

PROJECT NOTES FOR PROJECT NOTE SHEET
FOR CABLE GUIDERAIL SYSTEMS

- 200 BEFORE BEGINNING ANY INSTALLATION, THE CONTRACTOR SHALL DETERMINE THE LOCATION OF ANY DRAINAGE, PAVEMENT EDGE DRAINS, ELECTRICAL AND COMMUNICATION CABLES FOR HIGHWAY AND UNDERDRAIN OUTLETS IN THE VICINITY AND SHALL CONDUCT THE WORK IN SUCH A MANNER AS TO AVOID DAMAGE TO THE SAME. IN THE EVENT THE CONTRACTOR DAMAGES ANY DRAINAGE STRUCTURES AND/OR UNDERDRAIN, IT SHALL BE REPAIRED AND/OR REPLACED AT THE CONTRACTOR'S EXPENSE AND TO THE SATISFACTION OF THE ENGINEER.
- 300 WHERE THE CABLE GUIDERAIL IS PARRALLEL TO THE EDGE OF THE TRAVEL LANE, EVERY SIXTH CABLE POST SHALL BE REFLECTORIZED.
- 301 THE CONTRACTOR SHALL SUPPLY 200 REGULAR LINE POSTS, 4 ANCHOR ASSEMBLIES (INCLUDES ANCHOR POSTS, TRANSITION POSTS AND ALL HARDWARE ASSOCIATED WITH EACH FOR A COMPLETE ANCHOR ASSEMBLY), 2 SPREADER TOOLS, AND ALL RELATED HARDWARE FOR THE SELECTED SYSTEM FOR USE BY ALDOT AS SPARE PARTS. THE CONTRACTOR SHALL ALSO FURNISH THE MANUFACTURER'S RECOMMENDED TENSION MEASURING DEVICE FOR THE SELECTED SYSTEM TO BECOME PROPERTY OF ALDOT. THE COST OF THIS WORK SHALL BE A SUBSIDIARY OBLIGATION OF ITEM NO. 624A-000.
- 302 CABLE GUIDERAIL LINEAR TRANSITIONS SHALL BE ON A 50:1 TAPER RATE.
- 303 THE MANUFACTURER OF THE CABLE GUIDERAIL SYSTEM SHALL SUPPLY SPLICE HARDWARE THAT IS EQUIVALENT TO THE BREAKING STRENGTH OF THE CABLE.
- 304 ON 6:1 OR FLATTER SLOPES THE CABLE GUIDERAIL SHALL BE A 4 ROPE NCHRP REPORT 350 TL-4 CRASH TESTED SYSTEM. ON ALL SLOPES STEEPER THAN 6:1, THE CABLE GUIDERAIL SHALL BE A 4 ROPE NCHRP 350 TL-3 CRASH TESTED SYSTEM. ANY PROPOSED SYSTEM SHALL BE SUBMITTED TO THE ENGINEER FOR COMPLETENESS PRIOR TO INSTALLATION.
- 305 LINE POST SPACING SHALL BE 10.5 FEET MAXIMUM AND THE DESIGN DEFLECTION FOR THE CABLE GUIDERAIL SHALL BE 9 FEET MAXIMUM.
- 306 THE PROPOSED TENSION CABLE GUIDERAIL SYSTEM SHALL HAVE LINE POST AND END ANCHOR FOUNDATIONS AS PER THE MANUFACTURER'S DETAILS AND SHALL INCLUDE THE FOLLOWING MINIMUM REQUIREMENTS:
- ALL LINE POST AND ANCHOR FOUNDATIONS SHALL BE CAST IN PLACE CONCRETE
 - ALL CONCRETE SHALL BE 3,000 psi MINIMUM
 - ALL LINE POST FOUNDATIONS SHALL HAVE A MINIMUM DIAMETER OF 14 INCHES
 - ALL LINE POST FOUNDATIONS SHALL CONTAIN A MINIMUM OF 4 VERTICAL STEEL REINFORCING BARS (#4 BARS) WITH 1 HOOP (TIE) BAR (#3 BAR)
 - ALL POST SOCKETS SHALL BE STEEL
- 307 CABLE SHALL BE PRESTRETCHED. EFFECTIVE MODULUS OF ELASTICITY OF THE CABLE SHALL BE AS SPECIFIED BY THE MANUFACTURER.
- 308 ALL CABLE GUIDERAIL INSTALLATION AND PLACEMENT SHALL BE PER MANUFACTURER'S RECOMMENDATION FOR THE CONDITIONS ON THIS PROJECT.
- 309 ALL CABLES SHALL BE INDIVIDUALLY TIED TO THE CABLE GUIDERAIL ANCHOR.
- 310 ALL CABLE GUIDERAIL SHALL BE TERMINATED USING MANUFACTURER'S GROUND ANCHORS.

- 311 CABLE GUIDERAIL ANCHORS PLACED WITHIN THE CLEAR ZONE SHALL BE CRASHWORTHY IN ACCORDANCE WITH NCHRP 350 TL-3 REQUIREMENTS.
- 312 ITEMS TO BE REMOVED THAT ARE NOT PROVIDED FOR BY PAY ITEM SPECIFICALLY MENTIONED BY THE NOTE TO BE INCLUDED IN OTHER ITEMS OF WORK SHALL BE REMOVED IN ACCORDANCE WITH THE REQUIREMENTS FOR EXTRA WORK GIVEN IN ARTICLE 104.03 OF THE STANDARD SPECIFICATIONS.
- 313 ALL LENGTHS PROVIDED IN THE QUANTITY BOX ON SHEET NO. ____ ARE APPROXIMATE AND CAN BE ADJUSTED AS NECESSARY TO FIT FIELD CONDITIONS WITH APPROVAL OF THE ENGINEER. CHANGES TO THE SIDE OF MEDIAN SPECIFIED WILL NOT BE ALLOWED UNLESS APPROVED BY THE ENGINEER.
- 314 THE MAXIMUM RUN LENGTH (SPACE BETWEEN ANCHORS) SHALL BE 10,000 LF OR AS DIRECTED BY THE ENGINEER DEPENDING ON BRIDGE APPROACHES, OVERPASS PIERS, GUARDRAIL LOCATIONS, ETC.
- 315 THE CABLE GUIDERAIL SHALL BE PLACED ON THE INSIDE OF THE HORIZONTAL CURVE WHEN USING THE MEDIAN AS THE CENTERLINE. IF THE CABLE GUIDERAIL MUST TRANSITION DUE TO CHANGES IN CURVATURE, IT SHALL DO SO IN THE TANGENT SECTIONS OR AT THE CURVATURE CHANGE.
- 316 ALL CABLE GUIDERAIL SYSTEMS SHALL BE INSTALLED LEAVING AT LEAST 75% TURNBUCKLE CAPACITY FOR FUTURE MAINTENANCE TIGHTENING.
- 800 IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY OWNERS AND DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES ON THIS PROJECT WHETHER SHOWN ON THE PLANS OR NOT. THE LOCATION OF ANY REQUIRED GUIDERAIL MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER TO PREVENT ANY CONFLICT WITH FEATURES OF GUARDRAIL, SIGNS, FOOTINGS OF ANY NATURE, AND/OR ELECTRICAL COMMUNICATION CABLES. UTILITY LINE LOCATE REQUESTS WILL BE LIMITED TO INCREMENTS NOT TO EXCEED 2000 LINEAR FEET PER WORKING DAY OPERATION. MULTIPLE LOCATE REQUESTS WILL BE REQUIRED FOR PROJECTS GREATER THAN 2000 LINEAR FEET IN LENGTH. IN THE EVENT OF ANY DAMAGE TO IN-PLACE UTILITIES, THEY SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER AND THE UTILITY OWNER, AT THE CONTRACTOR'S EXPENSE.
- 900 NPDES PERMIT COVERAGE IS NOT REQUIRED FOR THIS PROJECT.
- 901 THERE SHALL BE NO FUEL TANKS STORED ON THE RIGHT-OF-WAY. IN ADDITION, NO FUEL TRUCKS OR VEHICLES TRANSPORTING CHEMICALS, FERTILIZER, ETC. SHALL BE LEFT UNATTENDED ON THE RIGHT-OF-WAY.