

**GENERAL NOTES**

1. THESE PLANS ARE BASED ON A TOPOGRAPHIC SURVEY CONDUCTED WITH A THREE SECOND TOTAL STATION ON 12/18/14 BY OTTER CREEK ENGINEERING, INC. AT THE TIME OF SURVEY, THERE WAS SIX INCHES OF SNOW COVER. THE EDGE OF GRAVEL ROAD SHOWN IS APPROXIMATE AND IS A ONE FOOT OFFSET FROM THE TOP OF BANK.
2. ELEVATION IS BASED ON AN ASSUMED DATUM OF 100.0' AT STATION 1.
3. COORDINATE SYSTEM IS BASED ON AN ASSUMED 5000N,5000E BASE POINT AND MAGNETIC NORTH AT TIME OF SURVEY.
4. FOR CLARITY, TEXT DENOTING EXISTING ITEMS IS SHOWN IN LOWER CASE, AND TEXT DENOTING PROPOSED ITEMS IS UPPERCASE AND BOLD.
5. REFER TO LEGEND LOCATED ON THIS SHEET FOR SYMBOL DESIGNATIONS.
6. ALL UNDERGROUND UTILITIES ARE SHOWN AS APPROXIMATE LOCATIONS.
7. THIS IS NOT A BOUNDARY SURVEY.
8. CONTRACT DOCUMENTS AND TECHNICAL SPECIFICATIONS ACCOMPANY THESE PLANS AND ARE ESSENTIAL FOR CONSTRUCTION OF THIS PROJECT.

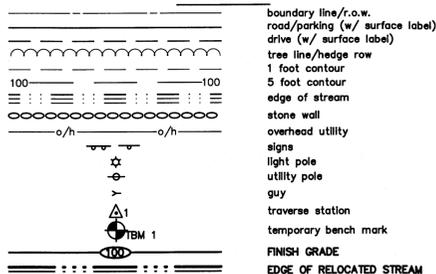
**CONSTRUCTION NOTES**

1. REINFORCED PRECAST CONCRETE BOX CULVERT, HEADWALLS, WING WALLS, AND CUTOFF WALLS ARE FOR GENERAL INFORMATION AND BIDDING PURPOSES ONLY. CULVERT SUPPLIER IS RESPONSIBLE FOR PROVIDING STRUCTURAL DESIGN AND SHOP DRAWINGS, STAMPED BY A VERMONT LICENSED PROFESSIONAL ENGINEER PRIOR TO FABRICATION. OWNER TO PURCHASE PRECAST CONCRETE CULVERT, HEADWALLS, WING WALLS, AND CUTOFF WALLS. REFER TO TECHNICAL SPECIFICATIONS.
2. CULVERT AND ASSOCIATED STRUCTURAL MEMBERS ARE BEING PURCHASED DIRECTLY BY THE OWNER. CONTRACTOR SHALL INSTALL PER MANUFACTURERS RECOMMENDATIONS. REFER TO CONTRACT DOCUMENTS.
3. PRECAST CONCRETE FOOTINGS REQUIRED, BUT NOT SHOWN FOR CLARITY.
4. ALL WORK WITHIN THE STREAM BANK LIMITS SHALL BE COMPLETED IN ACCORDANCE WITH THE STATE OF VERMONT STREAM ALTERATION PERMIT AND ARMY CORPS OF ENGINEERS GENERAL PERMIT - REFER TO CONTRACT DOCUMENTS.
5. CONTRACTOR SHALL SUBMIT CONSTRUCTION INFORMATION AND METHODS FOR TRAFFIC CONTROL AND STREAM BYPASS TO THE TOWN AND VERMONT AGENCY OF NATURAL RESOURCES PRIOR TO CONSTRUCTION.
6. TEMPORARY STREAM BYPASS PIPING SHALL BE SIZED TO HANDLE STREAM FLOW WITHOUT IMPACTING UPSTREAM PROPERTIES. CONTRACTOR SHALL REVIEW METHODS WITH VERMONT AGENCY OF NATURAL RESOURCES AND ENGINEER PRIOR TO INSTALLATION.
7. THE CONTRACTOR SHALL CONTACT TOWN ROAD COMMISSIONER PRIOR TO START OF WORK.
8. RESIDENTS SHALL BE NOTIFIED IN ADVANCE (24 HOURS MINIMUM) OF ANY WORK WHICH WILL LIMIT THE ACCESS TO THEIR PROPERTY.
9. CONTRACTOR SHALL FIELD LOCATE ALL UNDERGROUND UTILITIES PRIOR TO START OF WORK.
10. CONTRACTOR SHALL PREPARE AND PROVIDE TEMPORARY LANDING AND ACCESS RAMP FOR PRECAST MANUFACTURER'S CRANE TRUCK. TOP OF LANDING SHALL BE AT TOP OF FOOTINGS/CULVERT CRUSHED STONE BEDDING ELEVATION. LANDING SHALL BE FLAT, 50' LONG BY FULL LENGTH OF CULVERT. ACCESS RAMP SHALL HAVE A MAXIMUM SLOPE OF 8X 12' WIDE. RAMP AND LANDING SHALL HAVE A MINIMUM OF 8" THICK DENSE GRADED CRUSHED STONE FOR CRANE ACCESS AND SETUP. CONTRACTOR SHALL PROVIDE ALL DEWATERING AND MAINTENANCE NECESSARY.
11. CONTRACTOR SHALL COORDINATE WITH GREEN MOUNTAIN POWER TO HAVE THREE PHASE POWER LINES SHIELDED PRIOR TO ANY CONSTRUCTION.

**SAFETY NOTES**

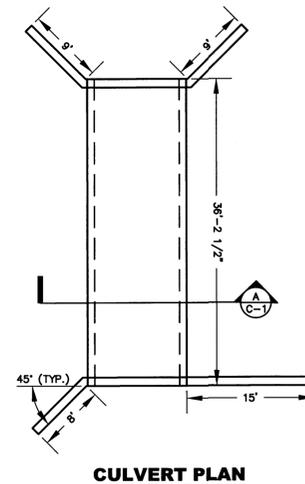
1. CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING AND SUPERVISING ALL WORK SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT DAMAGE, INJURY OR LOSS TO:
  - A. ALL EMPLOYEES ON THE WORK SITE AND OTHER PERSONS WHO MAY BE AFFECTED.
  - B. THE WORK SITE AND ALL THE MATERIALS AND EQUIPMENT TO BE INCORPORATED WHETHER IN STORAGE ON OR OFF THE SITE.
  - C. OTHER PROPERTY AT THE SITE OR ADJACENT, INCLUDING BUT NOT LIMITED TO TREES, SHRUBS, LAWNS, WALKS, PAVEMENTS, ROADWAYS, STRUCTURES AND UTILITIES NOT DESIGNATED FOR REMOVAL, RELOCATION, OR REPLACEMENT IN THE COURSE OF CONSTRUCTION.
2. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, RULES, REGULATIONS AND ORDERS (INCLUDING O.S.H.A. REGULATIONS) OF ANY PUBLIC BODY HAVING JURISDICTION OVER THE SAFETY OF PERSONS OR PROPERTY.
3. THE CONTRACTOR SHALL NOTIFY OWNERS OF ADJACENT PROPERTY AND UTILITIES WHEN EXECUTION OF THE WORK WILL AFFECT THEM.
4. THE CONTRACTOR'S DUTIES AND RESPONSIBILITIES FOR THE SAFETY AND PROTECTION OF THE WORK SHALL CONTINUE UNTIL SUCH TIME AS ALL THE WORK IS COMPLETED.
5. THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH OCCUR BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
6. CONTRACTOR SHALL COORDINATE WITH DIG-SAFE (888)-344-7233 OR WWW.DIGSAFE.COM A MINIMUM OF 48 HOURS PRIOR TO PERFORMING ANY EXCAVATION.
7. AT THE CLOSE OF EACH WORK DAY, THE CONTRACTOR SHALL BACKFILL OR ADEQUATELY BARRICADE ALL OPEN TRENCHES.

**LEGEND**



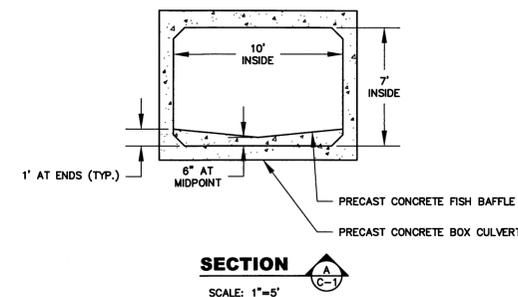
**TRAFFIC CONTROL NOTES**

1. CONTRACTOR SHALL SUBMIT CONSTRUCTION SCHEDULE AND ROAD CLOSURE DATES TO THE TOWN PRIOR TO CONSTRUCTION.
2. CONTRACTOR SHALL PROVIDE ADEQUATE VEHICULAR BARRIERS AROUND WORK AREAS AND STEEP SIDE SLOPES TO PROTECT THE PUBLIC. THE WORK AREA SHALL BE ADEQUATELY SIGNED.
3. ROAD CLOSURES AND DETOURS SHALL BE COORDINATED BY THE CONTRACTOR WITH THE TOWN OF PAWLET ROAD COMMISSIONER. ALL TRAFFIC CONTROL MEASURES SHALL MEET MUTCO STANDARDS.
4. THE CONTRACTOR SHALL NOTIFY ALL EMERGENCY SERVICES, INCLUDING POLICE, FIRE AND RESCUE (3 DAYS MINIMUM) PRIOR TO ANY ROAD CLOSURE.



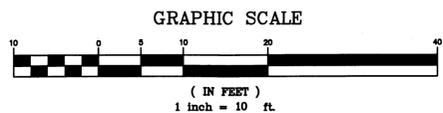
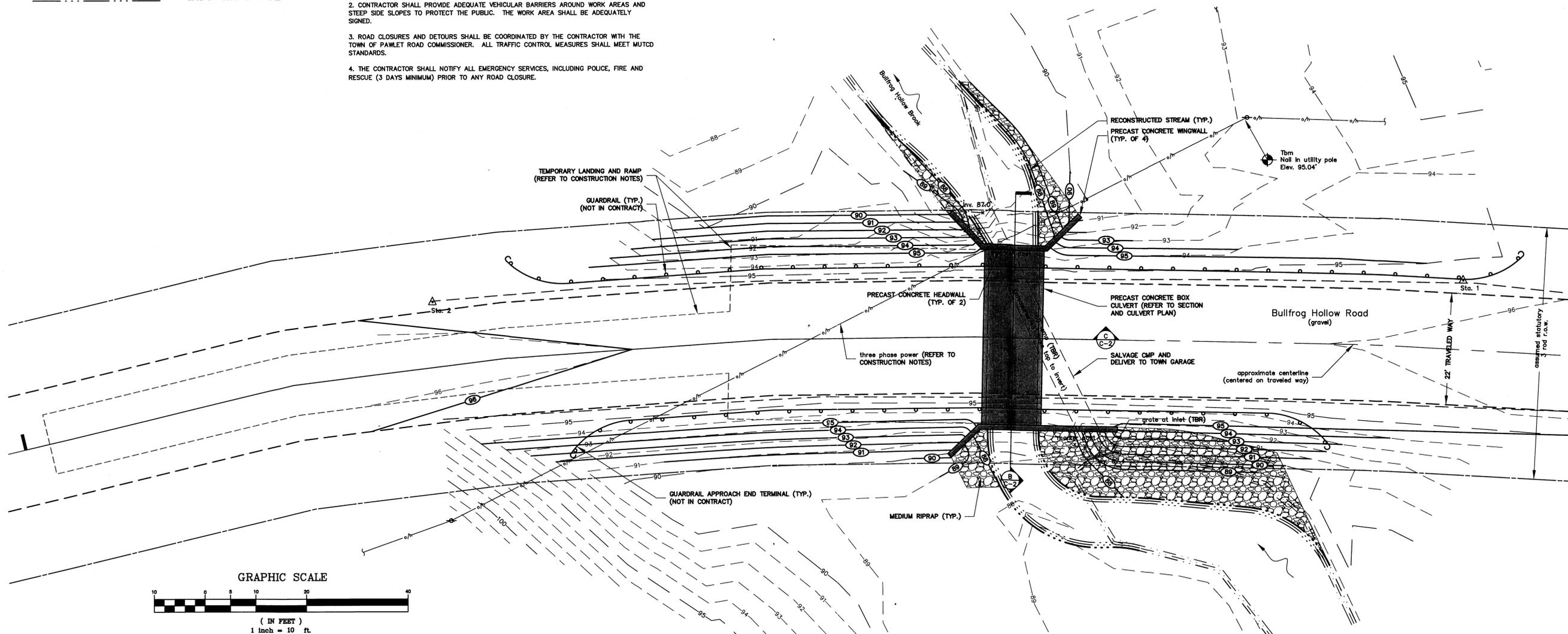
**CULVERT PLAN**

SCALE: 1"=10'



**SECTION**

SCALE: 1"=5'



**OTTER CREEK ENGINEERING**  
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STAMP AND SIGNATURE:  
  
 DESIGN ENGINEER

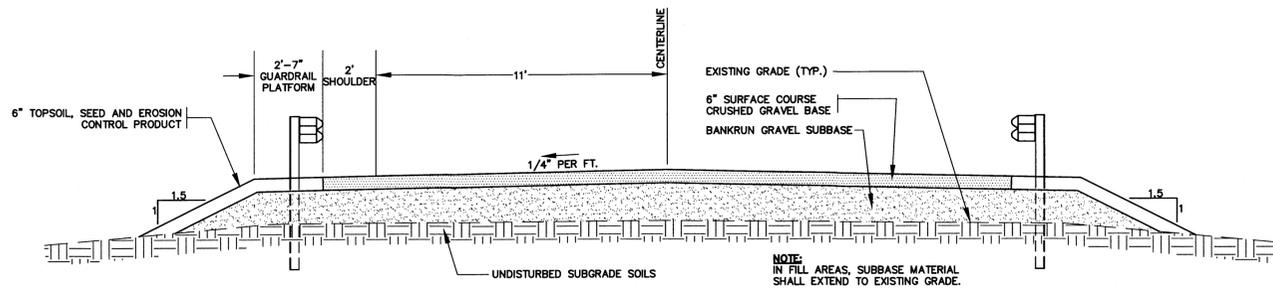
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MAGNETIC NORTH

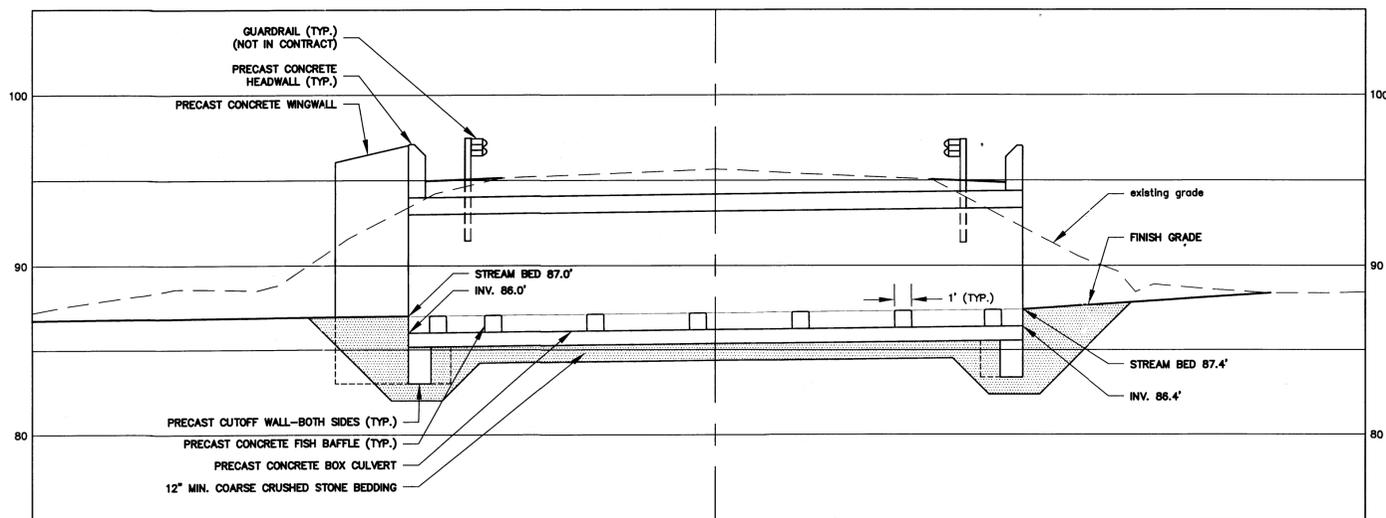
**TOWN OF PAWLET**  
**BULLFROG HOLLOW ROAD**  
**CULVERT REPLACEMENT**  
**PAWLET, VERMONT**

PERMITTING/BID  
 DATE ISSUED: 2/25/15  
 REVISIONS:  
 DRAWN BY: HB  
 CHECKED BY: CC  
 SCALE: SHOWN  
 PROJECT NO.: 677.004  
 CADD FILE: 677-004  
 TITLE:  
**SITE PLAN**  
 DRAWING NO.  
**C-1**

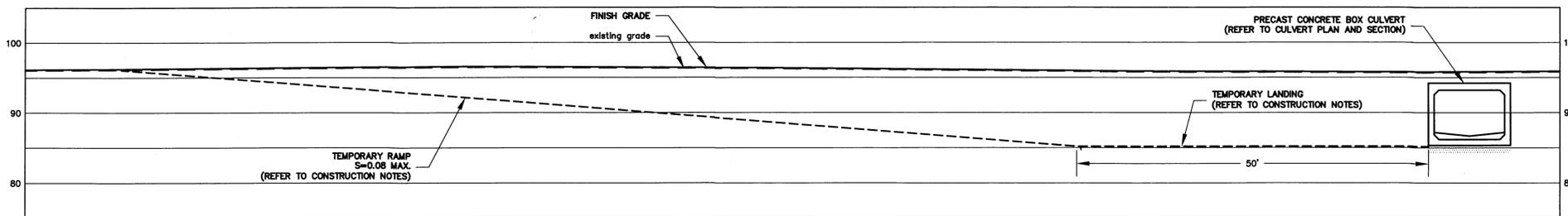


**GRAVEL ROAD CROSS SECTION**

NOT TO SCALE



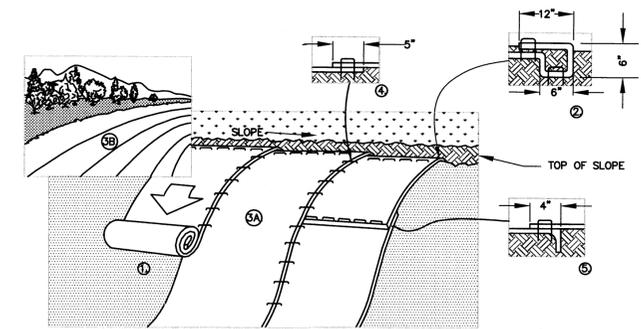
**SECTION B-C-2**  
SCALE: 1"=5'



**SECTION C-C-2**  
SCALE: 1"=10'

**EROSION CONTROL NOTES:**

1. THE PROJECT IS NOT REQUIRED TO OBTAIN COVERAGE UNDER THE STATE OF VERMONT'S CONSTRUCTION GENERAL PERMIT (3-9020).
2. THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH THE STATE OF VERMONT WATER QUALITY STANDARDS. ANY FINES ASSESSED BY REGULATORY AGENCIES FOR THE NONCOMPLIANCE WITH STATE WATER QUALITY STANDARDS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE PERSONNEL REQUIRED TO INSPECT AND MAINTAIN EROSION PREVENTION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs) FOR THIS PROJECT.
3. THE EROSION PREVENTION AND SEDIMENT CONTROL MEASURES SHOWN ON THE PLANS DO NOT RELIEVE THE CONTRACTOR'S RESPONSIBILITY TO OBSERVE, EVALUATE AND CONSIDER ALTERNATIVES AND TO PROPOSE APPROPRIATE RECOMMENDATIONS IN ORDER TO LIMIT POTENTIAL WATER QUALITY IMPACTS.
4. EROSION CONTROL MEASURES SHALL BE MONITORED AND MAINTAINED THROUGHOUT CONSTRUCTION AND REMOVED AFTER PROJECT AREA AND DRAINAGE COURSES ARE FULLY ESTABLISHED AND STABLE.
5. ALL DISTURBED AREAS NOT UNDER ACTIVE CONSTRUCTION SHALL BE STABILIZED BY ROUGH GRADING TO MINIMIZE SLOPES AND MULCHED. FOLLOWING FINAL GRADING OF ANY PORTION OF THE SITE, CONTRACTOR SHALL LOAM, SEED AND MULCH WITHIN ONE WEEK.
6. REFER TO CONTRACT SPECIFICATIONS AND DETAILS FOR ADDITIONAL INFORMATION.
7. THE CONTRACTOR SHALL INSTALL INLET PROTECTION ON ALL CATCH BASINS WITHIN 100 FEET DOWN GRADIENT OF THE ACTIVELY WORKED CONSTRUCTION AREA. INLET PROTECTION BEST MANAGEMENT PRACTICES SHALL BE INSTALLED PRIOR TO THE START OF WORK AND IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

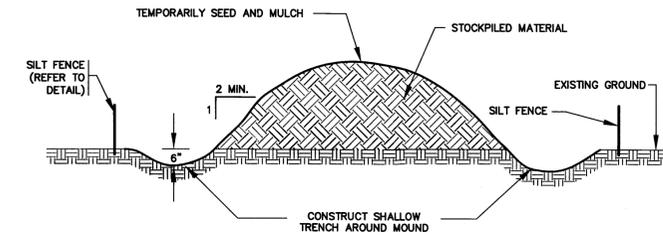


**NOTES:**

1. SOIL SHALL BE PREPARED PRIOR TO INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER AND SEED.
2. BLANKET AT TOP OF THE SLOPE TO BE ANCHORED IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. TRENCH SHALL BE BACKFILLED AND COMPACTED AFTER STAPLING. SECURE BLANKET OVER SOIL WITH ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
3. ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 5" OVERLAP.
5. CONSECUTIVE BLANKETS SPICED DOWN THE SLOPE SHALL BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 4" OVERLAP. BURY END OF LOWER FABRIC 6" DEEP AND STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE BLANKET WIDTH.
6. ROLLED EROSION PRODUCT REQUIRED ON ALL SLOPES 3:1 (3' HORIZ. TO 1' VERT.) OR GREATER.
7. ROLLED EROSION CONTROL PRODUCT SHALL BE DRY AND DEGRADABLE PROCESSED NATURAL OR POLYMER FIBERS MECHANICALLY, STRUCTURALLY OR CHEMICALLY BOUND TOGETHER TO FORM A CONTINUOUS MATRIX, COMPLYING WITH SPECIFICATIONS.

**ROLLED EROSION CONTROL PRODUCT DETAIL**

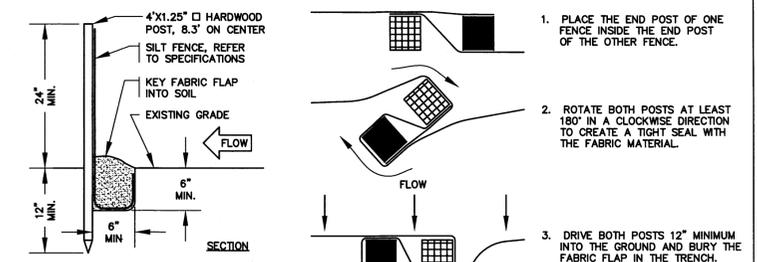
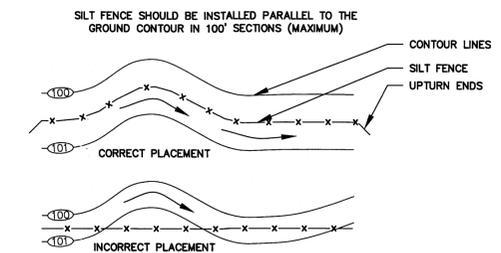
NOT TO SCALE



**MATERIAL STOCKPILE MOUND**

NOT TO SCALE

- NOTE:**
1. INSTALL SILT FENCING AROUND PERIMETER OF MOUND.



**NOTES:**

1. SILT FENCE SHALL BE INSTALLED AT THE DOWNHILL SIDE OF CONSTRUCTION ACTIVITIES BEFORE UPSLOPE LAND DISTURBANCE BEGINS.
2. REFER TO TECHNICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.

**SILT FENCE DETAIL**

NOT TO SCALE



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**TOWN OF PAWLET  
BULLFROG HOLLOW ROAD  
CULVERT REPLACEMENT  
PAWLET, VERMONT**

**PERMITTING/BID**

|              |                             |
|--------------|-----------------------------|
| DATE ISSUED: | 2/25/15                     |
| REVISIONS:   |                             |
| DRAWN BY:    | HB                          |
| CHECKED BY:  | CC                          |
| SCALE:       | SHOWN                       |
| PROJECT NO.: | 677.004                     |
| CADD FILE:   | 677-004                     |
| TITLE:       | NOTES, DETAILS AND SECTIONS |

DRAWING NO.

**C-2**

**GENERAL NOTES**

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6. ALL UNDERGROUND UTILITIES ARE SHOWN AS APPROXIMATE LOCATIONS.
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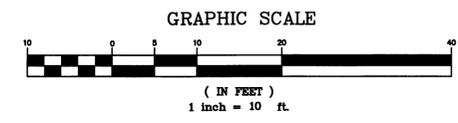
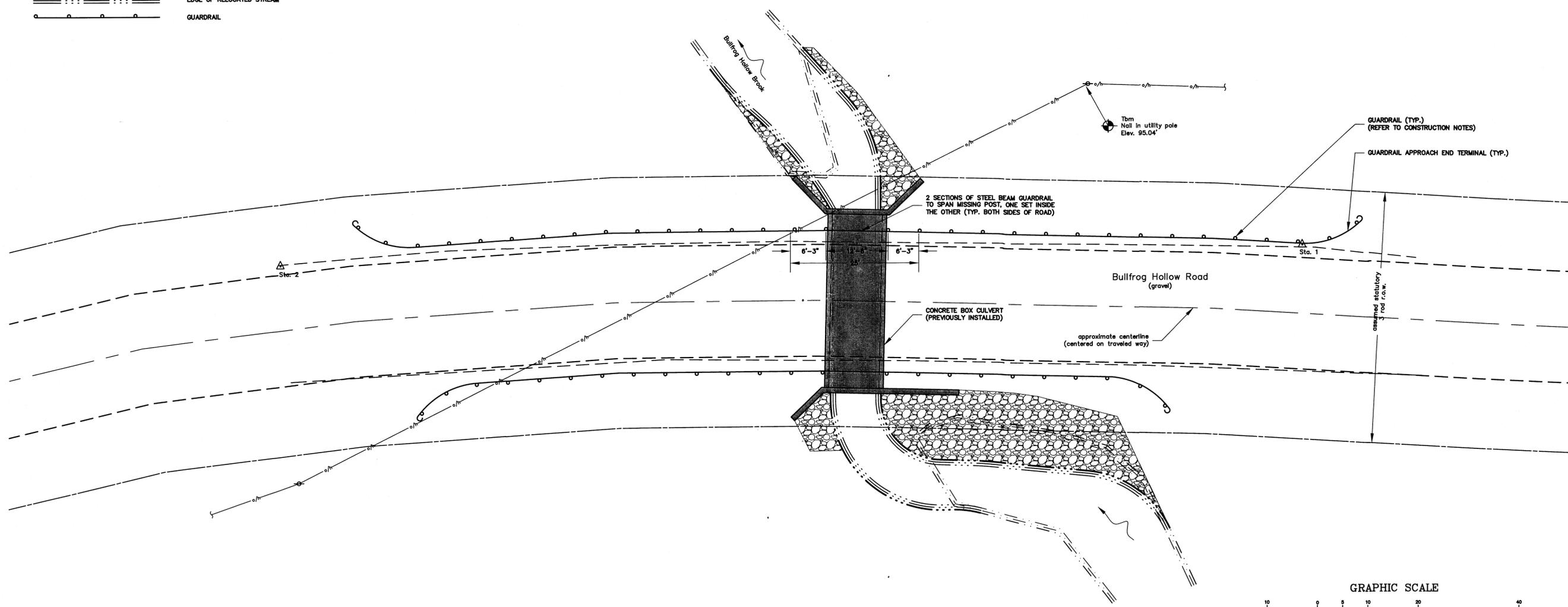
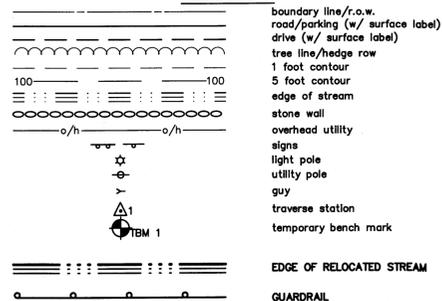
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**CONSTRUCTION NOTES:**

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3. RESIDENTS SHALL BE NOTIFIED IN ADVANCE (24 HOURS MINIMUM) OF ANY WORK WHICH WILL LIMIT THE ACCESS TO THEIR PROPERTY.
4. CONTRACTOR SHALL FIELD LOCATE ALL UNDERGROUND UTILITIES PRIOR TO START OF WORK.
5. GUARD RAIL SHALL BE "W" BEAM WITH GALVANIZED POSTS PER VTRANS STANDARD G-1 AND G-1d.
6. GUARD RAIL END TREATMENT SHALL BE PER VTRANS STANDARD G-1d.

**LEGEND**



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E-mail: info@ottercreek.com

STAMP AND SIGNATURE:  
  
DESIGN ENGINEER

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MAGNETIC NORTH

**TOWN OF PAWLET**  
**BULLFROG HOLLOW ROAD**  
**GUARDRAIL INSTALL**  
**PAWLET, VERMONT**

|                            |
|----------------------------|
| BID                        |
| DATE ISSUED: 2/25/15       |
| REVISIONS:                 |
|                            |
|                            |
|                            |
| DRAWN BY: HB               |
| CHECKED BY: CC             |
| SCALE: 1"=10'              |
| PROJECT NO.: 677.004       |
| CADD FILE: 677-004         |
| TITLE:<br><b>SITE PLAN</b> |

DRAWING NO.  
**G-1**