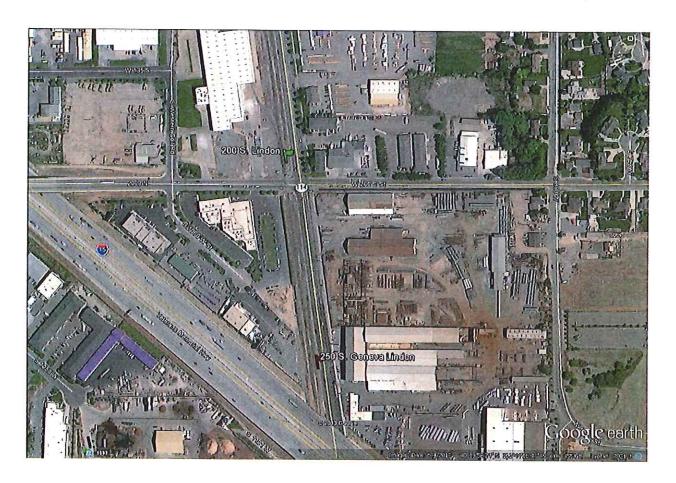
## NOVEMBER 21, 2016



AMERICAN FORK CITY/CENTRACOM 200 SOUTH LINDON PROJECT #AFCC-1016 PROVO INDUSTRIAL LEAD, MILE POST-761.62; LINDON, UTAH

Union Pacific Railroad Co.
APPROVED: Date

FOR VP ENGINEERING

MICAH HUNSAKER AMERICAN FORK CITY micah@afcity.net 801-404-6658

JAN 2 7 2017

G.E.V. 5 SHEETS

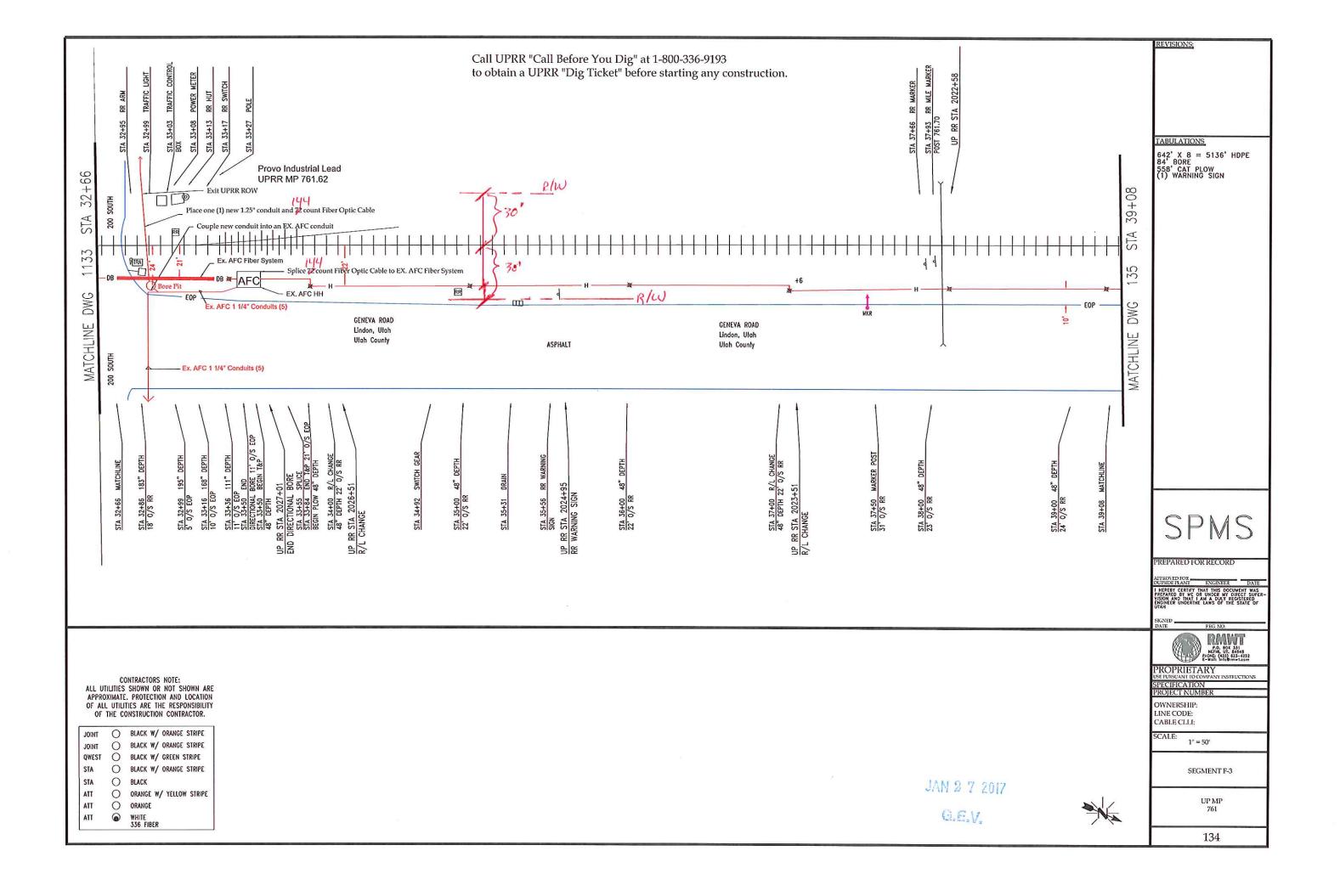
## UNION PACIFIC GENERAL NOTES FIBER OPTIC INSTALLATIONS

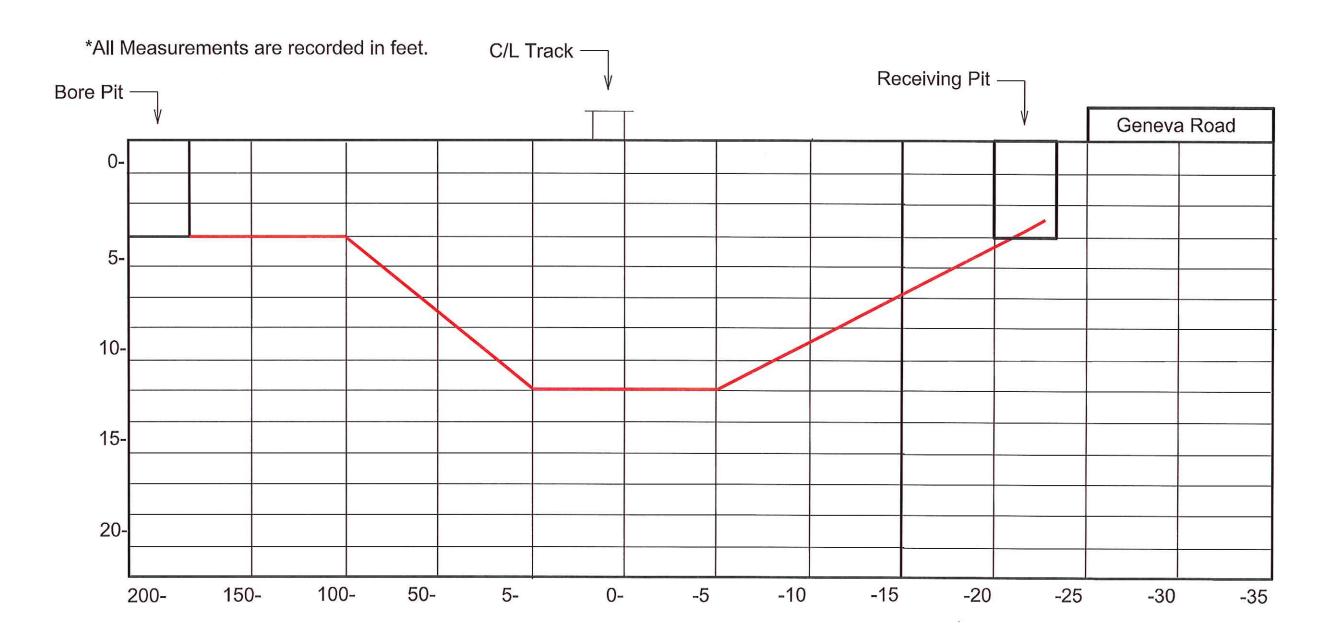
- 1. FIBER OPTIC INSTALLATION ON UNION PACIFIC RAILROAD SHALL CONFORM TO THE UNION PACIFIC MANUAL "FIBER OPTIC ENGINEERING, CONSTRUCTION AND MAINTENANCE STANDARDS," LATEST EDITION.
- 2. ALL WORKERS ON RAILROAD PROPERTY MUST BE UNION PACIFIC RAILROAD SAFETY TRAINED AND WEAR RAILROAD APPROVED PERSONAL PROTECTIVE EQUIPMENT.
- 3. PRIOR TO ANY EXCAVATION ON UNION PACIFIC RIGHT OF WAY, IT IS MANDATORY TO CALL UNION PACIFIC'S "CALL BEFORE YOU DIG" NUMBER, 800-336-9193, TO ASCERTAIN IF ANY FIBER OPTIC CABLES EXIST IN THE PROJECT AREA. THIS MUST BE DONE A MINIMUM OF 48 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITY; THIS IS IN ADDITION TO ANY STATE ONE-CALL NOTIFICATIONS.
- 4. DOCUMENTATION REQUIRED ON SITE DURING CONSTRUCTION INCLUDES APPROVED PLANS, APPROVAL LETTER, DIG TICKETS AND COMPLETED "RAILROAD EMERGENCY RESPONSE FORM."
- 5. DIRECTIONAL BORES MUST BE APPROVED PRIOR TO CONSTRUCTION.
- 6. TRACK BORES MUST BE CASED IF LESS THAN TEN FEET BELOW THE BASE OF RAIL. ALL MULTIPLE-DUCT BORES MUST BE CASED. THE CASING MUST EXTEND A MINIMUM OF 30 FEET FROM THE CENTER LINE OF THE NEAREST TRACK WHEN MEASURED AT RIGHT ANGLES TO THE TRACK.
- 7. NO EXCAVATION IS ALLOWED WITHIN 12 FEET OF ANY TRACK. ALL EXCAVATIONS MUST BE SHORED IN ACCORDANCE WITH OSHA AND RAILROAD STANDARDS. SHORING FOR EXCAVATION ON RAILROAD RIGHT OF WAY MUST BE APPROVED BY THE UNION PACIFIC VP OF ENGINEERING.
- 8. BORE PITS ARE TO BE LOCATED A MINIMUM OF 30 FEET FROM THE CENTER LINE OF THE NEAREST TRACK WHERE POSSIBLE. BORE PITS ARE NOT ALLOWED IN THE CUT OR FILL SECTIONS OF THE ROAD BED.
- 9. TRENCHES AND BORE PITS ARE TO BE FILLED OR FENCE PROTECTED AT THE END OF EACH DAY.

- EXCAVATIONS ARE TO BE FILLED AND COMPAPCTED TO 95% OF MAXIMUM DRY DENSITY AS DEFINED BY ASTM STANDARD D698.
- 11. DO NOT FOUL THE BALLAST. KEEP ALL DIRT AND OTHER FOREIGN MATERIALS OUT OF THE TRACK BALLAST SECTION.
- 12. THE RIGHT OF WAY SHALL BE RESTORED TO ITS ORIGINAL CONDITION OR BETTER INCLUDING SEEDING WITH NATIVE GRASSES.
- 13. CABLE SHALL BE INSTALLED A MINIMUM OF 42" BELOW NATURAL GROUND. THIS DEPTH SHALL BE INCREASED TO 60" UNDER TRACKS (DRY BORE ONLY), CULVERTS AND DITCHES.
- 14. HANDHOLES SPLICE BOXES AND MANHOLES MUST BE DESIGNED FOR AASTO H-20 LOADING AND MUST BE INSTALLED SO AS NOT TO CREATE A STUMBLING HAZARD.
- 15. MARKER POSTS MUST BE INSTALLED SO AS NOT TO CREATE STUMBLING OR IMPALING HAZARDS, OR IN A LOCATION THAT OBSTRUCTS RAIL ROAD OPERATIONS.
- 16. CREEK BEDS THAT HAVE BEEN PLOWED OTR CUT MUST BE RESTORED AND PROTECTED BY RIP RAP OR OTHER RAIL ROAD APPROVED EROSION CONTROL PROCEDURES.
- 17. ANY DEVIATIONS FROM THE APPROVED PLANS MUST BE APPROVED BY THE UP CONSTRUCTION COORDINATOR ASSIGNED TO THE PROJECT. ALL CHANGES MUST BE RECORDED ON THE AS-BUILT PLANS.
- 18. THE CABLE MUST BE LOCATED ON THE FIELD SIDE OF ALL RAILROAD FACILITIES.
- 19. INSTALLATIONS NEAR RAIL ROAD SIGNAL FACILITIES WILL REQUIRE COORDINATION THROUGH THE UP CONSTRUCTION COORDINATOR WITH THE UP SIGNAL DEPARTMENT. SIGNAL DEPARTMENT PERSONNEL WILL REMOVE AND REPLACE ALL GUY WIRES ATTACHED TO RAILROAD POLE LINES.



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