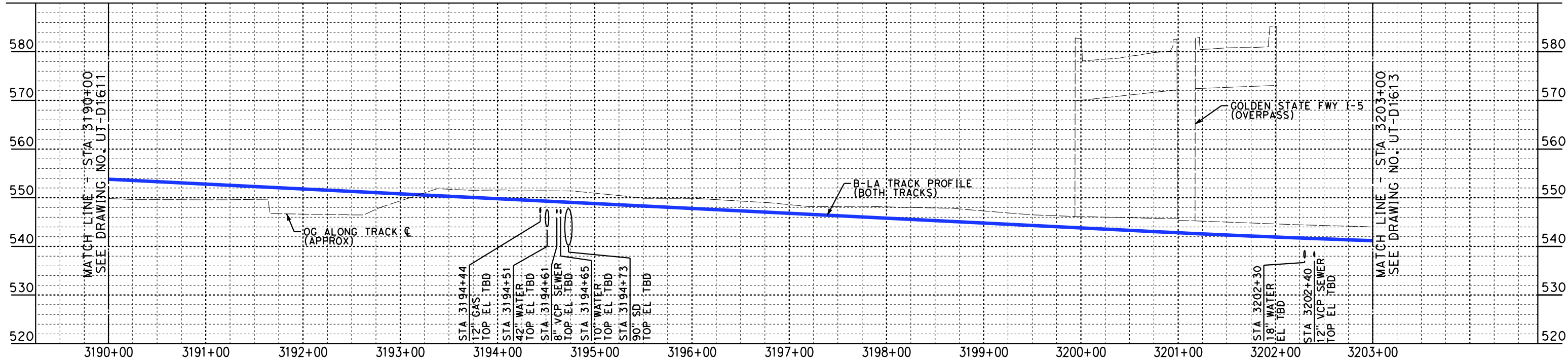
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

PEPD  
PROPOSED UTILITIES RELOCATION PLAN  
HSR2 3177+00 TO HSR2 3190+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-D1611  
SCALE  
AS SHOWN  
SHEET NO.



**PLAN**



- 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.

**PROFILE**

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. HIGGINS**  
DRAWN BY  
**C. CUSSON**  
CHECKED BY  
**C. ADAMS**  
IN CHARGE  
**K. PIRBAZARI**  
DATE  
**04/30/2019**

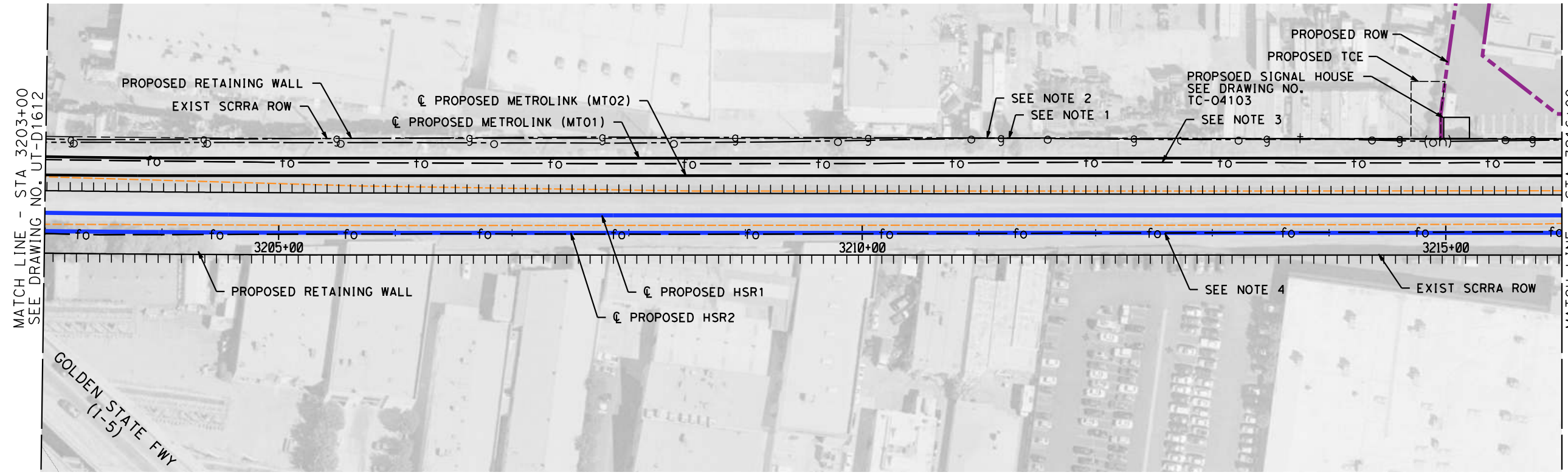
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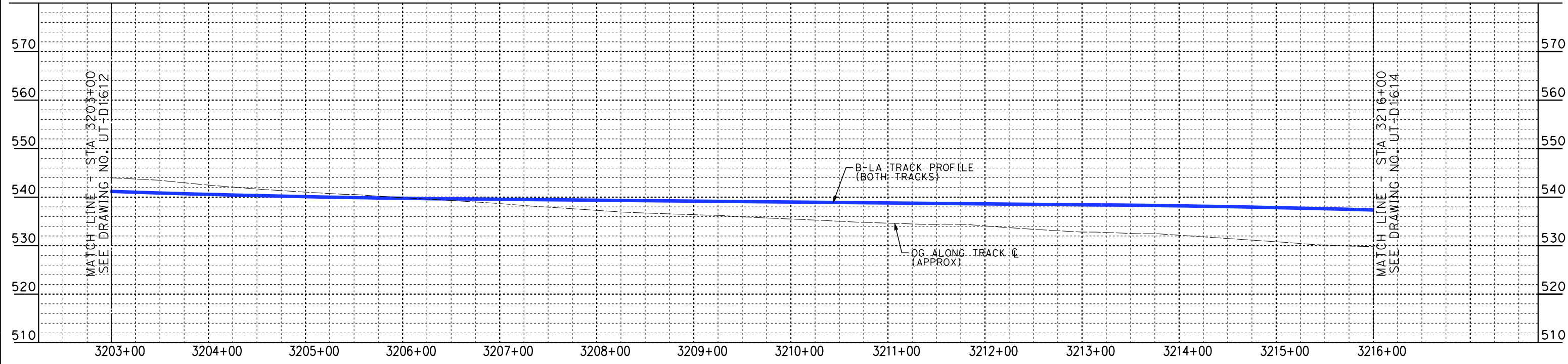
**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
  
PEPD  
PROPOSED UTILITIES RELOCATION PLAN  
HSR2 3190+00 TO HSR2 3203+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-D1612  
SCALE  
AS SHOWN  
SHEET NO.





**PLAN**



**PROFILE**

- 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.

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. HIGGINS**  
DRAWN BY  
**C. CUSSON**  
CHECKED BY  
**C. ADAMS**  
IN CHARGE  
**K. PIRBAZARI**  
DATE  
**04/30/2019**

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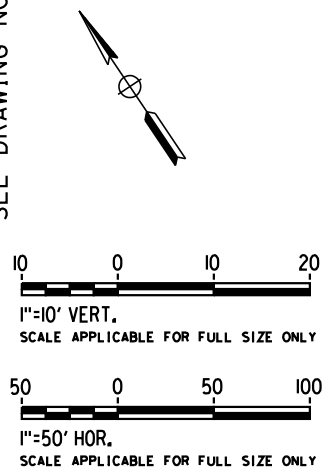
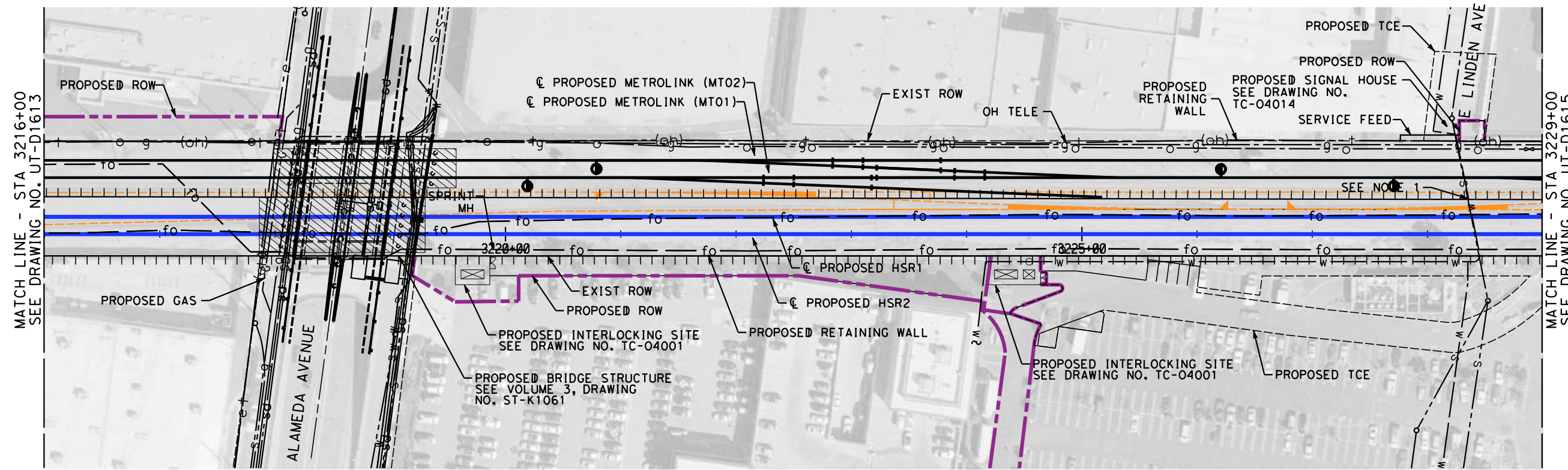
**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

PEPD  
PROPOSED UTILITIES RELOCATION PLAN  
HSR2 3203+00 TO HSR2 3216+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-D1613  
SCALE  
AS SHOWN  
SHEET NO.



**PLAN**



**PROFILE**

- NOTES:
- EXISTING WATER & SEWER CASING 102'x36" JACKING TUBE (COB)
  - RELOCATE GAS LINE OUTSIDE OF BRIDGE IMPROVEMENTS.

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DESIGNED BY  
**J. HIGGINS**  
DRAWN BY  
**C. CUSSON**  
CHECKED BY  
**C. ADAMS**  
IN CHARGE  
**K. PIRBAZARI**  
DATE  
**04/30/2019**

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CONSTRUCTION**

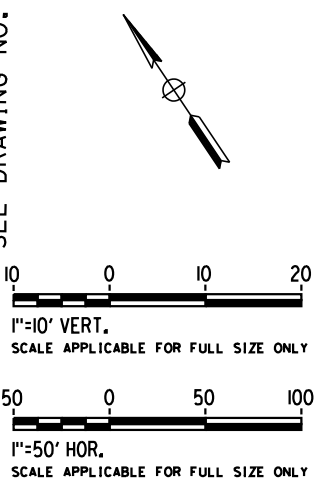
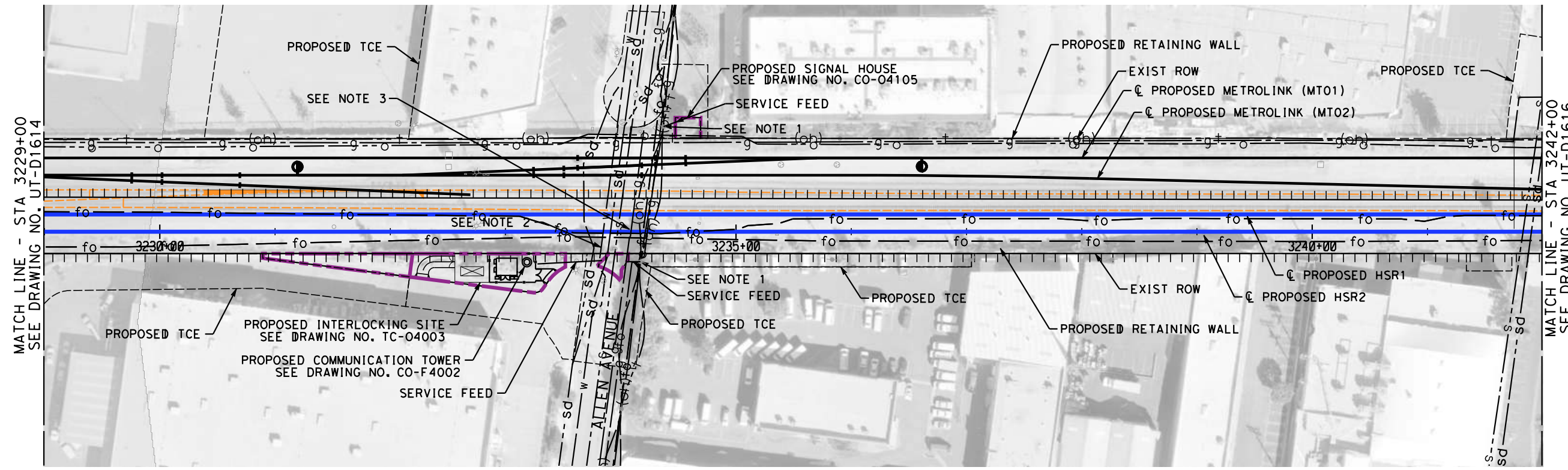


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

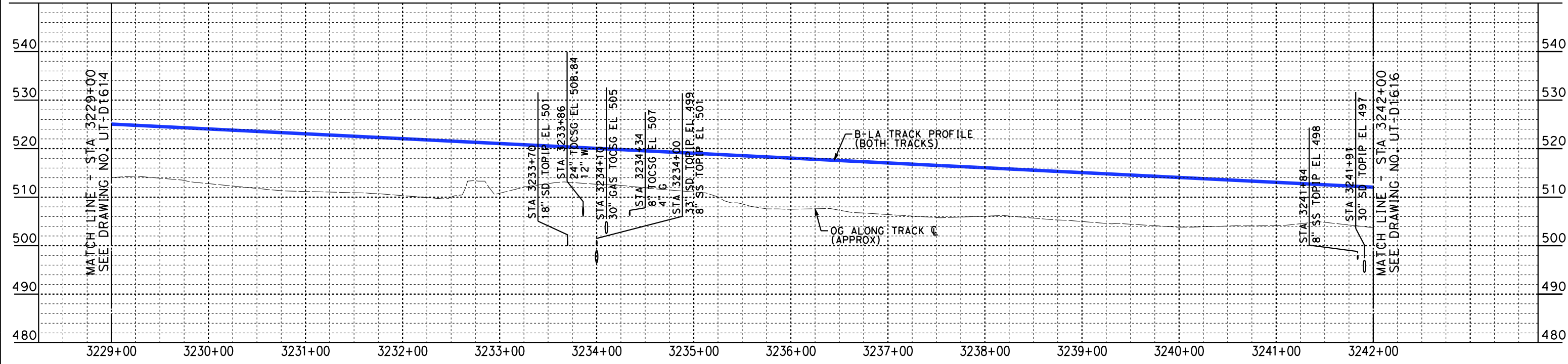
PEPD  
PROPOSED UTILITIES RELOCATION PLAN  
HSR2 3216+00 TO HSR2 3229+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-D1614  
SCALE  
AS SHOWN  
SHEET NO.





**PLAN**



- NOTES:**
- OH TELEPHONE POWER & OH FIBER WITH LOWEST LINE ON ALL RAISE POLE TO ALLOW 27' CLEARANCE PER HSR STD.
  - EXISTING WATER CASING 101'x24" EXTENDING CASING FROM ROW TO ROW.
  - CSG TO BE EXTENDED FROM ROW TO ROW

**PROFILE**

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. HIGGINS**

DRAWN BY  
**C. CUSSON**

CHECKED BY  
**C. ADAMS**

IN CHARGE  
**K. PIRBAZARI**

DATE  
**04/30/2019**

**PEPD  
RECORD SET**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

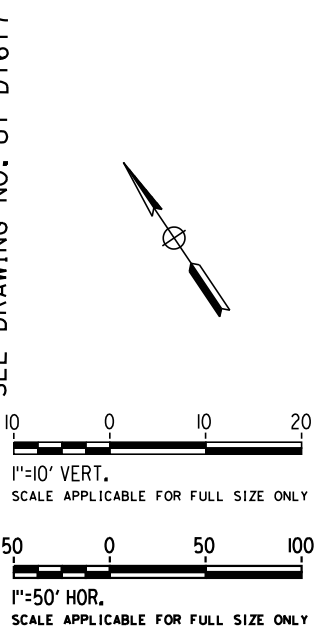
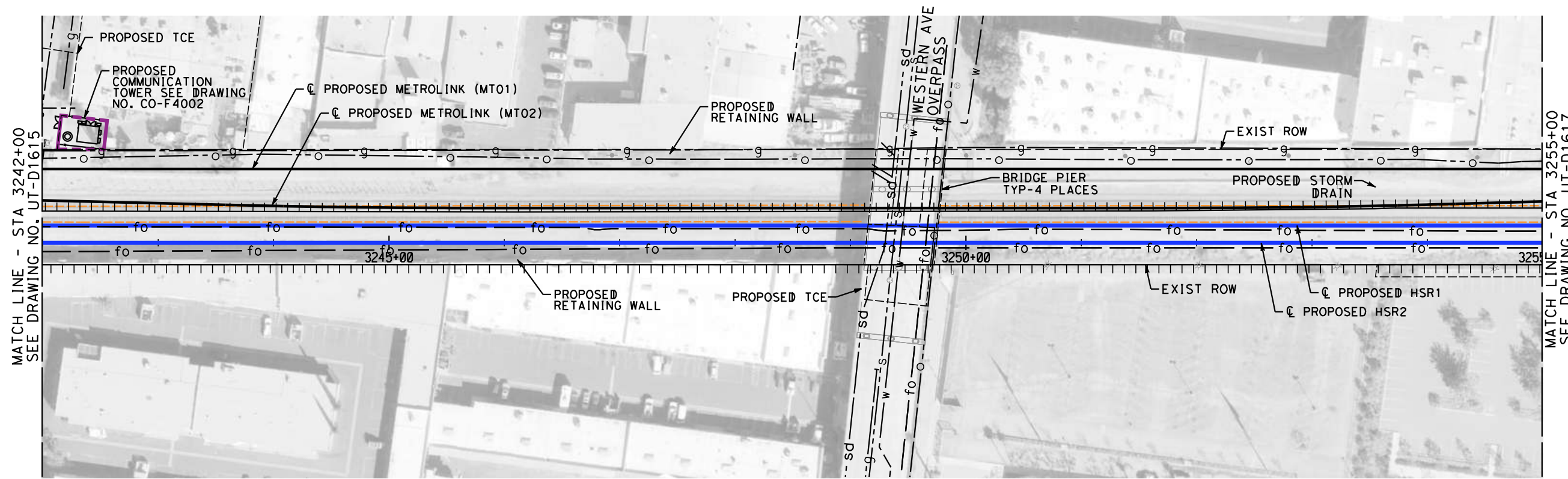
PEPD  
PROPOSED UTILITIES RELOCATION PLAN  
HSR2 3229+00 TO HSR2 3242+00

CONTRACT NO.  
HSR14-39

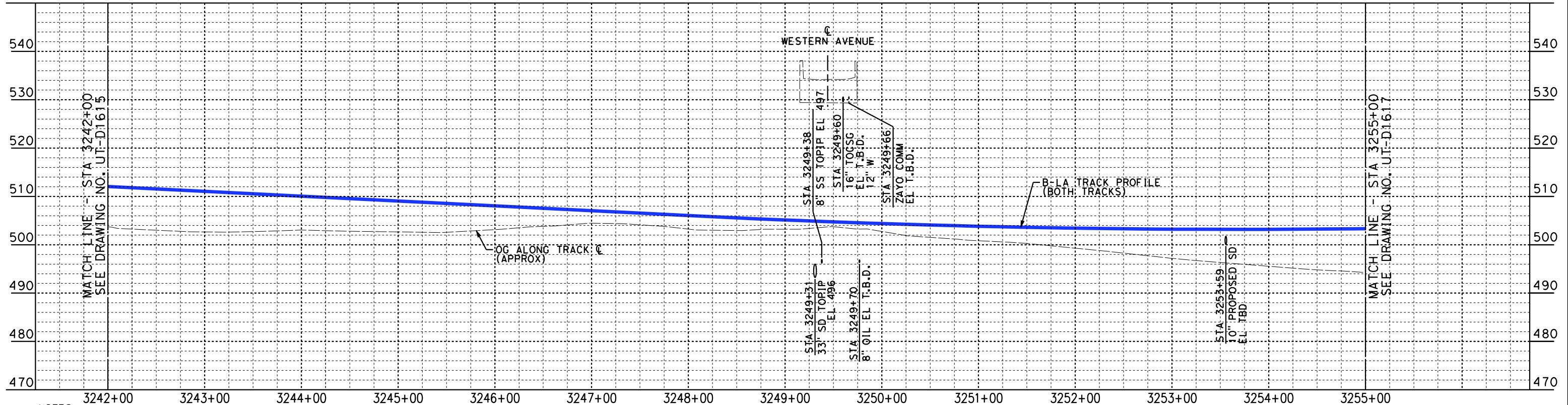
DRAWING NO.  
UT-D1615

SCALE  
AS SHOWN

SHEET NO.



**PLAN**



**PROFILE**

NOTES:  
1. EXISTING WATER CASING 100'x16".  
EXTEND EXISTING CASING FROM ROW TO ROW.

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DESIGNED BY  
**J. HIGGINS**  
DRAWN BY  
**C. CUSSON**  
CHECKED BY  
**C. ADAMS**  
IN CHARGE  
**K. PIRBAZARI**  
DATE  
**04/30/2019**

**PEPD  
RECORD SET**

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CONSTRUCTION**

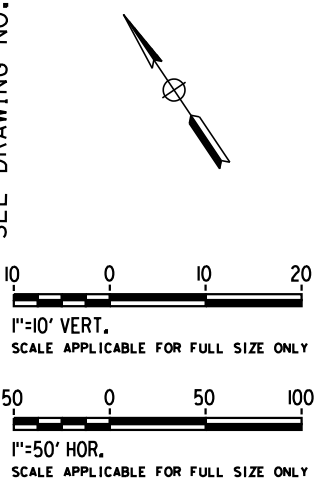
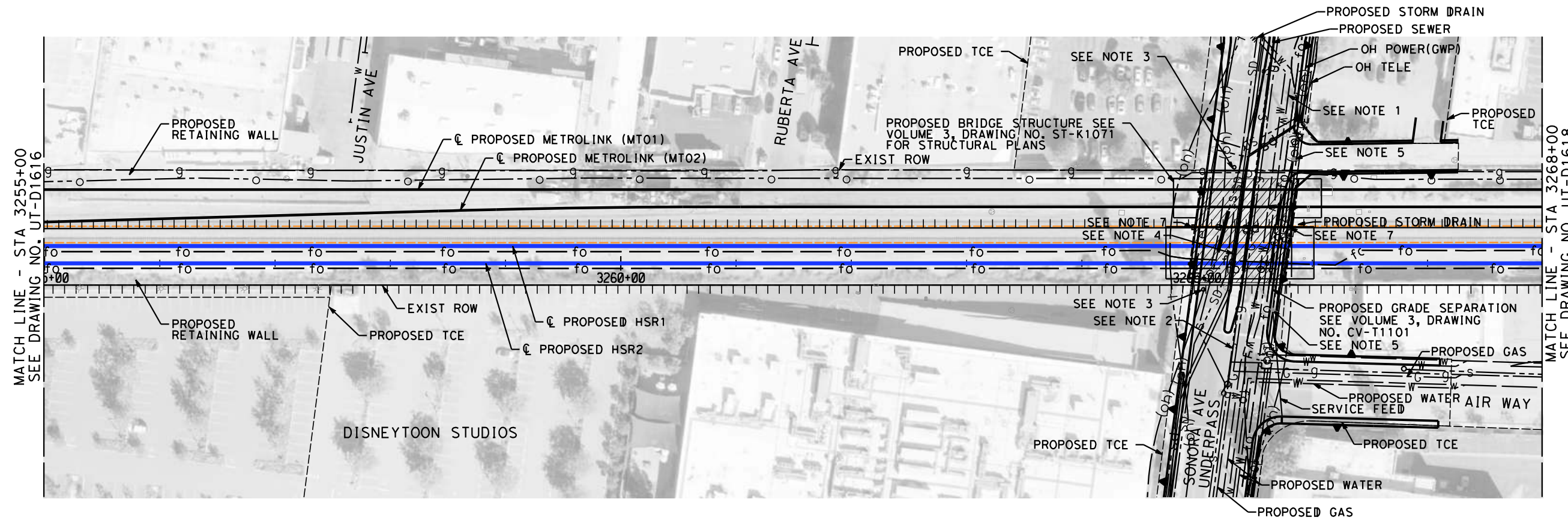


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

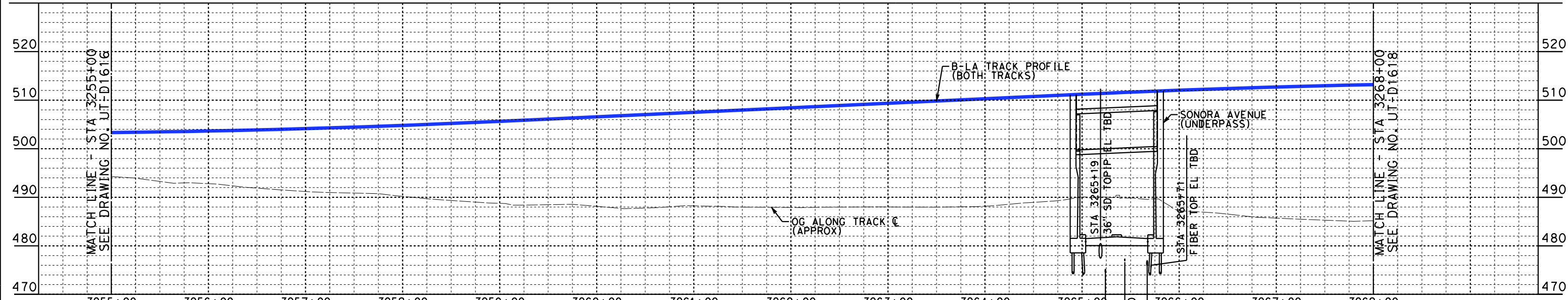
PEPD  
PROPOSED UTILITIES RELOCATION PLAN  
HSR2 3242+00 TO HSR2 3255+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-D1616  
SCALE  
AS SHOWN  
SHEET NO.





**PLAN**



**PROFILE**

- NOTES:
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 LOWERED BY 16.50' AT SAN FERNANDO ROAD TO MEET NEW GRADE OF SONORA, THE ONE MANHOLE NEAR AIR WAY WILL BE LOWERED BY 3' 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. OH TELEPHONE & POWER WITH THE LOWEST LINE ON ALL RAISED POLES TO ALLOW 27' CLEARANCE PER HSR STD.
  6. RELOCATE EXISTING FIBER 5' BELOW GRADE.
  7. NEW CATCH BASINS WITH NEW STORM DRAIN PIPE INSTALLED ON BOTH SIDES OF EXISTING STORM DRAIN.

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**C. CUSSON**

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**C. ADAMS**

IN CHARGE  
**K. PIRBAZARI**

DATE  
**04/30/2019**

**PEPD  
RECORD SET**

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CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

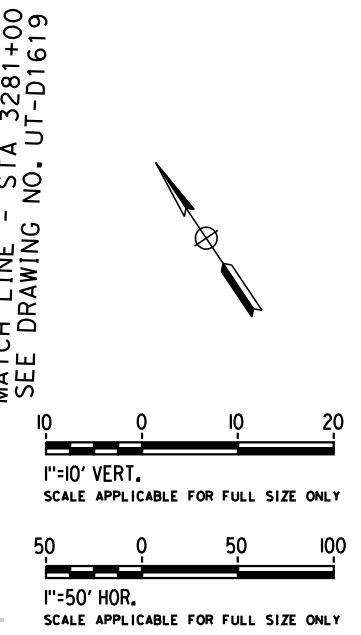
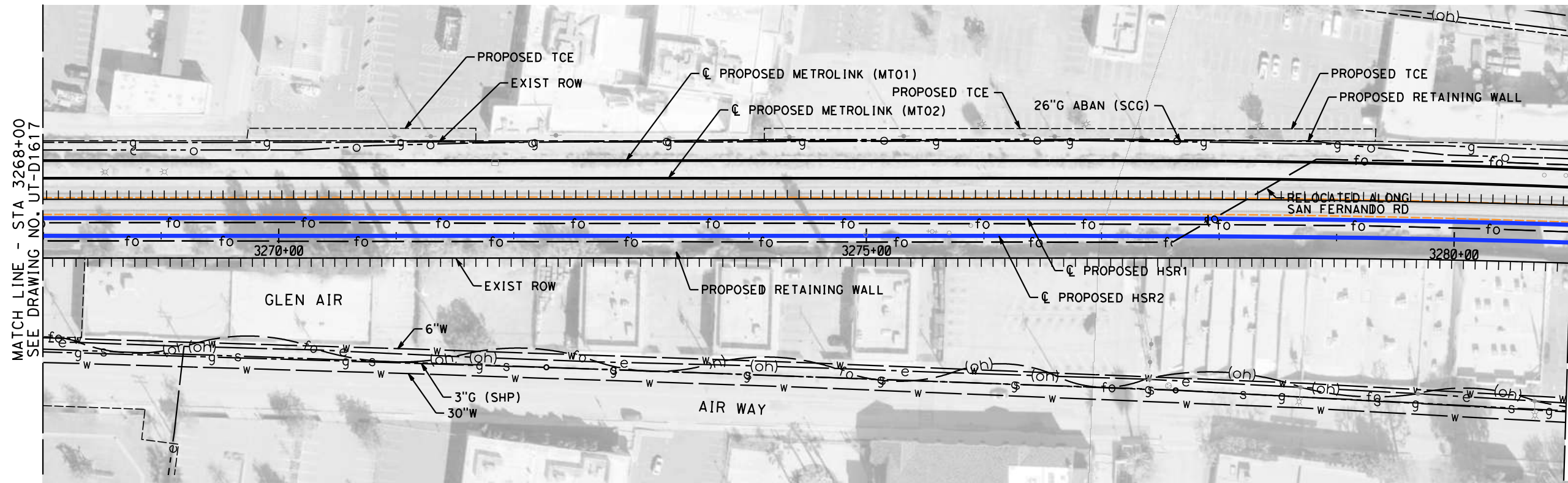
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PROPOSED UTILITIES RELOCATION PLAN  
HSR2 3255+00 TO HSR2 3268+00

CONTRACT NO.  
HSR14-39

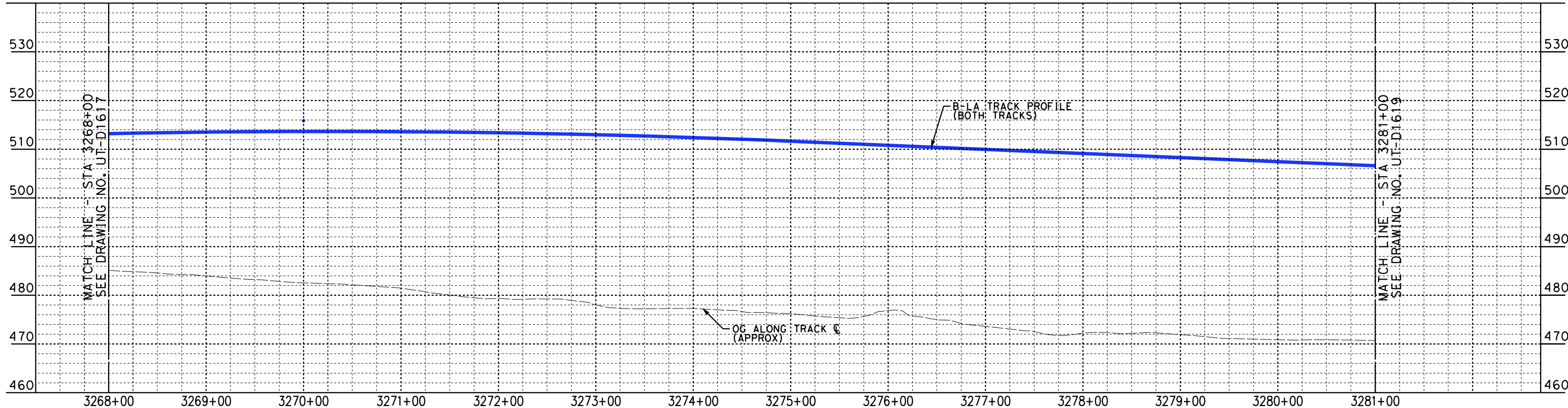
DRAWING NO.  
UT-D1617

SCALE  
AS SHOWN

SHEET NO.



**PLAN**



**PROFILE**

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**C. ADAMS**  
IN CHARGE  
**K. PIRBAZARI**  
DATE  
**04/30/2019**

**PEPD  
RECORD SET**

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CONSTRUCTION**

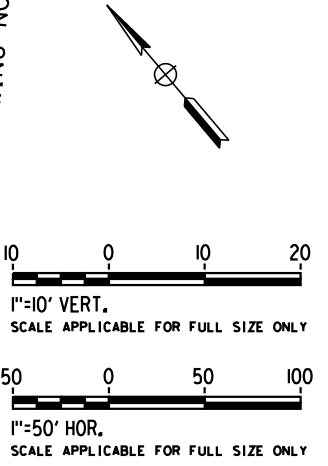
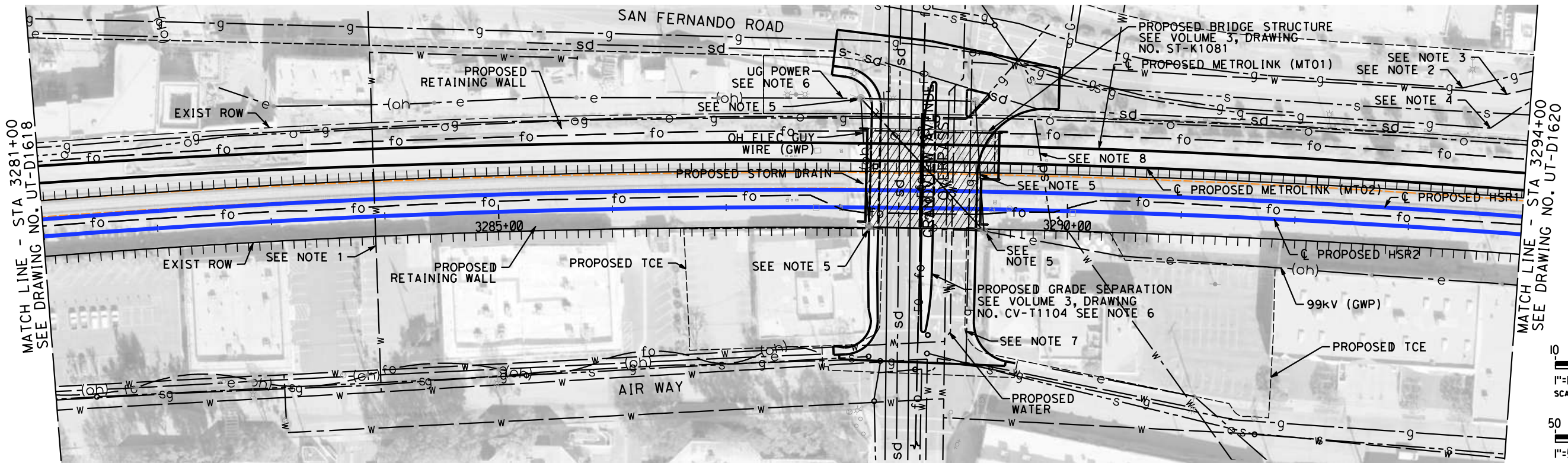


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

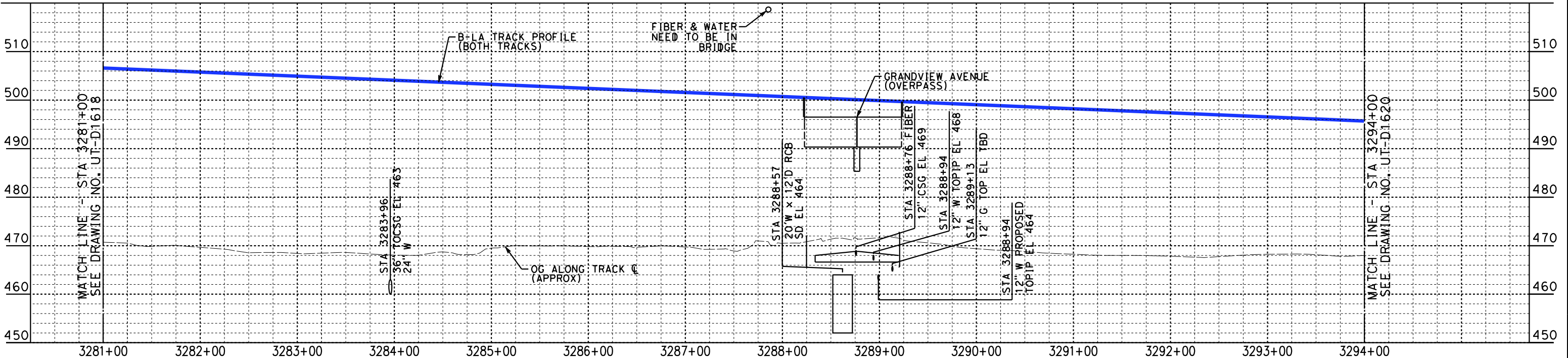
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PROPOSED UTILITIES RELOCATION PLAN  
HSR2 3268+00 TO HSR2 3281+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-D1618  
SCALE  
AS SHOWN  
SHEET NO.





**PLAN**



**PROFILE**

- NOTES:**
- EXISTING WATER CASING 100"x36". EXTEND EXISTING CASING FROM ROW TO ROW.
  - EXISTING NATURAL GAS TIE-IN.
  - EXISTING WATER TIE-IN.
  - EXISTING NATURAL GAS TIE-IN.
  - OH POWER WITH THE LOWEST LINE ON ALL RAISE POLES AND GUY WIRES TO ALLOW 27' CLEARANCE PER HSR STD.
  - UG POWER TO BE 5' BELOW GRADE TO EXISTING SERVICE POLE.
  - EXISTING GAS TO BE ENCASED/EXTEND CASING FROM ROW TO ROW
  - EXISTING ABANDONED CULVERT TO BE REMOVED IF NEEDED FOR TRACK CONSTRUCTION

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IN CHARGE  
**K. PIRBAZARI**  
DATE  
**04/30/2019**

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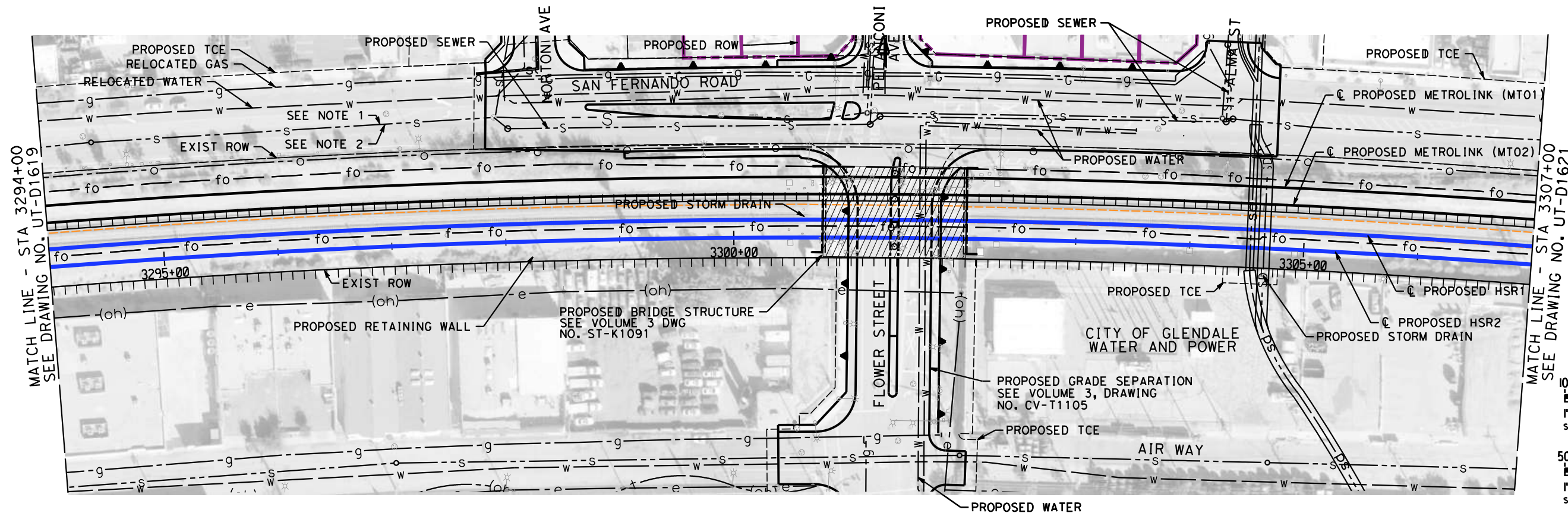


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
  
PEPD  
PROPOSED UTILITIES RELOCATION PLAN  
HSR2 3281+00 TO HSR2 3294+00

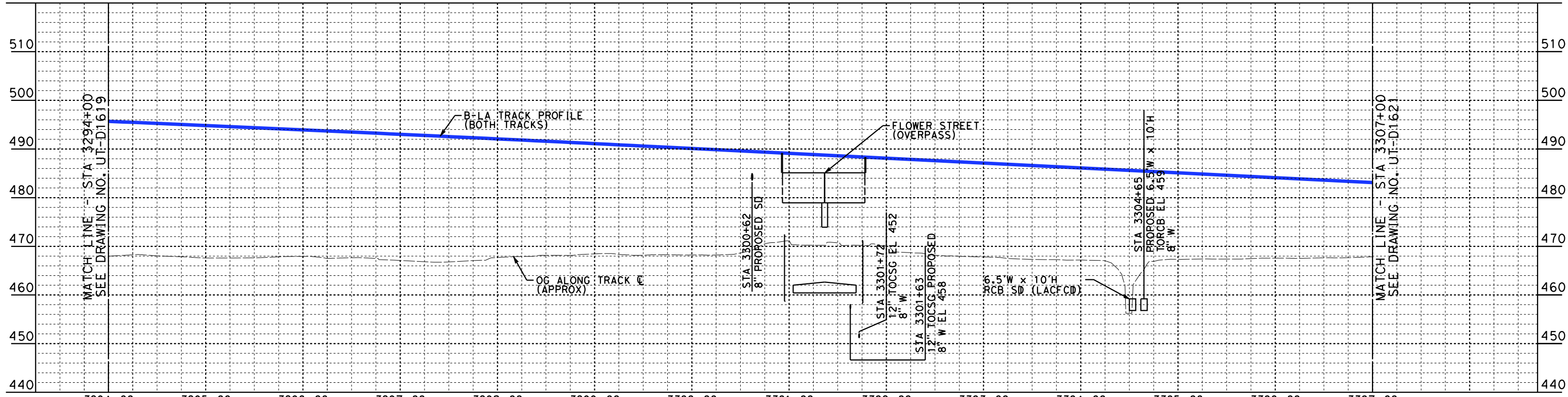
CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-D1619  
SCALE  
AS SHOWN  
SHEET NO.

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**PLAN**



**PROFILE**

NOTES: 3294+00 3295+00 3296+00 3297+00 3298+00 3299+00 3300+00 3301+00 3302+00 3303+00 3304+00 3305+00 3306+00 3307+00

- SANITARY SEWER MANHOLES-RAISE TO GRADE OF NEW SAN FERNANDO RD TYP-8 PLACES
- PROTECTING EXISTING SEWER IN PLACE.
- RAISE MANHOLES TO MATCH NEW GRADE ON SAN FERNANDO ROAD TYP ALL MANHOLES.
- REMOVE CULVERT, EXTEND RCB SD TO CONNECT TO EXISTING

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IN CHARGE  
**K. PIRBAZARI**  
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**04/30/2019**

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RECORD SET**

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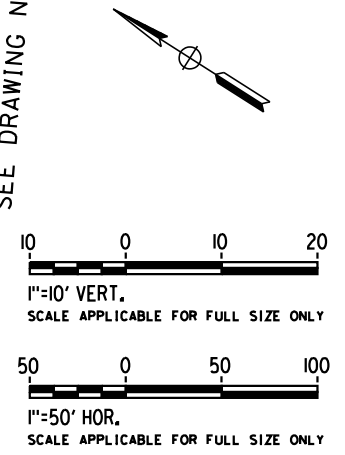
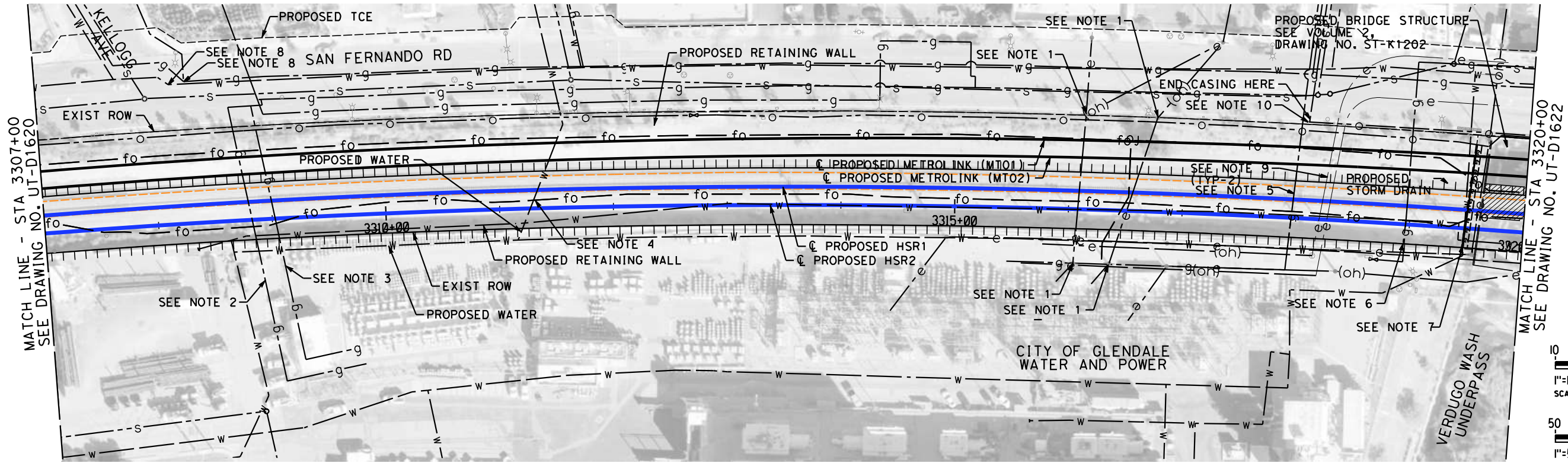


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

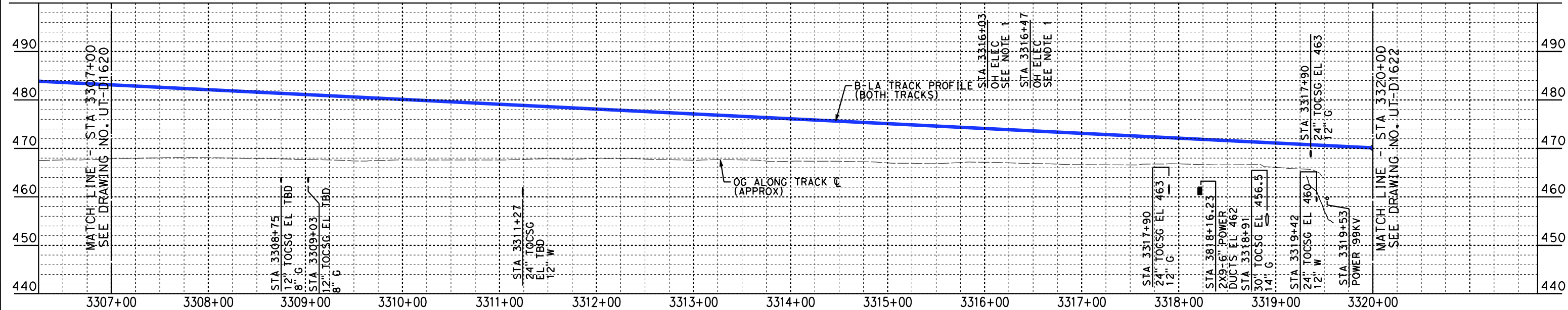
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PROPOSED UTILITIES RELOCATION PLAN  
HSR2 3294+00 TO HSR2 3307+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-D1620  
SCALE  
AS SHOWN  
SHEET NO.





**PLAN**



- NOTES:**
- OH POWER WITH THE LOWEST LINE ON ALL RAISED POLES TO 27' CLEARANCE, TYP-4 POLES
  - EXISTING NATURAL GAS CASING 101'x12" WITH CASING VENTS EACH END. EXTEND EXISTING CASING FROM ROW TO ROW.
  - EXISTING NATURAL GAS CASING 101'x12" WITH CASING VENTS EACH END. EXTEND EXISTING CASING FROM ROW TO ROW.
  - EXISTING WATER CASING 101'x24" EXTEND EXISTING CASING FROM ROW TO ROW.
  - EXISTING NATURAL GAS CASING 101'x24" WITH CASING VENTS EACH END. EXTEND EXISTING CASING FROM ROW TO ROW.
  - EXISTING NATURAL GAS CASING 101'x24" WITH CASING VENTS EACH END. EXTEND EXISTING CASING FROM ROW TO ROW.
  - EXISTING WATER CASING 101'x24" EXTEND EXISTING CASING FROM ROW TO ROW.
  - UTILITY TIE-INS FOR 1 WATER & 2 NATURAL GAS LINES.
  - EXTEND 42" CASINGS FOR BOTH 6" POWER DUCT TO EACH ROW. EXTEND EXISTING CASINGS FROM ROW TO ROW.
  - 14" OIL PIPELINE WITH EXISTING 30" CASING WITH CASING VENTS AT EACH END.

**PROFILE**

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**K. PIRBAZARI**  
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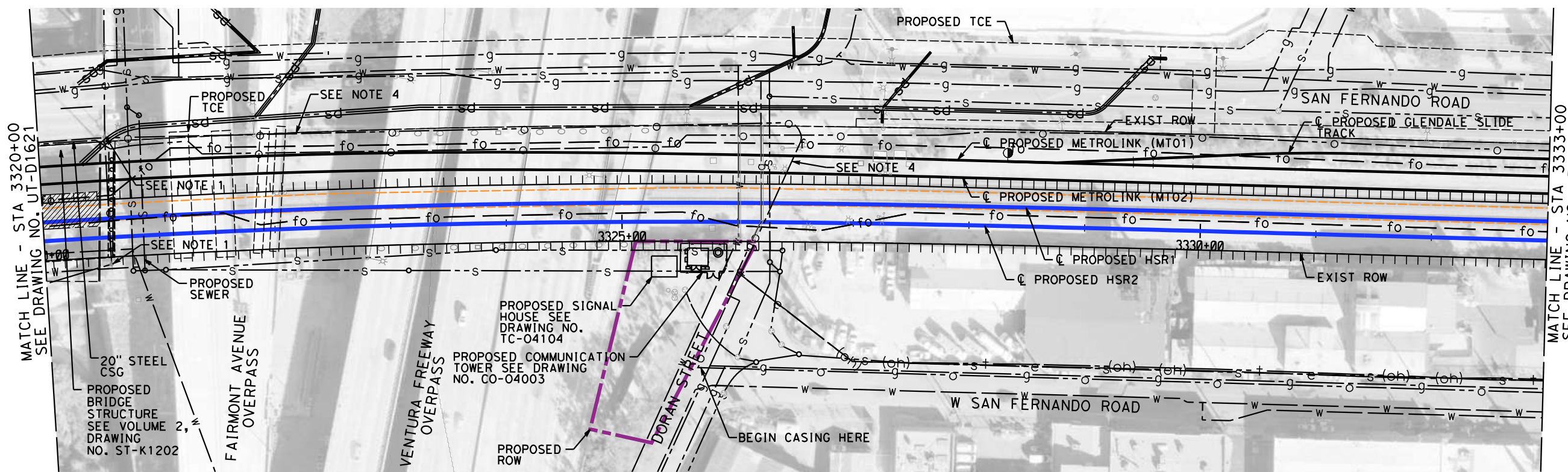


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BURBANK TO LOS ANGELES**

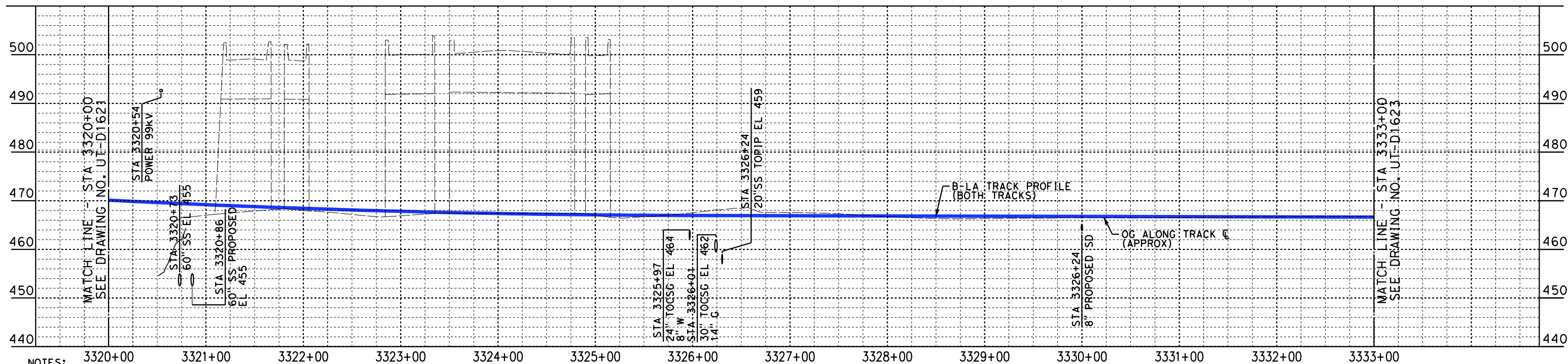
PEPD  
PROPOSED UTILITIES RELOCATION PLAN  
HSR2 3307+00 TO HSR2 3320+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-D1621  
SCALE  
AS SHOWN  
SHEET NO.





**PLAN**



**PROFILE**

- NOTES:
- NEW POLES FOR OH POWER WITH THE LOWEST LINE ON ALL POLES RAISED TO 27' CLEARANCE PER HSR STD.
  - EXISTING WATER CASING 101"x24". EXTEND EXISTING CASING FROM ROW TO ROW.
  - EXISTING NATURAL GAS CASING 102"x4" WITH CASING VENTS ON EACH END. EXTEND EXISTING CASING FROM ROW TO ROW.
  - NEW 30" CASING FOR 14" OIL PIPELINE WITH CASING VENTS ON EACH END.

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**C. ADAMS**  
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**K. PIRBAZARI**  
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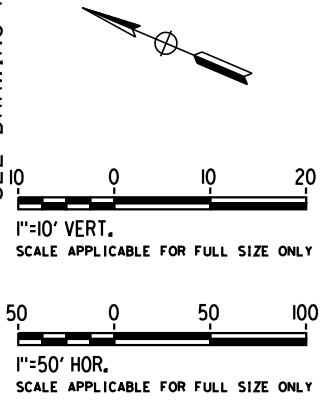
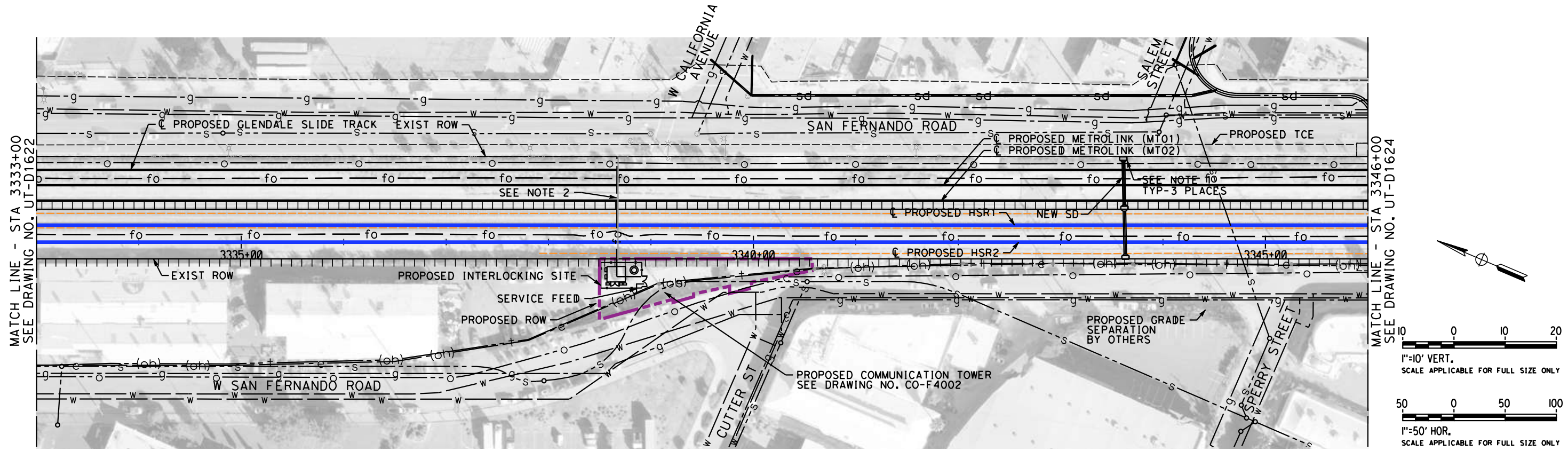
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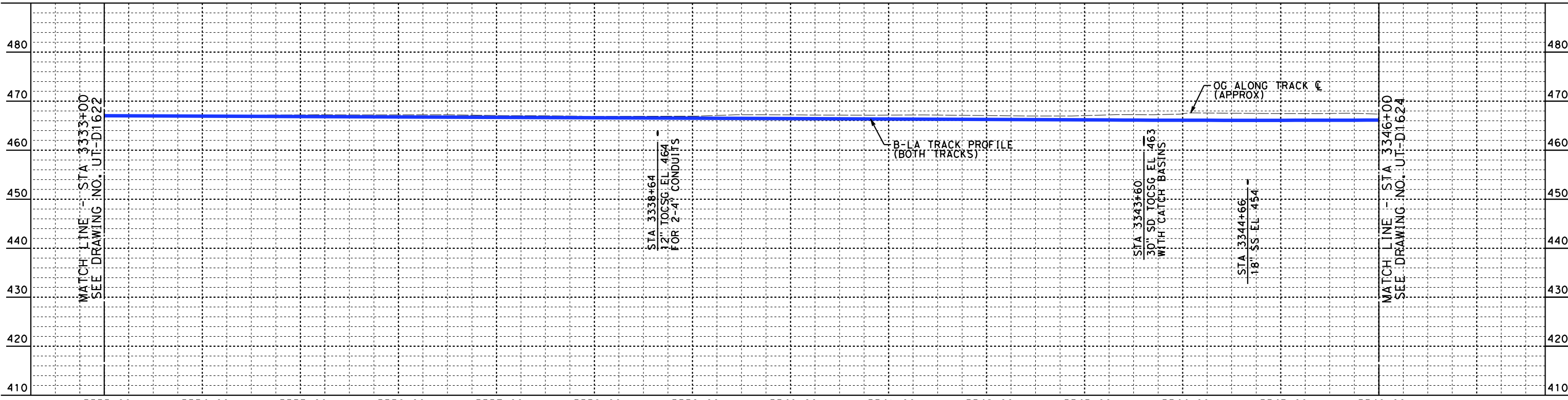
**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
  
PEPD  
PROPOSED UTILITIES RELOCATION PLAN  
HSR2 3320+00 TO HSR2 3333+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-D1622  
SCALE  
AS SHOWN  
SHEET NO.





**PLAN**



**PROFILE**

NOTES:  
 1. NEW CATCH BASINS TYP-3 PLACED WITH STORM DRAIN PIPE BETWEEN NEW CATCH BASINS.  
 2. NEW 12" CASING FOR 2-4" CONDUITS.

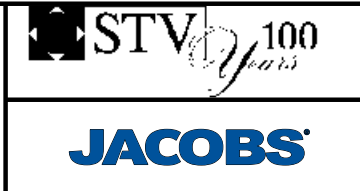
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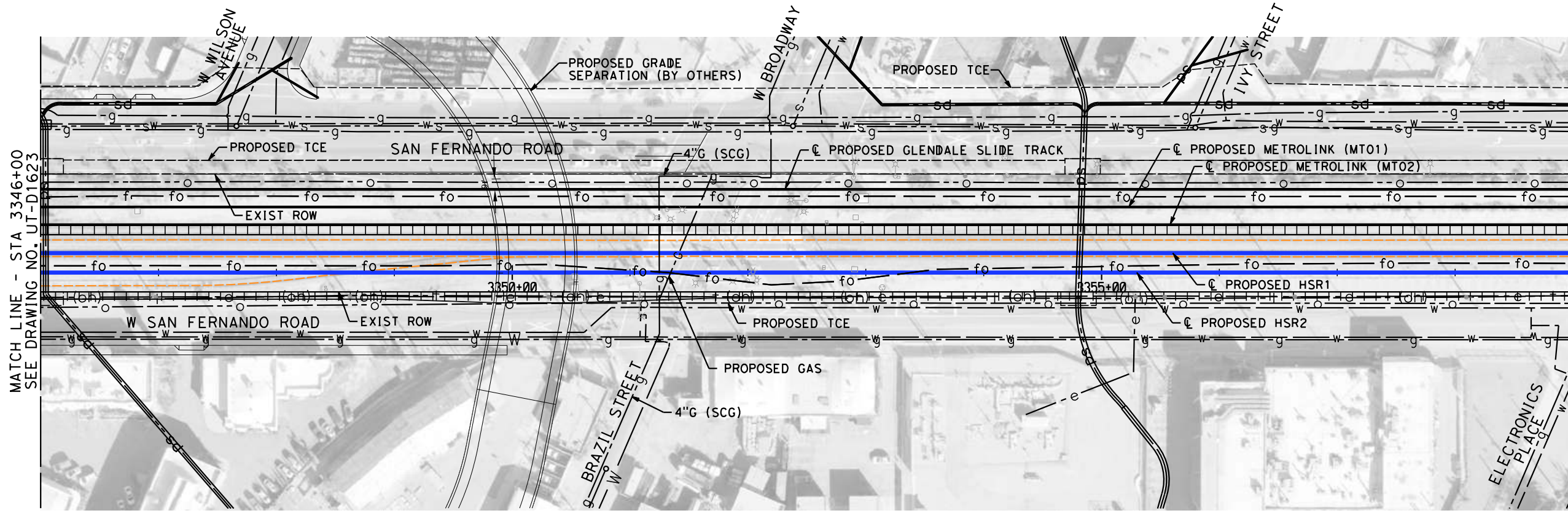
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**C. CUSSON**  
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**C. ADAMS**  
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**K. PIRBAZARI**  
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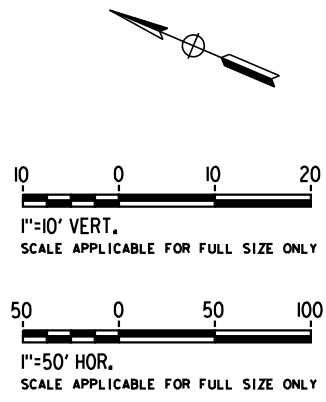


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 BURBANK TO LOS ANGELES**  
  
 PEPD  
 PROPOSED UTILITIES RELOCATION PLAN  
 HSR2 3333+00 TO HSR2 3346+00

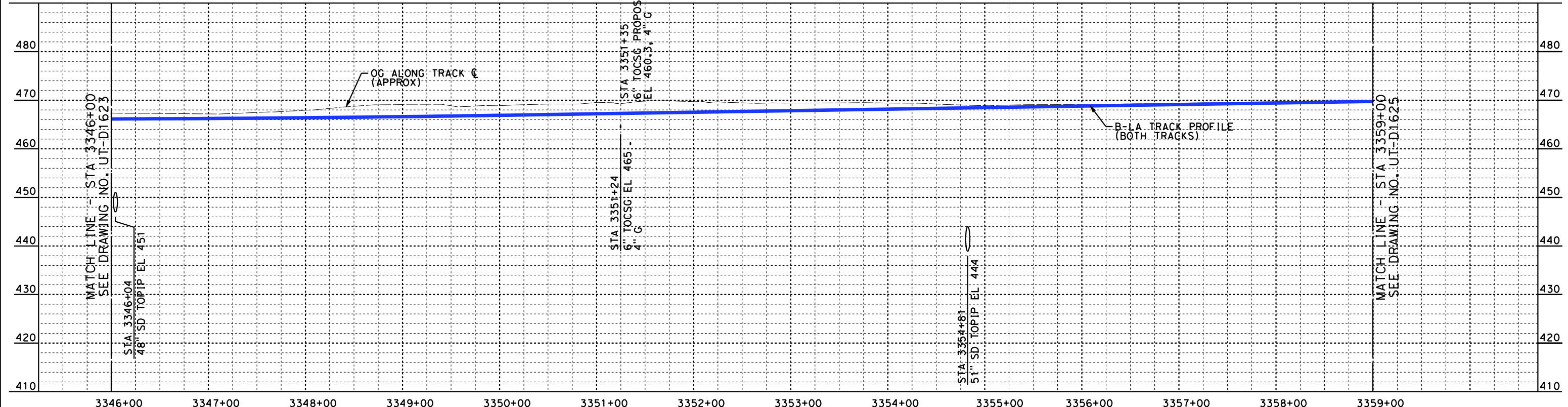
CONTRACT NO.  
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 DRAWING NO.  
**UT-D1623**  
 SCALE  
**AS SHOWN**  
 SHEET NO.



MATCH LINE - STA 3359+00  
SEE DRAWING NO. UT-D1625



**PLAN**



**PROFILE**

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**04/30/2019**

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RECORD SET**

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CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

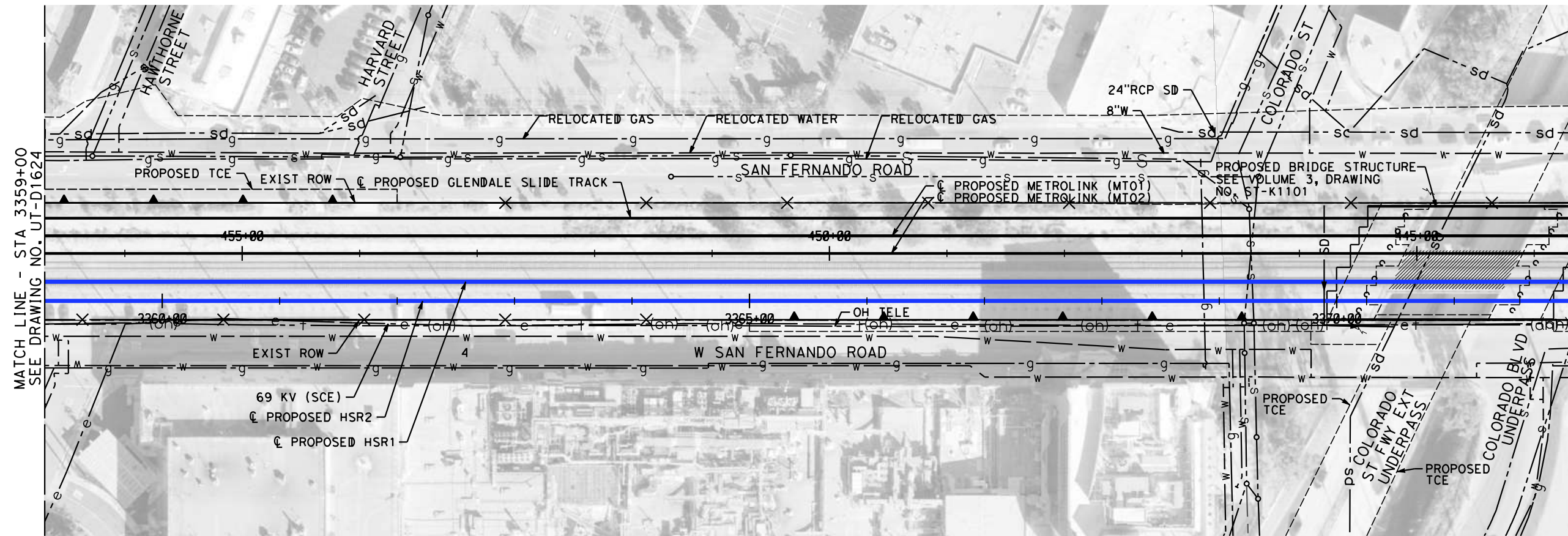
PEPD  
PROPOSED UTILITIES RELOCATION PLAN  
HSR2 3346+00 TO HSR2 3359+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-D1624  
SCALE  
AS SHOWN  
SHEET NO.

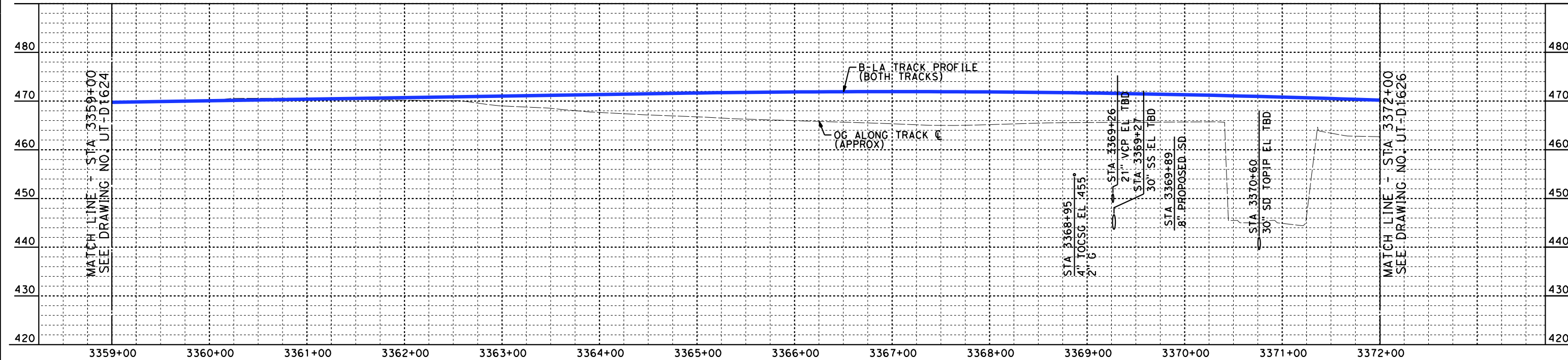


NOTES:

1. EXISTING NATURAL GAS CASING 100"x4" WITH CASING VENTS ON BOTH SIDES. EXTEND EXISTING CASING FROM ROW TO ROW.
2. STORM DRAIN AND SEWER ELEV. TO BE DETERMINED.



PLAN



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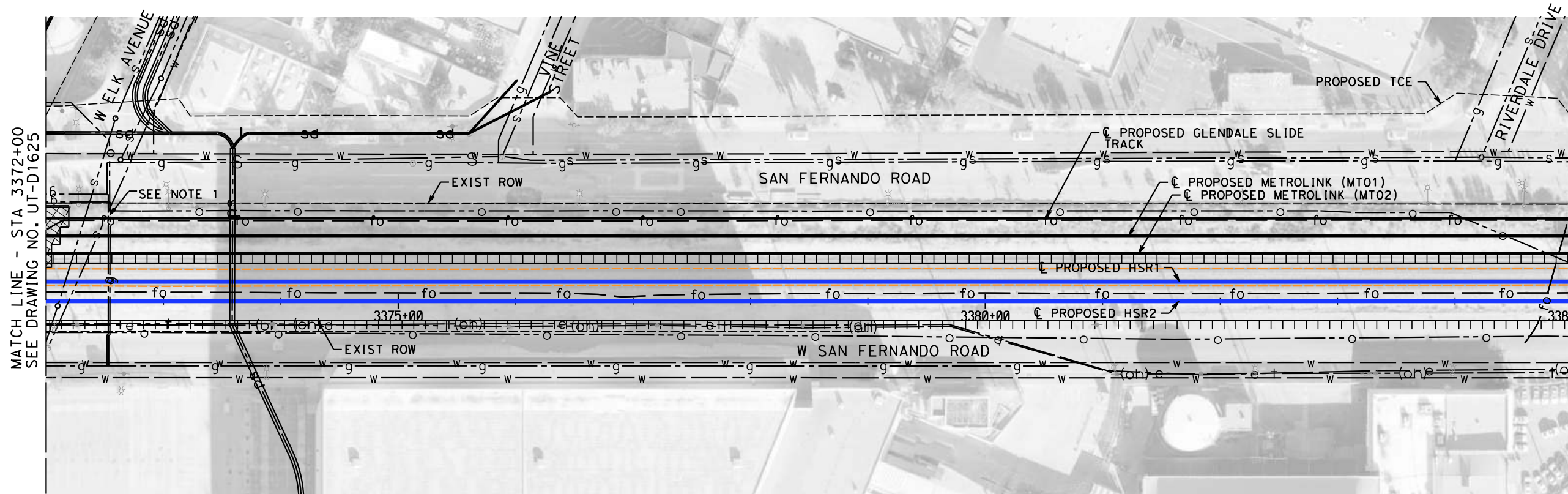
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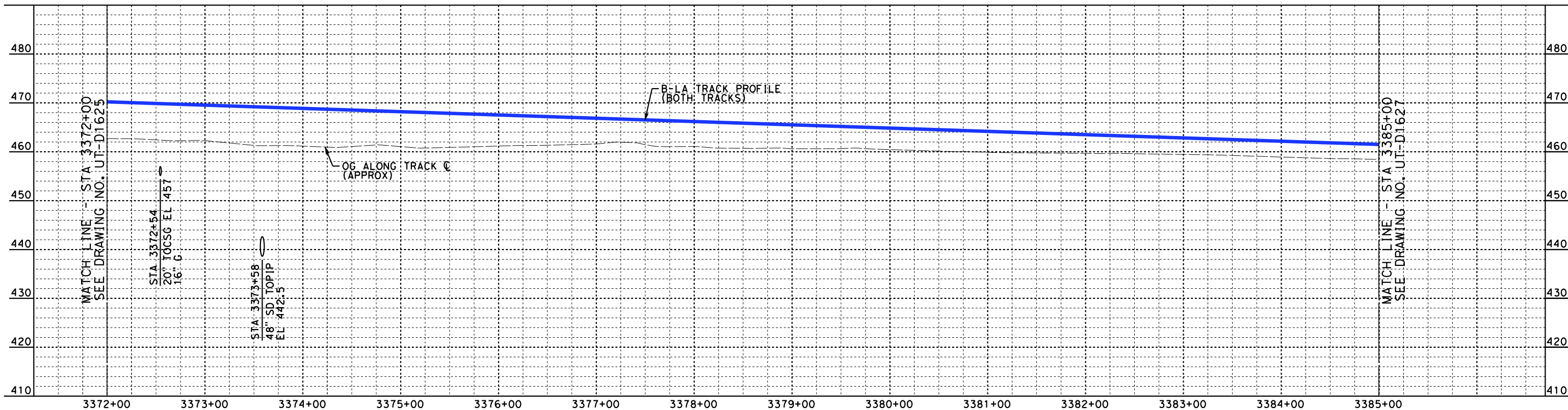


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
  
PEPD  
PROPOSED UTILITIES RELOCATION PLAN  
HSR2 3359+00 TO HSR2 3372+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-D1625  
SCALE  
AS SHOWN  
SHEET NO.



**PLAN**



**PROFILE**

- NOTES:**  
 1. EXISTING NATURAL GAS CASING 100"x20" WITH CASING VENTS ON EACH SIDE. EXTEND EXISTING CASING FROM ROW TO ROW.

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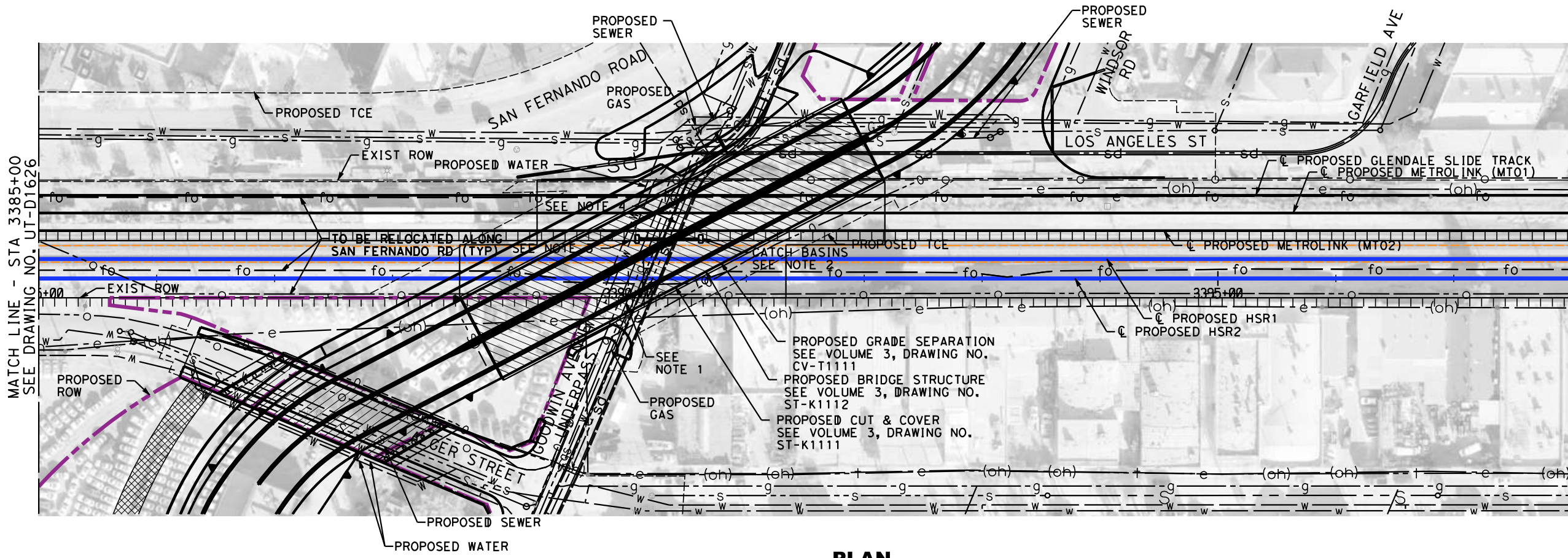
PEPD  
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 HSR2 3372+00 TO HSR2 3385+00

CONTRACT NO.  
**HSR14-39**  
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**UT-D1626**  
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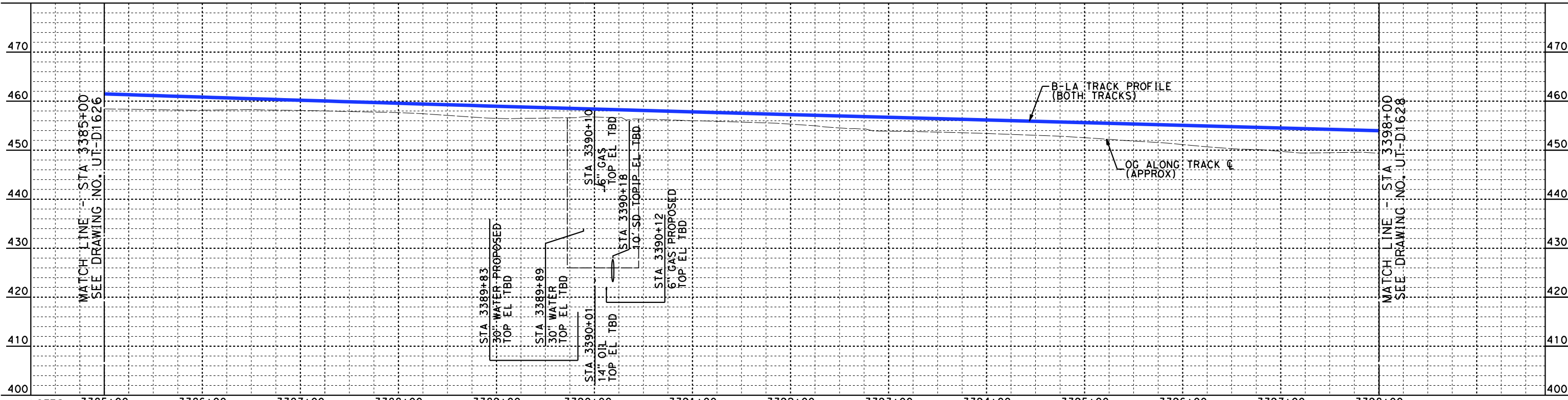
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REV	DATE	BY	CHK	APP	DESCRIPTION





**PLAN**



**PROFILE**

NOTES: 3385+00 3386+00 3387+00 3388+00 3389+00 3390+00 3391+00 3392+00 3393+00 3394+00 3395+00 3396+00 3397+00 3398+00  
 1. GAS LINE IN GOODWIN AVE WILL NEED TO BE REPLACED INTO THE NEW UNDERPASS BUT ALL CONNECTIONS AT ALGER, GRAND CENTRAL, A&C STREET WILL NEED TO HAVE TIE-IN POINTS.  
 2. NEW CATCH BASINS TYP-2 PLACES TIES INTO EXISTING STORM DRAIN WITH NEW JUNCTION STRUCTURE.  
 3. WATER LINE IN GOODWIN AVE WILL NEED TO BE REPLACED INTO A NEW UNDERPASS BUT ALL CONNECTIONS AT ALGER ST, GRAND CENTRAL, A&C STREET WILL NEED TO HAVE TIE-IN POINTS.  
 4. THE SD MANHOLES WILL NEED TO BE LOWERED TO THE GRADE ON SHEET CV-T1022.

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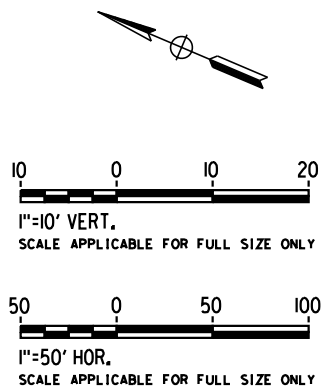
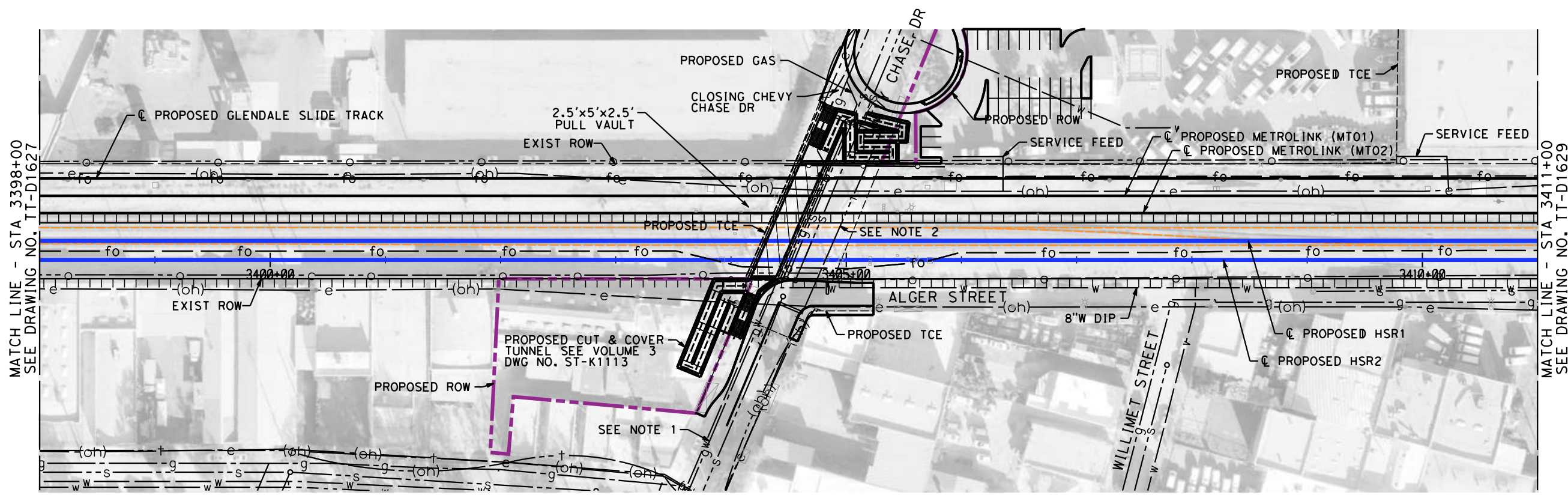
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**J. HIGGINS**  
 DRAWN BY  
**C. CUSSON**  
 CHECKED BY  
**C. ADAMS**  
 IN CHARGE  
**K. PIRBAZARI**  
 DATE  
**04/30/2019**

**PEPD RECORD SET**  
  
**NOT FOR CONSTRUCTION**

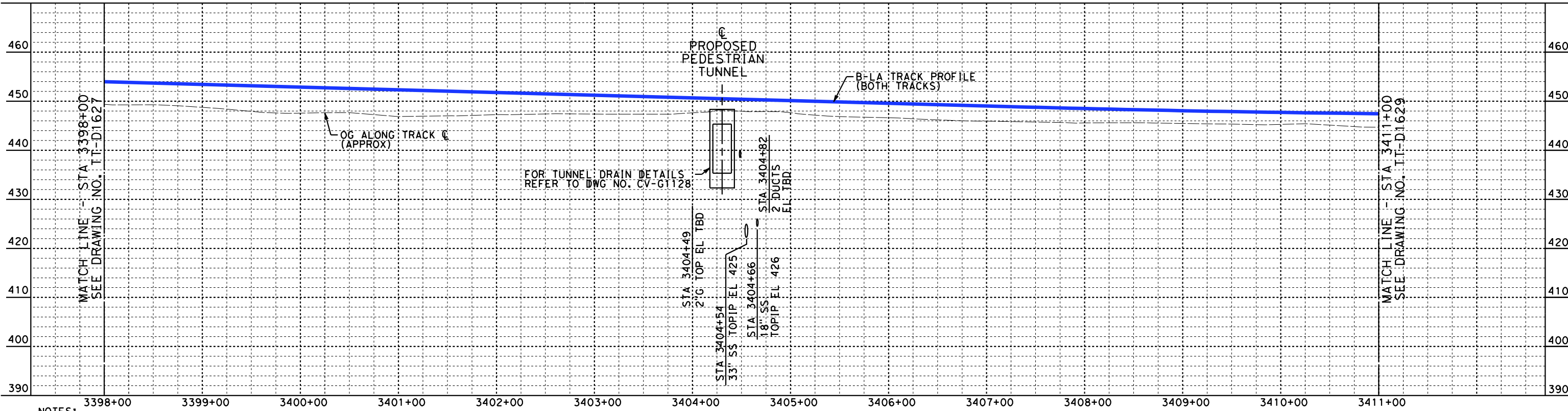


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
  
 PEPD  
 PROPOSED UTILITIES RELOCATION PLAN  
 HSR2 3385+00 TO HSR2 3398+00

CONTRACT NO.  
HSR14-39  
 DRAWING NO.  
UT-D1627  
 SCALE  
AS SHOWN  
 SHEET NO.



**PLAN**



**PROFILE**

- NOTES:  
 1. EXISTING GAS CASING 110"x 4" WITH CASING VENTS ON EACH END. EXTEND EXISTING CASING FROM ROW TO ROW.  
 2. ADD CASING FROM ROW TO ROW.

NOT FOR CONSTRUCTION  
FOR INTERNAL USE ONLY

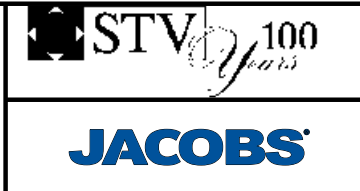
4/30/2019 11:58:24 AM c:\j\p\pwworkdir\haynesma\d0135596\k21-UT-D1628.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. HIGGINS**  
 DRAWN BY  
**C. CUSSON**  
 CHECKED BY  
**C. ADAMS**  
 IN CHARGE  
**K. PIRBAZARI**  
 DATE  
**04/30/2019**

**PEPD  
RECORD SET**

**NOT FOR  
CONSTRUCTION**

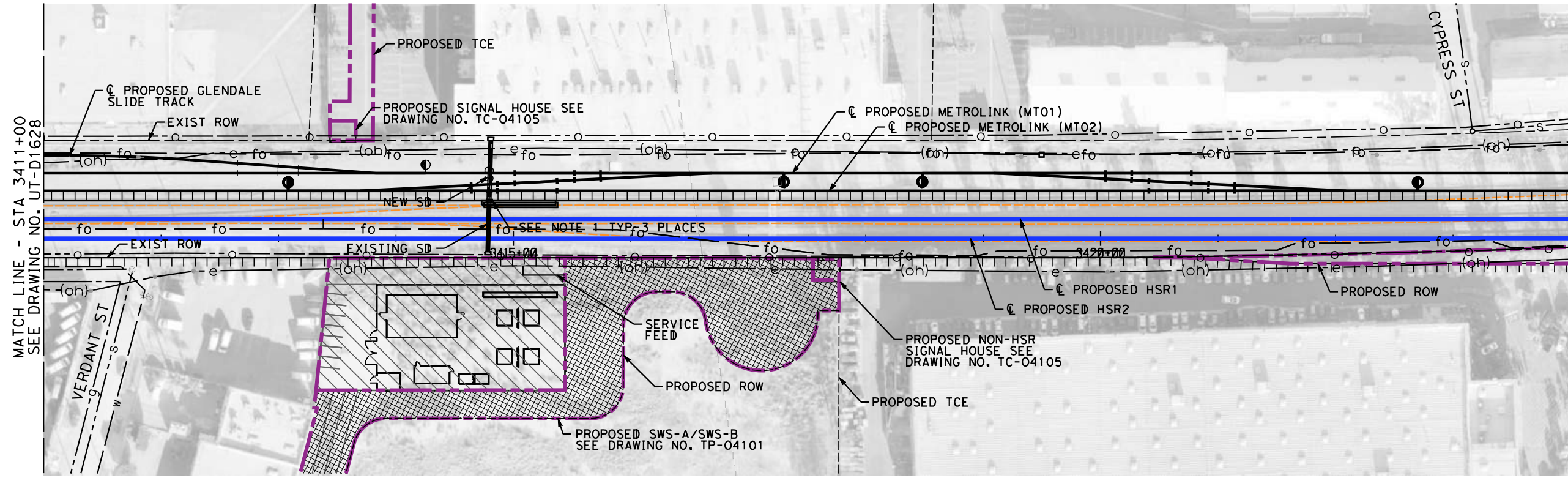


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

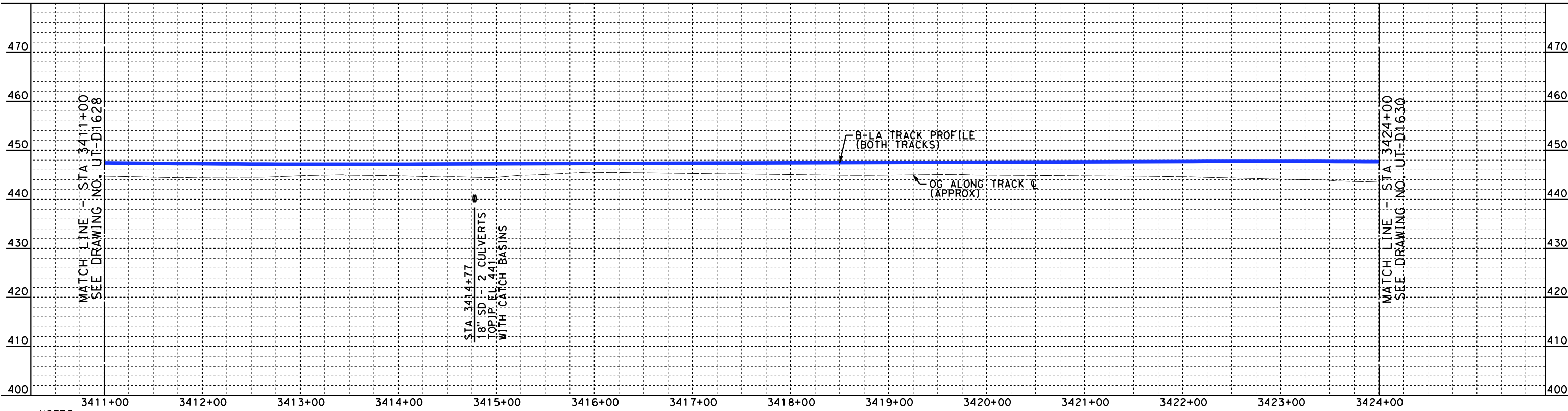
PEPD  
PROPOSED UTILITIES RELOCATION PLAN  
HSR2 3398+00 TO HSR2 3411+00

CONTRACT NO.  
HSR14-39  
 DRAWING NO.  
UT-D1628  
 SCALE  
AS SHOWN  
 SHEET NO.





**PLAN**



**PROFILE**

NOTES:  
 1. NEW CATCH BASINS TYP-3 PLACES WITH STORM DRAIN PIPE BETWEEN TWO NEW CATCH BASINS, TIE IN WITH NEW JUNCTION STRUCTURE.

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 FOR INTERNAL USE ONLY

4/30/2019 11:58:59 AM c:\jip\pwworkdir\haynesma\d0135596\k2l-ut-d1629.dgn haynesma

REV	DATE	BY	CHK	APP	DESCRIPTION

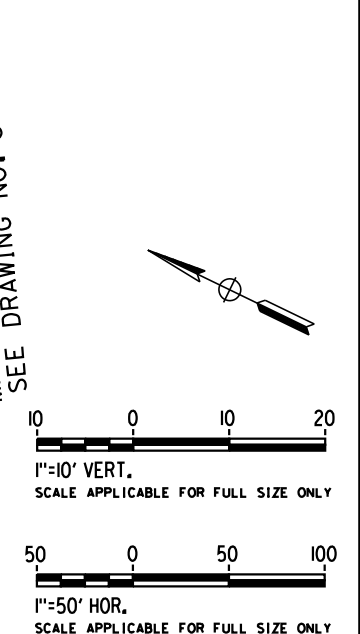
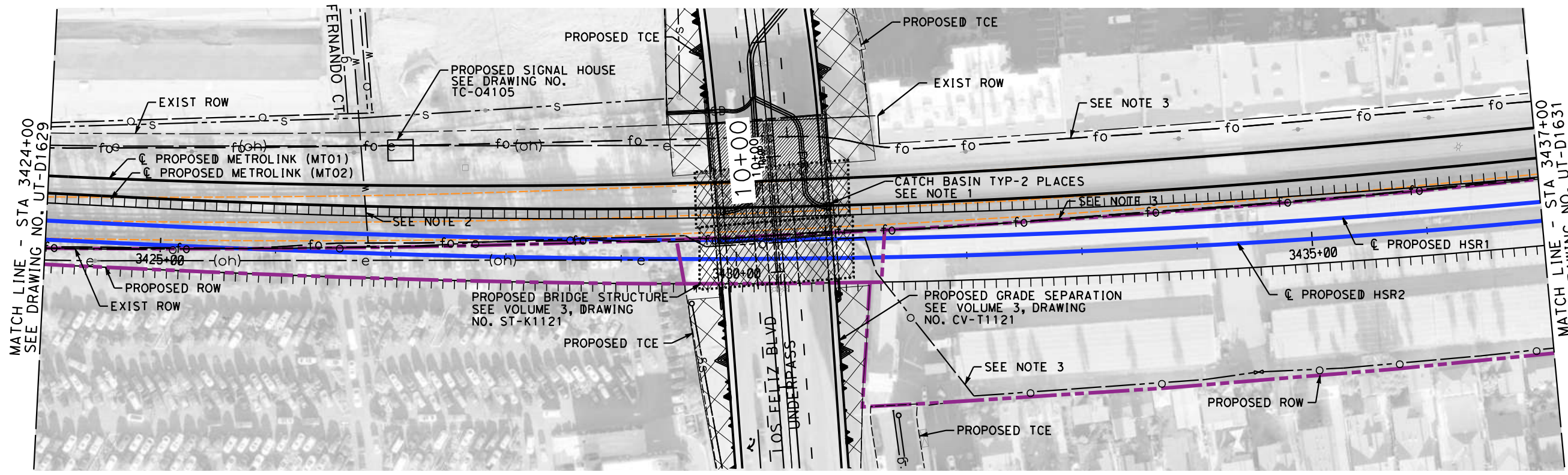
DESIGNED BY  
**J. HIGGINS**  
 DRAWN BY  
**C. CUSSON**  
 CHECKED BY  
**C. ADAMS**  
 IN CHARGE  
**K. PIRBAZARI**  
 DATE  
**04/30/2019**

**PEPD  
 RECORD SET**  
  
**NOT FOR  
 CONSTRUCTION**

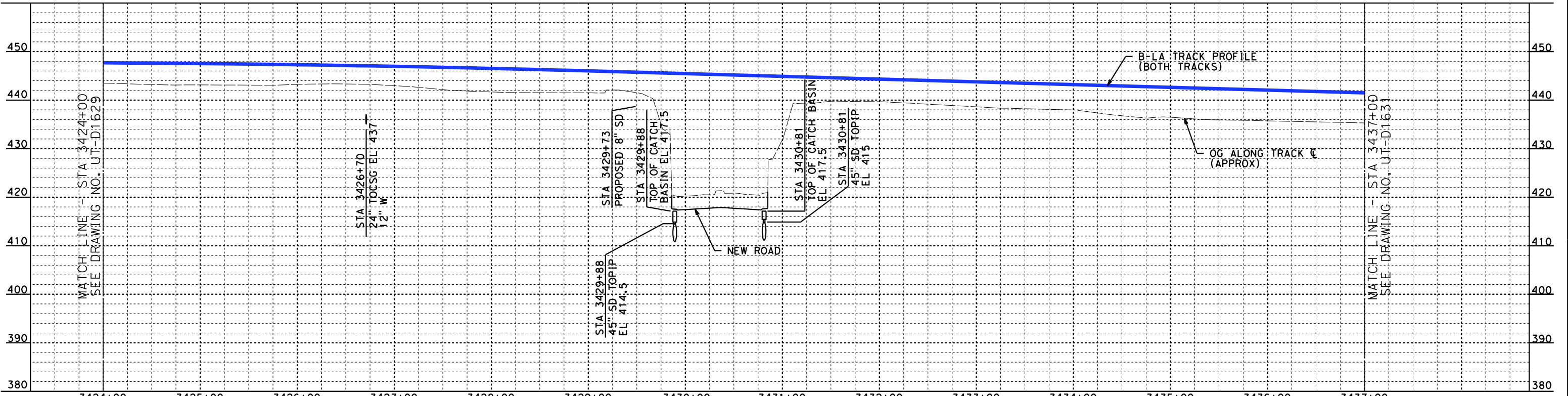


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 BURBANK TO LOS ANGELES**  
  
 PEPD  
 PROPOSED UTILITIES RELOCATION PLAN  
 HSR2 3411+00 TO HSR2 3424+00

CONTRACT NO.  
**HSR14-39**  
 DRAWING NO.  
**UT-D1629**  
 SCALE  
**AS SHOWN**  
 SHEET NO.



**PLAN**



**PROFILE**

NOTES: 3424+00 3425+00 3426+00 3427+00 3428+00 3429+00 3430+00 3431+00 3432+00 3433+00 3434+00 3435+00 3436+00 3437+00  
 1. NEW CATCH BASINS TYP-2 PLACES ON EXISTING STORM DRAIN PIPE. REFER TO DRAWING CV-G117 (VOLUME 4) PER SD CONNECTIONS.  
 2. EXISTING WATER LINE WITH CASING 98" X 24"  
 3. RELOCATE ALONG SAN FERNANDO BLVD.

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4/30/2019 11:59:35 AM c:\j\p\pwworkdir\haynesma\d0135596\k21-UT-D1630.dgn haynesma

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. HIGGINS**  
 DRAWN BY  
**C. CUSSON**  
 CHECKED BY  
**C. ADAMS**  
 IN CHARGE  
**K. PIRBAZARI**  
 DATE  
**04/30/2019**

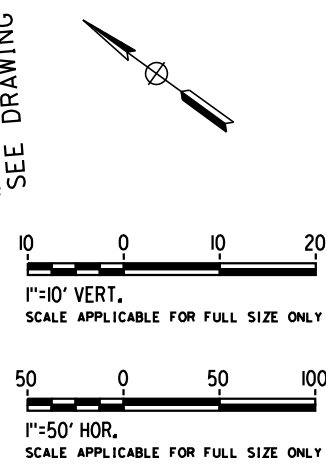
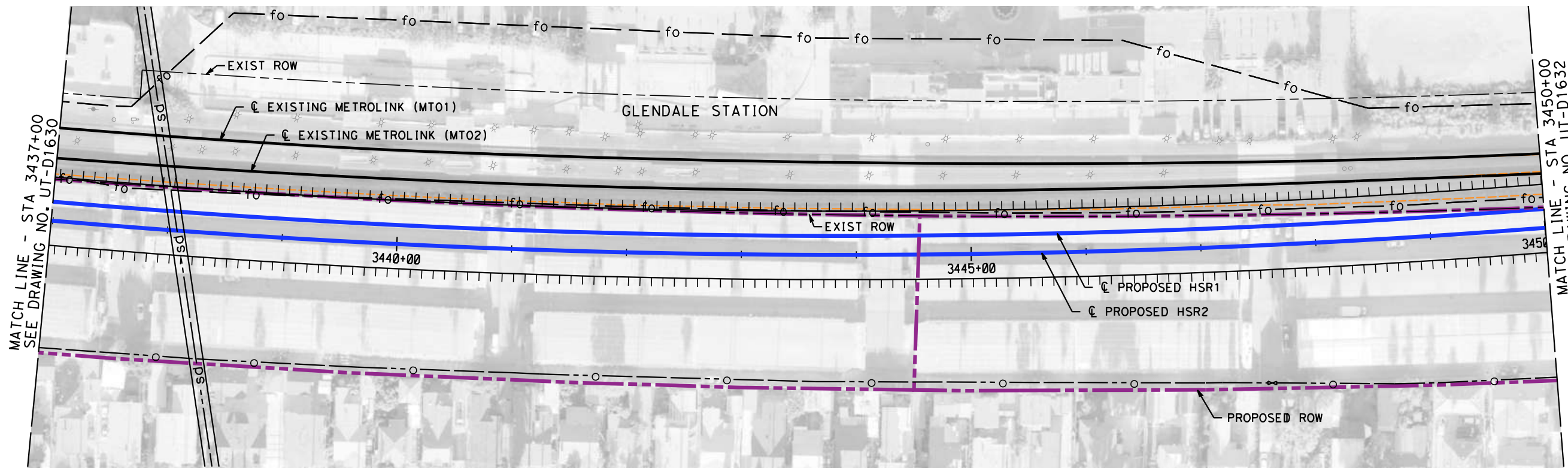
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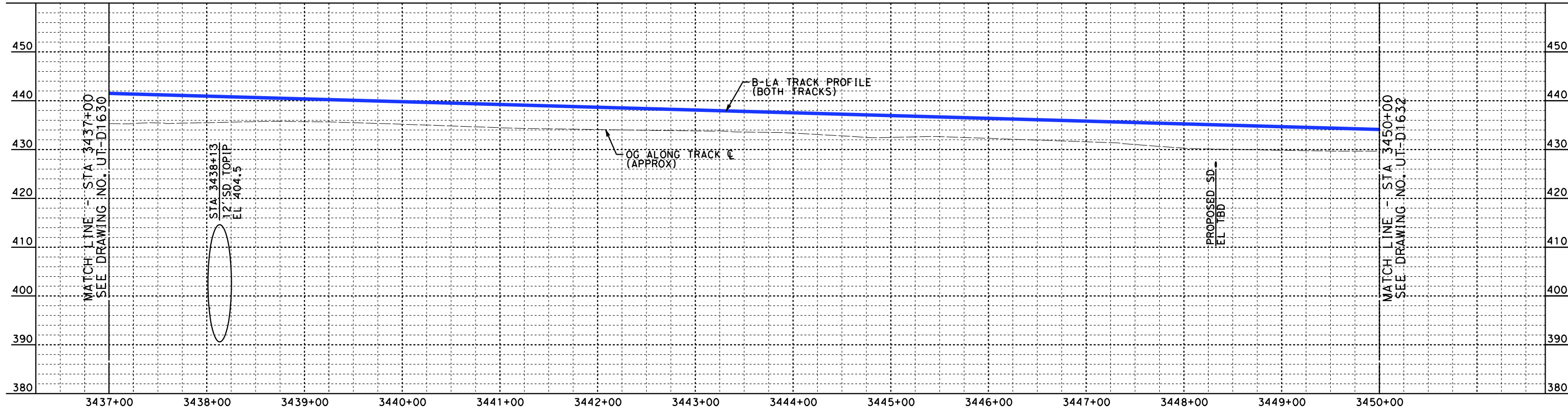
**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
  
 PEPD  
 PROPOSED UTILITIES RELOCATION PLAN  
 HSR2 3424+00 TO HSR2 3437+00

CONTRACT NO.  
HSR14-39  
 DRAWING NO.  
UT-D1630  
 SCALE  
AS SHOWN  
 SHEET NO.





**PLAN**



**PROFILE**

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FOR INTERNAL USE ONLY

4/30/2019 12:00:10 PM c:\j\p\pwworkdir\haynesma\d0135596\k2l-ut-d1631.dgn haynesma

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. HIGGINS**  
DRAWN BY  
**C. CUSSON**  
CHECKED BY  
**C. ADAMS**  
IN CHARGE  
**K. PIRBAZARI**  
DATE  
**04/30/2019**

**PEPD  
RECORD SET**

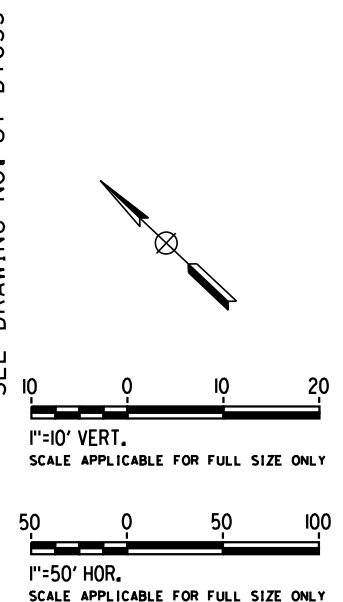
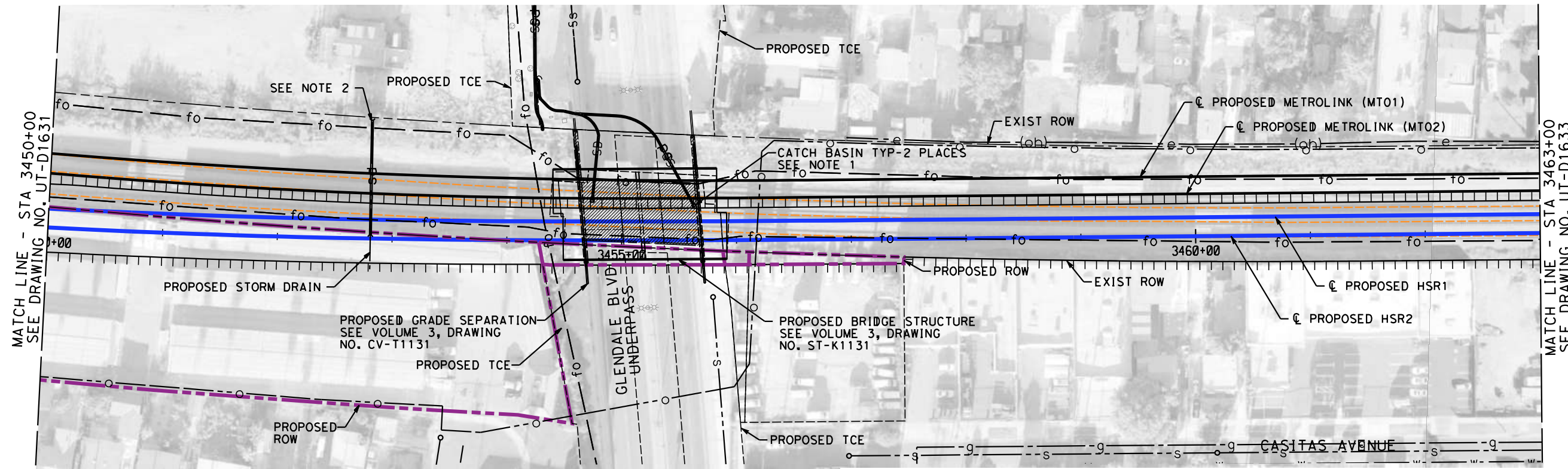
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CONSTRUCTION**



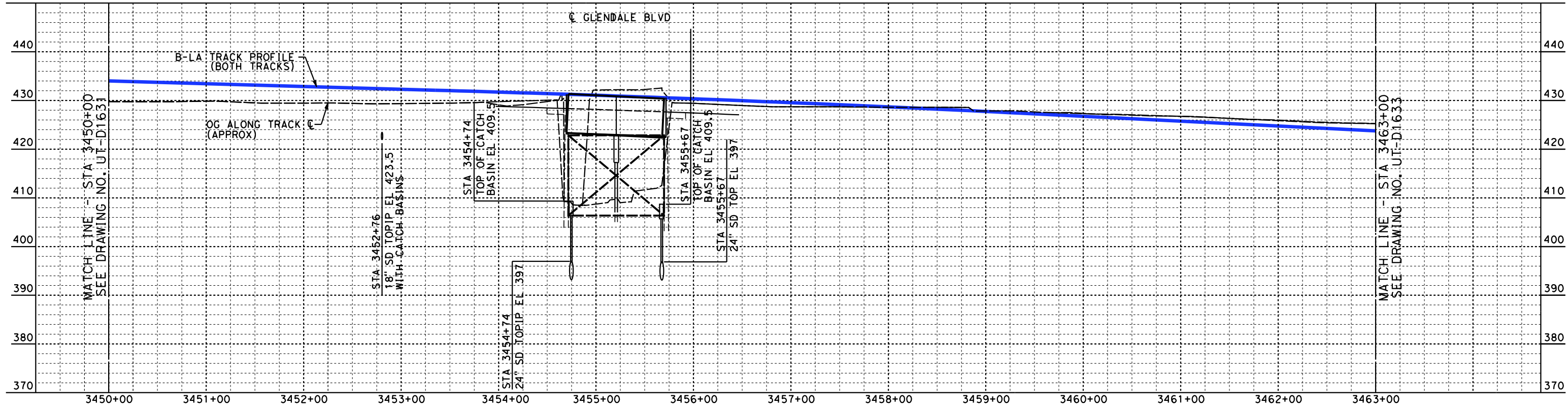
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

PEPD  
PROPOSED UTILITIES PLAN  
HSR2 3437+00 TO HSR2 3450+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-D1631  
SCALE  
AS SHOWN  
SHEET NO.



**PLAN**



**PROFILE**

- NOTES:**
1. NEW CATCH BASINS TYP-2 PLACES ON EXISTING STORM DRAIN PIPE. REFER TO DRAWING CV-G1117 (VOLUME 4) PER SD CONNECTIONS.
  2. EXTEND STORM DRAIN OUTSIDE OF TRACK STRUCTURE.

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4/30/2019 12:00:46 PM c:\j\p\pwworkdir\haynesma\d0135596\k2l-ut-d1632.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. HIGGINS**  
DRAWN BY  
**C. CUSSON**  
CHECKED BY  
**C. ADAMS**  
IN CHARGE  
**K. PIRBAZARI**  
DATE  
**04/30/2019**

**PEPD  
RECORD SET**

**NOT FOR  
CONSTRUCTION**

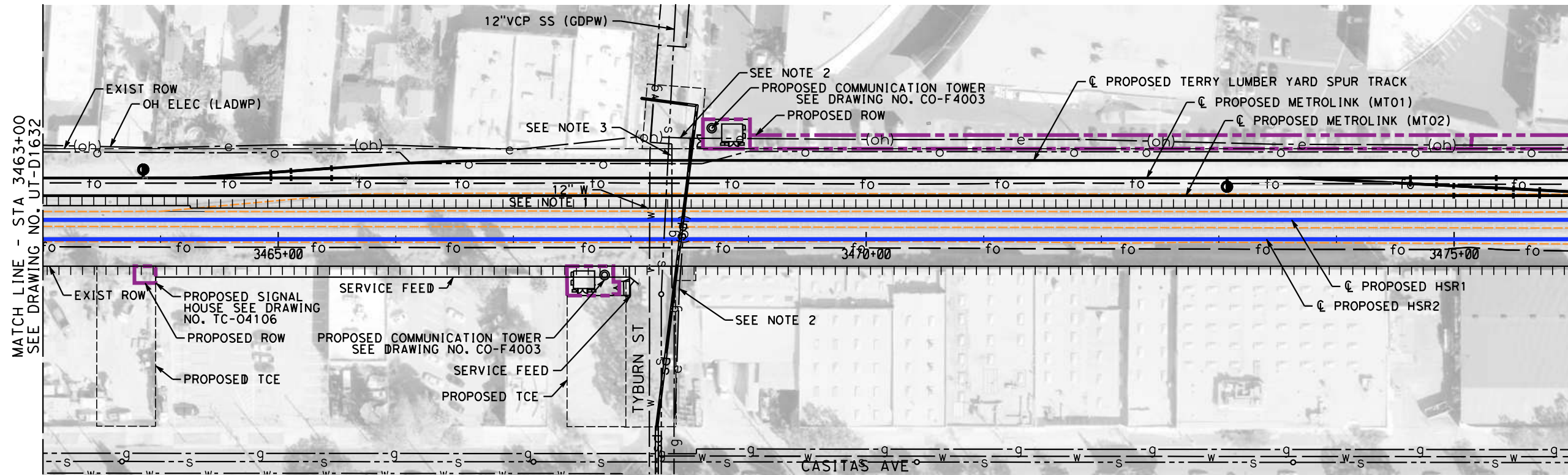


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

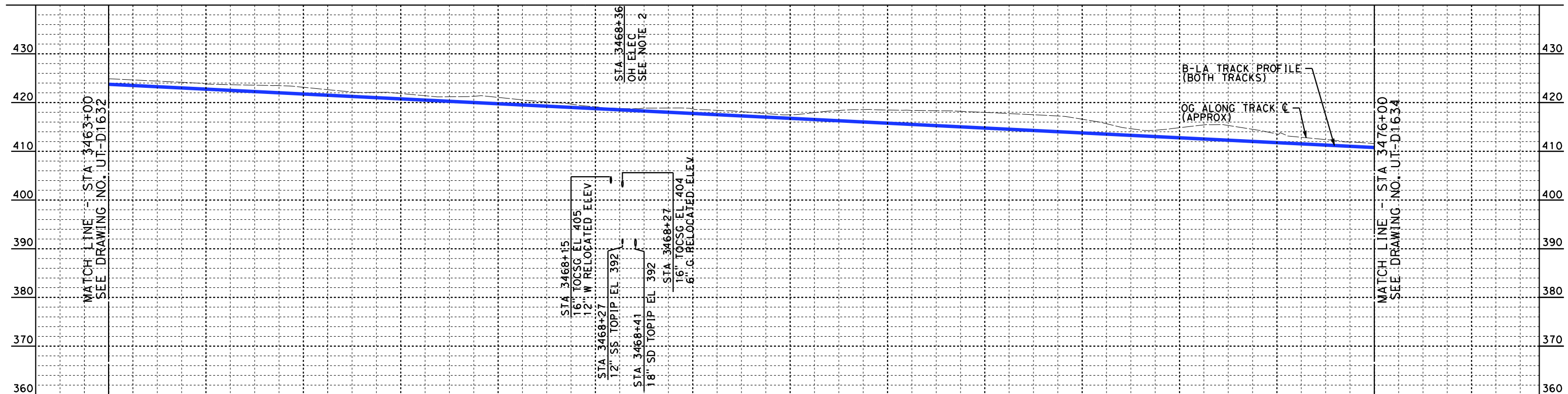
PEPD  
PROPOSED UTILITIES RELOCATION PLAN  
HSR2 3450+00 TO HSR2 3463+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-D1632  
SCALE  
AS SHOWN  
SHEET NO.





**PLAN**



**PROFILE**

- NOTES: 3463+00 3464+00 3465+00 3466+00 3467+00 3468+00 3469+00 3470+00 3471+00 3472+00 3473+00 3474+00 3475+00 3476+00
- EXISTING WATER CASING 100' x 16". EXTEND EXISTING CASING FROM ROW TO ROW.
  - OH POWER WITH LOWEST LINE ON ALL RAISED POLES TO ALLOW 27' CLEARANCE PER HSR STD. TYP-2 PLACES.
  - EXISTING NATURAL GAS CASING 115'x16" WITH CASING VENTS AT EACH END. EXTEND EXISTING CASING FROM ROW TO ROW.

NOT FOR CONSTRUCTION  
FOR INTERNAL USE ONLY

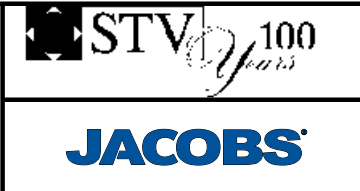
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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. HIGGINS**  
DRAWN BY  
**C. CUSSON**  
CHECKED BY  
**C. ADAMS**  
IN CHARGE  
**K. PIRBAZARI**  
DATE  
**04/30/2019**

**PEPD  
RECORD SET**

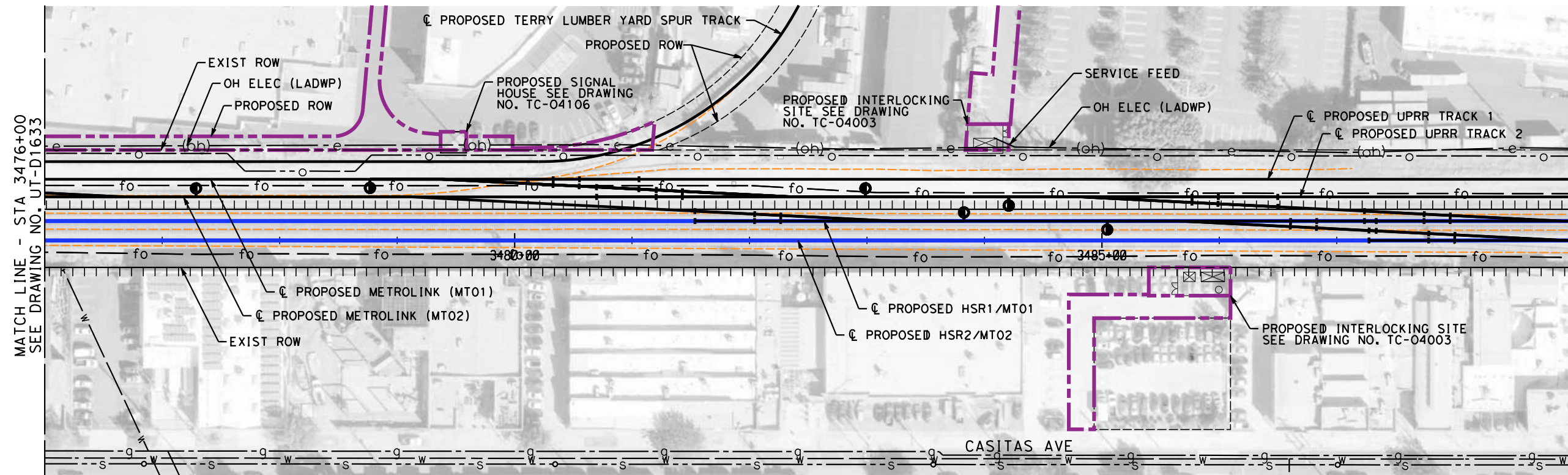
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CONSTRUCTION**



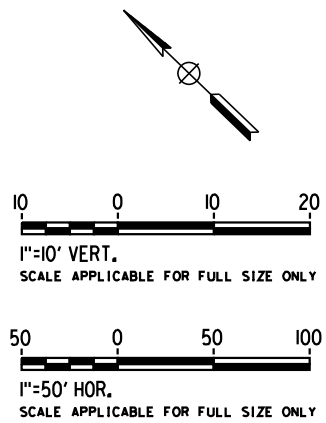
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

PEPD  
PROPOSED UTILITIES RELOCATION PLAN  
HSR2 3463+00 TO HSR2 3476+00

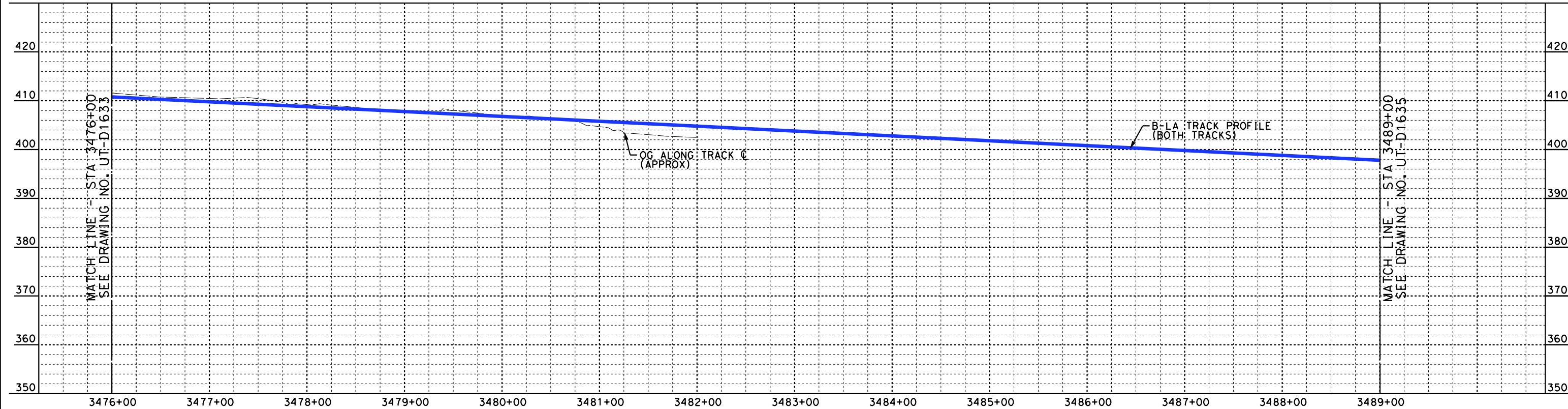
CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-D1633  
SCALE  
AS SHOWN  
SHEET NO.



MATCH LINE - STA 3489+00  
SEE DRAWING NO. UT-D1635



**PLAN**



**PROFILE**

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FOR INTERNAL USE ONLY

4/30/2019 12:01:59 PM c:\j\p\pwworkdir\haynesma\d0135596\k21-UT-D1634.dgn haynesma

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. HIGGINS**  
DRAWN BY  
**C. CUSSON**  
CHECKED BY  
**C. ADAMS**  
IN CHARGE  
**K. PIRBAZARI**  
DATE  
**04/30/2019**

**PEPD  
RECORD SET**

**NOT FOR  
CONSTRUCTION**

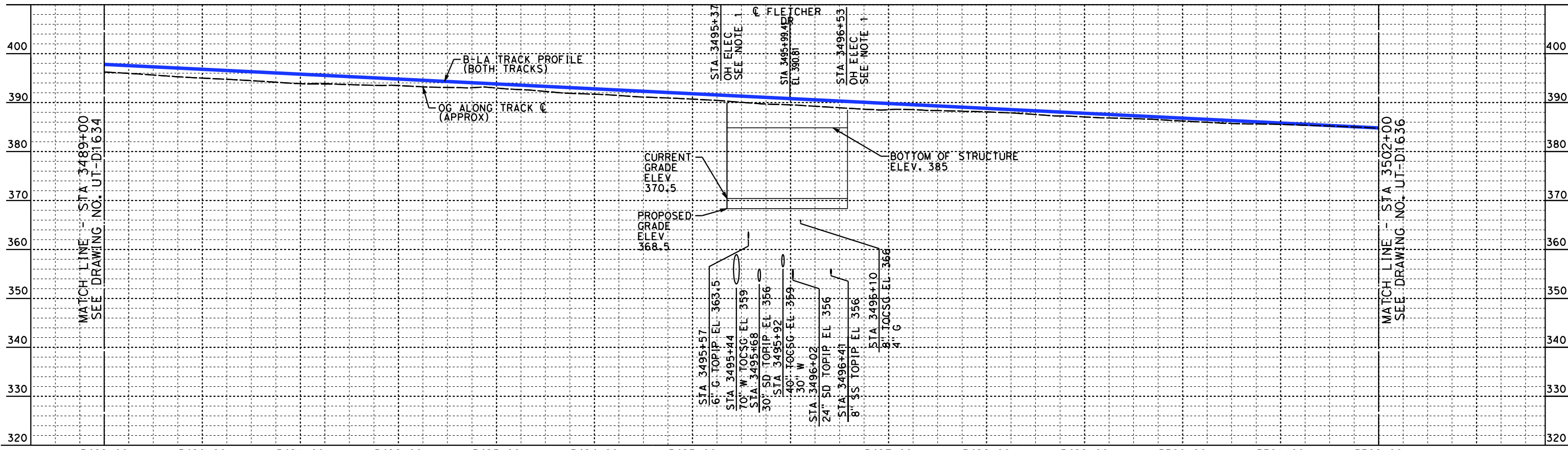
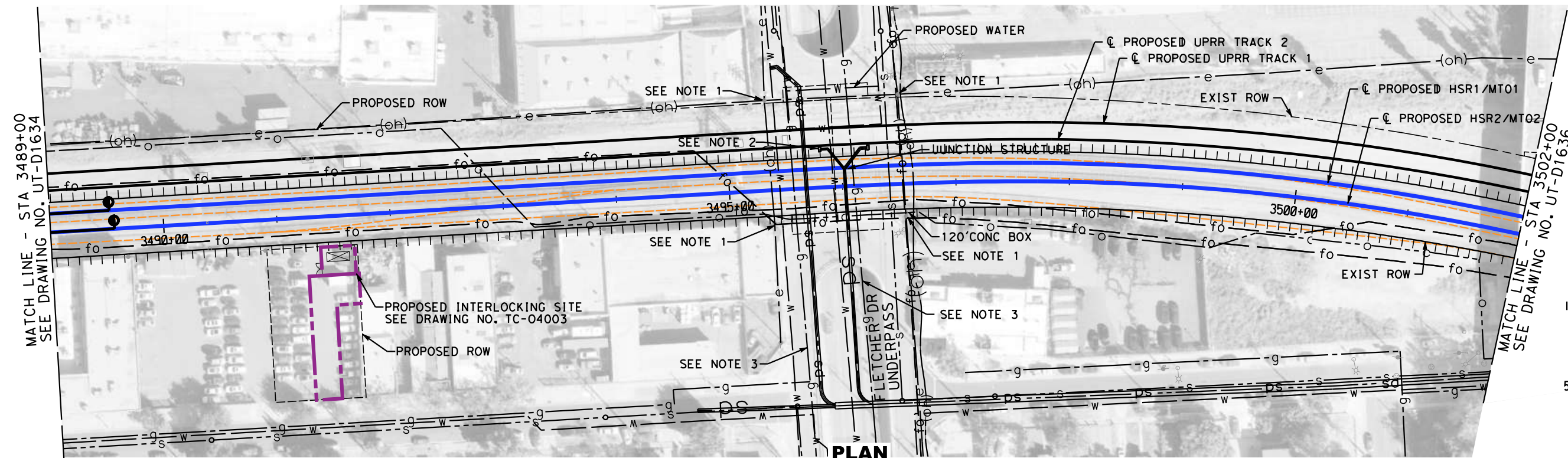


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

PEPD  
PROPOSED UTILITIES RELOCATION PLAN  
HSR2 3476+00 TO HSR2 3489+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-D1634  
SCALE  
AS SHOWN  
SHEET NO.





NOTES: 3489+00 3490+00 3491+00 3492+00 3493+00 3494+00 3495+00 3496+00 3497+00 3498+00 3499+00 3500+00 3501+00 3502+00

- OH TELEPHONE POWER WITH THE LOWEST LINE ON ALL RAISED POLES TO ALLOW 27' CLEARANCE PER HSR STD. TYP-4 POLES.
- NEW CATCH BASINS TYP-2 PLACED ON EXISTING STORM DRAIN PIPE.
- ADD CASING FROM ROW TO ROW

**PROFILE**

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4/30/2019 12:02:35 PM c:\jip\pwworkdir\haynesma\d0135596\k21-UT-D1635.dgn haynesma

REV	DATE	BY	CHK	APP	DESCRIPTION

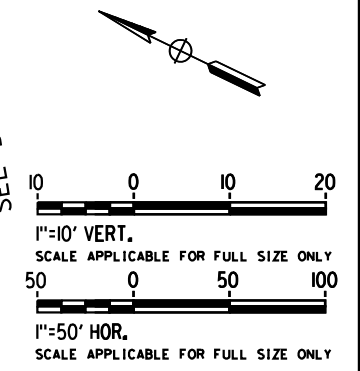
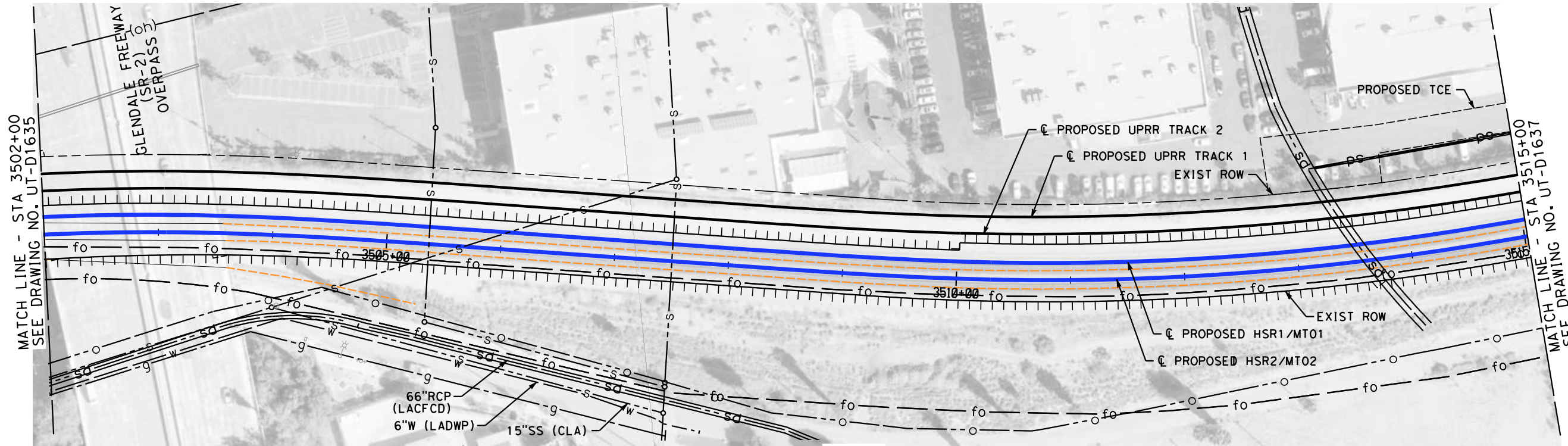
DESIGNED BY  
**J. HIGGINS**  
DRAWN BY  
**C. CUSSON**  
CHECKED BY  
**C. ADAMS**  
IN CHARGE  
**K. PIRBAZARI**  
DATE  
**04/30/2019**

**PEPD RECORD SET**  
  
**NOT FOR CONSTRUCTION**

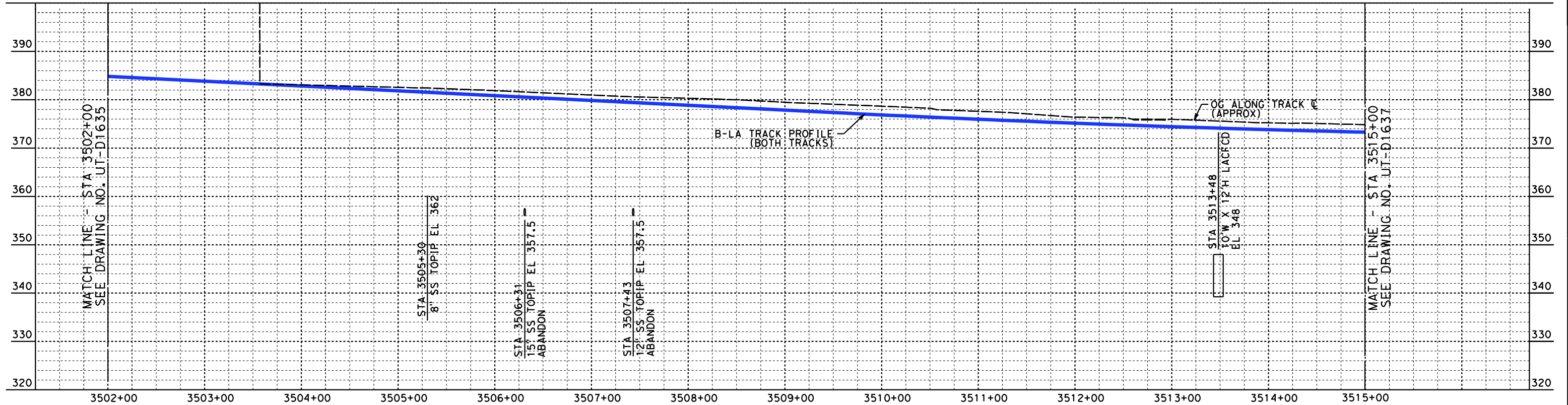


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
  
PEPD  
PROPOSED UTILITY RELOCATION PLAN  
HSR2 3489+00 TO HSR2 3502+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-D1635  
SCALE  
AS SHOWN  
SHEET NO.



**PLAN**



**PROFILE**

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. HIGGINS**  
DRAWN BY  
**C. CUSSON**  
CHECKED BY  
**C. ADAMS**  
IN CHARGE  
**K. PIRBAZARI**  
DATE  
**04/30/2019**

**PEPD  
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**NOT FOR  
CONSTRUCTION**

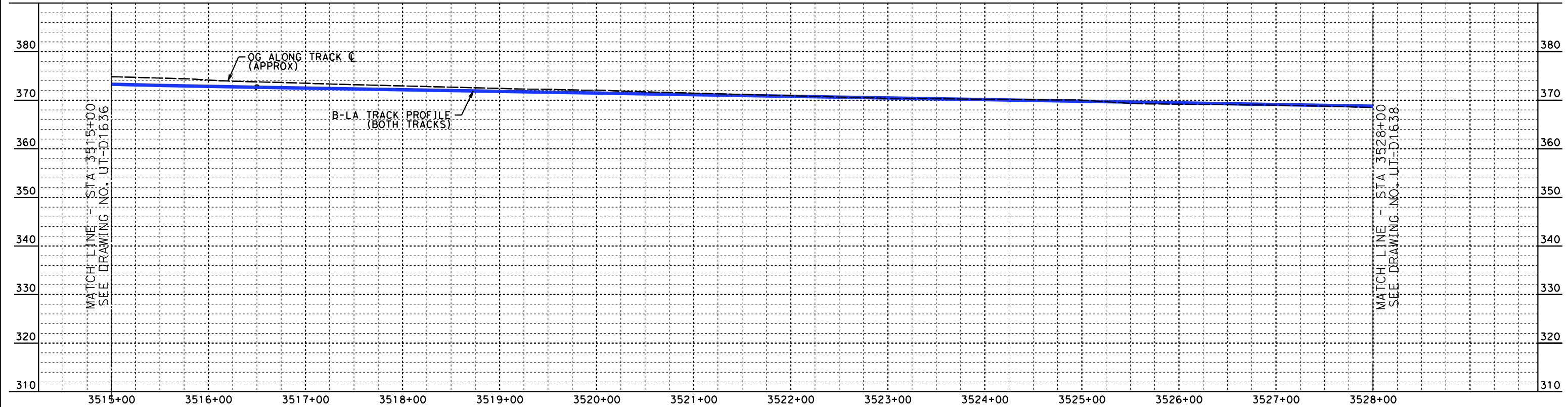
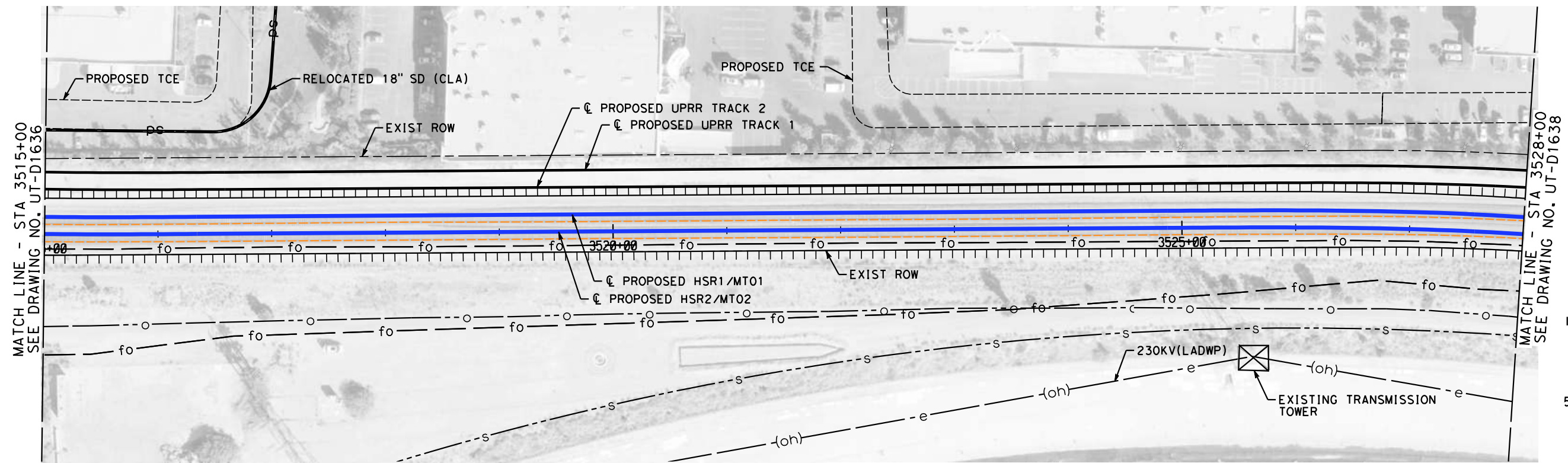


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

PEPD  
PROPOSED UTILITIES RELOCATION PLAN  
HSR2 3502+00 TO HSR2 3515+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-D1636  
SCALE  
AS SHOWN  
SHEET NO.





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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. HIGGINS**

DRAWN BY  
**C. CUSSON**

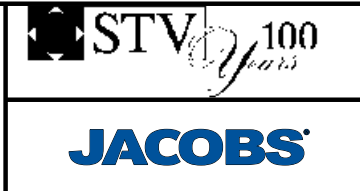
CHECKED BY  
**C. ADAMS**

IN CHARGE  
**K. PIRBAZARI**

DATE  
**04/30/2019**

**PEPD  
RECORD SET**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**

**BURBANK TO LOS ANGELES**

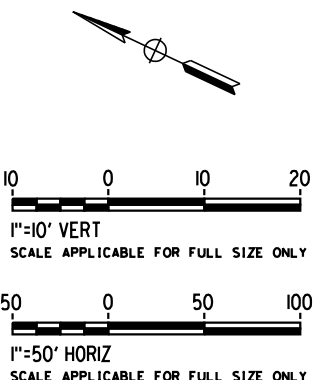
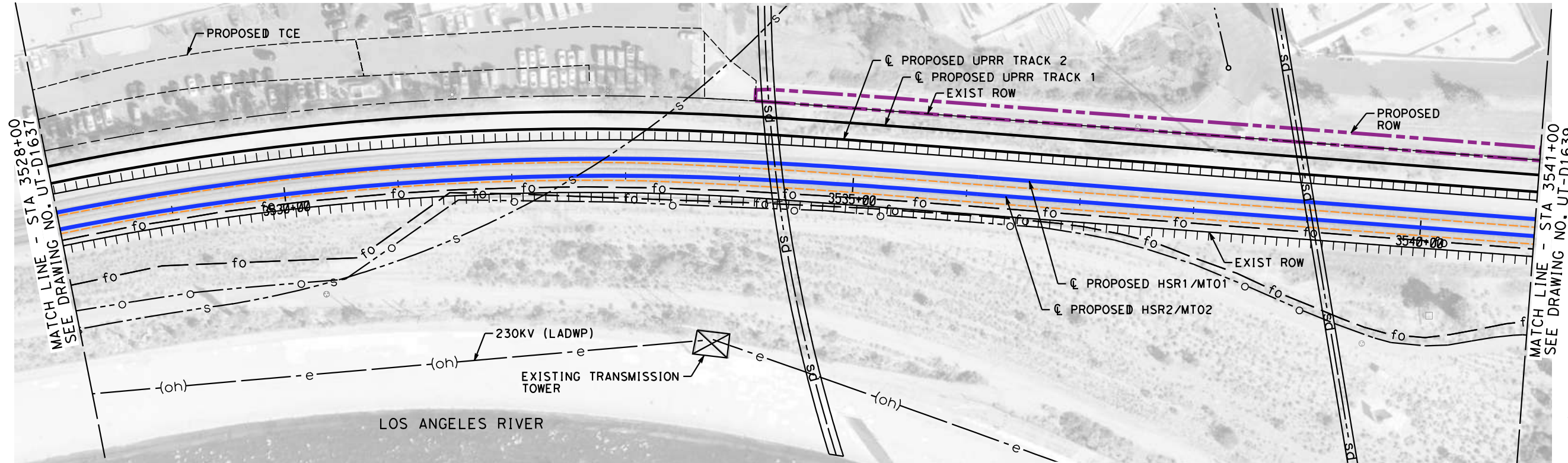
PEPD  
PROPOSED UTILITIES RELOCATION PLAN  
HSR2 3515+00 TO HSR2 3528+00

CONTRACT NO.  
HSR14-39

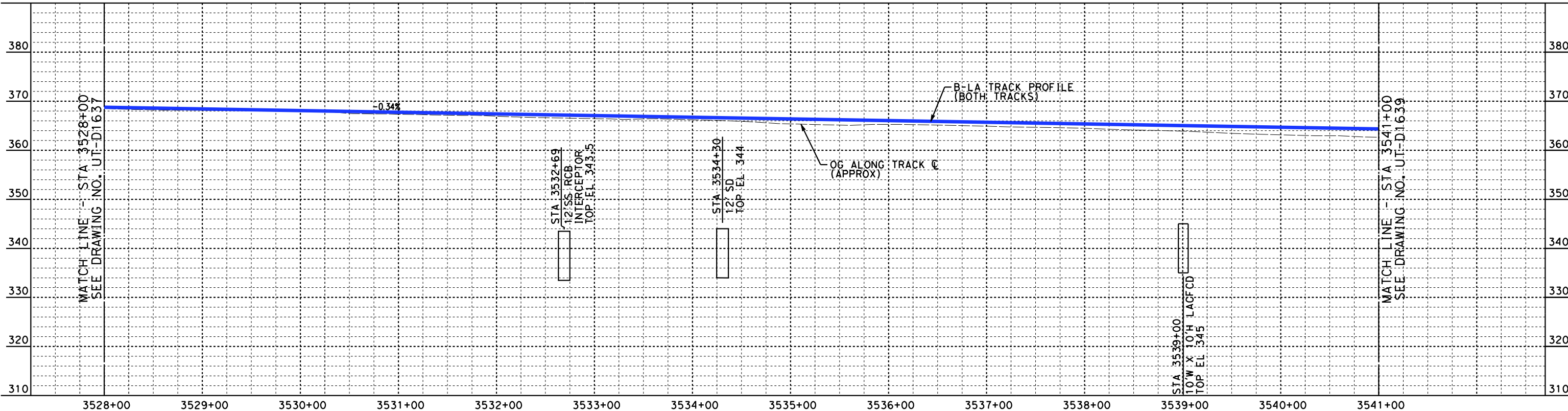
DRAWING NO.  
UT-D1637

SCALE  
AS SHOWN

SHEET NO.



**PLAN**



**PROFILE**

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. HIGGINS**

DRAWN BY  
**C. CUSSON**

CHECKED BY  
**C. ADAMS**

IN CHARGE  
**K. PIRBAZARI**

DATE  
**04/30/2019**

**PEPD  
RECORD SET**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**

**BURBANK TO LOS ANGELES**

PEPD  
PROPOSED UTILITIES RELOCATION PLAN  
HSR2 3528+00 TO HSR2 3541+00

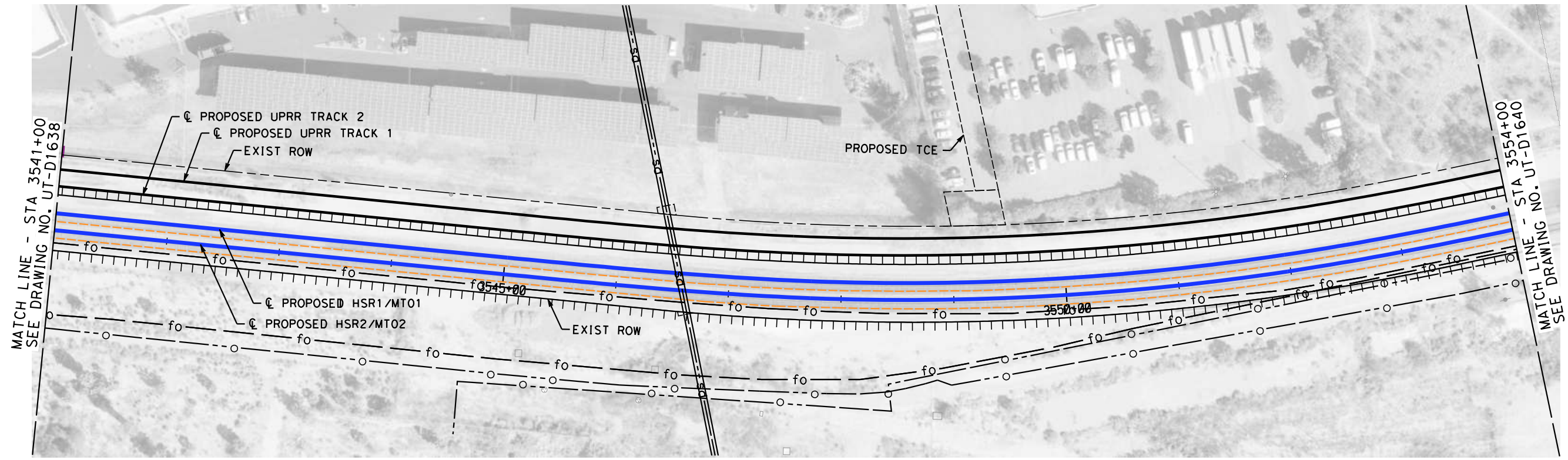
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DRAWING NO.  
UT-D1638

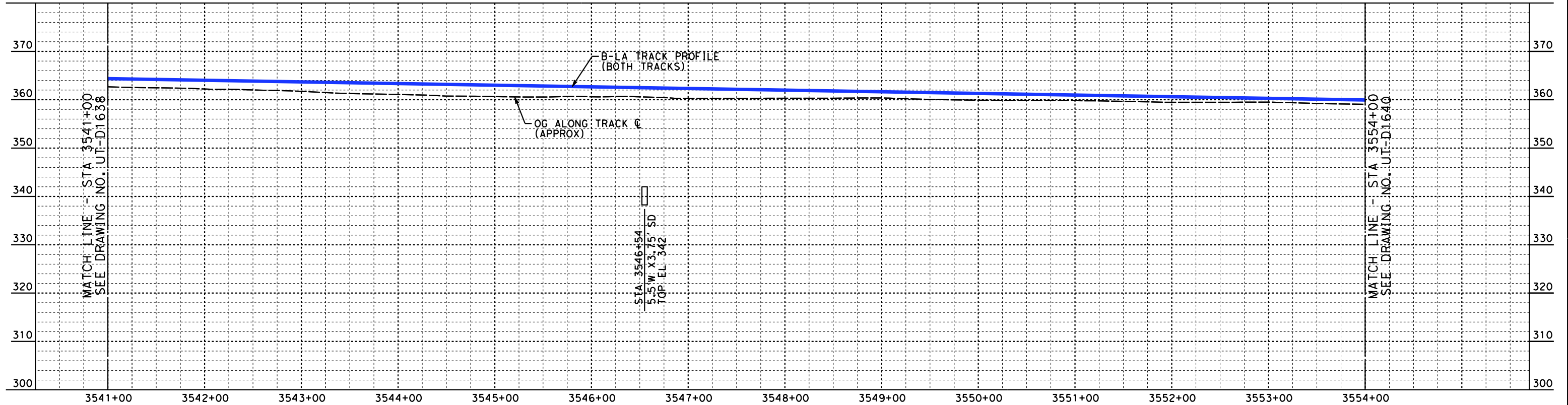
SCALE  
AS SHOWN

SHEET NO.





**PLAN**



**PROFILE**

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. HIGGINS**  
DRAWN BY  
**C. CUSSON**  
CHECKED BY  
**C. ADAMS**  
IN CHARGE  
**K. PIRBAZARI**  
DATE  
**04/30/2019**

**PEPD  
RECORD SET**

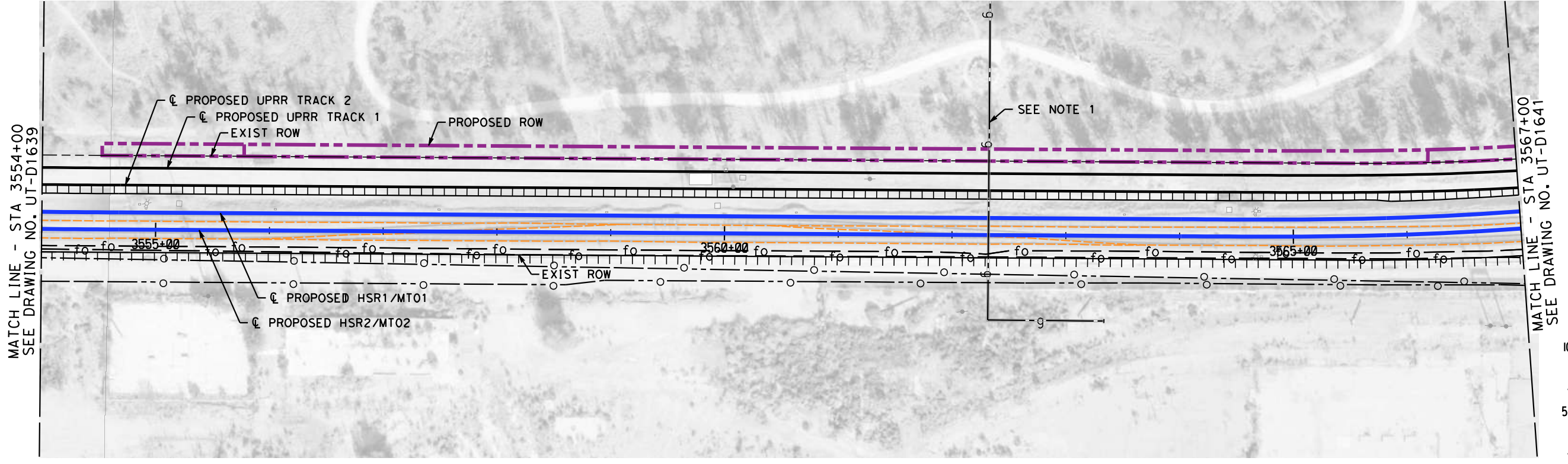
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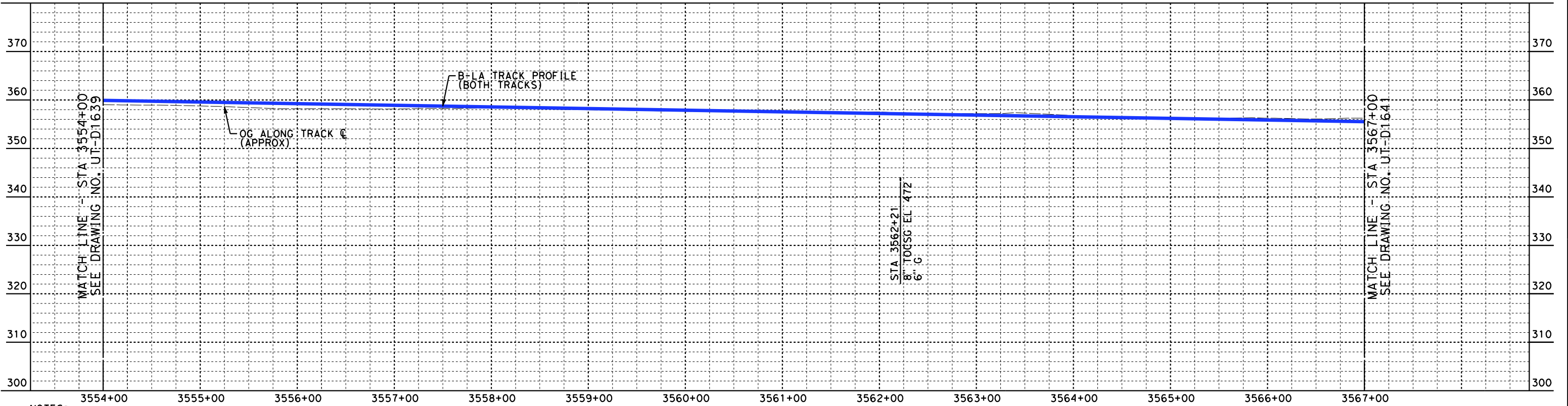
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

PEPD  
PROPOSED UTILITIES RELOCATION PLAN  
HSR2 3541+00 TO HSR2 3554+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-D1639  
SCALE  
AS SHOWN  
SHEET NO.



**PLAN**



**PROFILE**

NOTES:  
 1. EXISTING NATURAL GAS CASING 100'x8" WITH CASING VENTS ON EACH END OF ROW. EXTEND EXISTING CASING FROM ROW TO ROW.

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. HIGGINS**  
 DRAWN BY  
**C. CUSSON**  
 CHECKED BY  
**C. ADAMS**  
 IN CHARGE  
**K. PIRBAZARI**  
 DATE  
**04/30/2019**

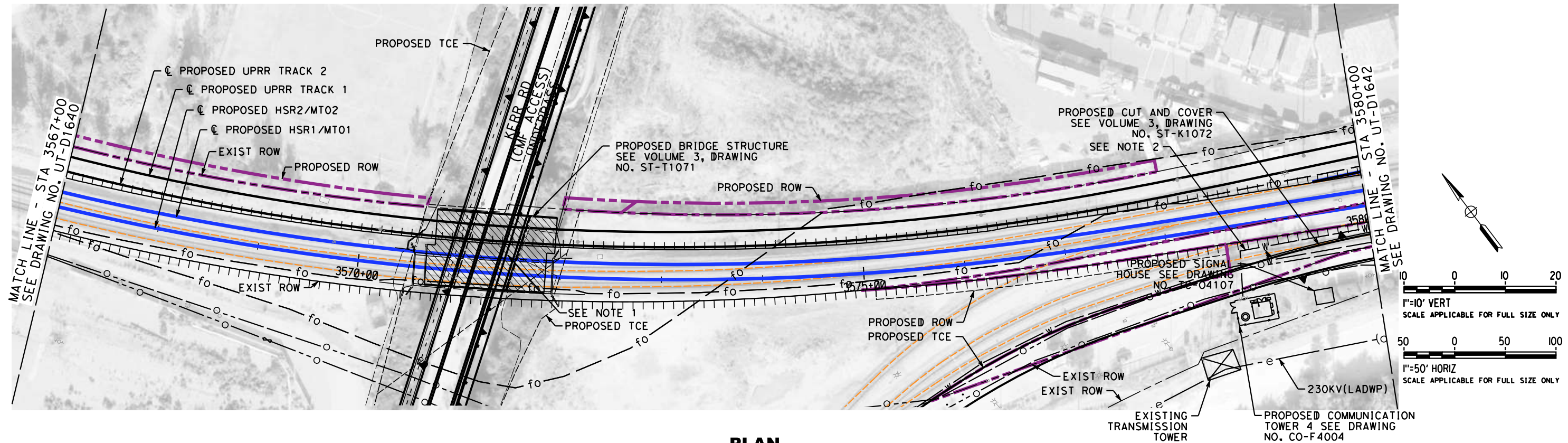
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**NOT FOR CONSTRUCTION**



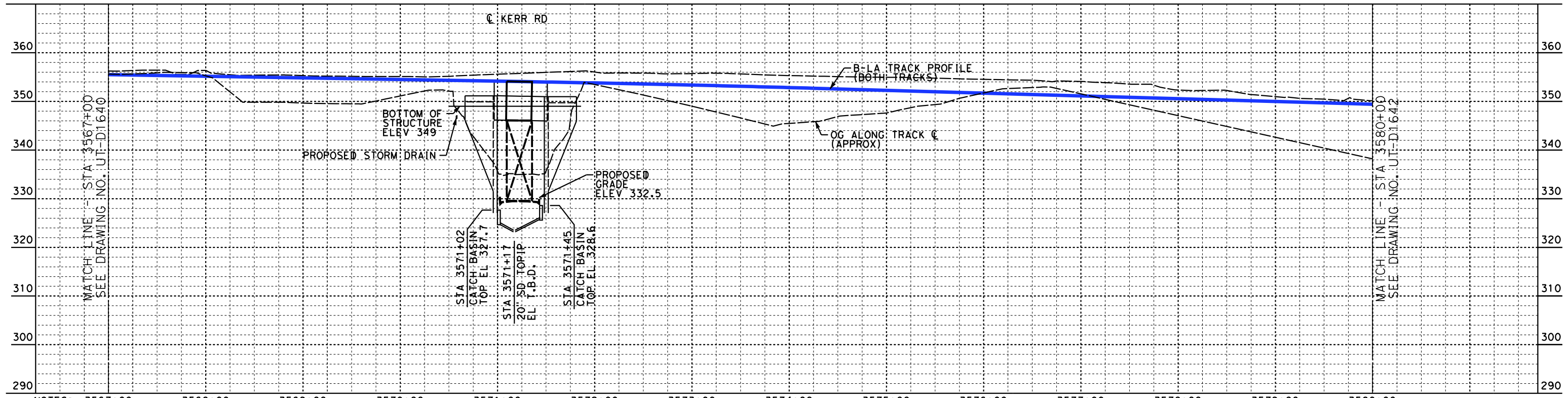
**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
  
 PEPD  
 COMPOSITE UTILITIES RELOCATION PLAN  
 HSR2 3554+00 TO HSR2 3567+00

CONTRACT NO.  
 HSR14-39  
 DRAWING NO.  
 UT-D1640  
 SCALE  
 AS SHOWN  
 SHEET NO.





**PLAN**



**PROFILE**

NOTES: 3567+00 3568+00 3569+00 3570+00 3571+00 3572+00 3573+00 3574+00 3575+00 3576+00 3577+00 3578+00 3579+00 3580+00  
 1. NEW CATCH BASINS TYP-2 PLACES ATTACHED TO 20" STORM DRAIN IN CENTER OF STREET. ELEVATION TO BE DETERMINED. 2. RELOCATE WATER OUTSIDE CUT & COVER

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4/30/2019 12:06:32 PM c:\j\p\pwworkdir\haynesma\d0135596\k2l-ut-d1641.dgn haynesma

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. HIGGINS**  
 DRAWN BY  
**C. CUSSON**  
 CHECKED BY  
**C. ADAMS**  
 IN CHARGE  
**K. PIRBAZARI**  
 DATE  
**04/30/2019**

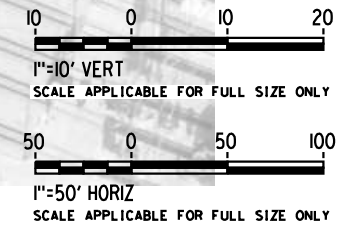
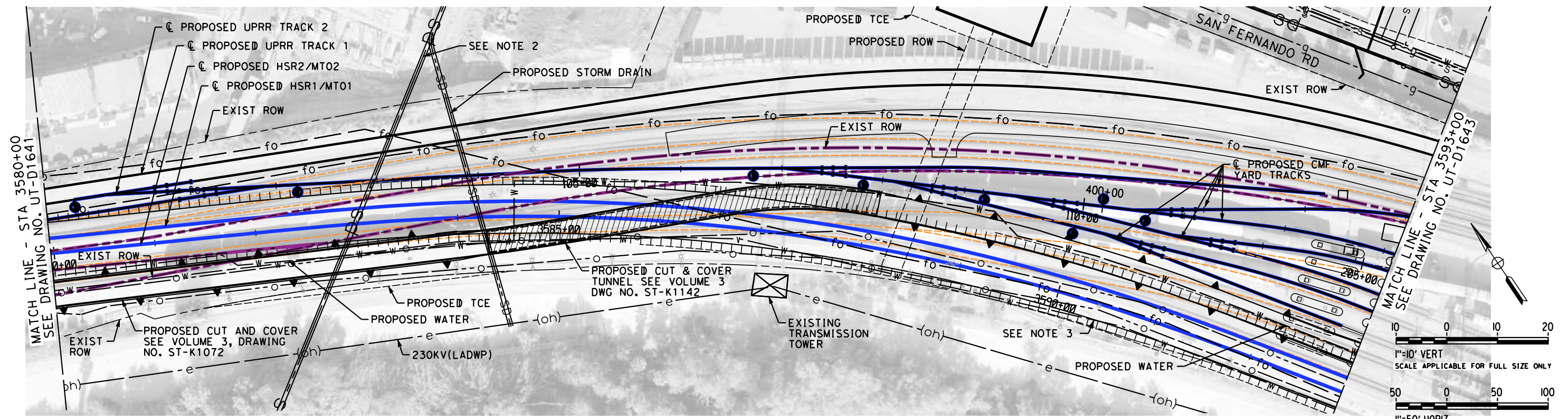
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**NOT FOR CONSTRUCTION**



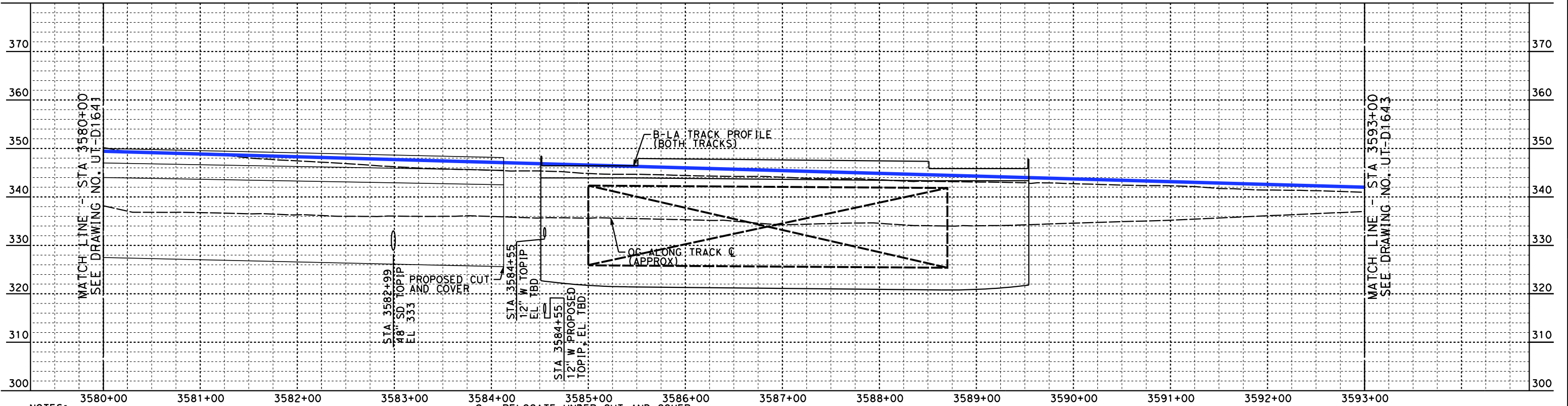
**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
  
 PEPD  
 PROPOSED UTILITIES RELOCATION PLAN  
 HSR2 3567+00 TO HSR2 3580+00

CONTRACT NO.  
HSR14-39  
 DRAWING NO.  
UT-D1641  
 SCALE  
AS SHOWN  
 SHEET NO.





**PLAN**



**PROFILE**

- NOTES:**
- ADD NEW CASING TO ALL FIRE, WATER & GAS LINES IN TAYLOR YARD. ALL CASING ARE FROM ROW TO ROW.
  - RELOCATE UNDER CUT AND COVER
  - RELOCATE 12" WATER (LADWP)

REFERENCE DWG SEE VOL5 UT-D1640

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4/30/2019 12:07:13 PM c:\jip\pwworkdir\haynesma\d01355596\k2l-ut-d1642.dgn haynesma

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. HIGGINS**  
DRAWN BY  
**C. CUSSON**  
CHECKED BY  
**C. ADAMS**  
IN CHARGE  
**K. PIRBAZARI**  
DATE  
**04/30/2019**

**PEPD  
RECORD SET**

**NOT FOR  
CONSTRUCTION**

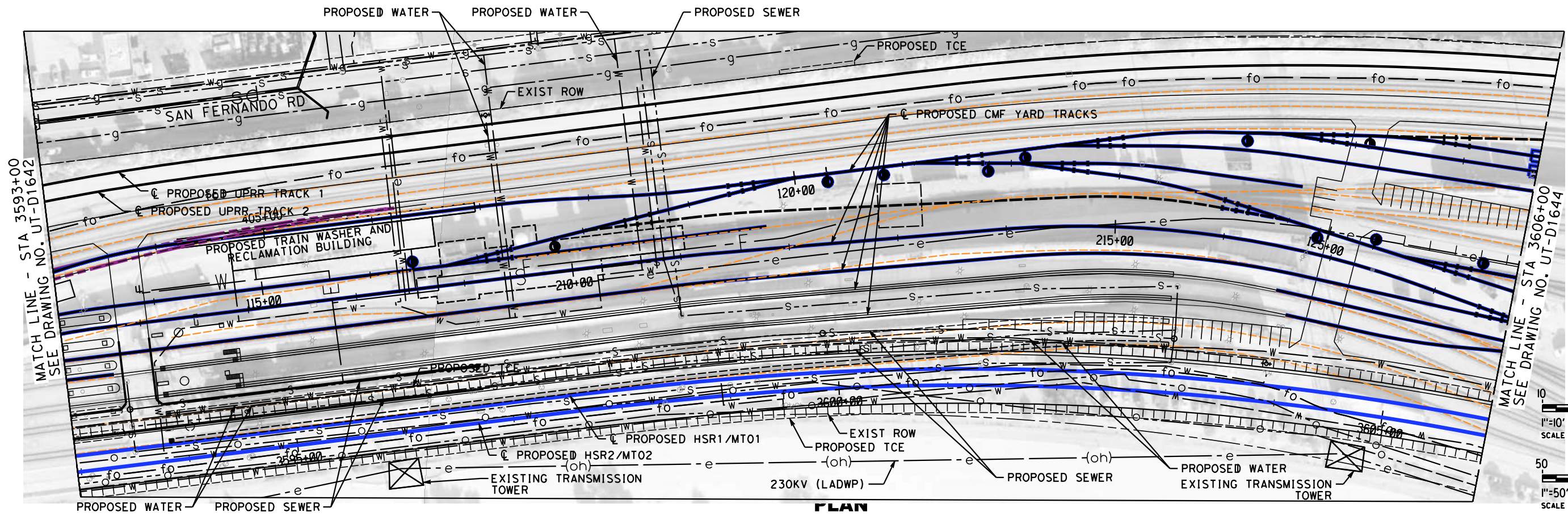


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

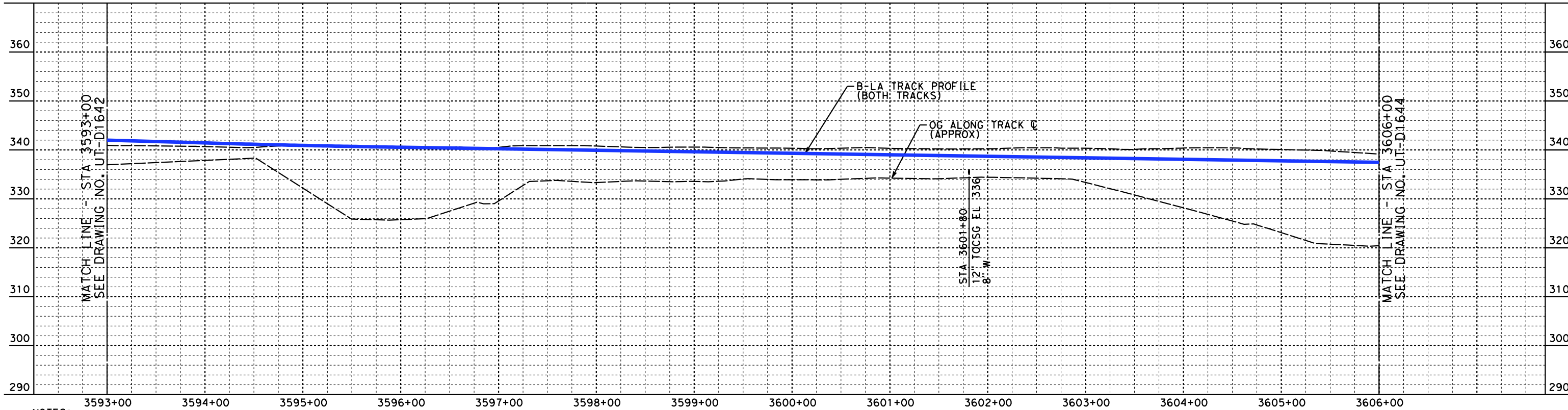
PEPD  
PROPOSED UTILITIES RELOCATION PLAN  
HSR2 3580+00 TO HSR2 3593+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-D1642  
SCALE  
AS SHOWN  
SHEET NO.





**PLAN**



**PROFILE**

NOTES:  
 1. ADD NEW CASINGS TO ALL FIRE, WATER & GAS LINES IN TAYLOR YARD.  
 ALL CASINGS ARE FROM ROW TO ROW.

REFERENCE DWG SEE VOLUME 5 UT-D1641  
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4/30/2019 12:07:57 PM c:\jip\pwworkdir\haynesma\d0135596\k21-UT-D1643.dgn haynesma

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. HIGGINS**  
 DRAWN BY  
**C. CUSSON**  
 CHECKED BY  
**C. ADAMS**  
 IN CHARGE  
**K. PIRBAZARI**  
 DATE  
**04/30/2019**

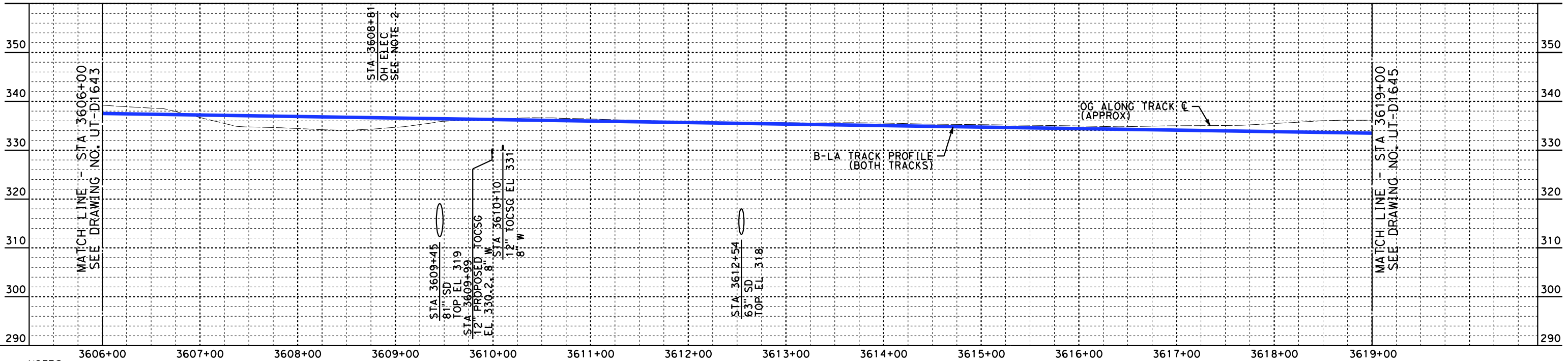
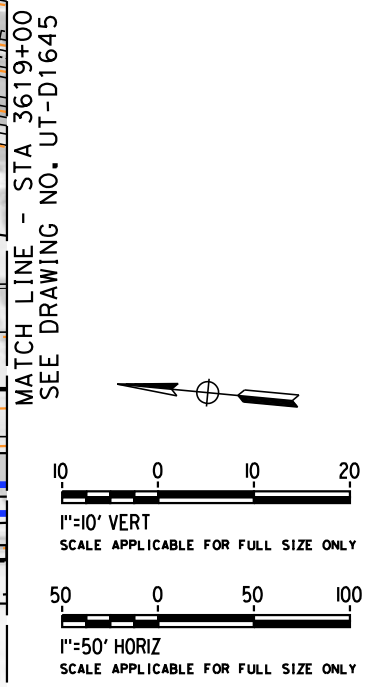
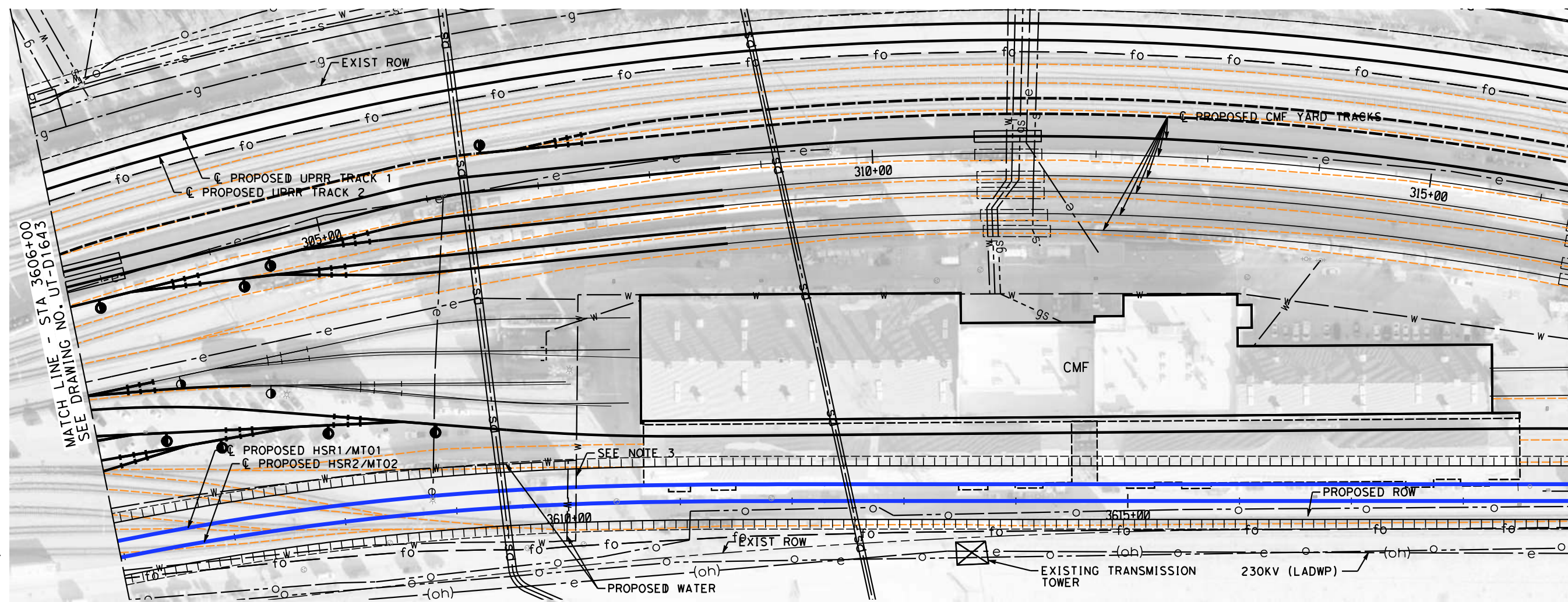
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**NOT FOR CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
  
 PEPD  
 PROPOSED UTILITIES RELOCATION PLAN  
 HSR2 3593+00 TO HSR2 3606+00

CONTRACT NO.  
**HSR14-39**  
 DRAWING NO.  
**UT-D1643**  
 SCALE  
**AS SHOWN**  
 SHEET NO.





- NOTES:**
- ADD NEW CASINGS TO ALL FIRE, WATER & GAS LINES IN YARD. ALL CASINGS ARE FROM ROW TO ROW.
  - OH POWER WITH LOWEST ON ALL RAISED POLES TO ALLOW 27' CLEARANCE PER HSR STD.
  - CONNECT TO EXISTING 8" WATER

**PROFILE**

NOT FOR CONSTRUCTION  
REFERENCE DWG SEE VOL5 UT-1642 FOR INTERNAL USE ONLY

4/30/2019 12:08:35 PM c:\j\p\work\dir\haynesma\d0135596\k2l-ut-d1644.dgn haynesma

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. HIGGINS**  
DRAWN BY  
**C. CUSSON**  
CHECKED BY  
**C. ADAMS**  
IN CHARGE  
**K. PIRBAZARI**  
DATE  
**04/30/2019**

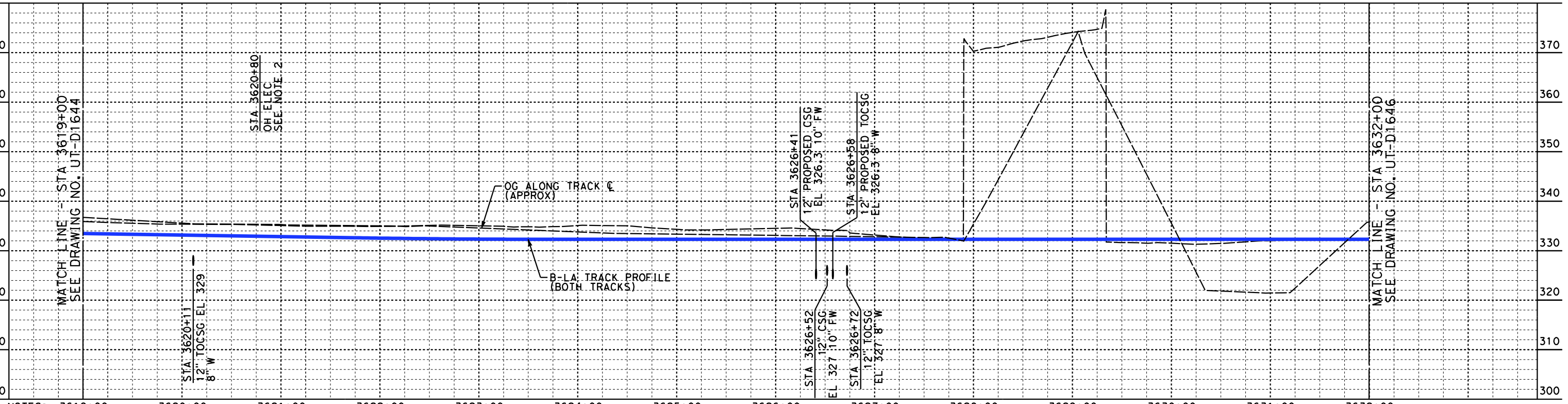
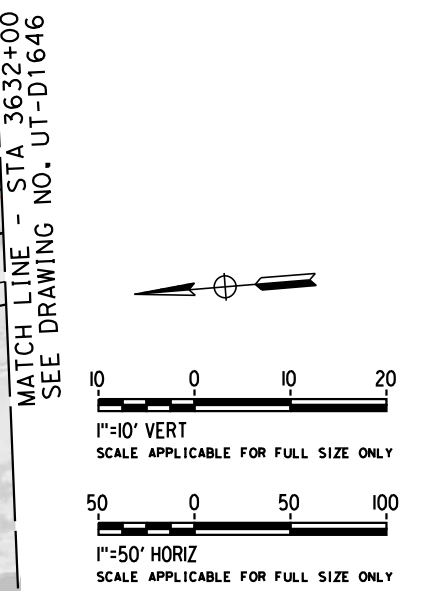
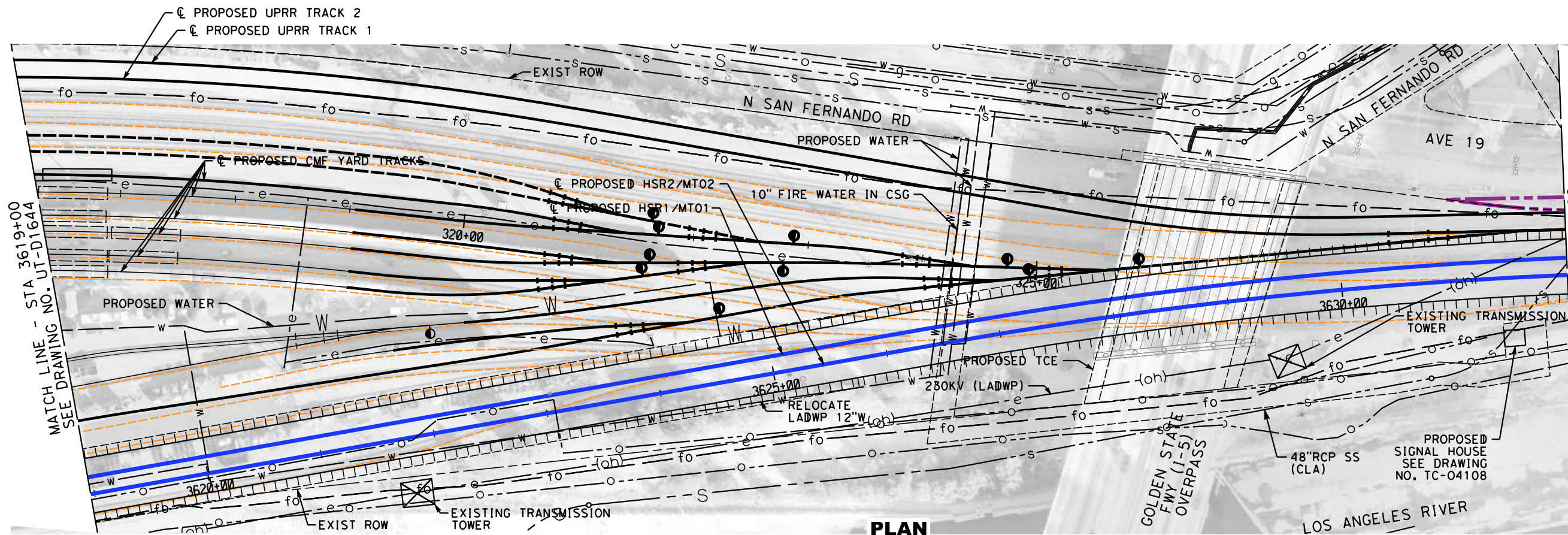
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**NOT FOR CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
  
PEPD  
PROPOSED UTILITIES RELOCATION PLAN  
HSR2 3606+00 TO HSR2 3619+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-D1644  
SCALE  
AS SHOWN  
SHEET NO.





NOTES: 3619+00 3620+00 3621+00 3622+00 3623+00 3624+00 3625+00 3626+00 3627+00 3628+00 3629+00 3630+00 3631+00 3632+00  
 1. ADD NEW CASINGS TO ALL FIRE, WATER & GAS LINES IN YARD. ALL CASINGS ARE FROM ROW TO ROW.  
 2. OH POWER WITH LOWEST ON ALL RAISED POLES TO ALLOW 27' CLEARANCE PER HSR STD.

**PROFILE**

REFERENCE DWG SEE VOL5 UT-D1643

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4/30/2019 12:09:15 PM c:\jip\pwworkdir\haynesma\d0135596\k2l-ut-d1645.dgn haynesma

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. HIGGINS**  
 DRAWN BY  
**C. CUSSON**  
 CHECKED BY  
**C. ADAMS**  
 IN CHARGE  
**K. PIRBAZARI**  
 DATE  
**04/30/2019**

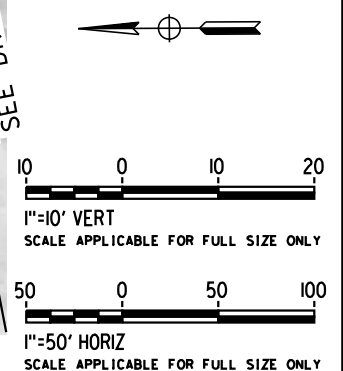
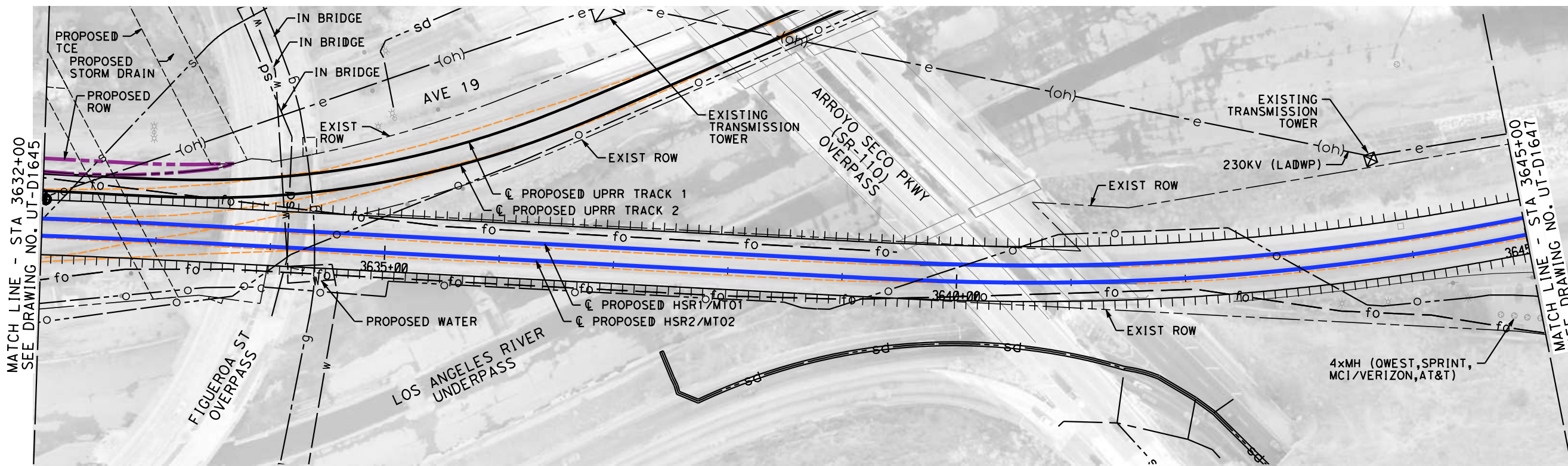
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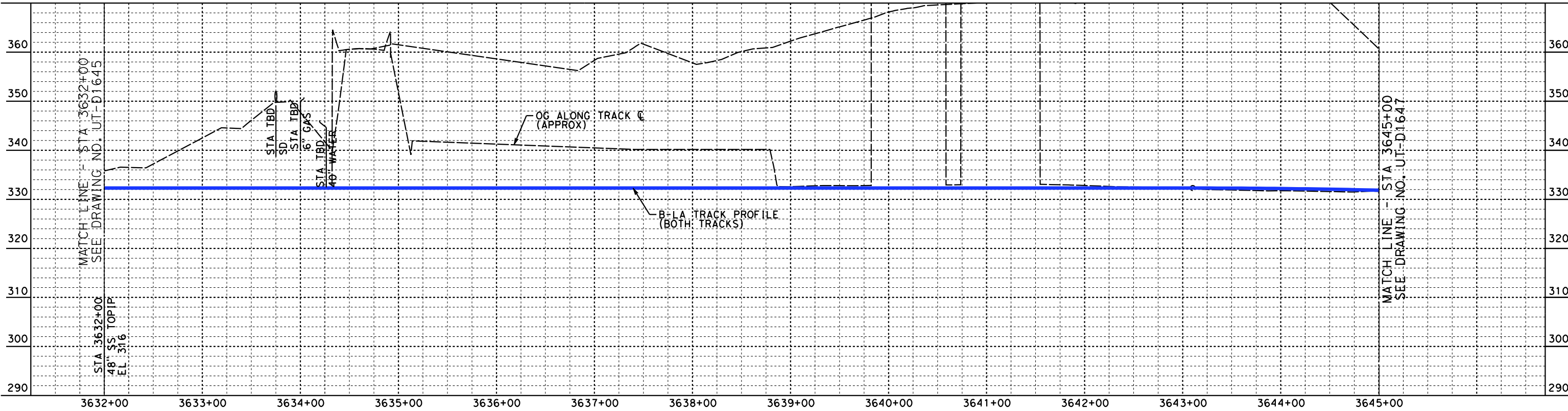
**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
  
 PEPD  
 PROPOSED UTILITIES RELOCATION PLAN  
 HSR2 3619+00 TO HSR2 3632+00

CONTRACT NO.  
HSR14-39  
 DRAWING NO.  
UT-D1645  
 SCALE  
AS SHOWN  
 SHEET NO.





**PLAN**



**PROFILE**

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FOR INTERNAL USE ONLY

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. HIGGINS**  
DRAWN BY  
**C. CUSSON**  
CHECKED BY  
**C. ADAMS**  
IN CHARGE  
**K. PIRBAZARI**  
DATE  
**04/30/2019**

**PEPD  
RECORD SET**

**NOT FOR  
CONSTRUCTION**

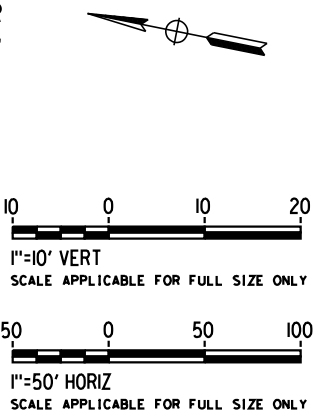
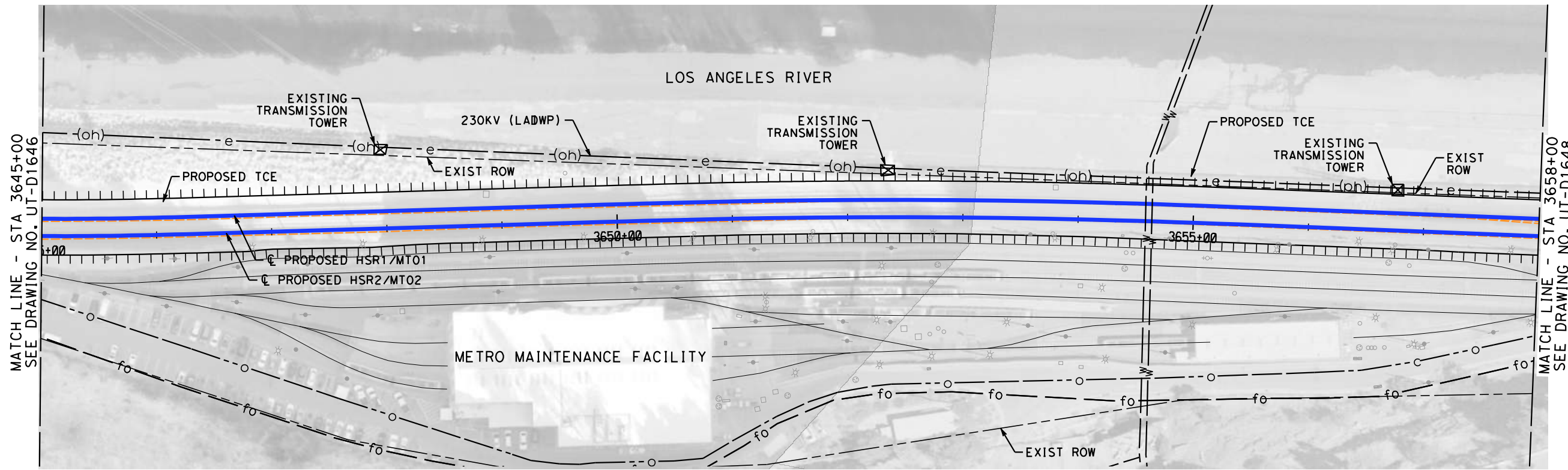


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**

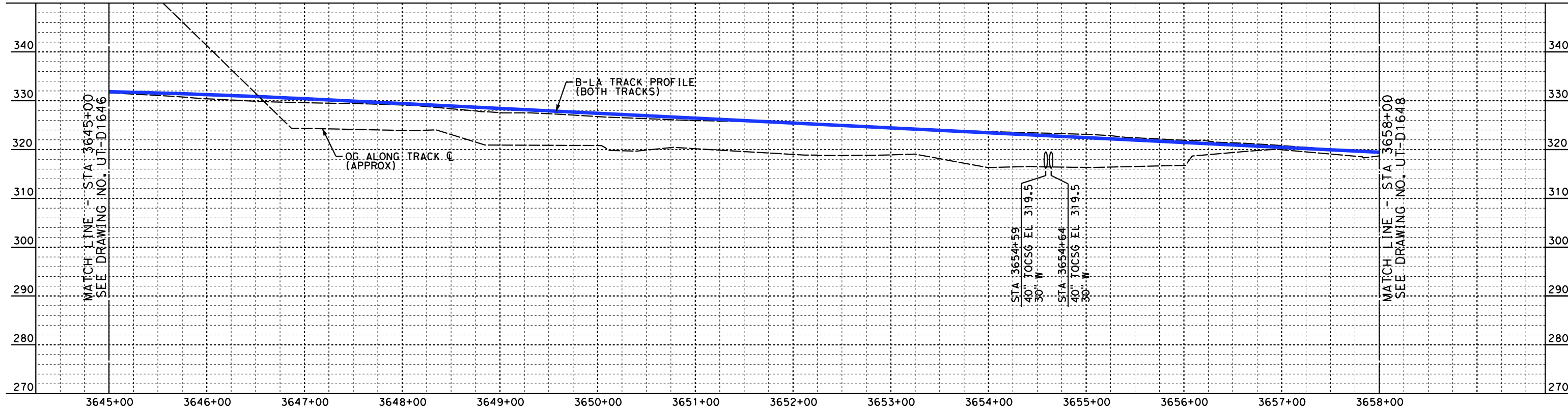
PEPD  
PROPOSED UTILITIES RELOCATION PLAN  
HSR2 3632+00 TO HSR2 3645+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-D1646  
SCALE  
AS SHOWN  
SHEET NO.





**PLAN**



**PROFILE**

NOTES:  
 1. ADD NEW CASINGS TO ALL FIRE, WATER & GAS LINES IN METRO MAINTENANCE FACILITY. ALL CASINGS ARE FROM ROW TO ROW.

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REV	DATE	BY	CHK	APP	DESCRIPTION

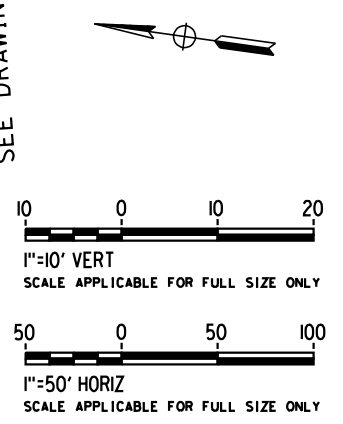
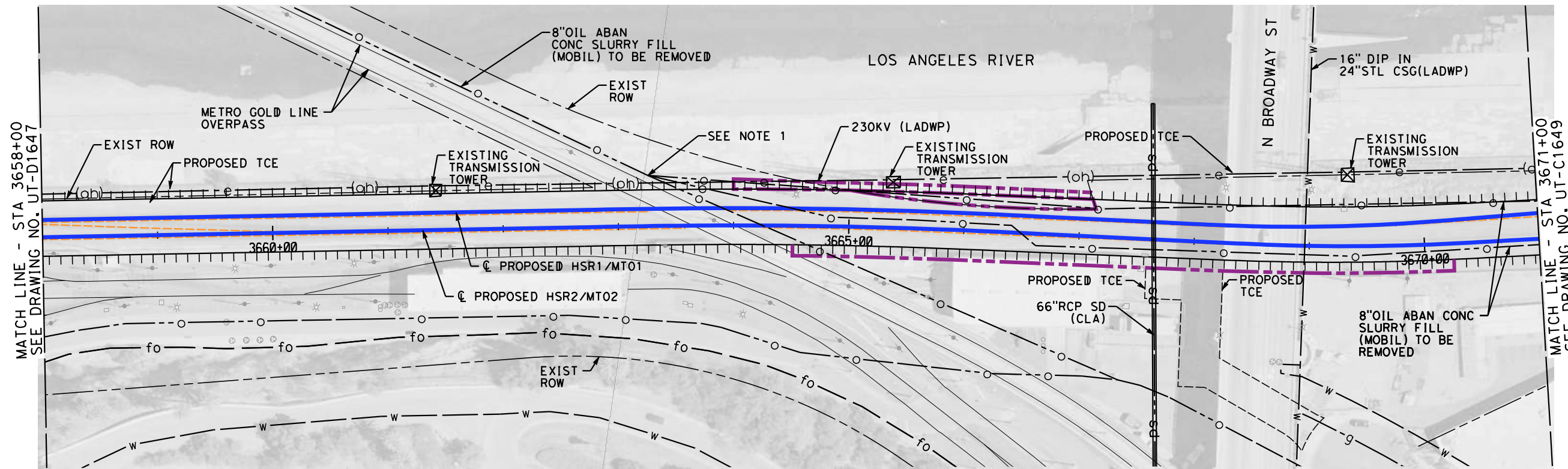
DESIGNED BY  
**J. HIGGINS**  
 DRAWN BY  
**C. CUSSON**  
 CHECKED BY  
**C. ADAMS**  
 IN CHARGE  
**K. PIRBAZARI**  
 DATE  
**04/30/2019**

**PEPD RECORD SET**  
  
**NOT FOR CONSTRUCTION**

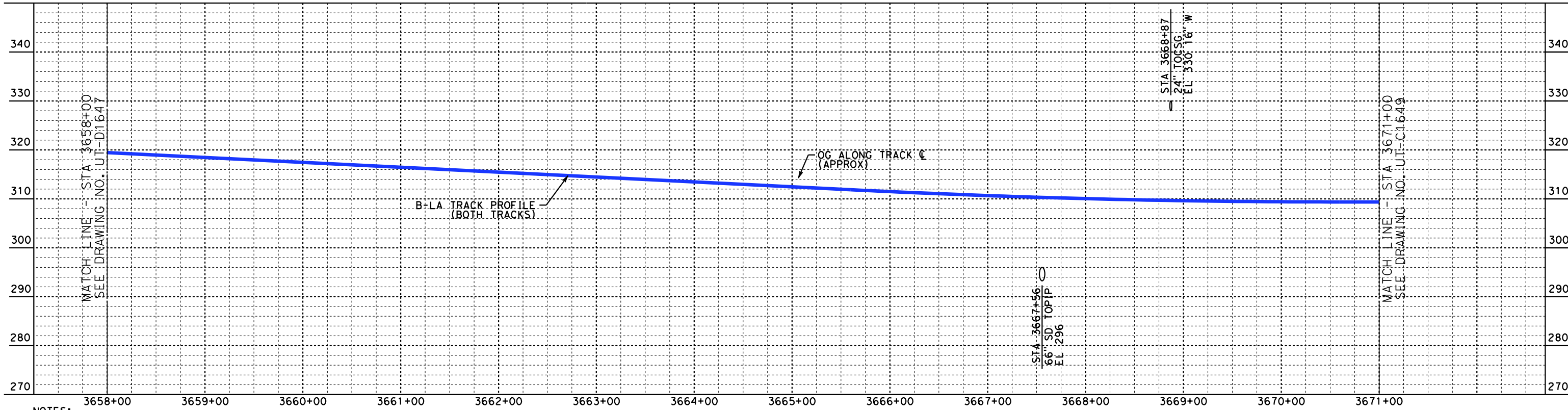


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
  
 PEPD  
 PROPOSED UTILITIES RELOCATION PLAN  
 HSR2 3645+00 TO HSR2 3658+00

CONTRACT NO.  
**HSR14-39**  
 DRAWING NO.  
**UT-D1647**  
 SCALE  
**AS SHOWN**  
 SHEET NO.



**PLAN**



NOTES:  
1. INSTALL CAP AT EACH END OF PIPELINE.

**PROFILE**

NOT FOR CONSTRUCTION  
FOR INTERNAL USE ONLY

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. HIGGINS**  
DRAWN BY  
**C. CUSSON**  
CHECKED BY  
**C. ADAMS**  
IN CHARGE  
**K. PIRBAZARI**  
DATE  
**04/30/2019**

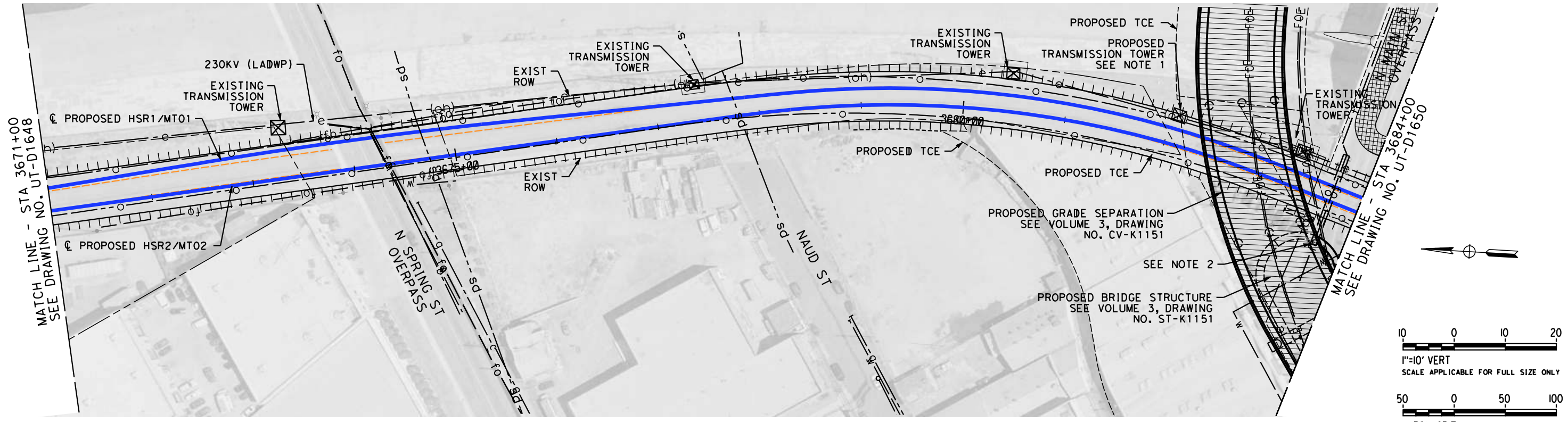
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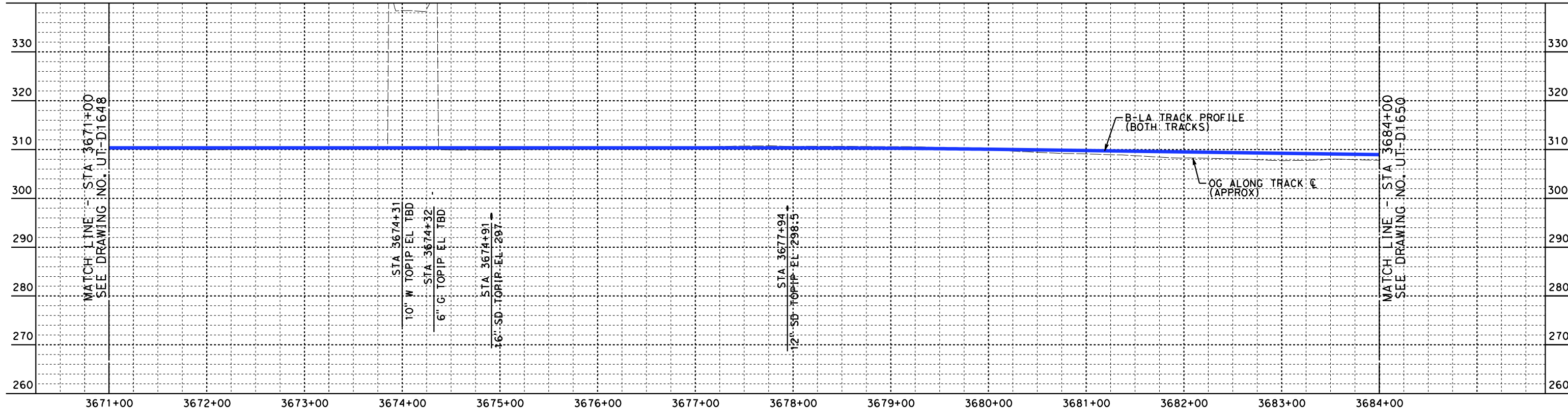
**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
  
PEPD  
PROPOSED UTILITIES RELOCATION PLAN  
HSR2 3658+00 TO HSR2 3671+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-C1648  
SCALE  
AS SHOWN  
SHEET NO.





**PLAN**



**PROFILE**

- NOTES:**
1. NEW RELOCATED TRANSMISSION TOWER WITH THE LOWEST LINES RAISED TO 27' CLEARANCE PER HSR STD.
  2. RELOCATE TO NEW BRIDGE WITH TIE-INS AT-EACH END

REFERENCE DWG SEE UT-D1638 & UT-D1639 FOR INTERNAL USE ONLY

NOT FOR CONSTRUCTION

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. HIGGINS**  
DRAWN BY  
**C. CUSSON**  
CHECKED BY  
**C. ADAMS**  
IN CHARGE  
**K. PIRBAZARI**  
DATE  
**04/30/2019**

**PEPD RECORD SET**

**NOT FOR CONSTRUCTION**



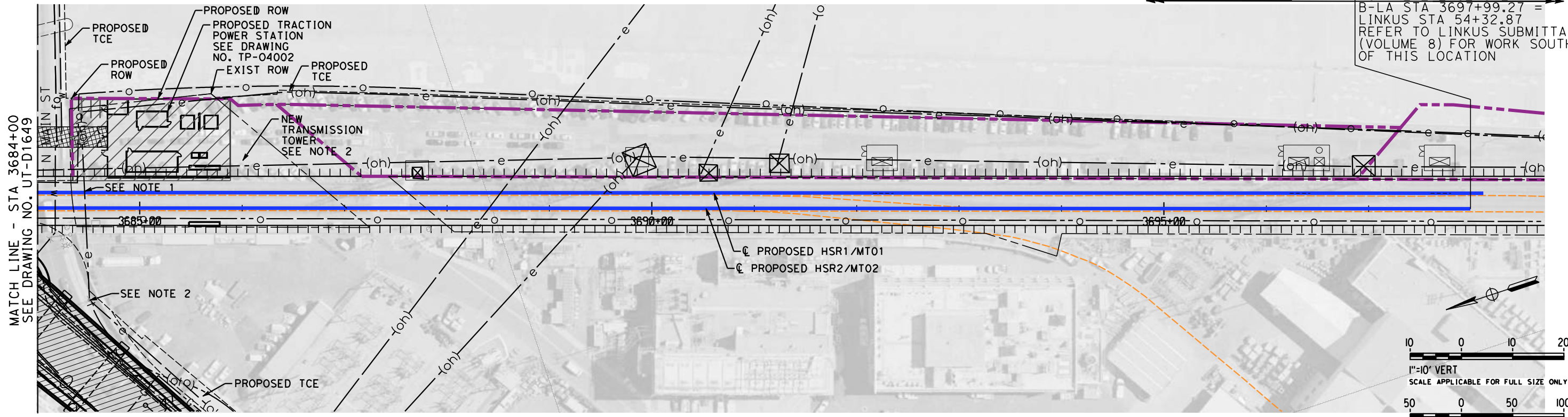
**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**

PEPD  
PROPOSED UTILITIES RELOCATION PLAN  
HSR2 3671+00 TO HSR2 3684+00

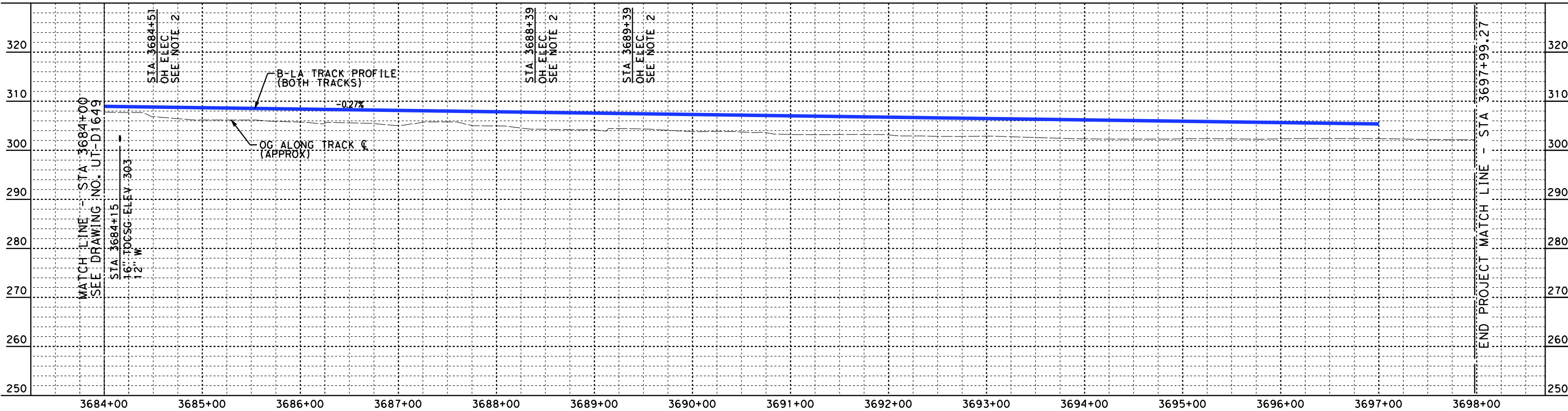
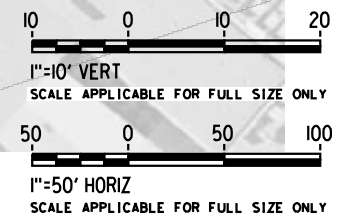
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HSR14-39  
DRAWING NO.  
UT-D1649  
SCALE  
AS SHOWN  
SHEET NO.

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PALMDALE TO METRO LINKUS SEGMENT  
LOS ANGELES SEGMENT FOR REFERENCE ONLY  
B-LA STA 3697+99.27 =  
LINKUS STA 54+32.87  
REFER TO LINKUS SUBMITTAL  
(VOLUME 8) FOR WORK SOUTH  
OF THIS LOCATION



**PLAN**



**PROFILE**

- NOTES:
1. NEW RELOCATED TRANSMISSION TOWER
  2. NEW POLES WITH THE LOWEST LINES ON ALL RAISED POLES TO ALLOW 27' CLEARANCE PER HSR STD.

NOT FOR CONSTRUCTION  
REFERENCE DWG SEE UT-D1638 & UT-D1639 FOR INTERNAL USE ONLY

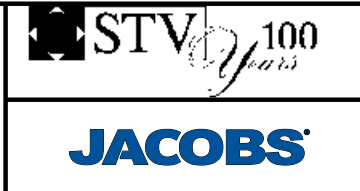
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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. HIGGINS**  
DRAWN BY  
**C. CUSSON**  
CHECKED BY  
**C. ADAMS**  
IN CHARGE  
**K. PIRBAZARI**  
DATE  
**04/30/2019**

**PEPD  
RECORD SET**

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CONSTRUCTION**

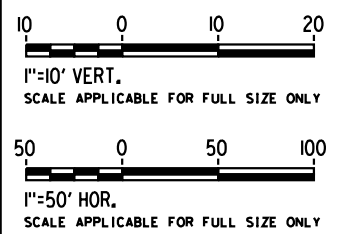
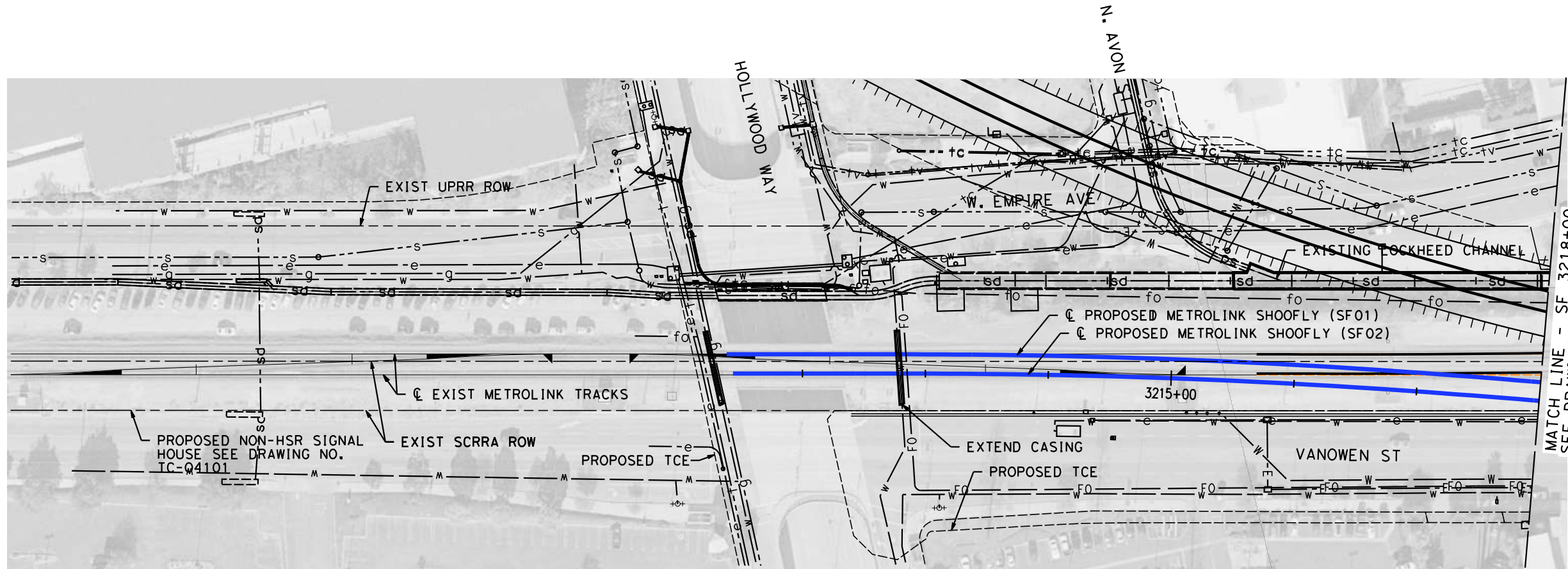


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**

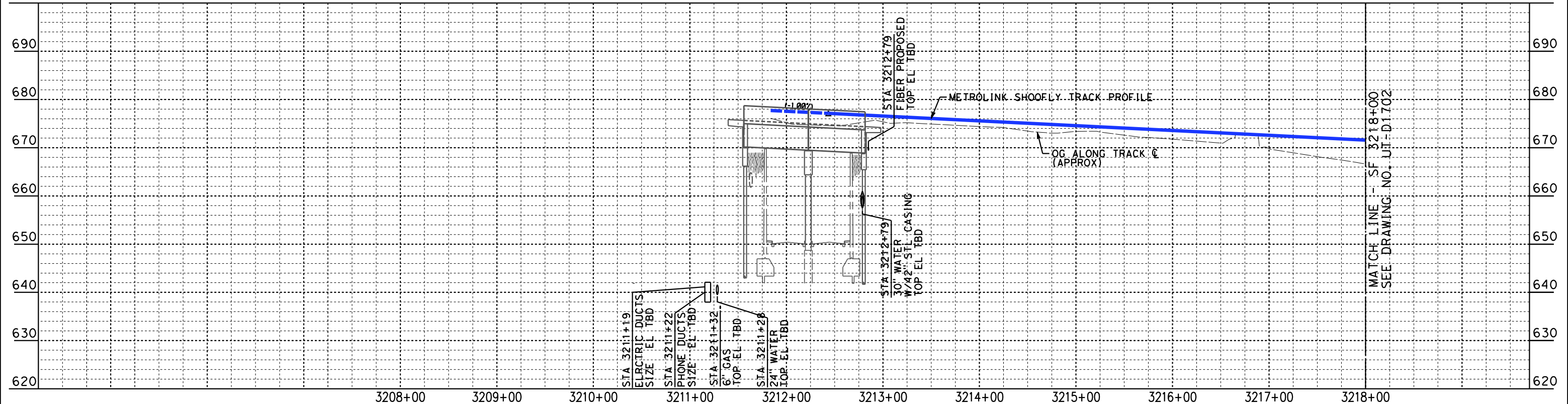
PEPD  
PROPOSED UTILITIES RELOCATION PLAN  
HSR2 3684+00 TO HSR2 3697+99

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-D1650  
SCALE  
AS SHOWN  
SHEET NO.





**PLAN**



**PROFILE**

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. HIGGINS**  
DRAWN BY  
**C. CUSSON**  
CHECKED BY  
**C. ADAMS**  
IN CHARGE  
**K. PIRBAZARI**  
DATE  
**04/30/2019**

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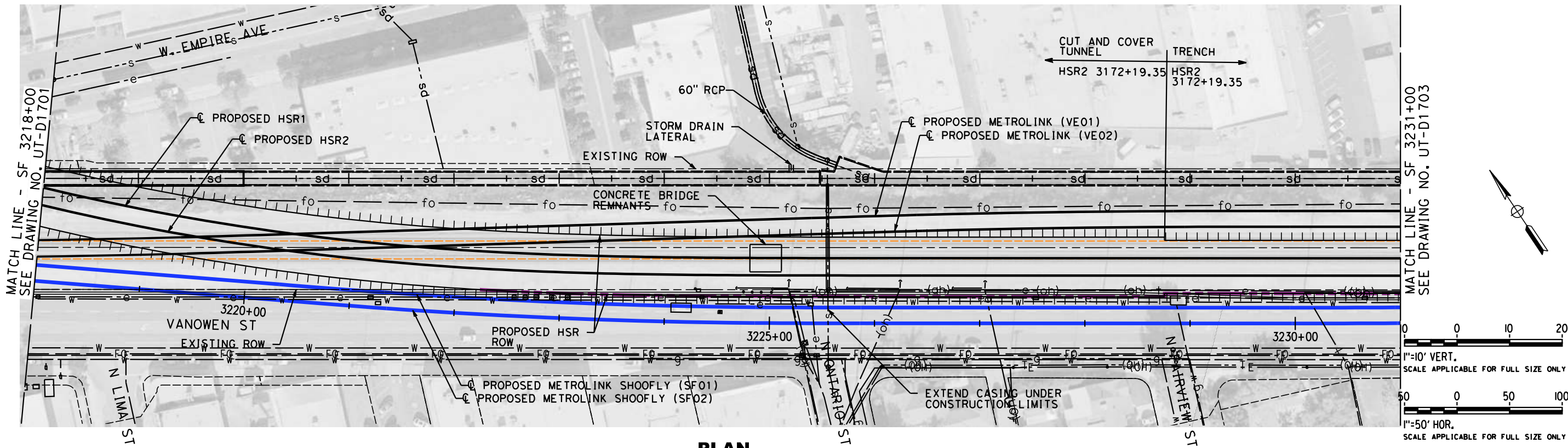
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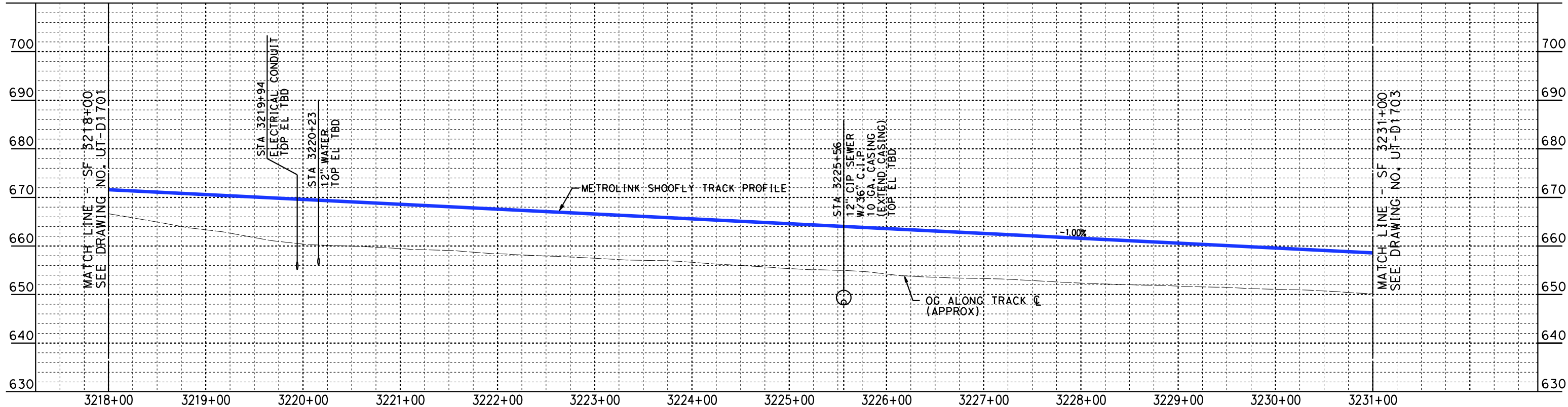
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

PEPD  
PROPOSED UTILITIES RELOCATION PLAN  
SF 3211+43.44 TO SF 3218+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-D1701  
SCALE  
AS SHOWN  
SHEET NO.



**PLAN**



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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. HIGGINS**  
DRAWN BY  
**C. CUSSON**  
CHECKED BY  
**C. ADAMS**  
IN CHARGE  
**K. PIRBAZARI**  
DATE  
**04/30/2019**

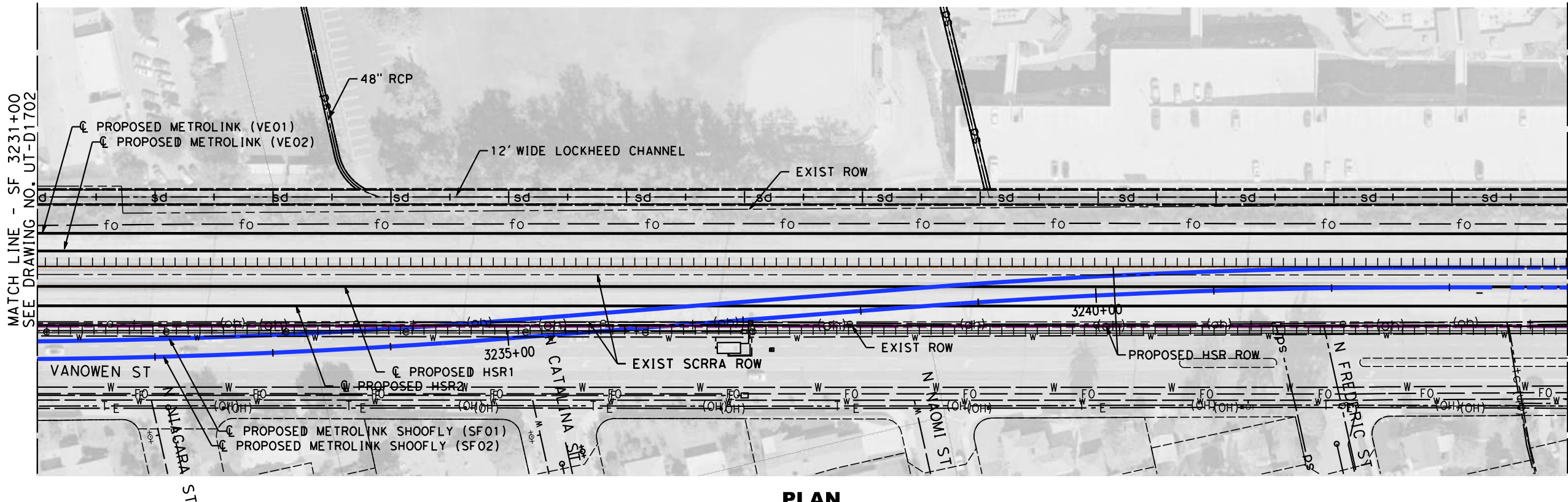
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RECORD SET**  
  
**NOT FOR  
CONSTRUCTION**



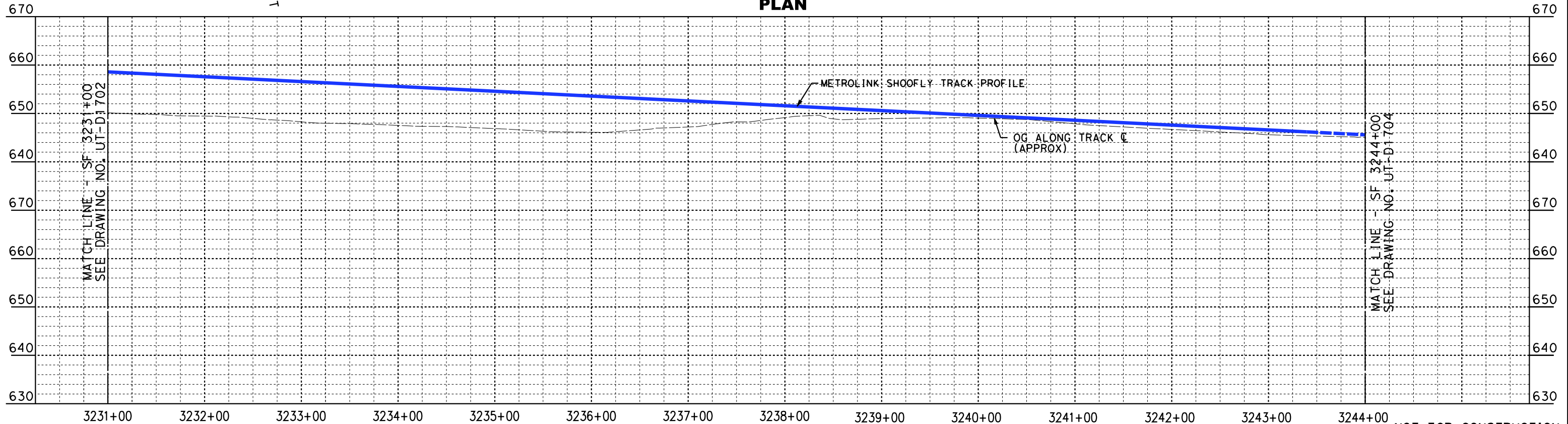
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**  
  
PEPD  
PROPOSED UTILITIES RELOCATION PLAN  
SF 3218+00 TO SF 3231+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-D1702  
SCALE  
AS SHOWN  
SHEET NO.





**PLAN**



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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. HIGGINS**  
DRAWN BY  
**C. CUSSON**  
CHECKED BY  
**C. ADAMS**  
IN CHARGE  
**K. PIRBAZARI**  
DATE  
**04/30/2019**

**PEPD  
RECORD SET**

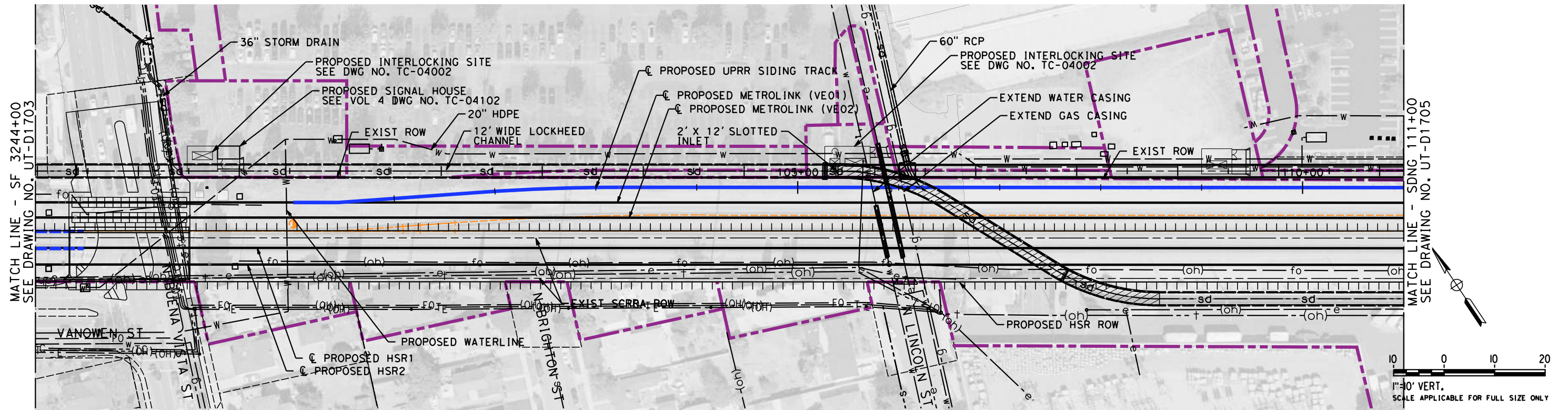
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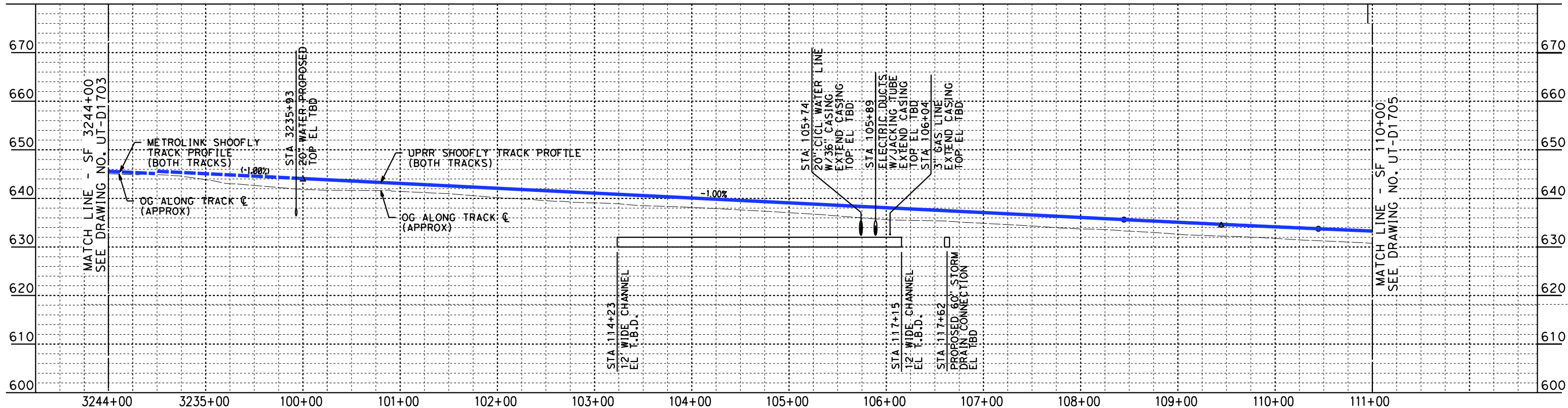
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

PEPD  
PROPOSED UTILITIES RELOCATION PLAN  
SF 3231+00 TO SF 3244+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-D1703  
SCALE  
AS SHOWN  
SHEET NO.



**PLAN**



**PROFILE**

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. HIGGINS**  
DRAWN BY  
**C. CUSSON**  
CHECKED BY  
**C. ADAMS**  
IN CHARGE  
**K. PIRBAZARI**  
DATE  
**04/30/2019**

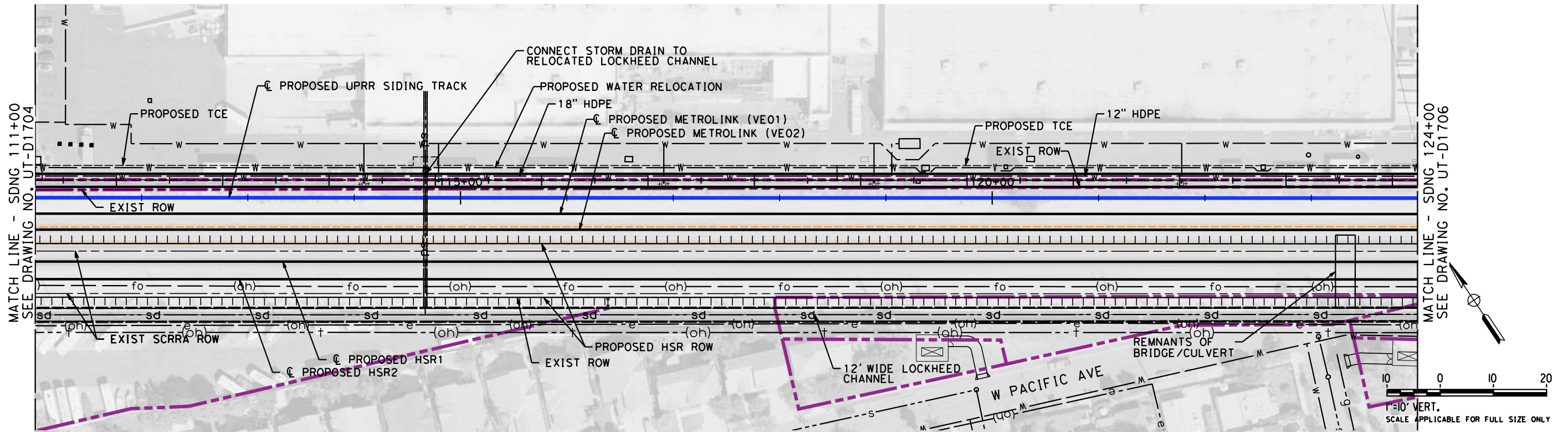
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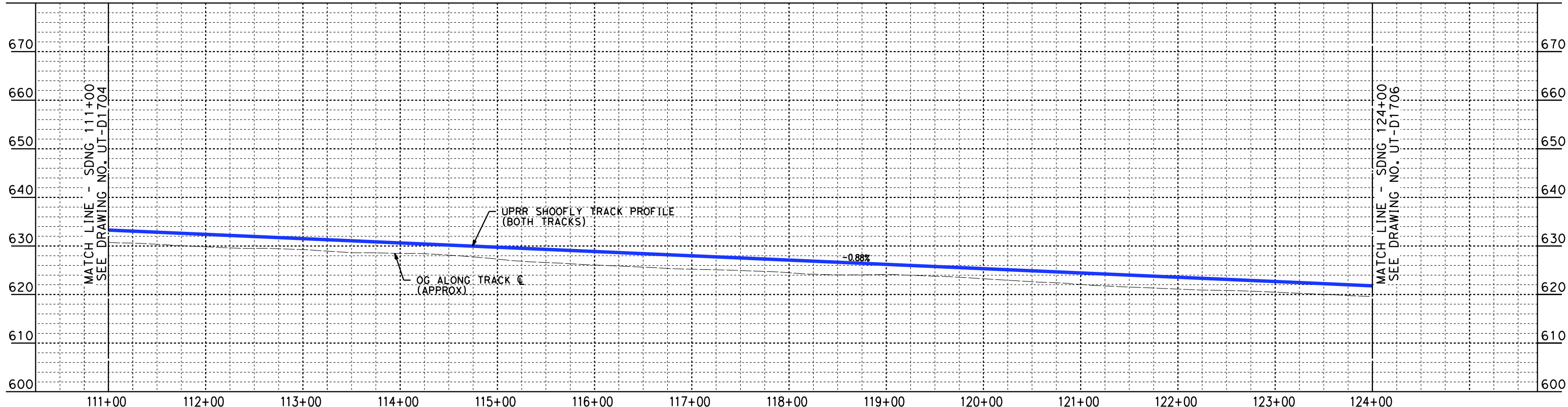
**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
  
PEPD  
PROPOSED UTILITIES RELOCATION PLAN  
SF 3244+00 TO SDNG 111+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-D1704  
SCALE  
AS SHOWN  
SHEET NO.





**PLAN**



**PROFILE**

NOT FOR CONSTRUCTION  
FOR INTERNAL USE ONLY

4/30/2019 12:15:37 PM c:\j\p\pwworkdir\haynesma\d0135596\k2l-ut-d1705.dgn haynesma

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. HIGGINS**  
DRAWN BY  
**C. CUSSON**  
CHECKED BY  
**C. ADAMS**  
IN CHARGE  
**K. PIRBAZARI**  
DATE  
**04/30/2019**

**PEPD  
RECORD SET**

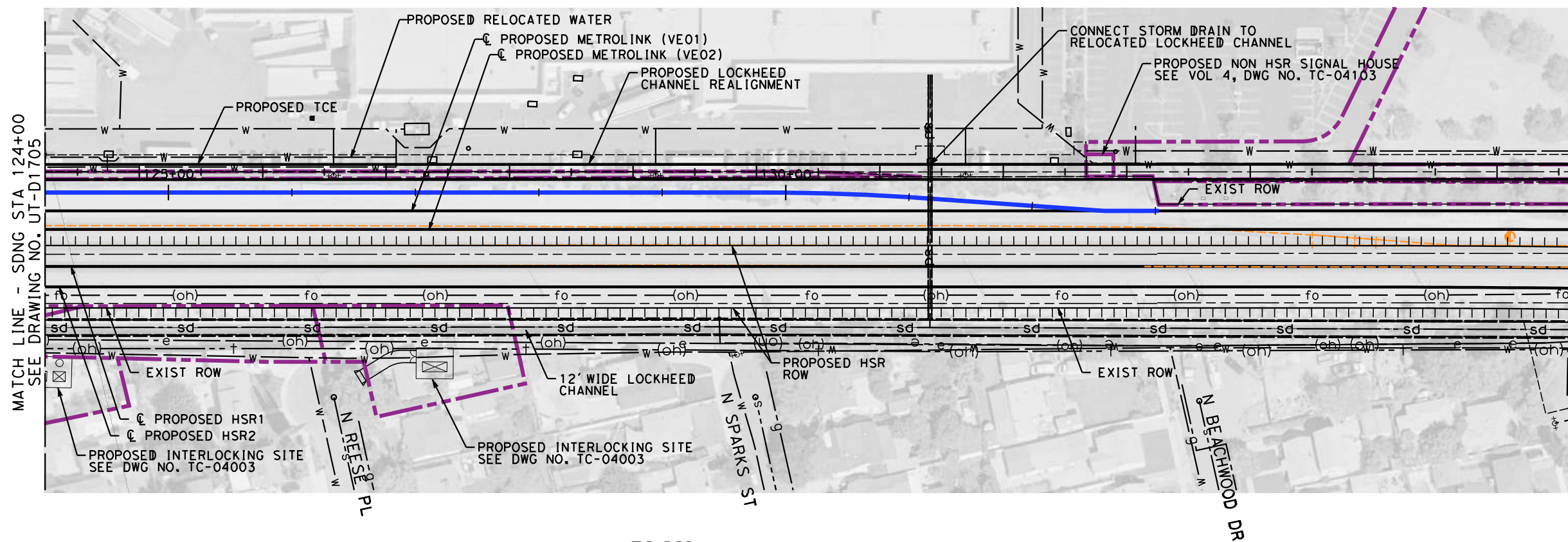
**NOT FOR  
CONSTRUCTION**



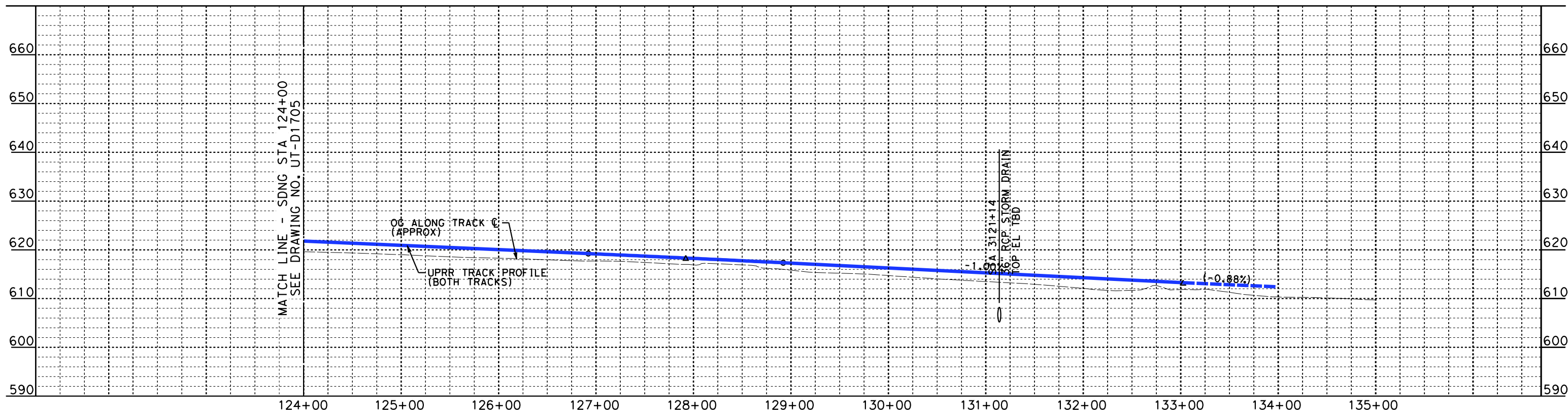
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

PEPD  
PROPOSED UTILITIES RELOCATION PLAN  
SDNG 111+00 TO SDNG 124+00

CONTRACT NO.  
**HSR14-39**  
DRAWING NO.  
**UT-D1705**  
SCALE  
**AS SHOWN**  
SHEET NO.



**PLAN**



**PROFILE**

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4/30/2019 12:16:13 PM c:\jip\pwworkdir\haynesma\d0135596\k2l-ut-d1706.dgn haynesma

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. HIGGINS**  
DRAWN BY  
**C. CUSSON**  
CHECKED BY  
**C. ADAMS**  
IN CHARGE  
**K. PIRBAZARI**  
DATE  
**04/30/2019**

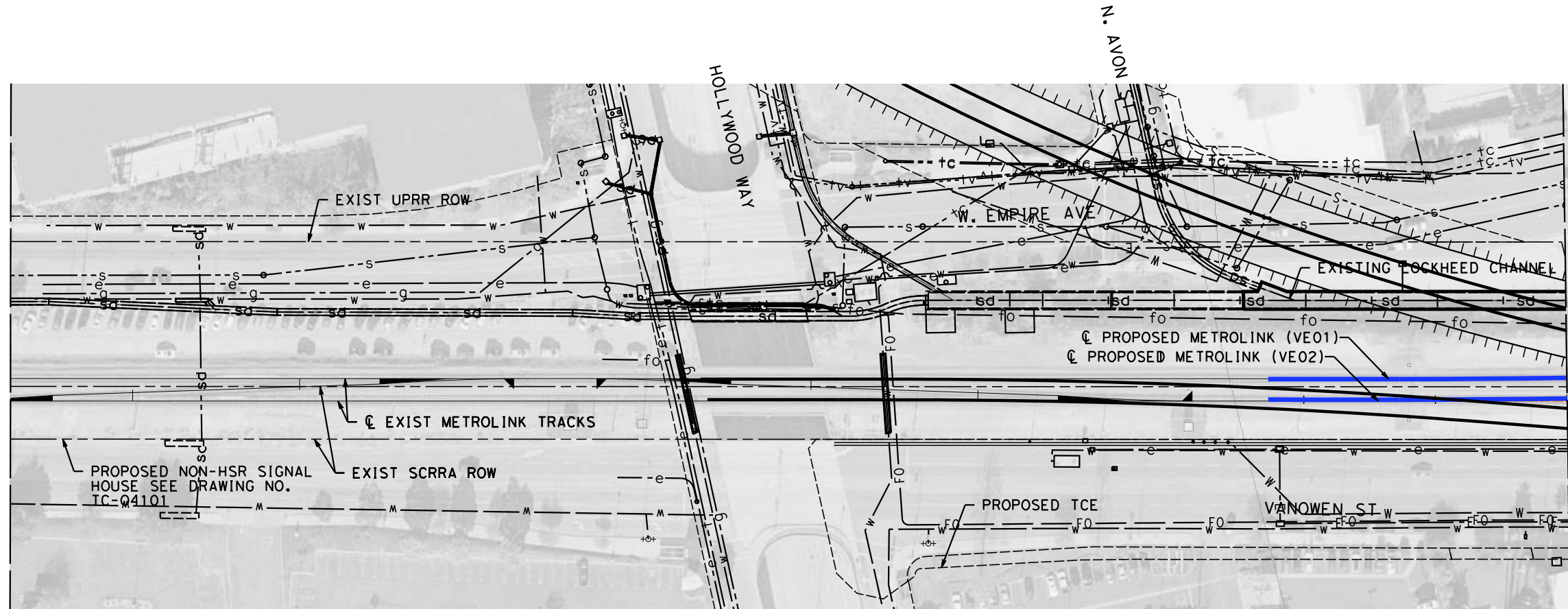
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**NOT FOR  
CONSTRUCTION**



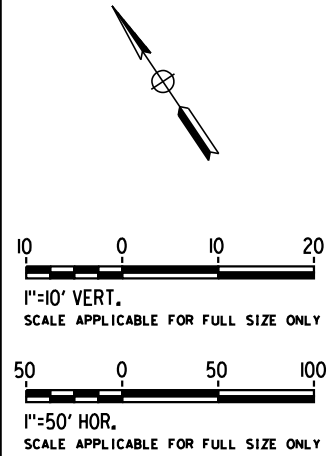
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**  
  
PEPD  
PROPOSED UTILITIES RELOCATION PLAN  
SDNG 124+00 TO SDNG 133+02.62

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

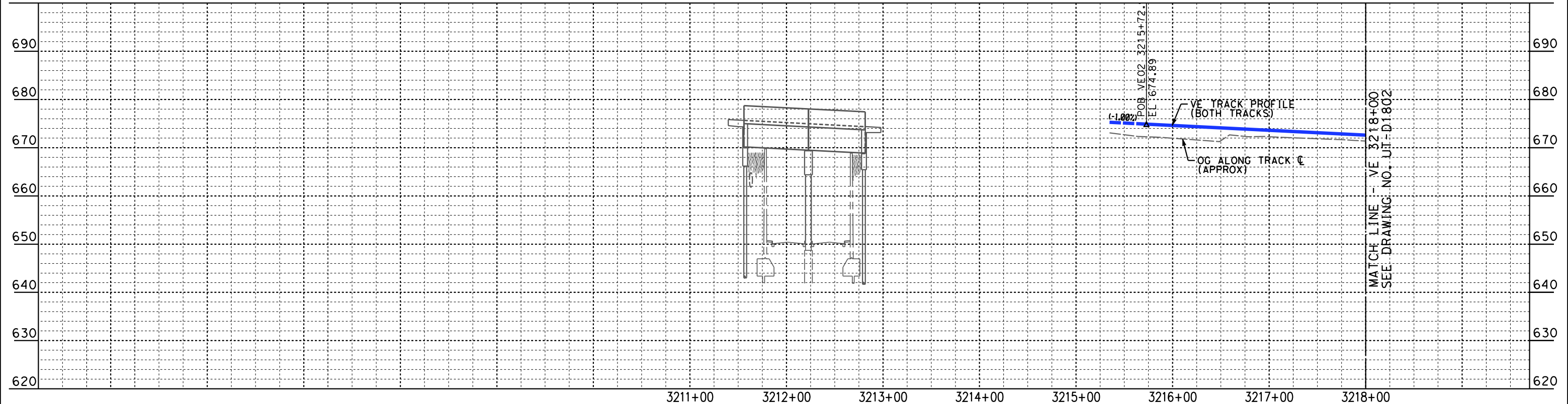




MATCH LINE - VE 3218+00  
SEE DRAWING NO. UT-D1802



**PLAN**



**PROFILE**

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4/30/2019 12:16:53 PM c:\j\p\pwworkdir\haynesma\d01355596\k2l-ut-d1801.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

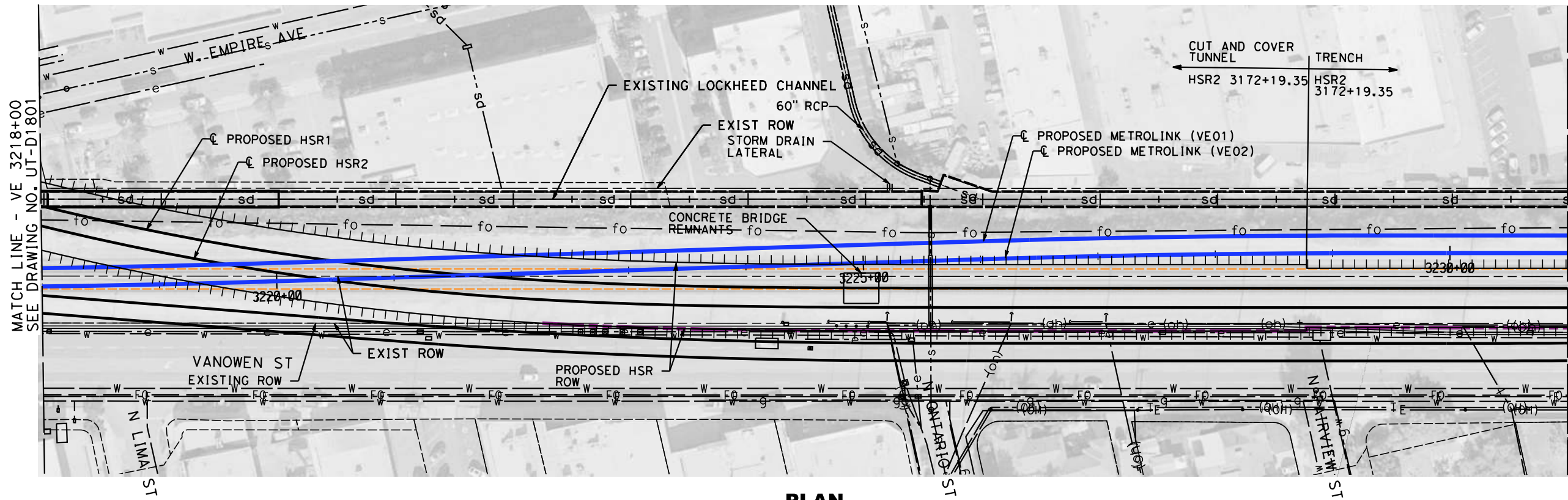
DESIGNED BY  
**J. HIGGINS**  
DRAWN BY  
**C. CUSSON**  
CHECKED BY  
**C. ADAMS**  
IN CHARGE  
**K. PIRBAZARI**  
DATE  
**04/30/2019**

**PEPD  
RECORD SET**  
  
**NOT FOR  
CONSTRUCTION**

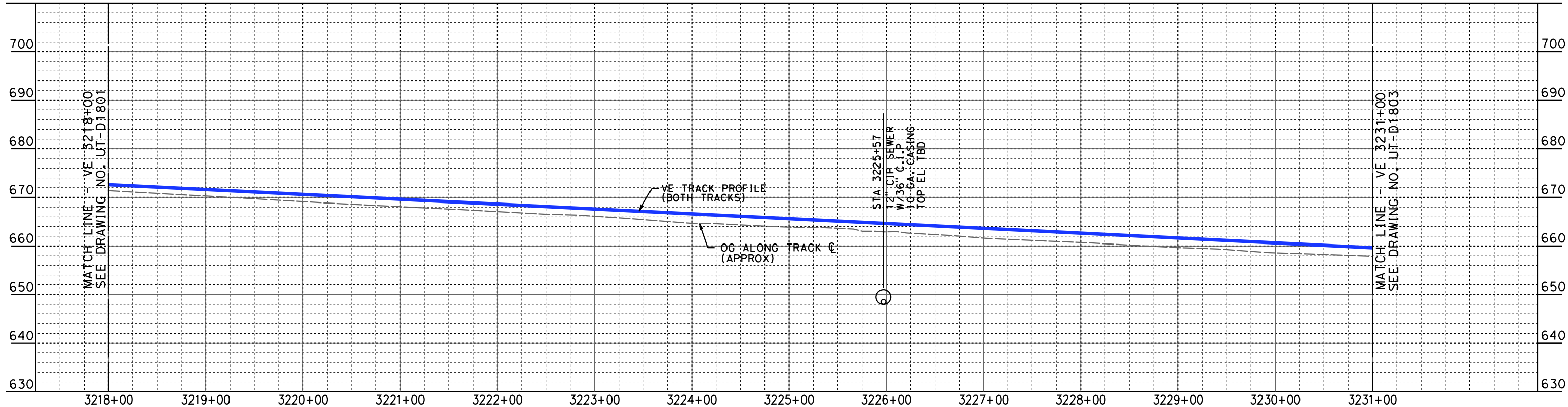


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**  
  
PEPD  
PROPOSED UTILITIES RELOCATION PLAN  
VE01, VE02 3215+72.96 TO VE01, VE02 3218+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-D1801  
SCALE  
AS SHOWN  
SHEET NO.



**PLAN**



**PROFILE**

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4/30/2019 12:17:31 PM c:\j\p\pwworkdir\haynesma\d0135596\k2l-ut-d1802.dgn haynesma

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. HIGGINS**  
DRAWN BY  
**C. CUSSON**  
CHECKED BY  
**C. ADAMS**  
IN CHARGE  
**K. PIRBAZARI**  
DATE  
**04/30/2019**

**PEPD  
RECORD SET**  
  
**NOT FOR  
CONSTRUCTION**

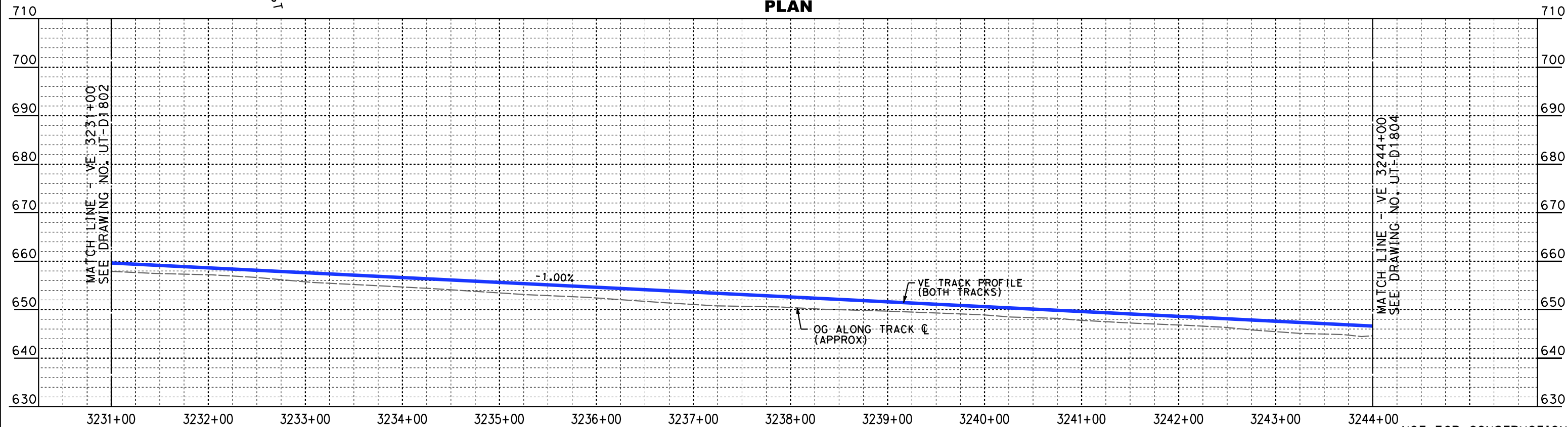
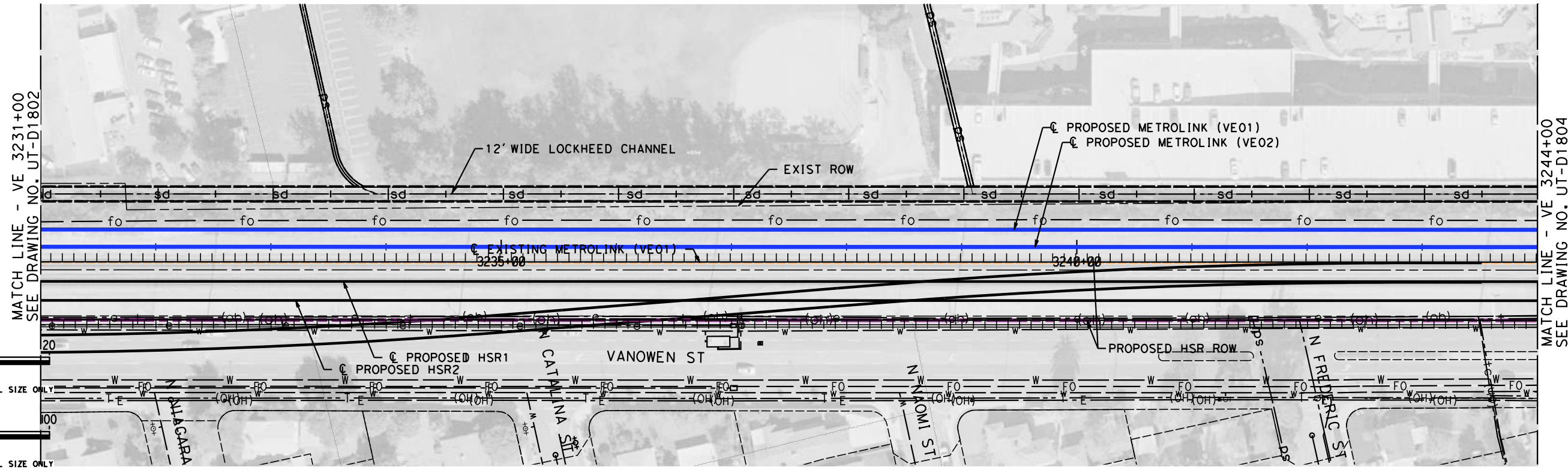


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**  
  
PEPD  
PROPOSED UTILITIES RELOCATION PLAN  
VE01, VE02 3218+00 TO VE01, VE02 3231+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-D1802  
SCALE  
AS SHOWN  
SHEET NO.



4/30/2019 12:18:11 PM c:\j\p\pwworkdir\haynesma\d0135596\k2l-ut-d1803.dgn



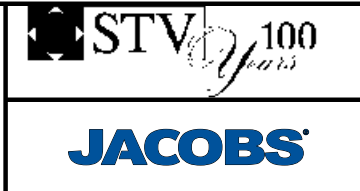
NOT FOR CONSTRUCTION  
FOR INTERNAL USE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. HIGGINS**  
DRAWN BY  
**C. CUSSON**  
CHECKED BY  
**C. ADAMS**  
IN CHARGE  
**K. PIRBAZARI**  
DATE  
**04/30/2019**

**PEPD  
RECORD SET**

**NOT FOR  
CONSTRUCTION**

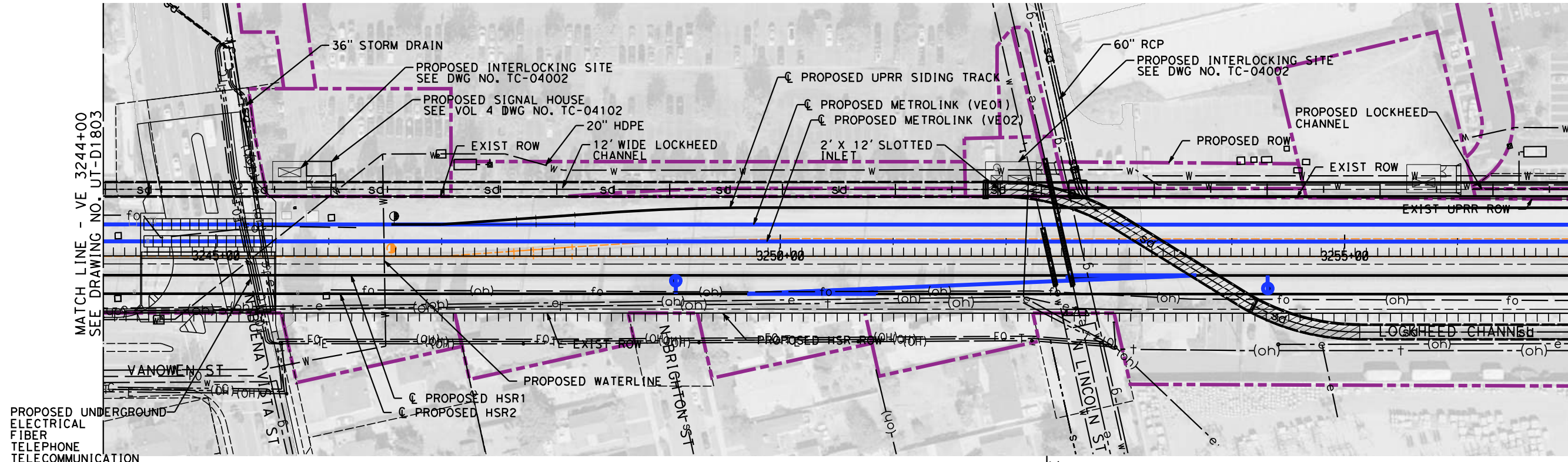


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

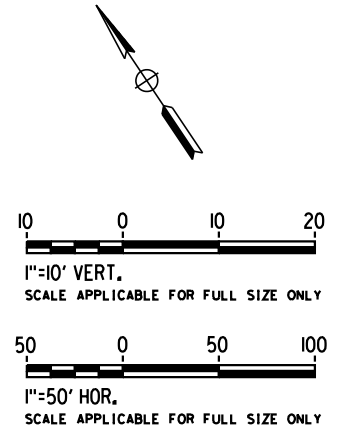
PEPD  
PROPOSED UTILITIES RELOCATION PLAN  
VE01, VE02 3231+00 TO VE01, VE02 3244+00

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

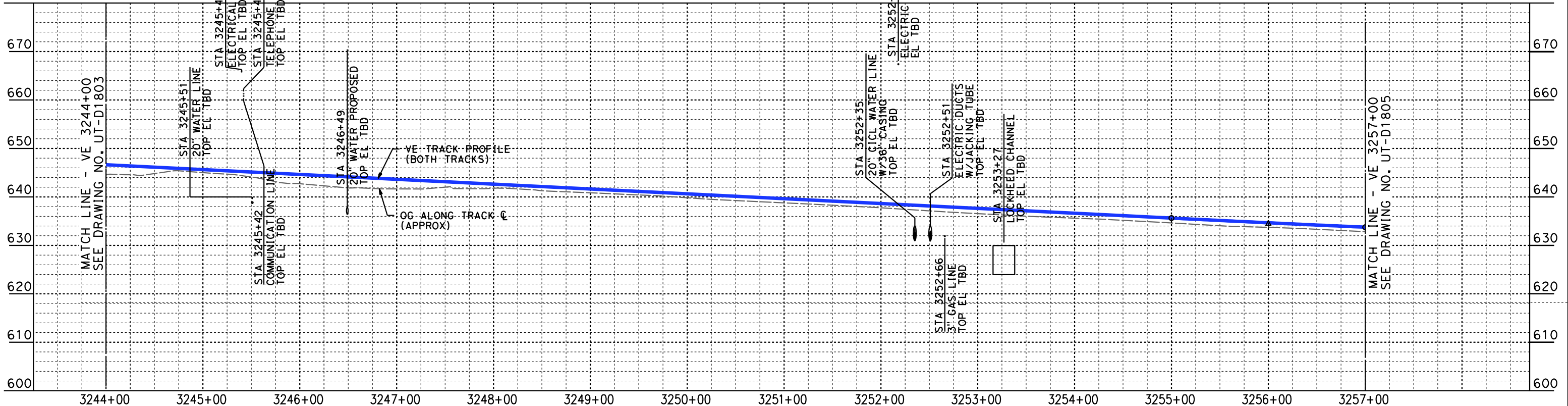
4/30/2019 12:18:53 PM c:\j\p\pwworkdir\haynesma\d0135596\K2L-UT-D1804.dgn haynesma



MATCH LINE - VE 3257+00  
SEE DRAWING NO. UT-D1805



**PLAN**



**PROFILE**

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FOR INTERNAL USE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. HIGGINS**  
DRAWN BY  
**C. CUSSON**  
CHECKED BY  
**C. ADAMS**  
IN CHARGE  
**K. PIRBAZARI**  
DATE  
**04/30/2019**

**PEPD  
RECORD SET**

**NOT FOR  
CONSTRUCTION**

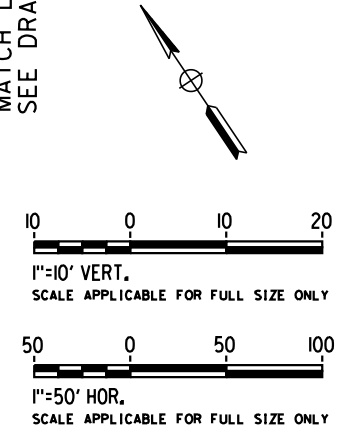
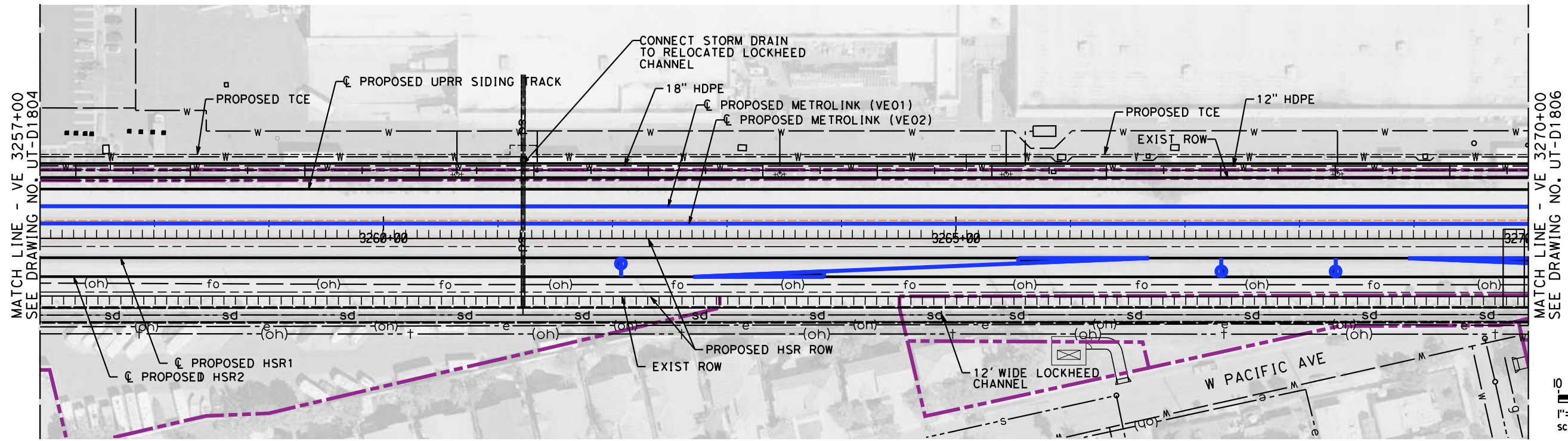


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

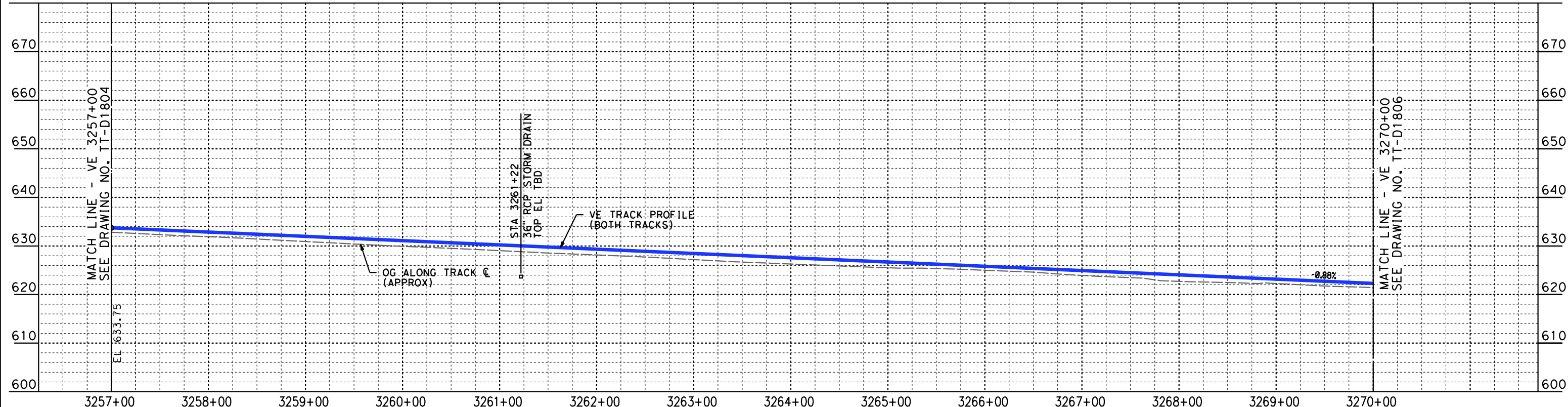
PEPD  
PROPOSED UTILITIES RELOCATION PLAN  
VE01, VE02 3244+00 TO VE01, VE02 3257+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-D1804  
SCALE  
AS SHOWN  
SHEET NO.





**PLAN**



**PROFILE**

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FOR INTERNAL USE ONLY

4/30/2019 12:19:38 PM c:\jip\pwworkdir\haynesma\d0135596\k2l-ut-d1805.dgn haynesma

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. HIGGINS**  
DRAWN BY  
**C. CUSSON**  
CHECKED BY  
**C. ADAMS**  
IN CHARGE  
**K. PIRBAZARI**  
DATE  
**04/30/2019**

**PEPD  
RECORD SET**

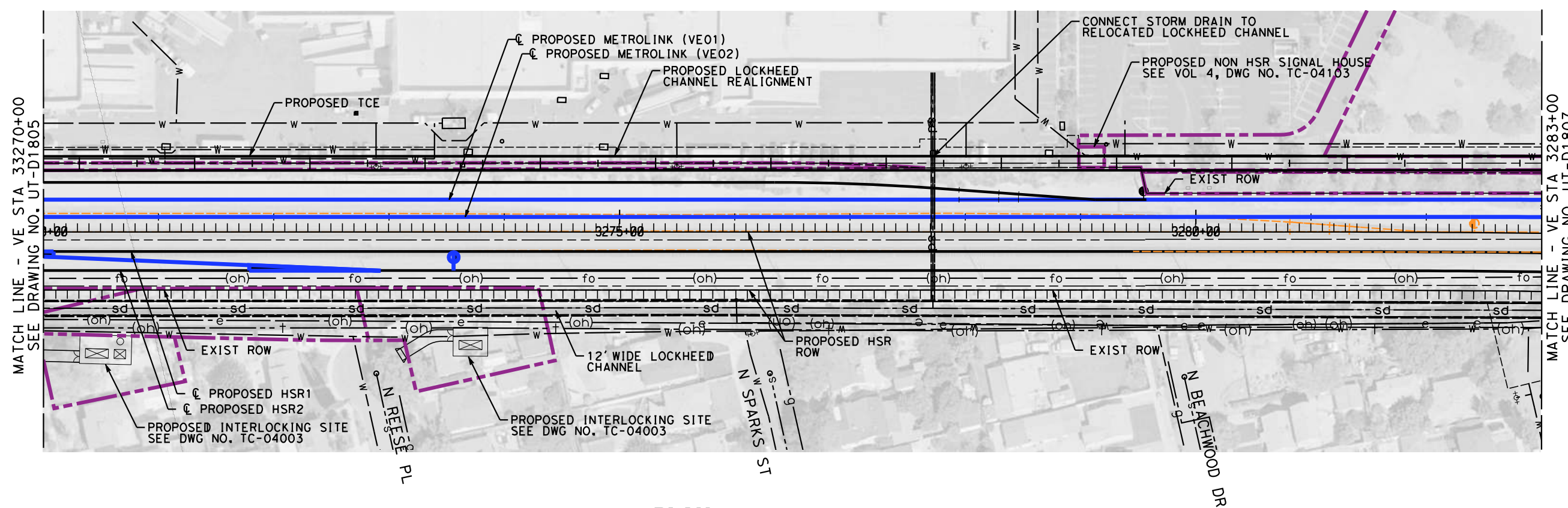
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CONSTRUCTION**



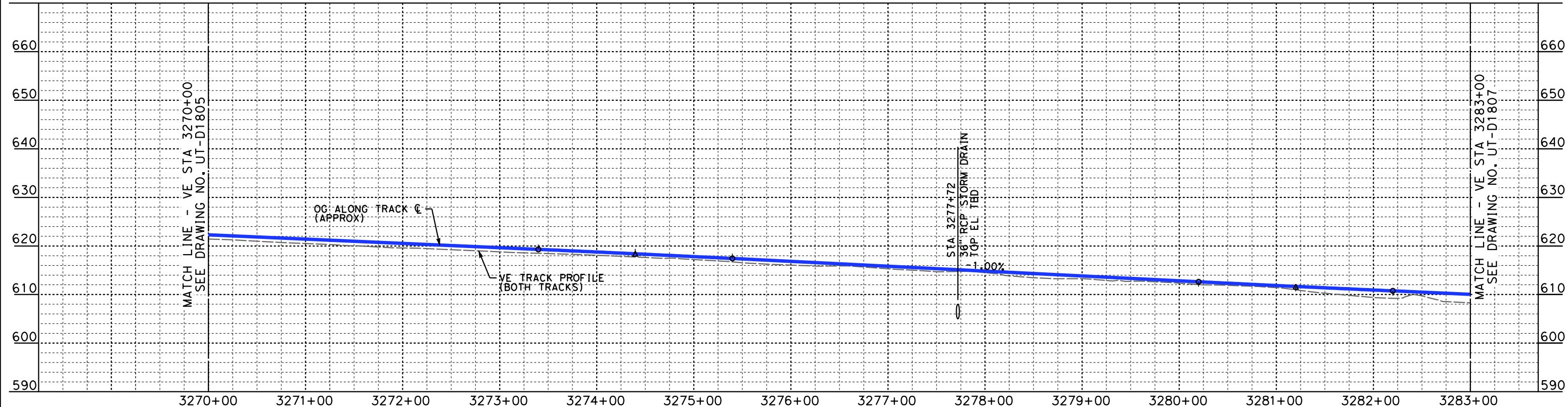
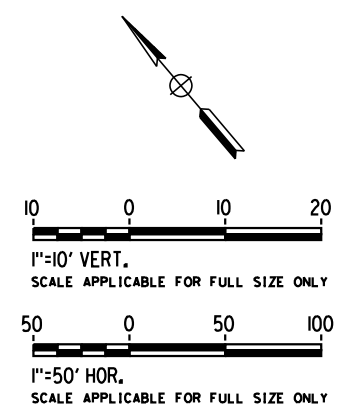
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

PEPD  
PROPOSED UTILITIES RELOCATION PLAN  
VE01, VE02 3257+00 TO VE01, VE02 3270+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-D1805  
SCALE  
AS SHOWN  
SHEET NO.



**PLAN**



**PROFILE**

REFER TO LOCKHEED CHANNEL RELOCATION DWG. NO. CV-G1301 TO CV-G1308 FOR PROPOSED DESIGN. NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY

4/30/2019 12:20:18 PM c:\j\p\pwworkdir\haynesma\d0135596\k2l-ut-d1806.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. HIGGINS**  
DRAWN BY  
**C. CUSSON**  
CHECKED BY  
**C. ADAMS**  
IN CHARGE  
**K. PIRBAZARI**  
DATE  
**04/30/2019**

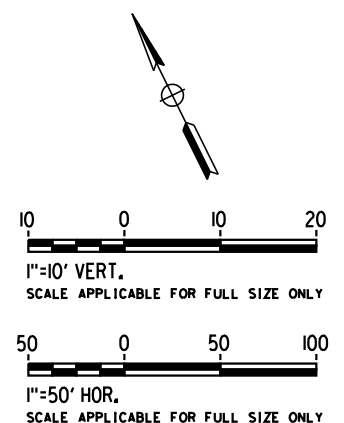
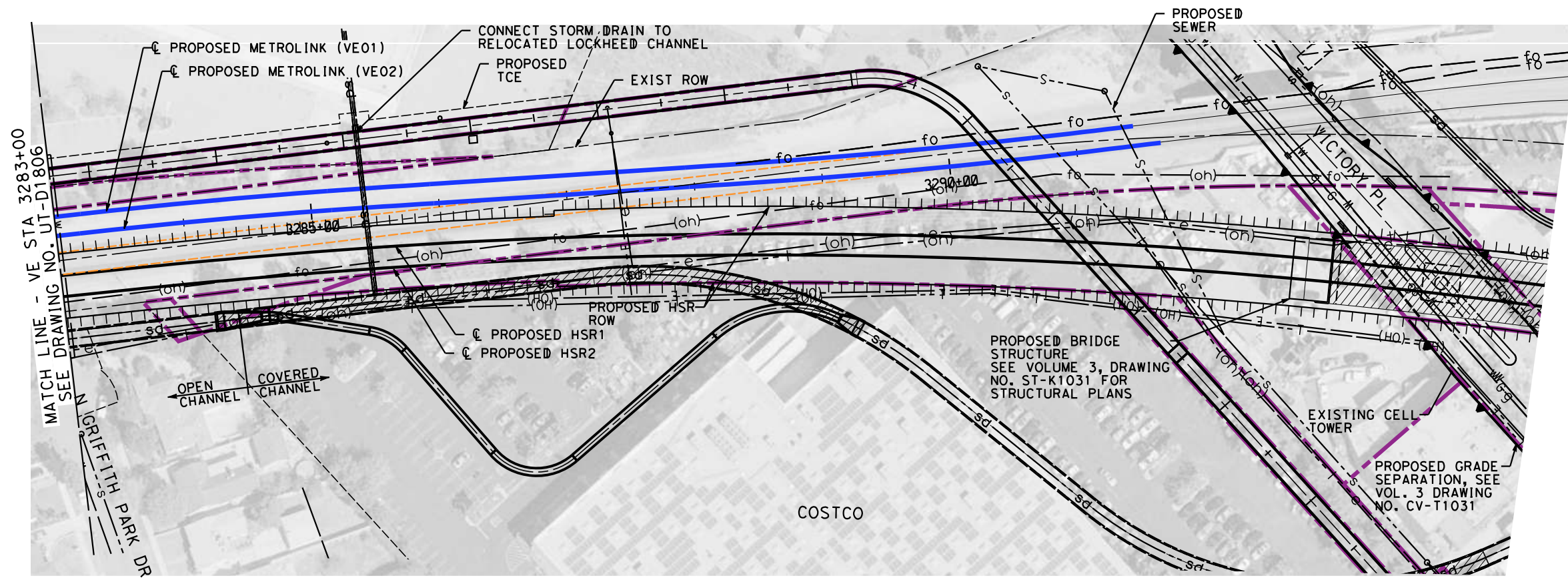
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**NOT FOR CONSTRUCTION**



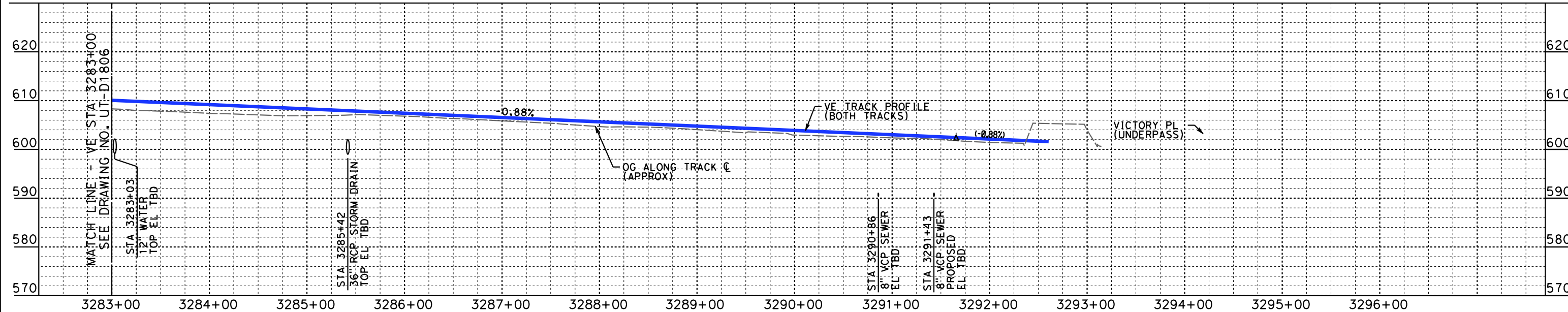
**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
  
PEPD  
PROPOSED UTILITIES RELOCATION PLAN  
VE01, VE02 3270+00 TO VE01, VE02 3283+00

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-D1806  
SCALE  
AS SHOWN  
SHEET NO.





**PLAN**



**PROFILE**

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REV	DATE	BY	CHK	APP	DESCRIPTION

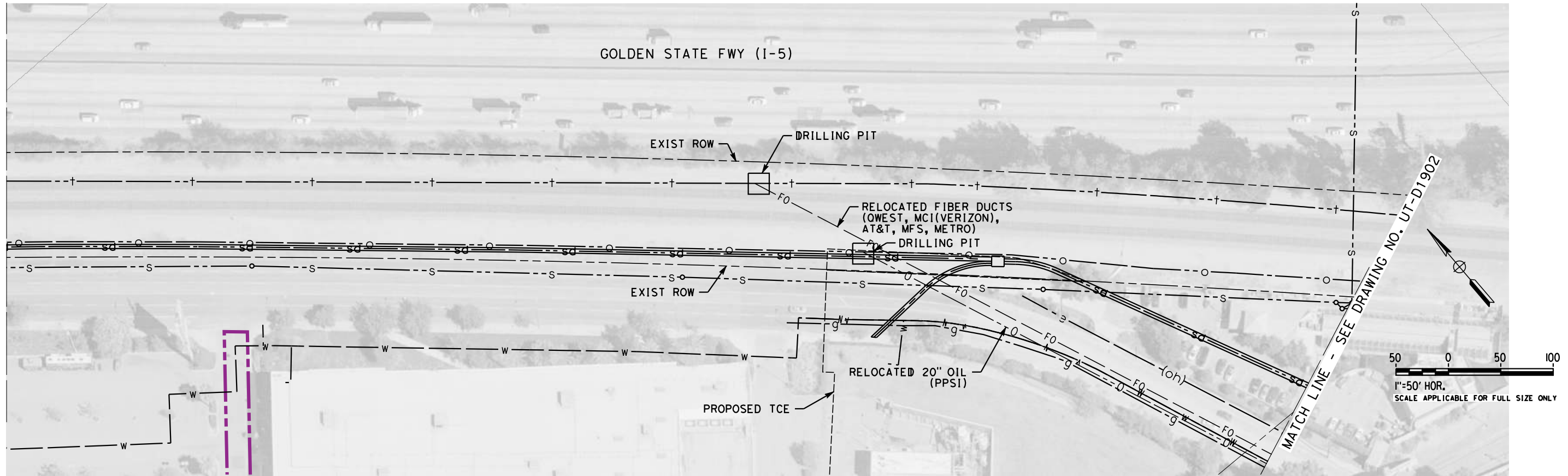
DESIGNED BY  
**J. HIGGINS**  
DRAWN BY  
**C. CUSSON**  
CHECKED BY  
**C. ADAMS**  
IN CHARGE  
**K. PIRBAZARI**  
DATE  
**04/30/2019**

**PEPD  
RECORD SET**  
  
**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**  
  
PEPD  
PROPOSED UTILITIES RELOCATION PLAN  
VE01, VE02 3283+00 TO VE01, VE02 3291+65.95

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-D1807  
SCALE  
AS SHOWN  
SHEET NO.



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

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4/30/2019 12:21:37 PM c:\j\p\work\dir\haynesma\d0135596\k2L-UT-D1901.dgn haynesma

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. HIGGINS**  
 DRAWN BY  
**C. CUSSON**  
 CHECKED BY  
**C. ADAMS**  
 IN CHARGE  
**K. PIRBAZARI**  
 DATE  
**04/30/2019**

**PEPD  
 RECORD SET**

**NOT FOR  
 CONSTRUCTION**

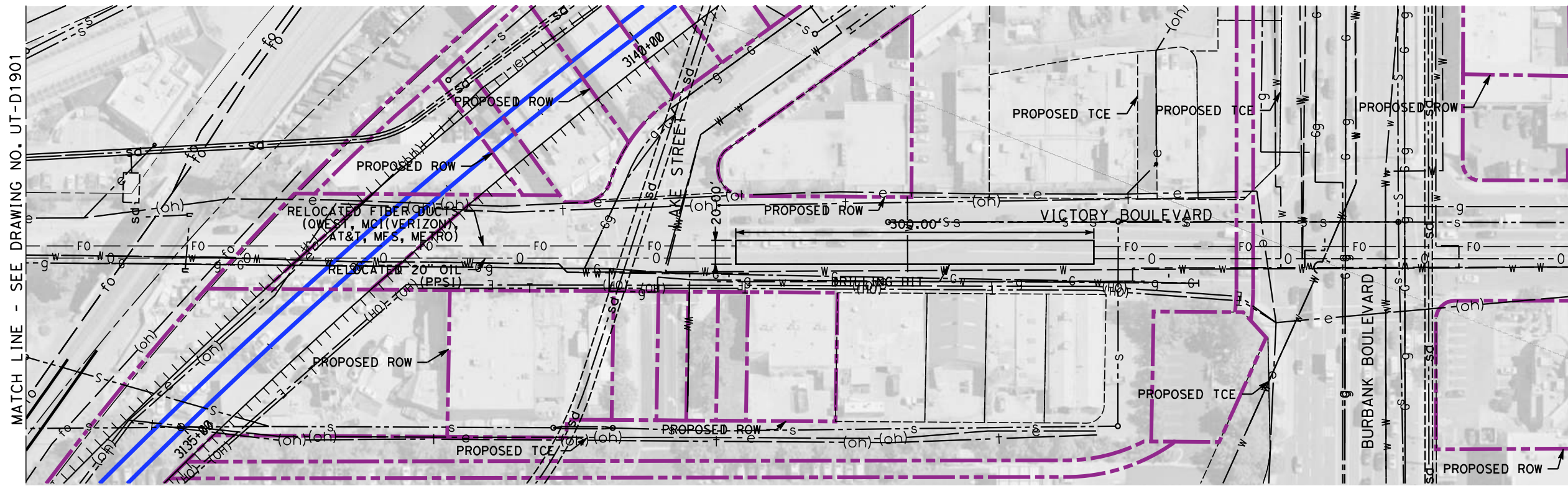


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 BURBANK TO LOS ANGELES**

PEPD  
 PROPOSED UTILITIES RELOCATION PLAN  
 20" OIL AND FIBER OPTIC DUCTS

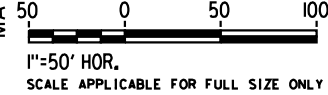
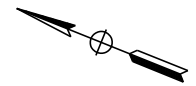
CONTRACT NO.  
 HSR14-39  
 DRAWING NO.  
 UT-D1901  
 SCALE  
 AS SHOWN  
 SHEET NO.





MATCH LINE - SEE DRAWING NO. UT-D1901

MATCH LINE - SEE DRAWING NO. UT-D1903



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

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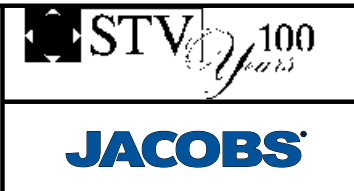
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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. HIGGINS**  
DRAWN BY  
**C. CUSSON**  
CHECKED BY  
**C. ADAMS**  
IN CHARGE  
**K. PIRBAZARI**  
DATE  
**04/30/2019**

**PEPD  
RECORD SET**

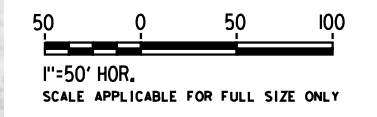
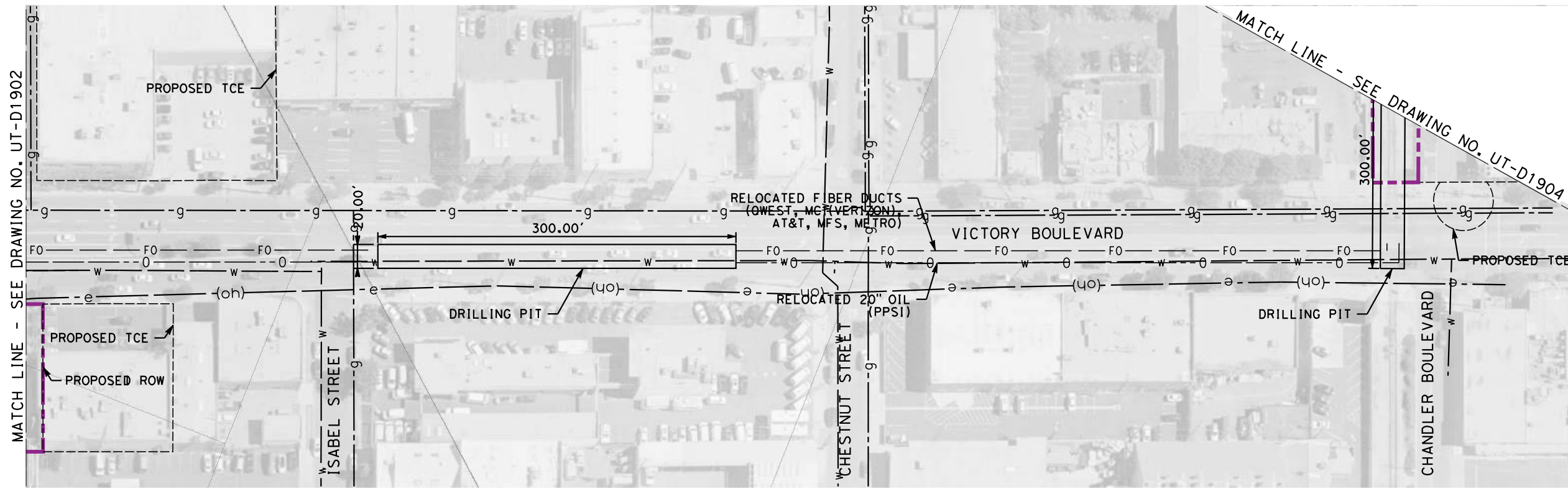
**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

PEPD  
PROPOSED UTILITIES RELOCATION PLAN  
20" OIL AND FIBER OPTIC DUCTS

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-D1902  
SCALE  
AS SHOWN  
SHEET NO.



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

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. HIGGINS**  
 DRAWN BY  
**C. CUSSON**  
 CHECKED BY  
**C. ADAMS**  
 IN CHARGE  
**K. PIRBAZARI**  
 DATE  
**04/30/2019**

**PEPD  
 RECORD SET**

**NOT FOR  
 CONSTRUCTION**

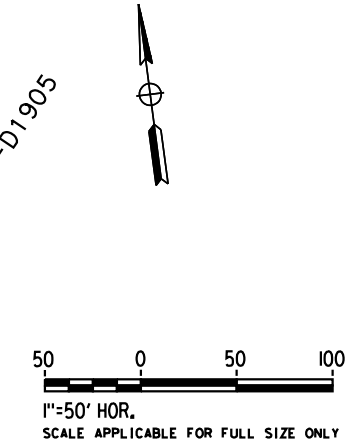
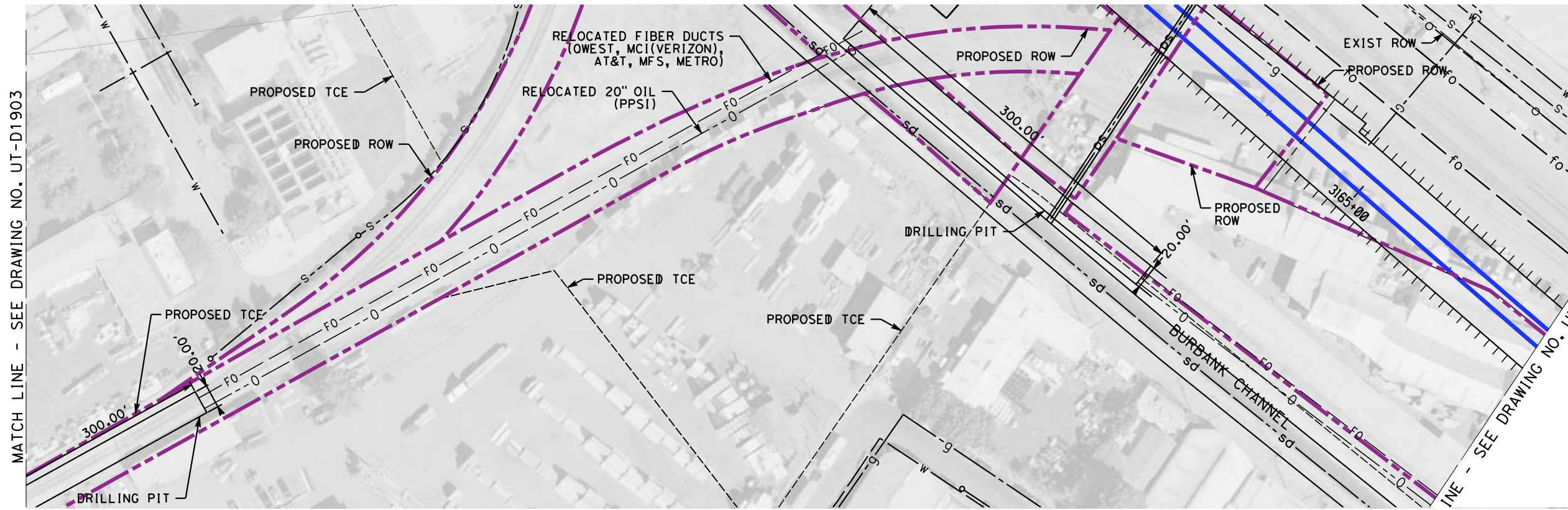


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 BURBANK TO LOS ANGELES**

PEPD  
 PROPOSED UTILITIES RELOCATION PLAN  
 20" OIL AND FIBER OPTIC DUCTS

CONTRACT NO.  
 HSR14-39  
 DRAWING NO.  
 UT-D1903  
 SCALE  
 AS SHOWN  
 SHEET NO.





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

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. HIGGINS**  
 DRAWN BY  
**C. CUSSON**  
 CHECKED BY  
**C. ADAMS**  
 IN CHARGE  
**K. PIRBAZARI**  
 DATE  
**04/30/2019**

**PEPD  
 RECORD SET**

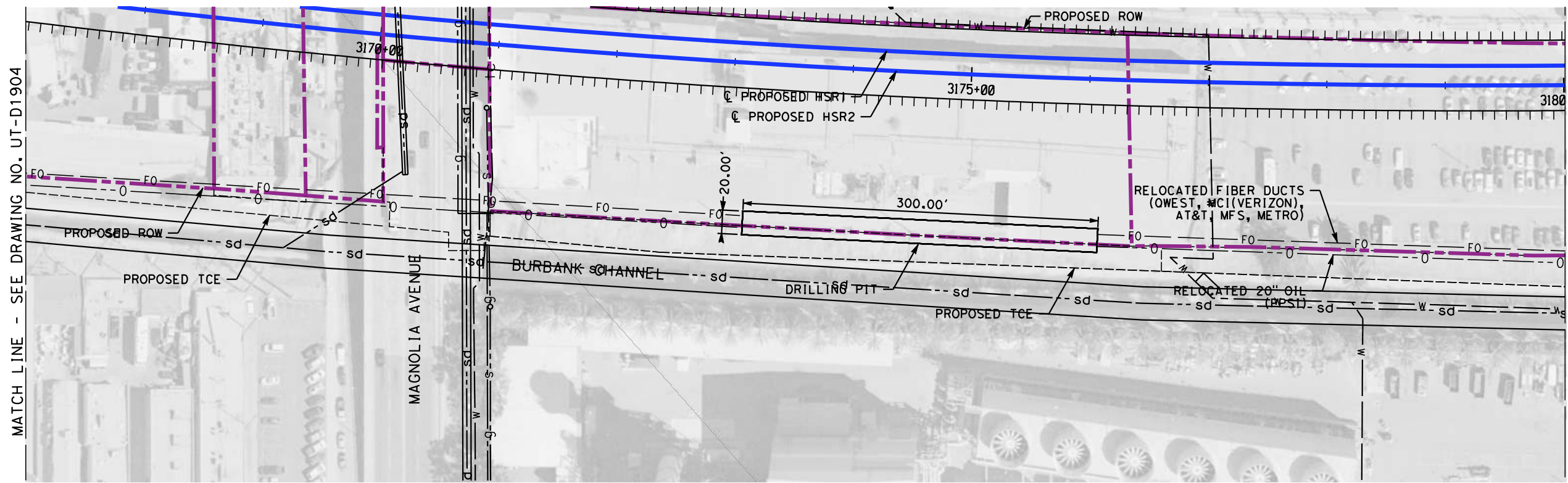
**NOT FOR  
 CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 BURBANK TO LOS ANGELES**

PEPD  
 PROPOSED UTILITIES RELOCATION PLAN  
 20" OIL AND FIBER OPTIC DUCTS

CONTRACT NO.  
 HSR14-39  
 DRAWING NO.  
 UT-D1904  
 SCALE  
 AS SHOWN  
 SHEET NO.



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

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. HIGGINS**  
 DRAWN BY  
**C. CUSSON**  
 CHECKED BY  
**C. ADAMS**  
 IN CHARGE  
**K. PIRBAZARI**  
 DATE  
**04/30/2019**

**PEPD  
 RECORD SET**

**NOT FOR  
 CONSTRUCTION**

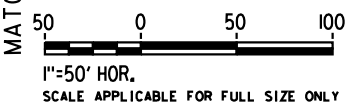
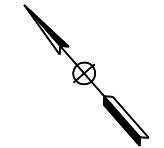
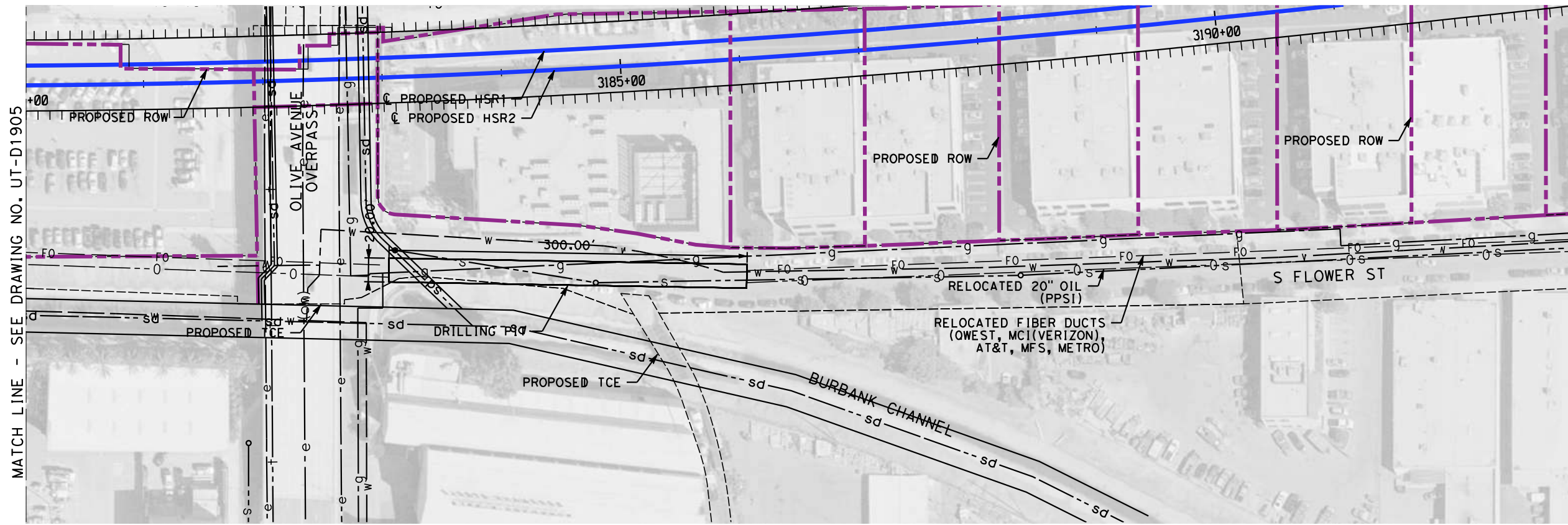


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 BURBANK TO LOS ANGELES**

PEPD  
 PROPOSED UTILITIES RELOCATION PLAN  
 20" OIL AND FIBER OPTIC DUCTS

CONTRACT NO.  
 HSR14-39  
 DRAWING NO.  
 UT-D1905  
 SCALE  
 AS SHOWN  
 SHEET NO.





MATCH LINE - SEE DRAWING NO. UT-D1905

MATCH LINE - SEE DRAWING NO. UT-D1907

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

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4/30/2019 12:24:12 PM c:\jip\pwworkdir\haynesma\d0135596\k2l-ut-d1906.dgn haynesma

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. HIGGINS**  
DRAWN BY  
**C. CUSSON**  
CHECKED BY  
**C. ADAMS**  
IN CHARGE  
**K. PIRBAZARI**  
DATE  
**04/30/2019**

**PEPD  
RECORD SET**

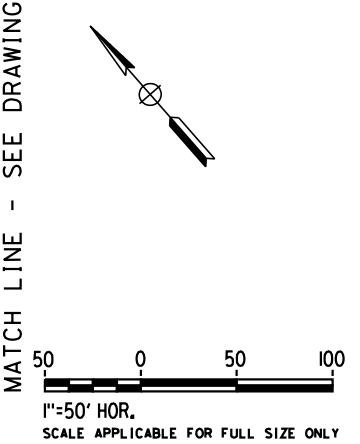
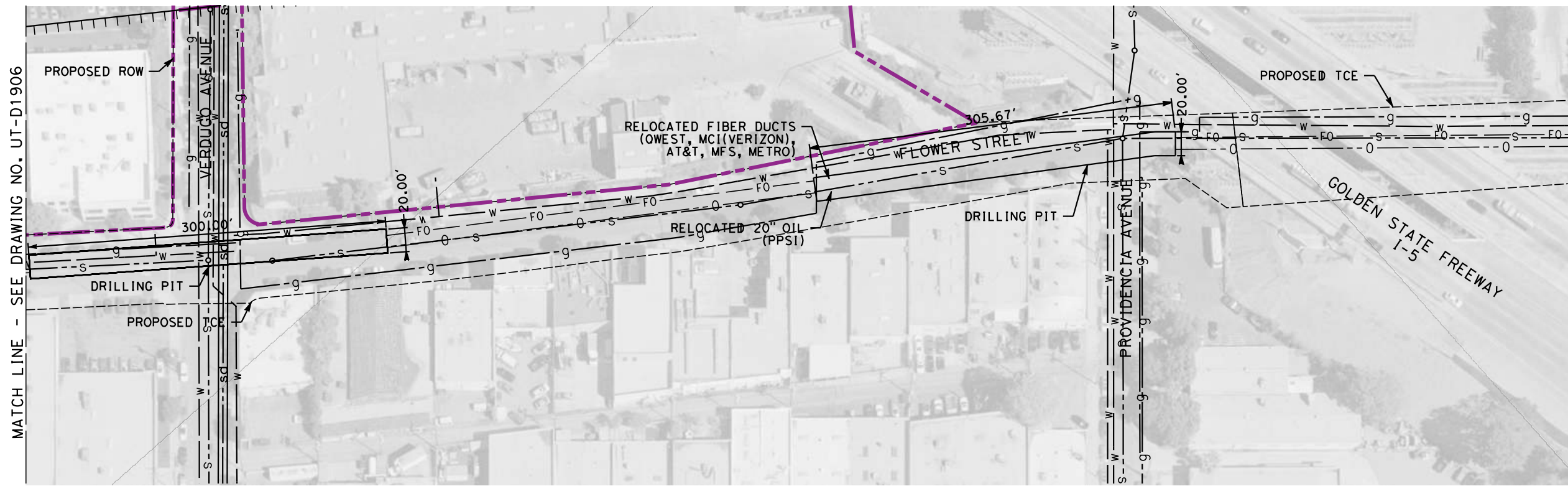
**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

PEPD  
PROPOSED UTILITIES RELOCATION PLAN  
20" OIL AND FIBER OPTIC DUCTS

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-D1906  
SCALE  
AS SHOWN  
SHEET NO.



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

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4/30/2019 12:24:43 PM c:\j\p\pwworkdir\haynesma\d0135596\k2l-ut-d1907.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. HIGGINS**  
 DRAWN BY  
**C. CUSSON**  
 CHECKED BY  
**C. ADAMS**  
 IN CHARGE  
**K. PIRBAZARI**  
 DATE  
**04/30/2019**

**PEPD  
 RECORD SET**

**NOT FOR  
 CONSTRUCTION**

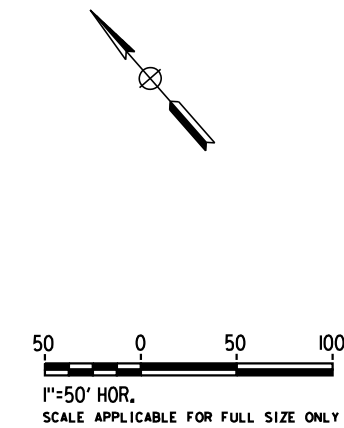
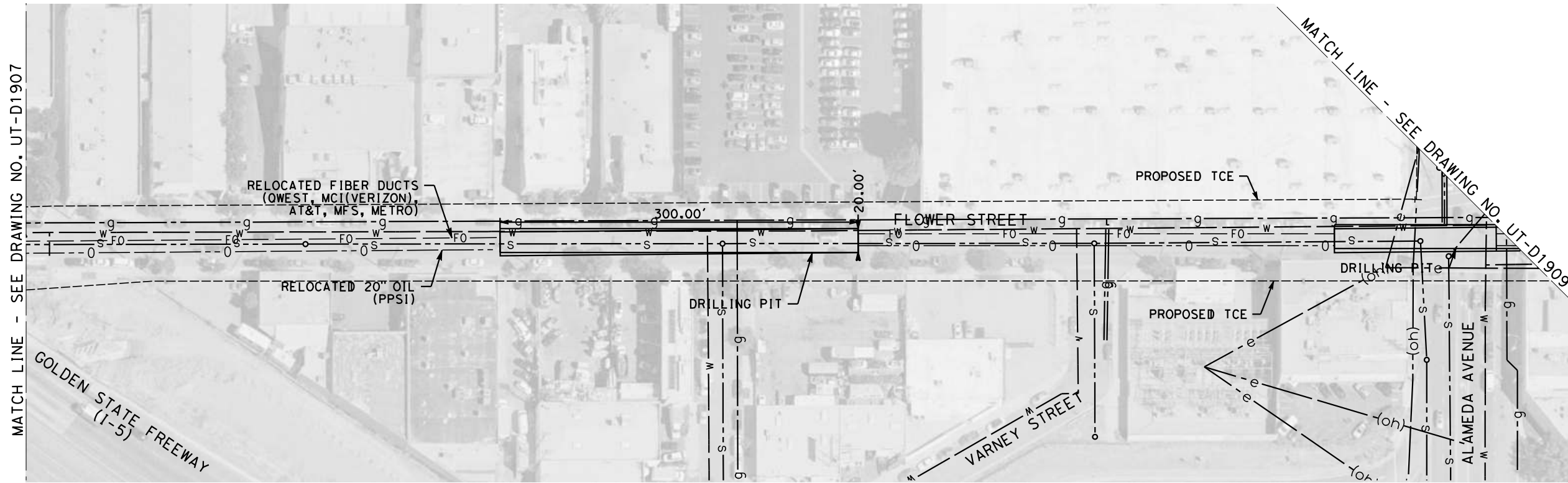


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 BURBANK TO LOS ANGELES**

PEPD  
 PROPOSED UTILITIES RELOCATION PLAN  
 20" OIL AND FIBER OPTIC DUCTS

CONTRACT NO.  
 HSR14-39  
 DRAWING NO.  
 UT-D1907  
 SCALE  
 AS SHOWN  
 SHEET NO.





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

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 FOR INTERNAL USE ONLY

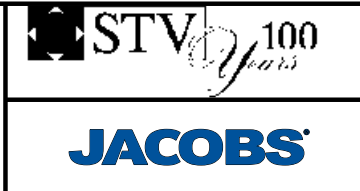
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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. HIGGINS**  
 DRAWN BY  
**C. CUSSON**  
 CHECKED BY  
**C. ADAMS**  
 IN CHARGE  
**K. PIRBAZARI**  
 DATE  
**04/30/2019**

**PEPD  
 RECORD SET**

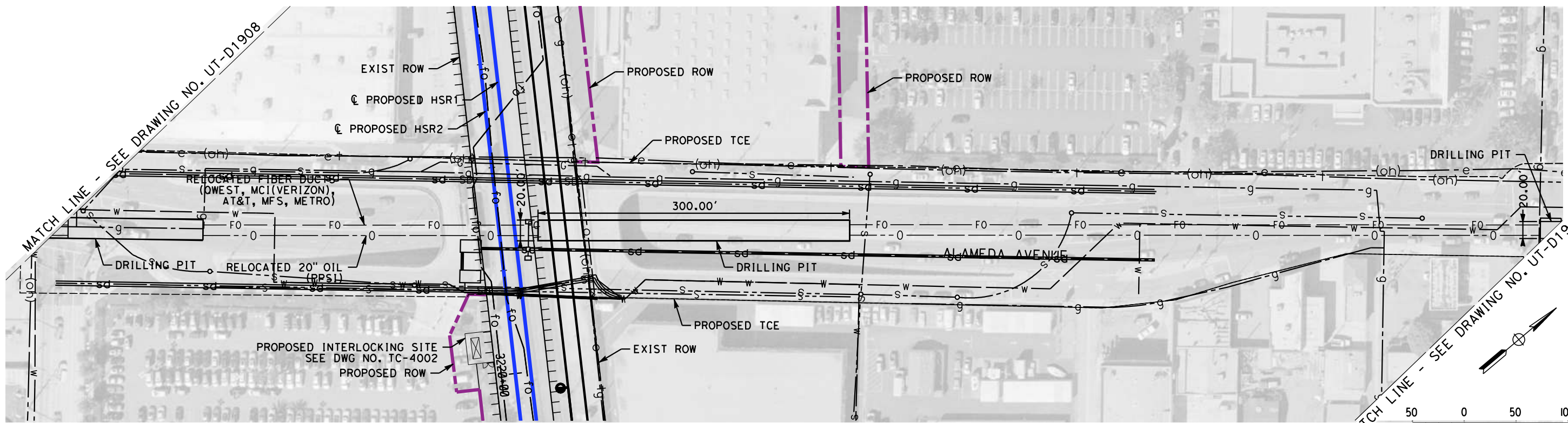
**NOT FOR  
 CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 BURBANK TO LOS ANGELES**

PEPD  
 PROPOSED UTILITIES RELOCATION PLAN  
 20" OIL AND FIBER OPTIC DUCTS

CONTRACT NO.  
 HSR14-39  
 DRAWING NO.  
 UT-D1908  
 SCALE  
 AS SHOWN  
 SHEET NO.



50 0 50 100  
 1"=50' HOR.  
 SCALE APPLICABLE FOR FULL SIZE ONLY

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

NOT FOR CONSTRUCTION  
 FOR INTERNAL USE ONLY

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. HIGGINS**  
 DRAWN BY  
**C. CUSSON**  
 CHECKED BY  
**C. ADAMS**  
 IN CHARGE  
**K. PIRBAZARI**  
 DATE  
**04/30/2019**

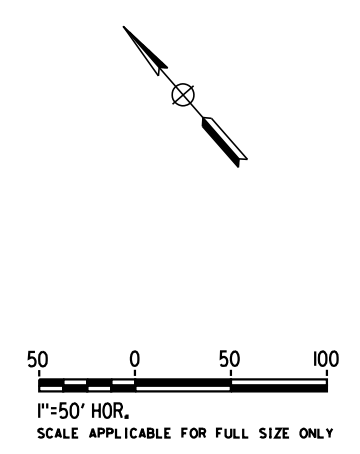
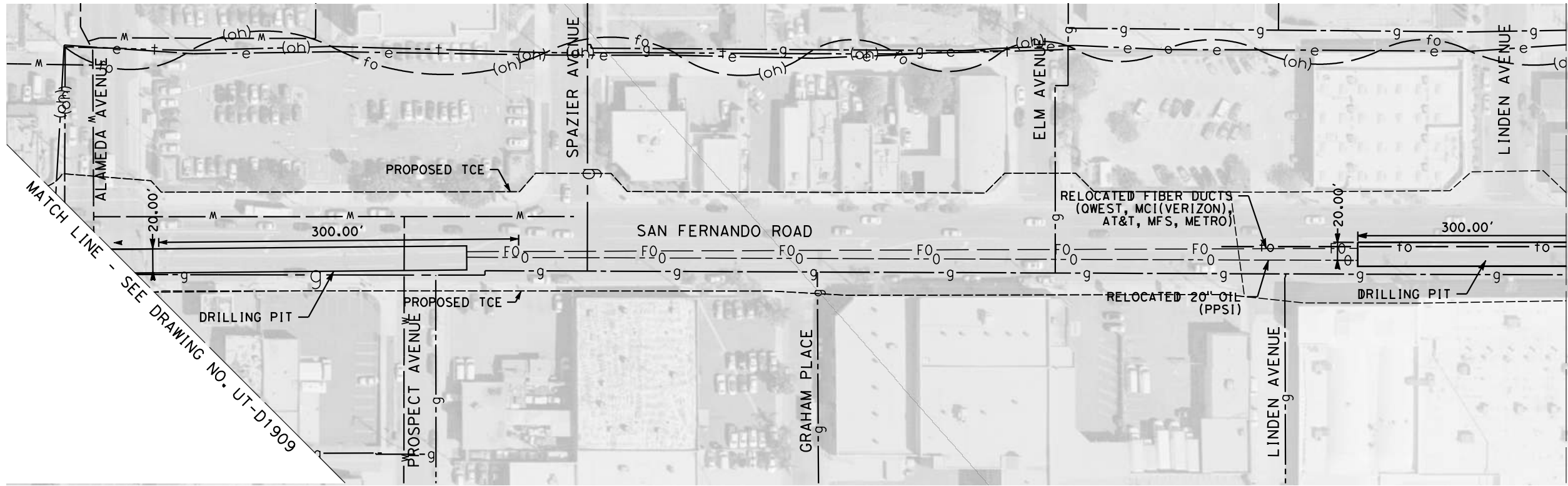
**PEPD  
 RECORD SET**  
  
**NOT FOR  
 CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 BURBANK TO LOS ANGELES**  
  
 PEPD  
 PROPOSED UTILITIES RELOCATION PLAN  
 20" OIL AND FIBER OPTIC DUCTS

CONTRACT NO.  
**HSR14-39**  
 DRAWING NO.  
**UT-D1909**  
 SCALE  
**AS SHOWN**  
 SHEET NO.






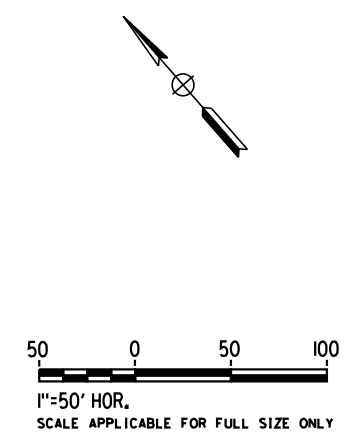
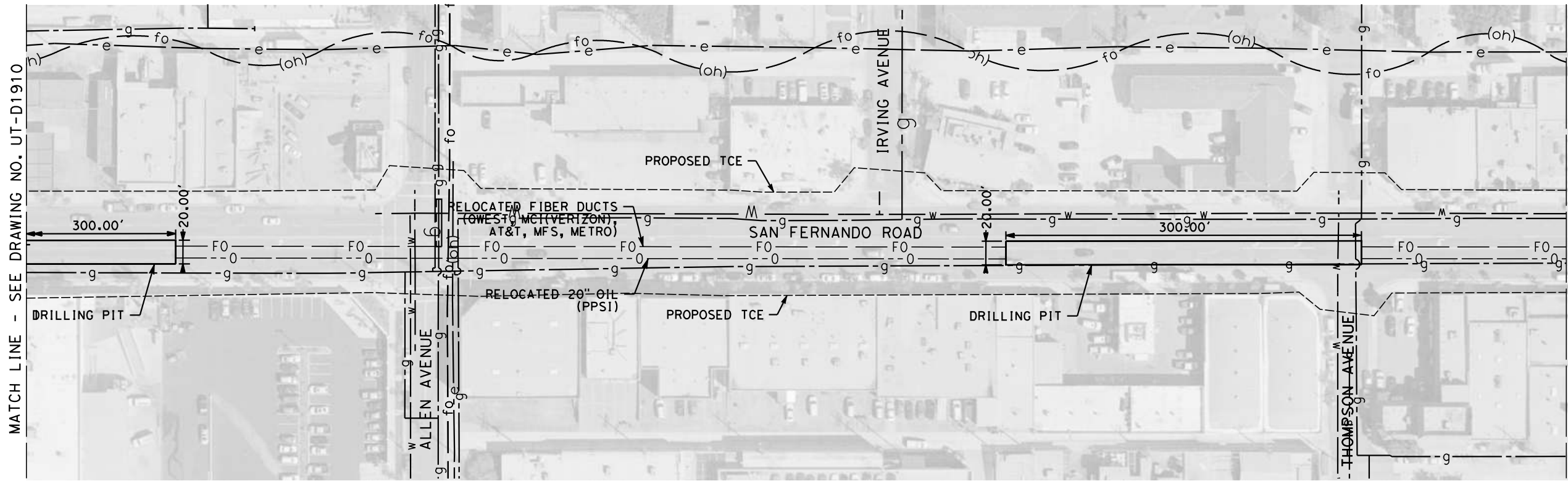


NOTE:  
 1. FOR DRILLING PIT GENERAL CROSS SECTIONS SEE DRAWING UT-D3942.

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4/30/2019 12:26:20 PM c:\j\p\pwworkdir\haynesma\d0135596\k2l-ut-d1910.dgn haynesma

					DESIGNED BY <b>J. HIGGINS</b> DRAWN BY <b>C. CUSSON</b> CHECKED BY <b>C. ADAMS</b> IN CHARGE <b>K. PIRBAZARI</b> DATE <b>04/30/2019</b>	<b>PEPD          RECORD SET</b>  <b>NOT FOR          CONSTRUCTION</b>	  		<b>CALIFORNIA HIGH-SPEED TRAIN PROJECT          BURBANK TO LOS ANGELES</b>  PEPD PROPOSED UTILITIES RELOCATION PLAN 20" OIL AND FIBER OPTIC DUCTS	CONTRACT NO. <b>HSR14-39</b> DRAWING NO. <b>UT-D1910</b> SCALE <b>AS SHOWN</b> SHEET NO.
REV	DATE	BY	CHK	APP	DESCRIPTION					



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

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 FOR INTERNAL USE ONLY

4/30/2019 12:26:54 PM c:\j\p\work\dir\haynesma\d0135596\k2L-UT-D1911.dgn haynesma

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. HIGGINS**  
 DRAWN BY  
**C. CUSSON**  
 CHECKED BY  
**C. ADAMS**  
 IN CHARGE  
**K. PIRBAZARI**  
 DATE  
**04/30/2019**

**PEPD  
 RECORD SET**

**NOT FOR  
 CONSTRUCTION**

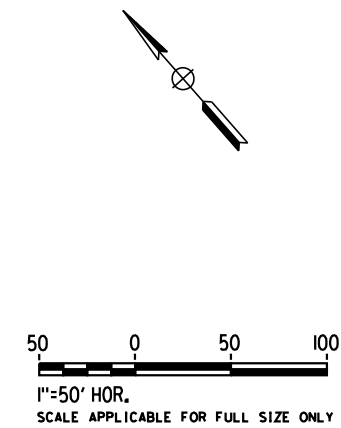
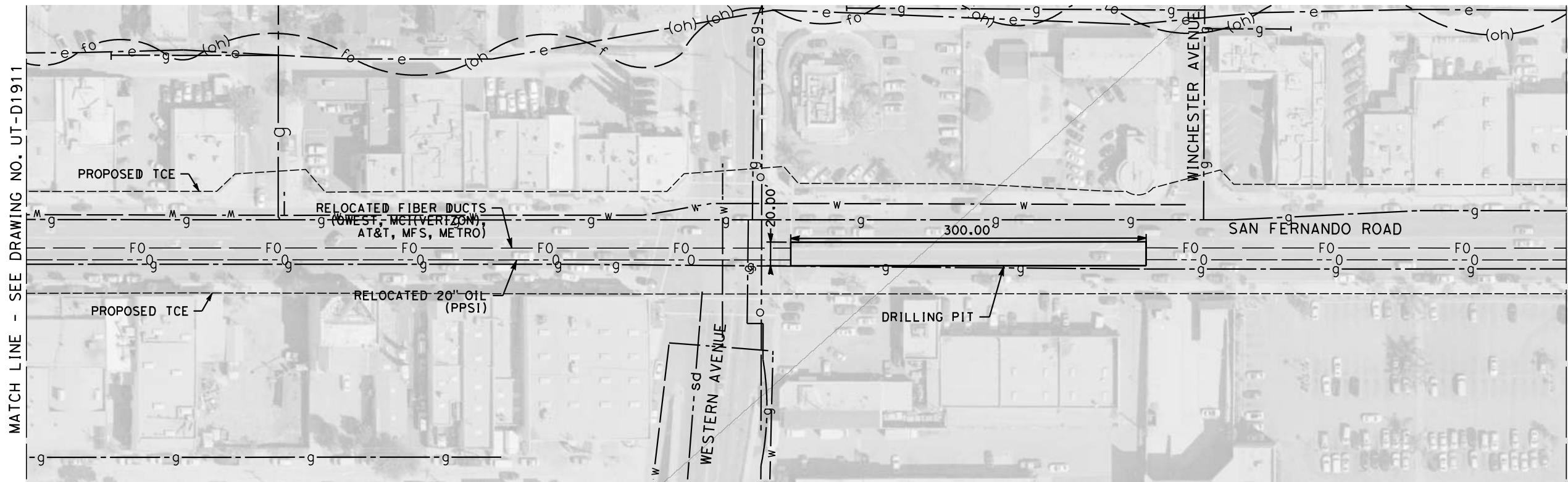


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 BURBANK TO LOS ANGELES**

PEPD  
 PROPOSED UTILITIES RELOCATION PLAN  
 20" OIL AND FIBER OPTIC DUCTS

CONTRACT NO.  
**HSR14-39**  
 DRAWING NO.  
**UT-D1911**  
 SCALE  
**AS SHOWN**  
 SHEET NO.





MATCH LINE - SEE DRAWING NO. UT-D1911

MATCH LINE - SEE DRAWING NO. UT-D1913

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

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FOR INTERNAL USE ONLY

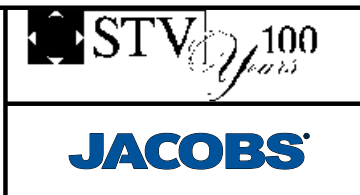
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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. HIGGINS**  
DRAWN BY  
**C. CUSSON**  
CHECKED BY  
**C. ADAMS**  
IN CHARGE  
**K. PIRBAZARI**  
DATE  
**04/30/2019**

**PEPD  
RECORD SET**

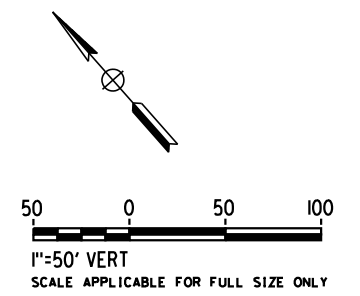
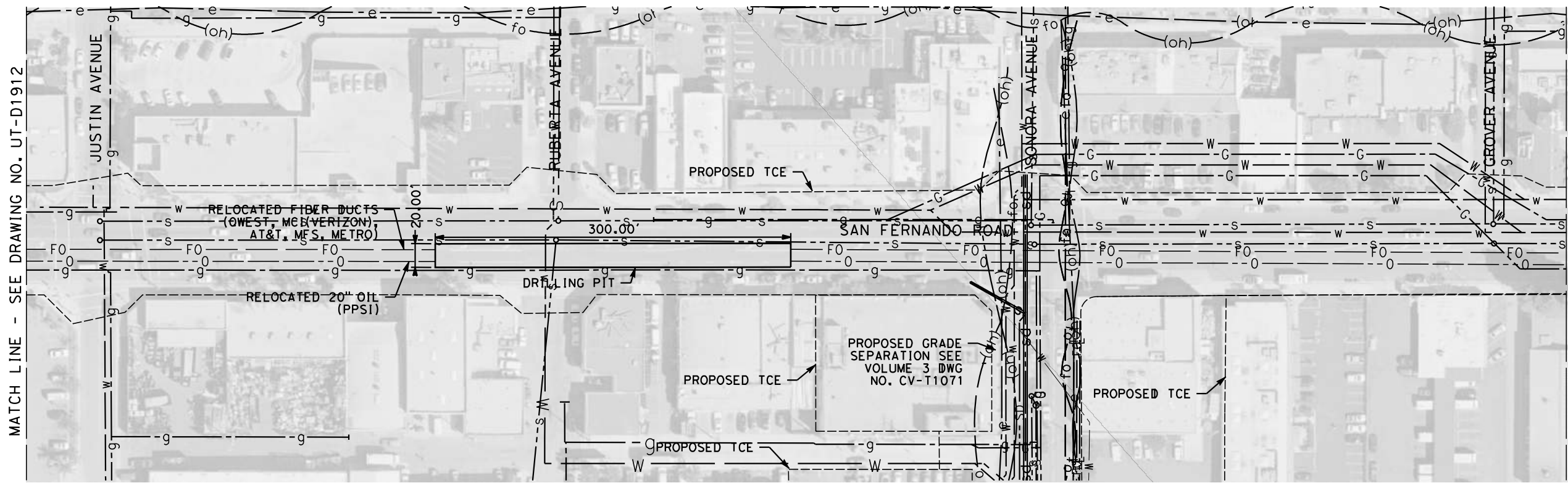
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

PEPD  
PROPOSED UTILITIES RELOCATION PLAN  
20" OIL AND FIBER OPTIC DUCTS

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-D1912  
SCALE  
AS SHOWN  
SHEET NO.



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

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. HIGGINS**  
 DRAWN BY  
**C. CUSSON**  
 CHECKED BY  
**C. ADAMS**  
 IN CHARGE  
**K. PIRBAZARI**  
 DATE  
**04/30/2019**

**PEPD  
 RECORD SET**

**NOT FOR  
 CONSTRUCTION**



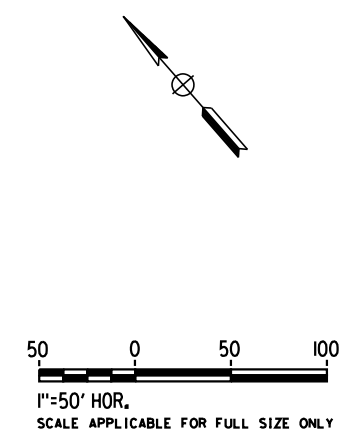
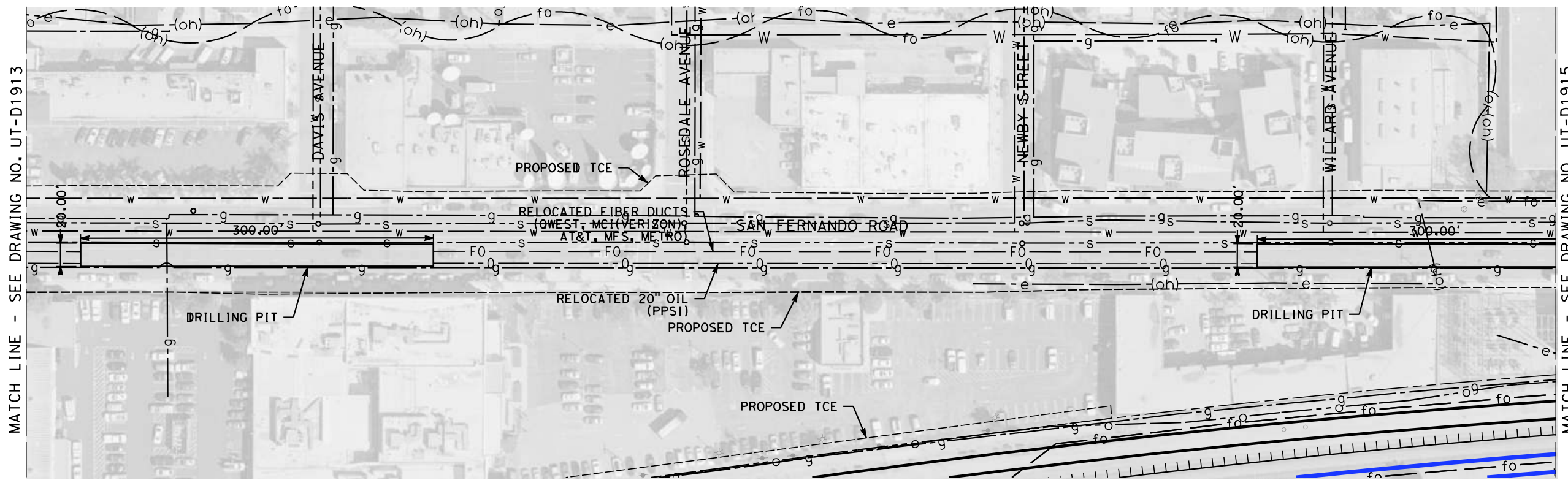
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 BURBANK TO LOS ANGELES**

PEPD  
 PROPOSED UTILITIES RELOCATION PLAN  
 20" OIL AND FIBER OPTIC DUCTS

CONTRACT NO.  
 HSR14-39  
 DRAWING NO.  
 UT-D1913  
 SCALE  
 AS SHOWN  
 SHEET NO.



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

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FOR INTERNAL USE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. HIGGINS**  
DRAWN BY  
**C. CUSSON**  
CHECKED BY  
**C. ADAMS**  
IN CHARGE  
**K. PIRBAZARI**  
DATE  
**04/30/2019**

**PEPD  
RECORD SET**

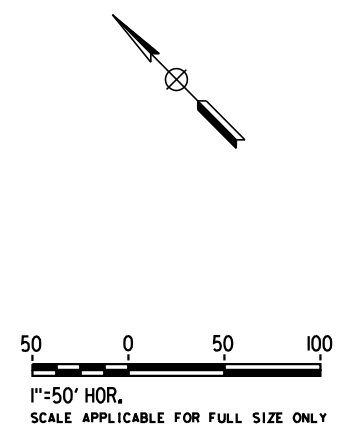
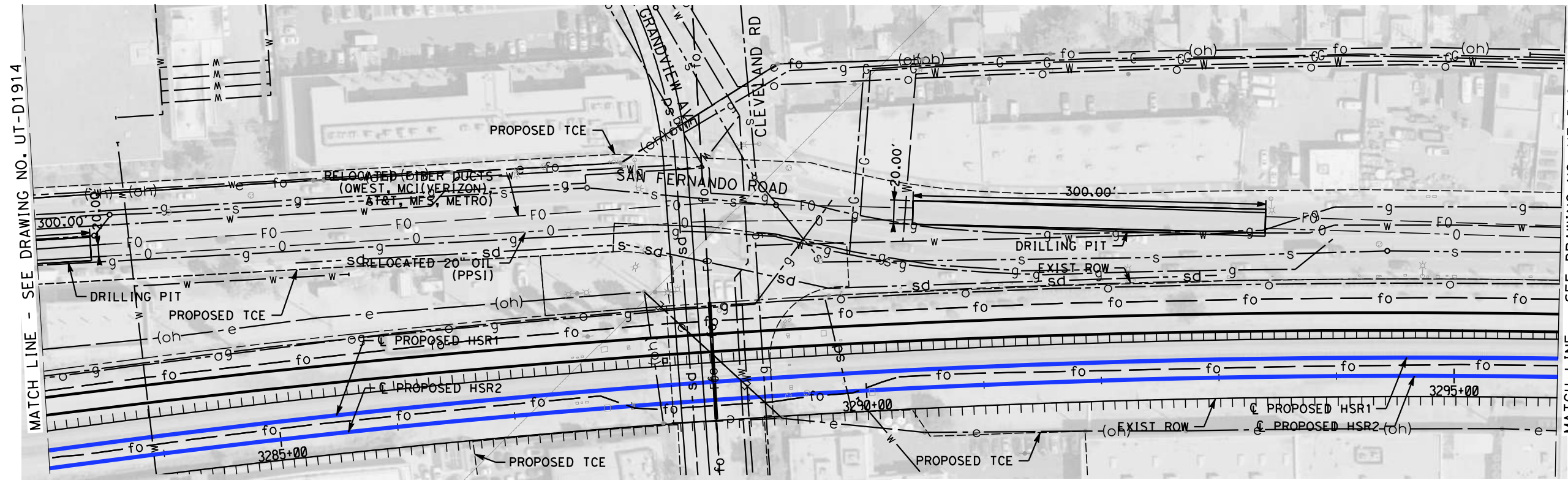
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CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

PEPD  
PROPOSED UTILITIES RELOCATION PLAN  
20" OIL AND FIBER OPTIC DUCTS

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-D1914  
SCALE  
AS SHOWN  
SHEET NO.



MATCH LINE - SEE DRAWING NO. UT-D1914

MATCH LINE - SEE DRAWING NO. UT-D1916

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

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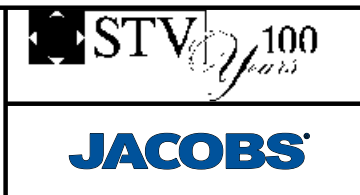
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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. HIGGINS**  
DRAWN BY  
**C. CUSSON**  
CHECKED BY  
**C. ADAMS**  
IN CHARGE  
**K. PIRBAZARI**  
DATE  
**04/30/2019**

**PEPD  
RECORD SET**

**NOT FOR  
CONSTRUCTION**

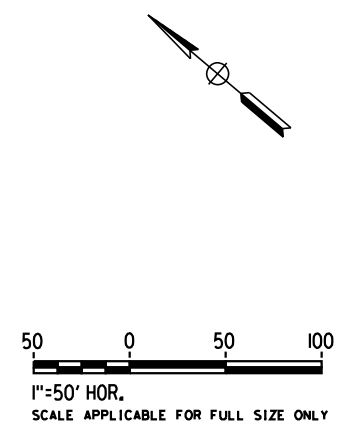
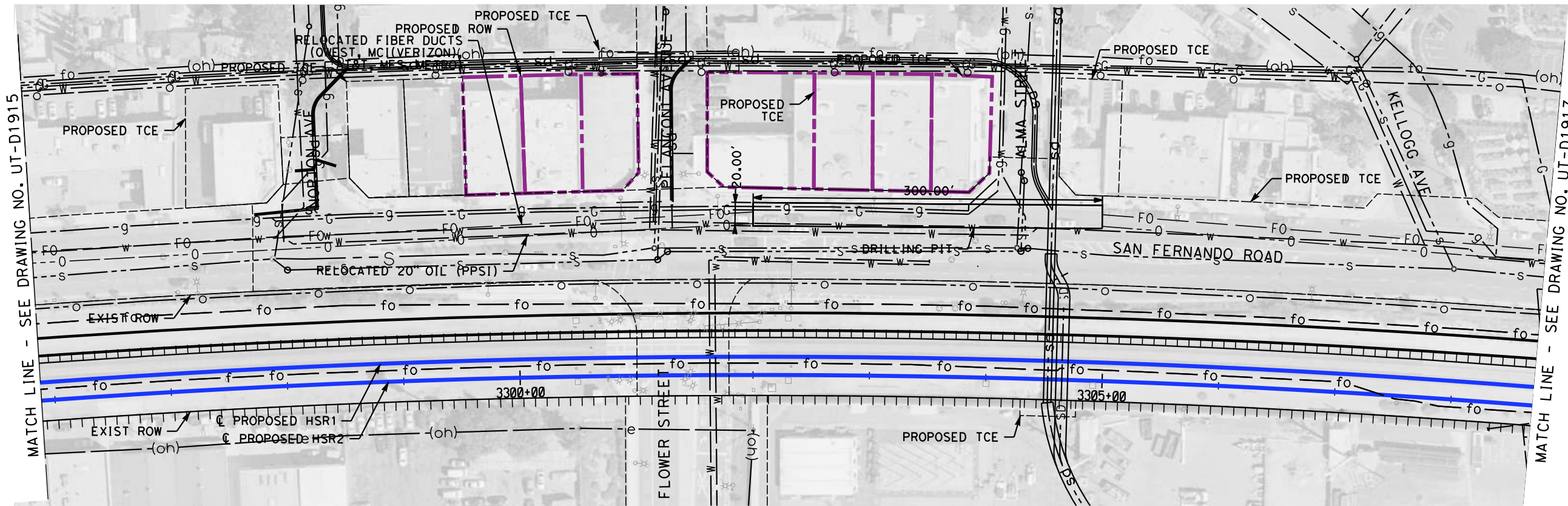


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

PEPD  
PROPOSED UTILITIES RELOCATION PLAN  
20" OIL AND FIBER OPTIC DUCTS

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-D1915  
SCALE  
AS SHOWN  
SHEET NO.





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

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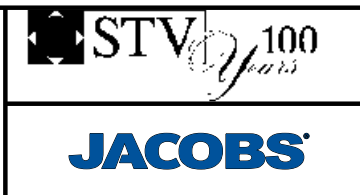
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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. HIGGINS**  
 DRAWN BY  
**C. CUSSON**  
 CHECKED BY  
**C. ADAMS**  
 IN CHARGE  
**K. PIRBAZARI**  
 DATE  
**04/30/2019**

**PEPD  
 RECORD SET**

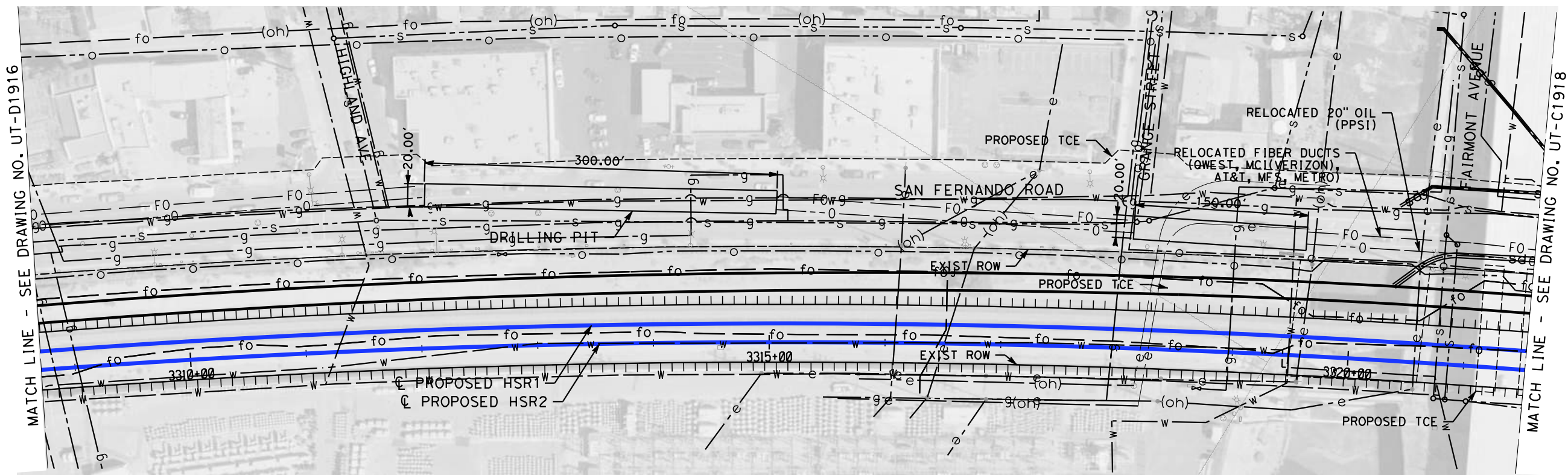
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 BURBANK TO LOS ANGELES**

PEPD  
 PROPOSED UTILITIES RELOCATION PLAN  
 20" OIL AND FIBER OPTIC DUCTS

CONTRACT NO.  
**HSR14-39**  
 DRAWING NO.  
**UT-D1916**  
 SCALE  
**AS SHOWN**  
 SHEET NO.



**NOTE:**

1. FOR DRILLING PIT GENERAL CROSS SECTIONS SEE DRAWING UT-D3942.
2. FIBER AND OIL LINES TO BE SUSPENDED UNDER BRIDGE.

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. HIGGINS**  
DRAWN BY  
**C. CUSSON**  
CHECKED BY  
**C. ADAMS**  
IN CHARGE  
**K. PIRBAZARI**  
DATE  
**04/30/2019**

**PEPD  
RECORD SET**

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CONSTRUCTION**

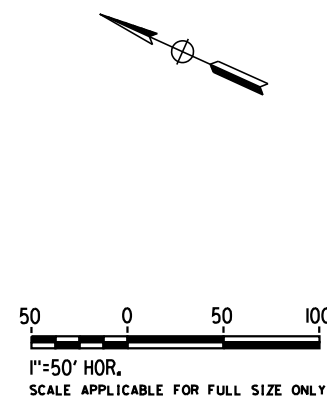
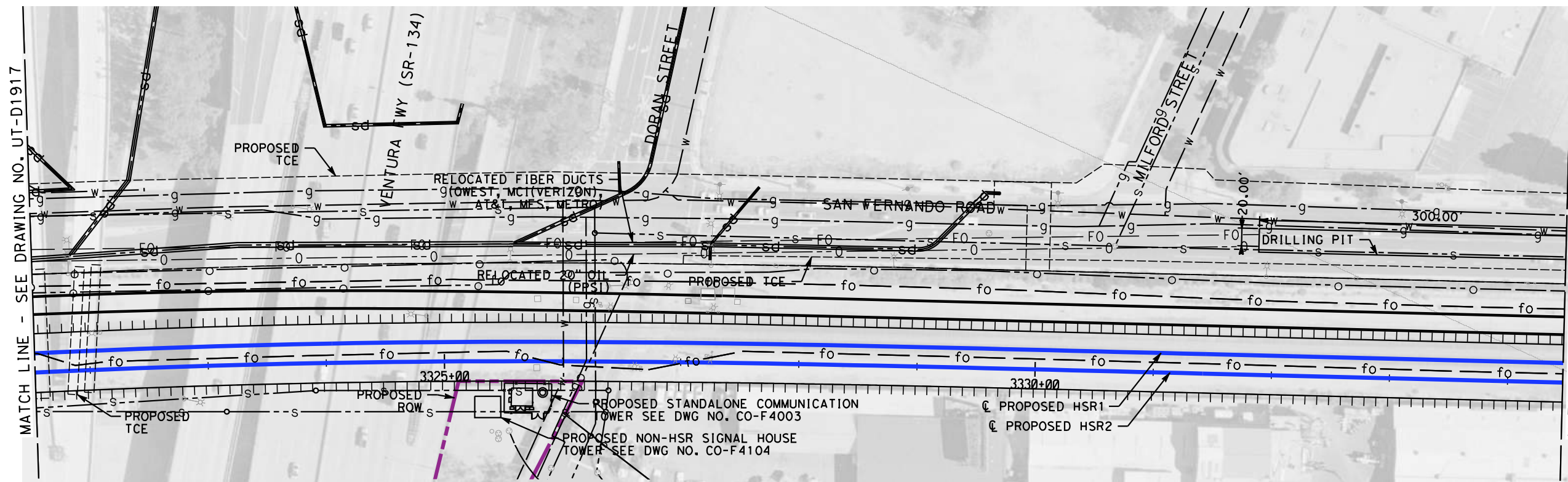


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

PEPD  
PROPOSED UTILITIES RELOCATION PLAN  
20" OIL AND FIBER OPTIC DUCTS

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-D1917  
SCALE  
AS SHOWN  
SHEET NO.





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

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. HIGGINS**  
DRAWN BY  
**C. CUSSON**  
CHECKED BY  
**C. ADAMS**  
IN CHARGE  
**K. PIRBAZARI**  
DATE  
**04/30/2019**

**PEPD  
RECORD SET**

**NOT FOR  
CONSTRUCTION**



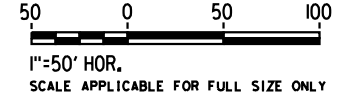
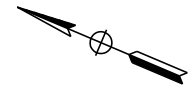
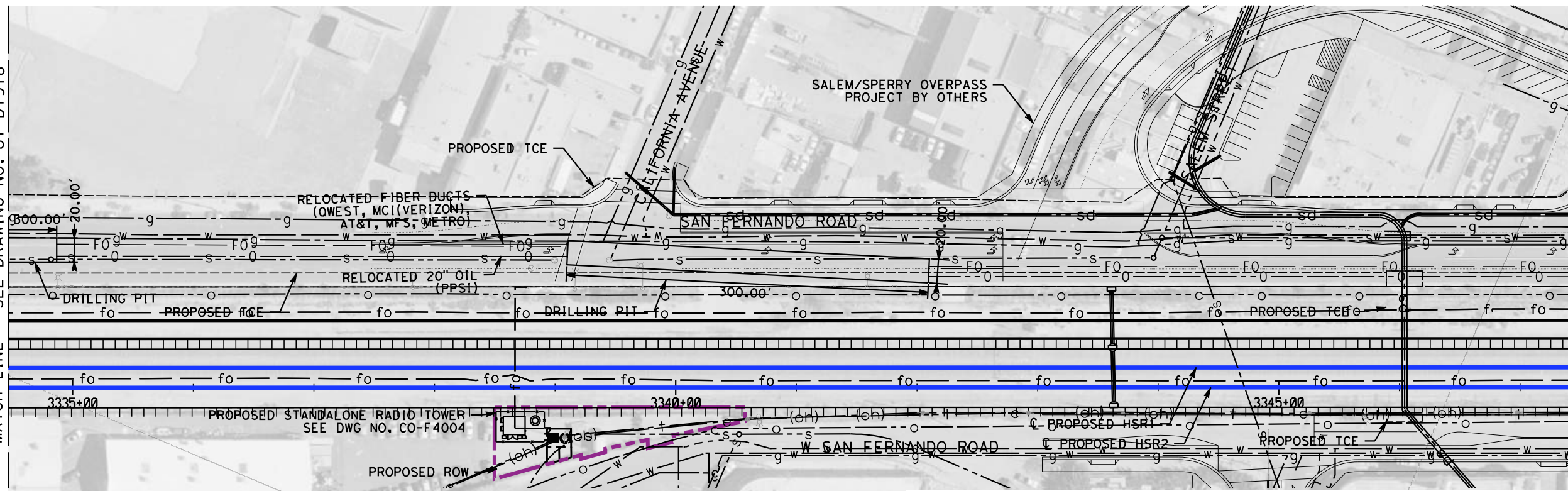
**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

PEPD  
PROPOSED UTILITIES RELOCATION PLAN  
20" OIL AND FIBER OPTIC DUCTS

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-D1918  
SCALE  
AS SHOWN  
SHEET NO.

MATCH LINE - SEE DRAWING NO. UT-D1918

MATCH LINE - SEE DRAWING NO. UT-D1920



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

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4/30/2019 12:31:28 PM c:\j\p\pwworkdir\haynesma\d0135596\k2L-UT-D1919.dgn haynesma

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. HIGGINS**  
DRAWN BY  
**C. CUSSON**  
CHECKED BY  
**C. ADAMS**  
IN CHARGE  
**K. PIRBAZARI**  
DATE  
**04/30/2019**

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RECORD SET**

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CONSTRUCTION**

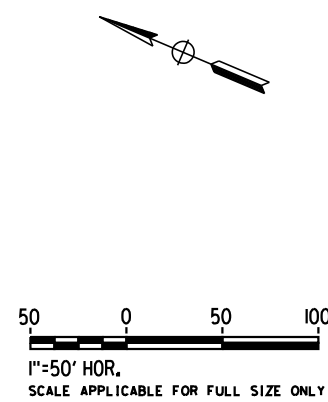
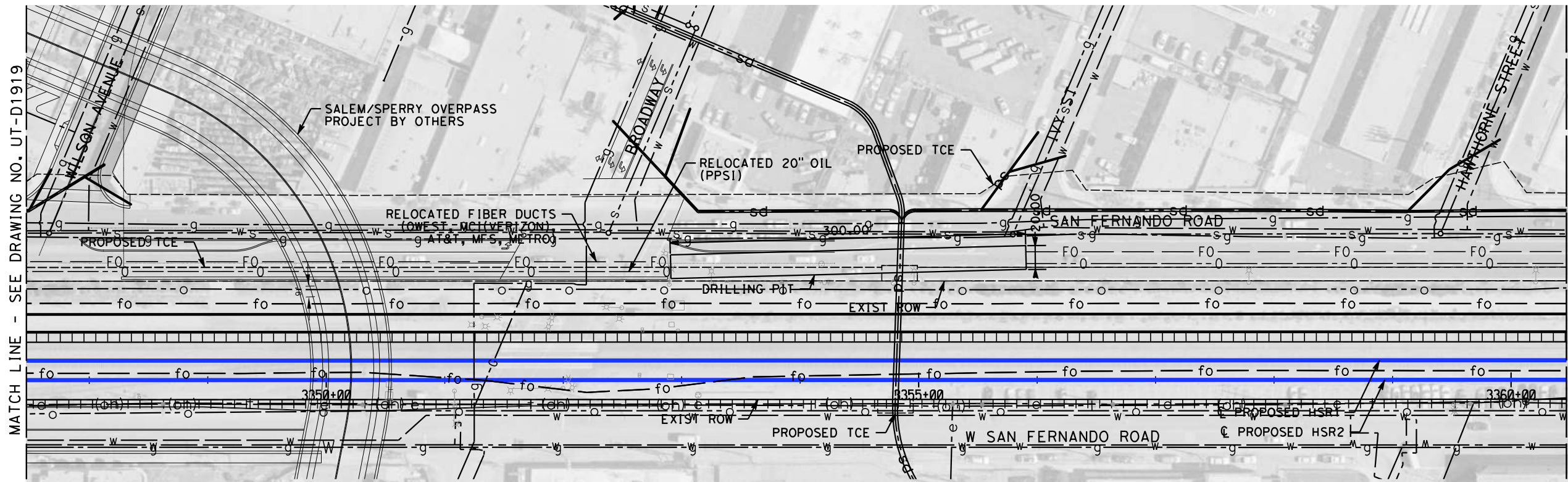


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

PEPD  
PROPOSED UTILITIES RELOCATION PLAN  
20" OIL AND FIBER OPTIC DUCTS

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-D1919  
SCALE  
AS SHOWN  
SHEET NO.





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

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. HIGGINS**

DRAWN BY  
**C. CUSSON**

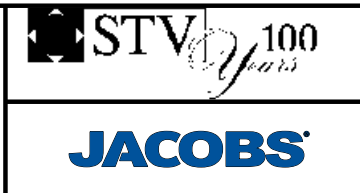
CHECKED BY  
**C. ADAMS**

IN CHARGE  
**K. PIRBAZARI**

DATE  
**04/30/2019**

**PEPD  
 RECORD SET**

**NOT FOR  
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 BURBANK TO LOS ANGELES**

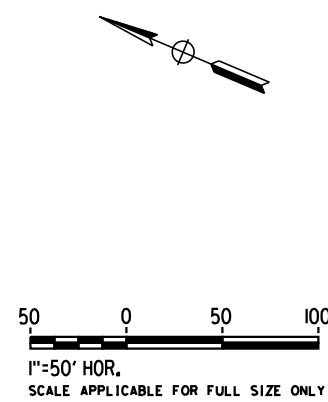
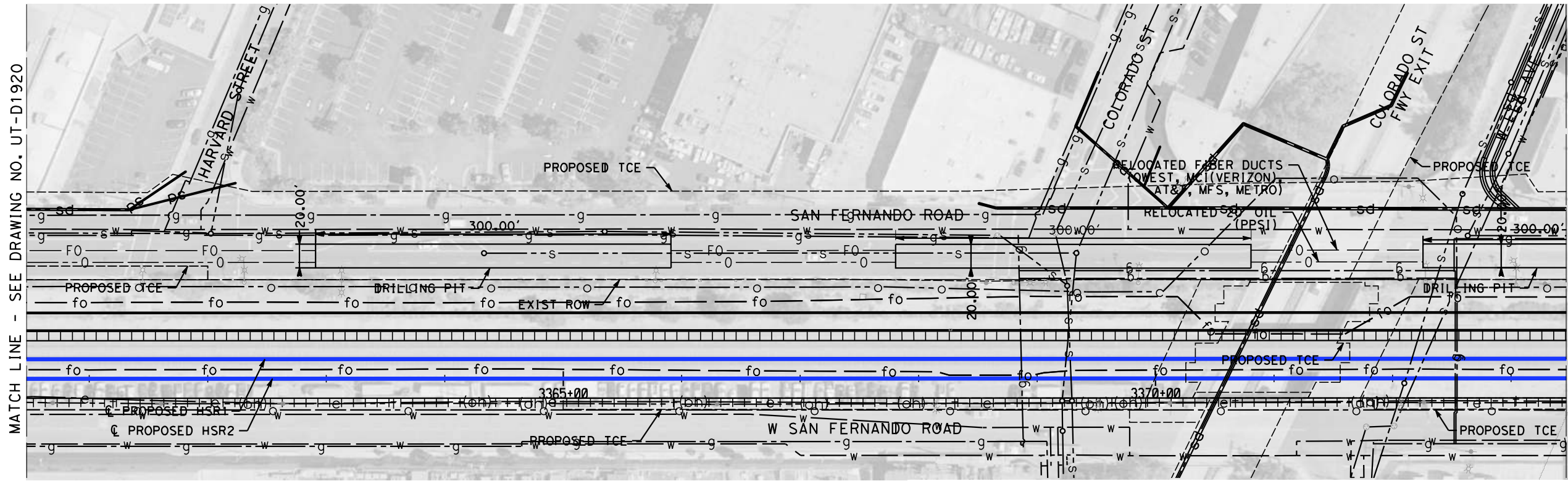
PEPD  
 PROPOSED UTILITIES RELOCATION PLAN  
 20" OIL AND FIBER OPTIC DUCTS

CONTRACT NO.  
HSR14-39

DRAWING NO.  
UT-D1920

SCALE  
AS SHOWN

SHEET NO.



MATCH LINE - SEE DRAWING NO. UT-D1920

MATCH LINE - SEE DRAWING NO. UT-D1922

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

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4/30/2019 12:32:32 PM c:\j\p\pwworkdir\haynesma\d0135596\k2l-ut-d1921.dgn haynesma

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. HIGGINS**  
DRAWN BY  
**C. CUSSON**  
CHECKED BY  
**C. ADAMS**  
IN CHARGE  
**K. PIRBAZARI**  
DATE  
**04/30/2019**

**PEPD  
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**NOT FOR  
CONSTRUCTION**

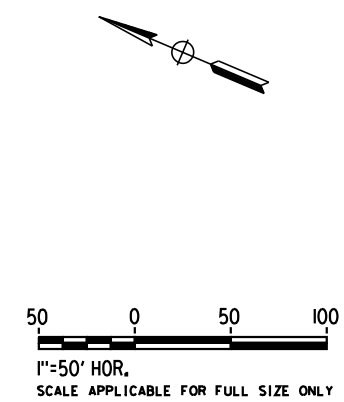
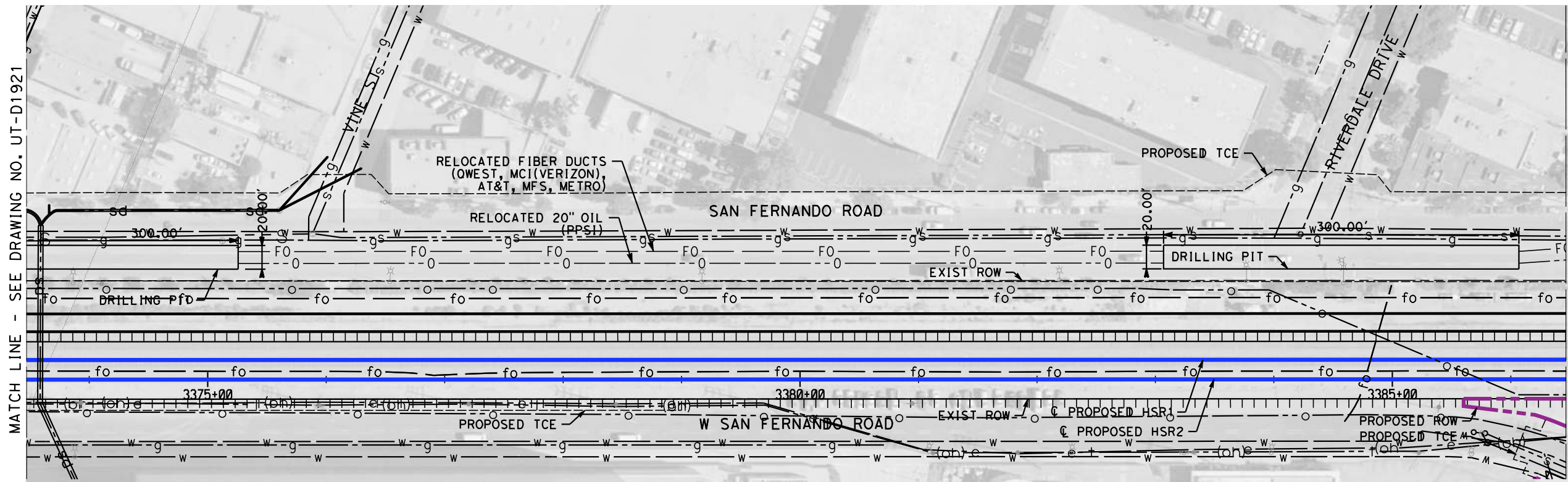


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

PEPD  
PROPOSED UTILITIES RELOCATION PLAN  
20" OIL AND FIBER OPTIC DUCTS

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
UT-D1921  
SCALE  
AS SHOWN  
SHEET NO.





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

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. HIGGINS**  
 DRAWN BY  
**C. CUSSON**  
 CHECKED BY  
**C. ADAMS**  
 IN CHARGE  
**K. PIRBAZARI**  
 DATE  
**04/30/2019**

**PEPD  
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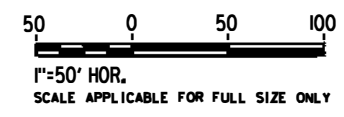
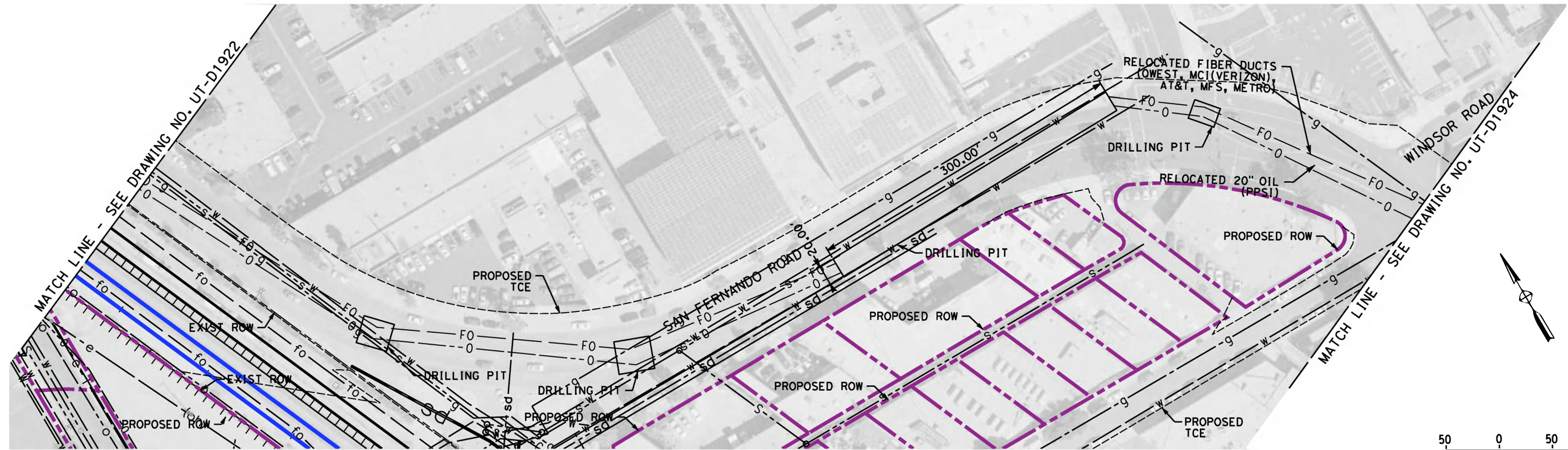
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
 BURBANK TO LOS ANGELES**

PEPD  
 PROPOSED UTILITIES RELOCATION PLAN  
 20" OIL AND FIBER OPTIC DUCTS

CONTRACT NO.  
 HSR14-39  
 DRAWING NO.  
 UT-D1922  
 SCALE  
 AS SHOWN  
 SHEET NO.



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

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. HIGGINS**  
DRAWN BY  
**C. CUSSON**  
CHECKED BY  
**C. ADAMS**  
IN CHARGE  
**K. PIRBAZARI**  
DATE  
**04/30/2019**

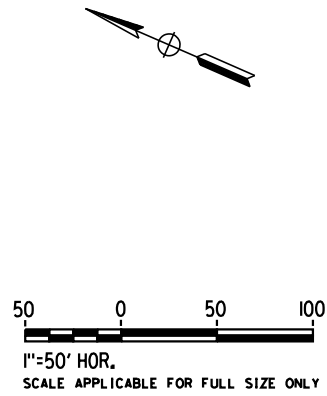
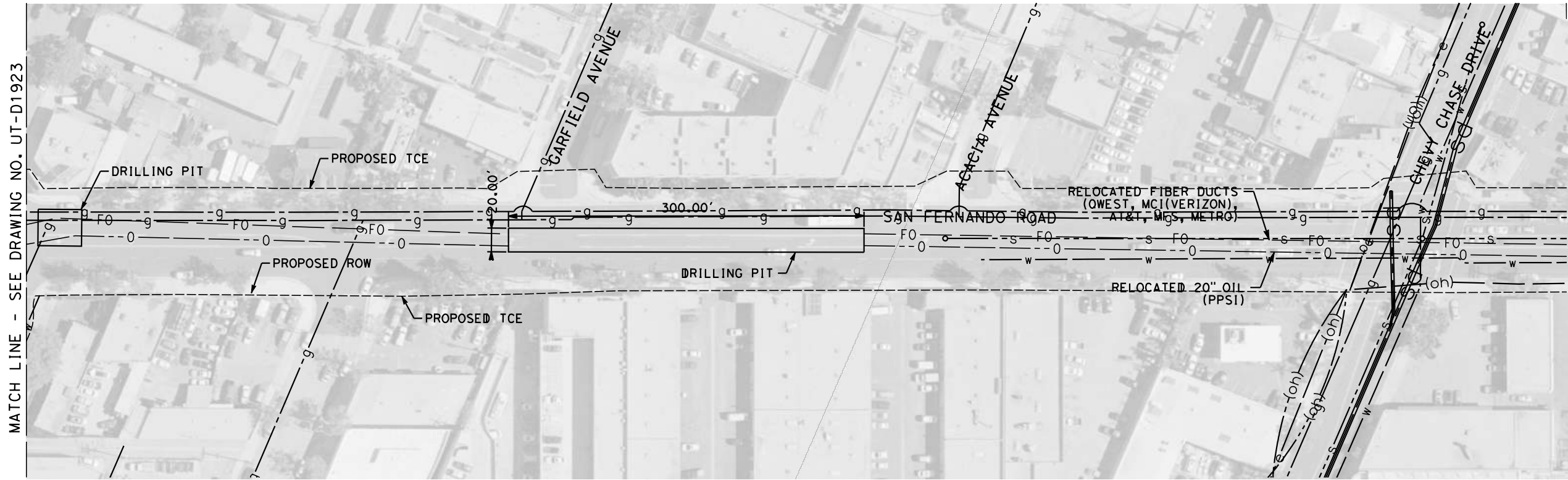
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**  
  
PEPD  
PROPOSED UTILITIES RELOCATION PLAN  
20" OIL AND FIBER OPTIC DUCTS

CONTRACT NO.  
**HSR14-39**  
DRAWING NO.  
**UT-D1923**  
SCALE  
**AS SHOWN**  
SHEET NO.





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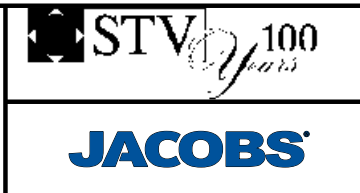
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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. HIGGINS**  
 DRAWN BY  
**C. CUSSON**  
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**C. ADAMS**  
 IN CHARGE  
**K. PIRBAZARI**  
 DATE  
**04/30/2019**

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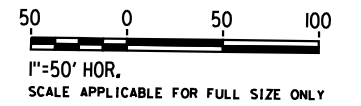
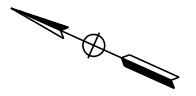
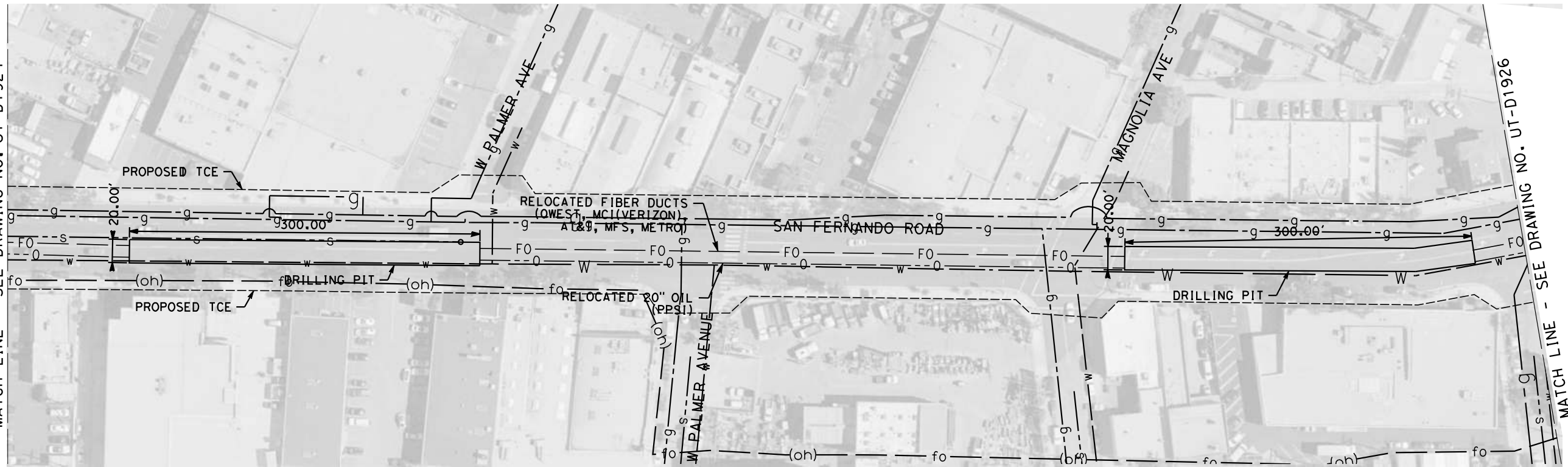


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
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PEPD  
 PROPOSED UTILITIES RELOCATION PLAN  
 20" OIL AND FIBER OPTIC DUCTS

CONTRACT NO.  
 HSR14-39  
 DRAWING NO.  
 UT-D1924  
 SCALE  
 AS SHOWN  
 SHEET NO.

MATCH LINE - SEE DRAWING NO. UT-D1924



MATCH LINE - SEE DRAWING NO. UT-D1926

NOTE:  
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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**J. HIGGINS**  
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**C. ADAMS**  
IN CHARGE  
**K. PIRBAZARI**  
DATE  
**04/30/2019**

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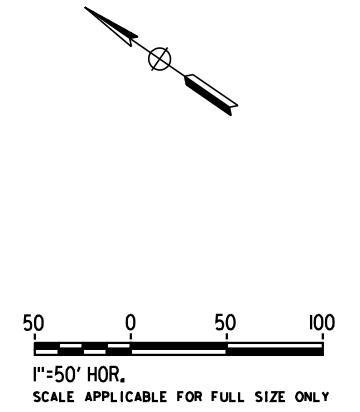
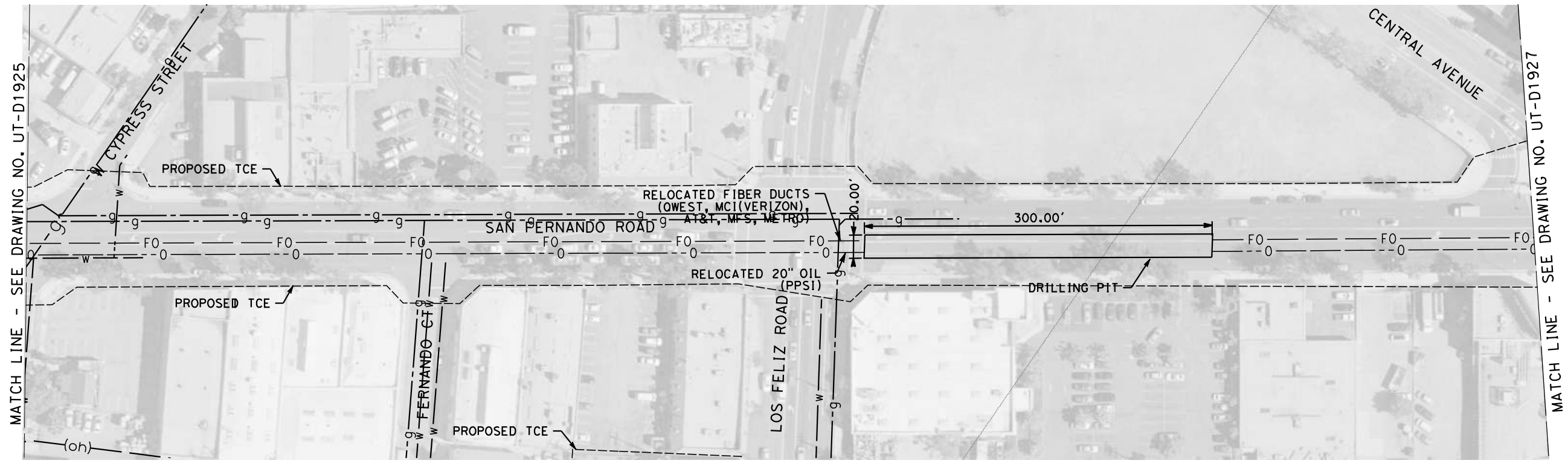


**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
BURBANK TO LOS ANGELES**

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20" OIL AND FIBER OPTIC DUCTS

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HSR14-39  
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UT-D1925  
SCALE  
AS SHOWN  
SHEET NO.





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REV	DATE	BY	CHK	APP	DESCRIPTION

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**C. ADAMS**  
 IN CHARGE  
**K. PIRBAZARI**  
 DATE  
**04/30/2019**

**PEPD  
 RECORD SET**

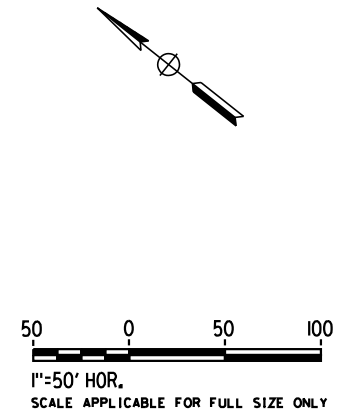
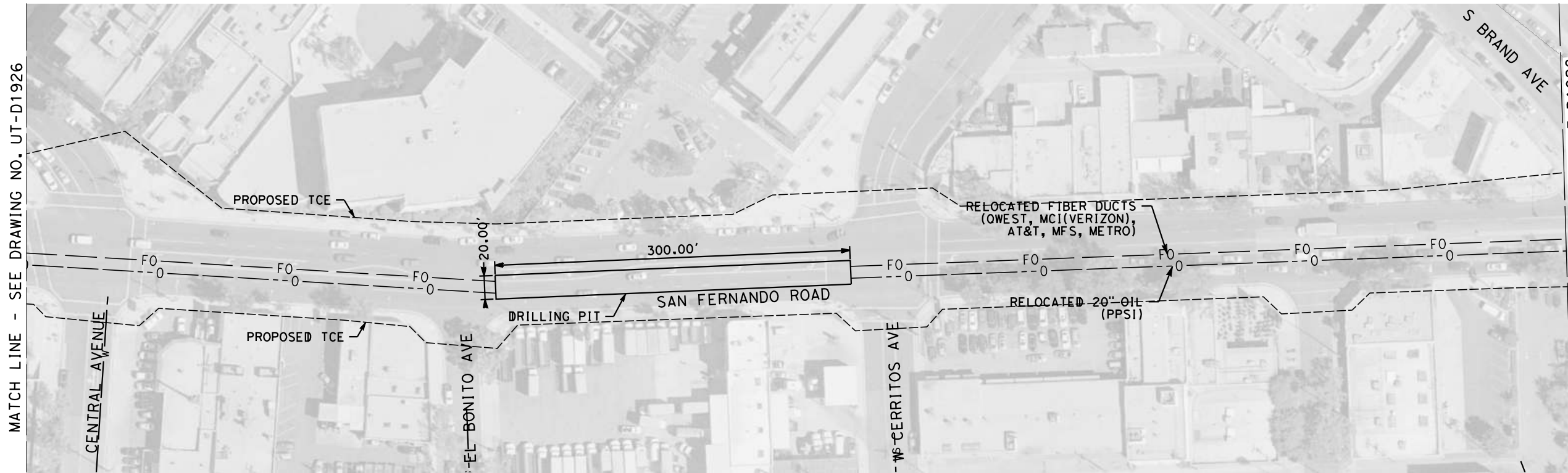
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT  
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PEPD  
 PROPOSED UTILITIES RELOCATION PLAN  
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 SHEET NO.



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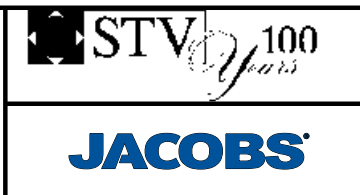
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**C. CUSSON**  
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**04/30/2019**

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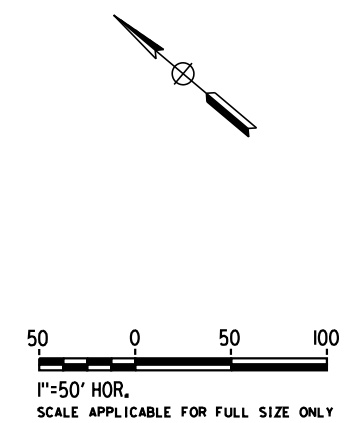
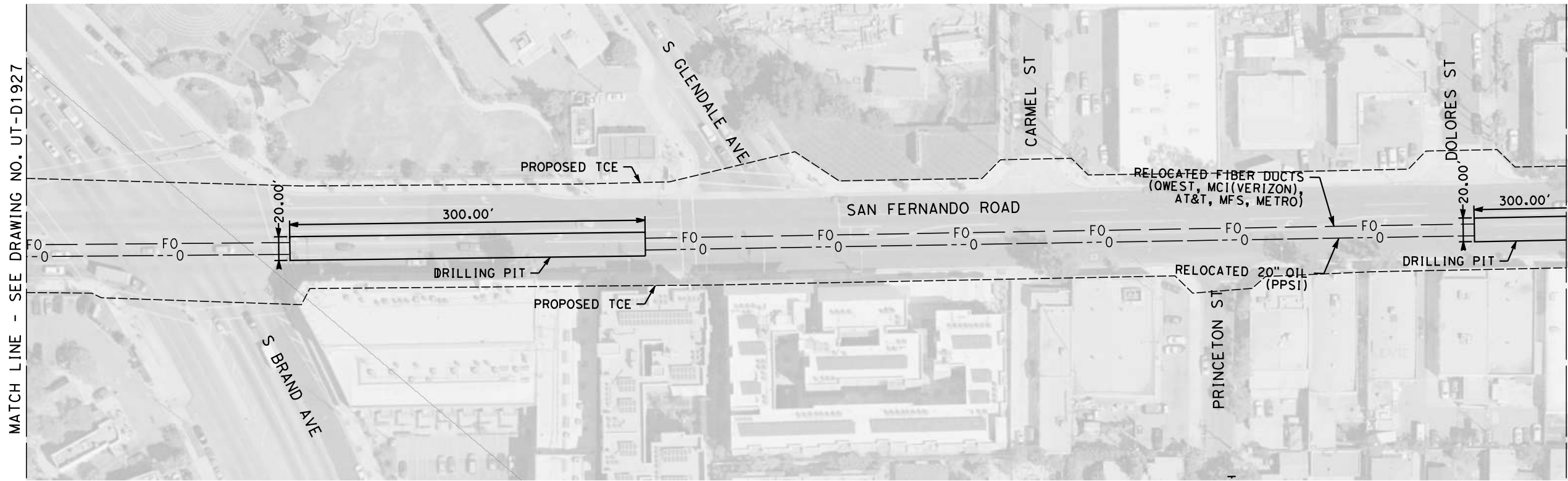


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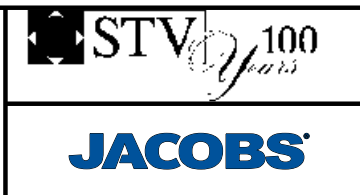
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REV	DATE	BY	CHK	APP	DESCRIPTION

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 20" OIL AND FIBER OPTIC DUCTS

CONTRACT NO.  
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 DRAWING NO.  
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