

GENERAL PROJECT NOTES:

1. PRIOR TO THE START OF WORK, CONFORM TO ALL OF THE REQUIREMENTS WITH REGARD TO UTILITY NOTIFICATIONS AND REQUIRED SUBMITTALS FOR THE MAINTENANCE AND PROTECTION OF TRAFFIC.
2. "DIG SAFE" SHALL BE NOTIFIED AT 888-344-7233 AT LEAST 72 HOURS PRIOR TO THE START OF ANY EXCAVATION ON THE PROJECT. CONTRACTOR IS RESPONSIBLE TO ALSO CONTACT VTRANS AND ANY TOWNSHIP/COUNTY WHOSE JURISDICTION THE WORK IS TO BE PERFORMED WITHIN.
3. PROVIDE EROSION PROTECTION, BALES OF HAY AND/OR SEDIMENTATION FENCE TO PROTECT WETLAND RESOURCES. BARRIERS ARE TO BE PLACED WITHIN 10'-0" FROM THE EOP OR AS SHOWN ON THE PLANS AND/OR AS REQUIRED BY SPECIFICATIONS OR DIRECTED BY VTRANS.
4. PEDESTRIAN AND VEHICLE ACCESS TO ABUTTING PROPERTIES SHALL BE MAINTAINED IN A SAFE CONDITION AT ALL TIMES. ANY CLOSURES OF SIDEWALKS OR OTHER MEANS OF PEDESTRIAN OR VEHICLE ACCESS SHALL REQUIRE PRIOR APPROVAL FROM VTRANS.
5. AREAS OUTSIDE THE LIMIT OF WORK THAT ARE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO VTRANS.
6. UTILITY INFORMATION SHOWN ON THE CONSTRUCTION PLANS IS FOR INFORMATIONAL PURPOSES ONLY AND SHALL BE VERIFIED IN THE FIELD. ALL DIMENSIONS AND ELEVATIONS SHALL BE FIELD CHECKED BEFORE PROCEEDING WITH NEW WORK. POTENTIAL UTILITIES CONFLICTS SHALL BE EXPOSED FOR VERIFICATION. ANY DISCREPANCIES OR CONFLICTS SHALL BE REPORTED TO VTRANS IMMEDIATELY.
7. IF REQUIRED FOR OPERATIONS, OVERHEAD UTILITY LINES SHALL BE RELOCATED BY THE UTILITY COMPANY AT NO ADDITIONAL COST TO VTRANS OR THE UTILITY COMPANY.
8. LOCATIONS OF EXISTING SIGNS, TREES, ETC ARE APPROXIMATE ONLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD.
9. ALL CONSTRUCTION SHALL BE IN COMPLIANCE WITH ALL APPLICABLE VTRANS, NEC, AND OSHA GUIDELINES.
10. EQUIPMENT AND MATERIALS SHALL BE STORED AT LEAST 4 FEET BEHIND GUARDRAIL OR AT LEAST 30 FEET FROM THE EDGE OF TRAVEL, OR IN STORAGE AREAS APPROVED BY VTRANS AND/OR THE APPROPRIATE AUTHORITIES.
11. NO EQUIPMENT OR MATERIALS SHALL BE STORED ON SIDEWALK OR WITHIN WETLAND BUFFER ZONES (WITHIN 100 FEET OF THE EDGE OF THE WETLAND RESOURCES AREAS) AT ANY TIME.
12. EXCAVATED MATERIAL SHALL BE STORED AWAY FROM THE PAVED ROADWAY WHENEVER POSSIBLE. ALL SPILLED MATERIAL SHALL BE REMOVED. REMOVAL OF ALL EXCESS MATERIALS SHALL BE PROPERLY DISPOSED.
13. EXISTING SIGNS, DELINEATORS, GUARDRAILS, MARKERS, FENCES, TREES, SHRUBS, WALKS, STEPS, ETC. THAT ARE DISTURBED DURING CONSTRUCTION SHALL BE REPLACED OR RESTORED TO THEIR ORIGINAL CONDITION OR TO THE SATISFACTION OF THE VERMONT AGENCY OF TRANSPORTATION AND/OR THE APPROPRIATE AUTHORITIES.
14. APPROPRIATE ACTIONS SHALL BE TAKEN TO PREVENT SEDIMENT, DEBRIS, AND ALL POLLUTANTS FROM ENTERING ANY STORM DRAINAGE SYSTEM DURING ALL DEMOLITION, EXCAVATION, TRENCHING, BORING, GRADING, OR OTHER CONSTRUCTION OPERATIONS THAT ARE PART OF THE PROJECT. THE METHOD OF PREVENTING SOILS FROM ENTERING THE DRAINAGE SYSTEM SHALL BE APPROVED BY THE ENGINEER. SOIL THAT ENTERS A DRAINAGE SYSTEM OR EXISTING INFRASTRUCTURE FROM CONSTRUCTION OPERATIONS SHALL BE CLEANED OUT AT NO ADDITIONAL COST TO VTRANS.
15. ALL RULES AND REGULATIONS OF ALL AUTHORITIES HAVING JURISDICTION OVER CONSTRUCTION AREA SHALL BE ADHERED TO.
16. EACH 1-1/4" CONDUIT SHALL CONTAIN A PULL STRING BETWEEN HANDHOLE/MANHOLE LOCATIONS. THE PULL STRING SHALL BE OF SUFFICIENT TACTILE STRENGTH TO PULL AND INSTALL A TYPICAL 288 STRAND, SINGLE MODE, DOUBLE JACKETED, FOC.
17. FIBER OPTIC CABLE WARNING SIGNS SHALL BE INSTALLED AT LINE OF SIGHT OR AT 1500 FT INTERVALS, AT EACH HANDHOLE LOCATION, AND ON EACH SIDE OF BRIDGE CROSSING, DIRECTIONAL DRILLS, RIVERS, ROADWAYS, RAILROADS, AND HIGHWAY TRANSITIONS, ETC.

GENERAL PROJECT NOTES (CONTINUED):

18. THE CONTRACT DOCUMENT PLANS ARE PROVIDED WITH EMBEDDED AERIAL ORTHOPHOTOS FOR BIDDING PURPOSES. THE CONTRACTOR SHALL NOT COPY OR DISTRIBUTE THE AERIAL ORTHOPHOTOS WITHOUT THE CONSENT OF VTRANS.
19. THE PROJECT'S HIGHWAY AERIAL PHOTOS WERE PROVIDED BY VTRANS AND PROJECT SURVEY CONDUCTED BY VTRANS (AERIAL).
20. ALL EMERGENCY HIGHWAY CROSSEOVERS SHALL REQUIRE THE REMOVAL AND REPLACEMENT OF EXISTING ASPHALT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT AND RESTORATION OF CROSSEOVERS TO THEIR ORIGINAL CONDITION AND TO THE SATISFACTION OF THE VERMONT AGENCY OF TRANSPORTATION AND/OR THE APPROPRIATE AHJ.
21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE RUNNING LINE CONDUITS TO BE INSTALLED CONSISTENTLY AS TWO (1-1/4") CONDUITS WIDE BY THREE (1-1/4") CONDUITS DEEP, UNLESS OTHERWISE SPECIFIED. THE CONTRACTOR SHALL ENSURE THE CONDUITS ARE INSTALLED WITHOUT ANY HELICAL WRAPS OR LINEAR DISTORTIONS. ANY METHODS USED FOR THE SECURING OF CONDUITS DURING INSTALLATION SHALL BE SUBMITTED TO THE ENGINEER AND VTRANS FOR APPROVAL.
22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF THE CONDUIT RUNNING LINE AT A MINIMUM INSTALLATION DEPTH OF 42" TO THE TOP OF CONDUITS 1 AND 2. ANY DEVIATIONS ABOVE THE MINIMUM REQUIRED INSTALLATION DEPTH SHALL BE SUBMITTED TO THE ENGINEER AND VTRANS FOR APPROVAL.
23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF THE CONDUIT RUNNING LINE AT A MAXIMUM OF 14FT OFF THE CENTERLINE OF THE ROADWAY'S OUTER MOST PAVEMENT MARKING, UNLESS NOTED OTHERWISE.
24. RUNNING LINE CONSTRUCTION METHODS AND LOCATIONS ARE APPROXIMATE. CONSTRUCTION METHODS ARE SUBJECT TO CHANGE BASED ON FIELD CONDITIONS. ALL CHANGES SHALL BE EXPRESSED TO VTRANS AND/OR THE ENGINEER PRIOR TO THE START OF ANY ADDITIONAL WORK. CHANGES IN WORK WILL NOT BE UNDERTAKEN UNTIL COMPLETELY DOCUMENTED FOR APPROVAL BY VTRANS.
25. HANDHOLE, SPLICE VAULTS, AND SPLICE LOCATIONS AND QUANTITIES ARE SUBJECT TO CHANGE BASED ON THE FIELD CONDITIONS. ALL CHANGES SHALL BE EXPRESSED TO VTRANS AND/OR THE ENGINEER, PRIOR TO THE START OF ANY ADDITIONAL WORK. CHANGES IN WORK WILL NOT BE UNDERTAKEN UNTIL COMPLETELY DOCUMENTED FOR APPROVAL BY VTRANS.
26. HANDHOLE, SPLICE VAULTS, AND SPLICE LOCATIONS ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL SPLICE LOCATIONS PRIOR TO FIBER OPTIC INSTALLATION. LOCATIONS VARIANCE IS TO BE APPROVED BY THE ENGINEER PRIOR TO THE INSTALLATION OF THE HANDHOLE, CONDUIT, AND FIBER OPTIC CABLE.
27. ALL SPLICE VAULT LOCATIONS WILL CONTAIN ONE 4FT X 4FT X 6FT PRECAST CONCRETE STRUCTURE SPLICE VAULT, AND ONE 4FT X 6FT X 3FT OPEN BOTTOM HANDHOLE. BOTH THE HANDHOLE AND SPLICE VAULT WILL BE INSTALLED TO FINISH GRADE WITH THE APPROVED H-20 LOAD RATED LIDS, OR GREATER. THE SPLICE VAULT LIDS SHALL BE LOCKABLE AND MADE OF DIAMOND PLATE STEEL. THE SPLICE VAULT STRUCTURE WILL FURNISH ONLY CONDUITS 1 AND 2, AT A DEPTH OF 60" WHILE THE HANDHOLE WILL FURNISH CONDUITS 3, 4, 5, AND 6 ALONG THE RUNNING LINE AT A DEPTH OF 36". THE CONTRACTOR IS RESPONSIBLE FOR THE CONDUIT COLORED COORDINATION AND CONSISTENCY ON THE ENTIRE RUNNING LINE, PROVIDED WITHIN THE CONTRACT DOCUMENTS.
28. ALL CONDUITS HOUSING CABLES SHALL BE SEALED WITH FIBER OPTIC GROMMET, AS APPROVED BY THE ENGINEER. ALL OPEN ENDS OF CONDUITS SHALL BE PLUGGED WITH PROPER EQUIPMENT, AS APPROVED BY THE ENGINEER. THE USE OF TAPE TO SEAL THE ENDS OF OPEN CONDUITS IS NOT PERMITTED.
29. ALL HANDHOLE PENETRATION LOCATIONS SHALL BE SEALED WITH APPROVED MANUFACTURER'S ENTRY SEALANT.
30. ALL HANDHOLES WILL REQUIRE: GEOTEXTILE MATTING, 3/4" STONE AT MINIMUM DEPTH OF 8FT, A LAYER OF 1/2" WIRE MESH, SEALANTS AT CONDUIT PENETRATIONS, ALL EMPTY CONDUITS TO BE PLUGGED, CABLE GROMMETS FOR CONDUITS IN USE, AND AN EMS SENSOR PLACED ABOVE THE LID. THE CONTRACTOR IS RESPONSIBLE TO SUBMIT MATERIAL DATA SHEETS FOR ALL MATERIALS USED, TO THE ENGINEER FOR APPROVAL.

GENERAL PROJECT NOTES (CONTINUED):

31. EACH HANDHOLE INSTALLATION LOCATION WILL REQUIRE ONE 3FT X 5FT X 3FT HANDHOLE AND ONE 4FT X 6FT X 3FT HANDHOLE, UNLESS OTHERWISE NOTED. EACH HANDHOLE WILL HAVE TWO 4" X 4" KNOCKOUTS PRE-CUT FOR THE PENETRATION OF CONDUITS. EACH HANDHOLE LOCATION WILL REQUIRE 55FT OF TRENCHING FROM THE CENTERLINE OF MARKED HANDHOLE LOCATIONS. THE 3FT X 5FT X 3FT HANDHOLE WILL FURNISH CONDUITS 1 AND 2 WHILE THE 4FT X 6FT X 3FT HANDHOLE WILL FURNISH CONDUITS 3, 4, 5, AND 6 ALONG THE RUNNING LINE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONDUIT COLOR COORDINATION AND CONSISTENCY ALONG THE ENTIRE BACKBONE. FOR SPECIFIC INFORMATION ON THE HANDHOLE LOCATION DESIGN, REFERENCE DETAILS PROVIDED WITHIN THE CONTRACT DOCUMENTS.
32. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING, INSTALLING, AND PROGRAMMING THE ELECTRIC MARKING SYSTEM (EMS) TO IDENTIFY EACH HANDHOLE'S LOCATION BELOW GRADE. THE EMS SENSORS SHALL BE PROGRAMMED TO IDENTIFY EACH HANDHOLE INDIVIDUALLY WITH A HANDHOLE NUMBER AND DESCRIPTION. THE DESCRIPTION SHALL INCLUDE HANDHOLE CONDUIT NUMBERS AND CONTENTS.
33. STATIONING OF THE HANDHOLES ON THE CONTRACT DRAWINGS IS LOCATED ALONG THE CENTER OF THE RUNNING LINE AND CENTER OF THE REQUIRED 55 FOOT TRENCH AT EACH HANDHOLE LOCATION.
34. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EFFORTS REQUIRED IN KEEPING ALL EXISTING AND NEW CONDUITS FREE OF DEBRIS. IF SEDIMENTS AND/OR DEBRIS ENTER THE CONDUITS DURING INSTALLATION IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE AND RESTORE CONDUITS TO THEIR ORIGINAL MANUFACTURING STATE, WITH NO ADDITIONAL COST INCURRED TO VTRANS.
35. FUSION WELD REEL ENDS, TRANSITIONS, AND BREAK POINTS OF HDPE CONDUITS. THE USE OF COMPRESSION FITTINGS IS NOT PERMITTED.
36. ALL CONDUITS WILL BE AIR TESTED FOR CONTINUITY AND INTEGRITY AFTER INSTALLATION AND PRIOR TO THE INSTALLATION OF ANY CABLES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING A "SLUG" OR "MANDREL" DURING ENTIRE CONDUIT RUN FROM HANDHOLE/MANHOLE TO THE PROCEEDING MANHOLE/HANDHOLE. THE MANDREL SHALL BE SEGMENTED WITH AN OUTER DIAMETER EQUAL TO 90% OF THE INSIDE DIAMETER OF THE CONDUIT, AND SHALL BE 10" IN LENGTH. THE TEST SHALL BE CONSIDERED ACCEPTABLE WHEN THE MANDREL CAN PASS THROUGH THE ENTIRE CONDUIT RUNNING LINE. EACH CONDUIT WILL BE TESTED AND EACH CONDUIT RUN SHALL BE VERIFIED ALONG THE ENTIRE RUNNING LINE ROUTE.
37. TEMPORARY STORAGE LOCATIONS HAVE BEEN IDENTIFIED THROUGHOUT THE CONTRACT DRAWINGS. THESE LOCATIONS HAVE BEEN APPROVED FOR THE STORAGE OF MATERIALS AND EQUIPMENT. IF THE CONTRACTOR REQUIRES ANY ADDITIONAL EQUIPMENT OR MATERIALS STORAGE AREAS IT MUST BE APPROVED BY VTRANS AND/OR THE PROPER AUTHORITIES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO RESTORE ALL STORAGE LOCATIONS TO THEIR ORIGINAL STATE AND/OR THE SATISFACTION OF VTRANS AND/OR THE PROPER AUTHORITIES.
38. NON-METALLIC FIBER OPTIC CABLE WARNING TAPE SHALL BE PLACED 12" BELOW FINISH GRADE FOR ALL OPEN TRENCH AND PLOW OPERATIONS ALONG THE RUNNING LINE.
39. BITUMINOUS CONCRETE PAVEMENT SHALL BE SAW-CUT. NO JACK-HAMMERING WILL BE PERMITTED.

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FILE NAME: z06e142GNT2.dgn
PROJECT LEADER: J. YOUNG
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GENERAL PROJECT NOTES (1 OF 2)

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