

ADDENDUM NO. 1
December 14, 2023
229294

RE: BROAD BROOK ROAD SLOPE FAILURE TEMPORARY ROAD

FROM: DuBOIS & KING, INC.
P.O. Box 339
Randolph, Vermont 05060
(802) 728-3376

TO: Prospective Bidders

This Addendum forms part of the Contract Documents and modifies the original Bidding Documents issued by the Town of Royalton, Vermont, for the Broad Brook Road Slope Failure Temporary Road project dated December 7, 2023. **Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so will subject the Bidder to disqualification.**

I. Pre-Bid Meeting

A Pre-Bid meeting was held at the Project Site on December 13, 2023 at 12:00 p.m. The meeting attendance log is attached. Jon Ashley of DuBois & King reviewed the project plans with the attendees. Specific items discussed included:

- The project resulted from the July flooding and residents in the area are currently faced with a significant detour. This project is intended to re-open the road until the permanent slope repair can be completed.
- General description of the project.
- Construction Notes 1 and 10 on Sheet G-1.
- Meeting Note 3 on Sheet G-1 is not applicable and will be removed.
- The clearing limits note on Sheet C-1. DuBois & King will have a representative visit the site during the Contractor's layout of the retaining wall, and also if needed during construction of the wall, to coordinate regarding which trees above the wall should be cut.
- The temporary wall detail and notes on Sheet D-1.

Questions and answers from the pre-bid meeting are listed below.

II. Contract Documents and Drawings Changes

REMOVE and REPLACE Drawings with the attached revised Drawings.

REMOVE and REPLACE Bid Form with the attached Bid Form.

REMOVE Special Provision Electric Lines to Temporary Traffic Lights.

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III. Questions & Answers

The following addresses questions received by phone, email, or during the pre-bid meeting.

Question 1: Is Meeting Note #3 of the bid plan set, page G-1, applicable to this project?

Answer 1: Meeting Note #3 from the “General Notes” page (G-1) of the bid plan set is not applicable to this project. The Contractor does not need to submit an ESPC plan.

Question 2: Is a Bid Bond required?

Answer 2: No Bid Bond is required. DELETE Instructions to Bidder 11.f.

Question 3: Are the bonding requirements in the documents correct?

Answer 3: The Town is not requiring bonding for the project. Liquidated Damages do apply. REVISE Instructions to Bidders 13.b as follows:
Failure to comply with any of the requirements of these provisions relative to signing the contract ~~or failure to furnish the required surety within fifteen (15) ten (10) calendar days after notice of award shall be just cause for the annulment of the award or of the contract. and/or forfeiture of the bid guarantee/bid bond. Further, if the award or the contract is annulled, or if the contract is not awarded due to in (action) of the lowest responsible bidder that has submitted a bid that complies with all the provisions required to make it formal, the bid guarantee accompanying the bid shall become the property of the Municipality, not as a penalty but as liquidated damages.~~

Question 4: Based on Contractor experience, Green Mountain Power may be difficult to schedule and coordinate with for running electric to the proposed traffic lights. Can that portion of the work be taken out of the Contract?

Answer 4: Based on a review of the site conditions and sight lines, and this input from Contractors, the Town has elected to remove the traffic lights from the plans. The Town will provide stop signs and other warning signs at each end of the single lane road. The attached plans have been revised to reflect this change.

Question 5: It looks like the block wall height may need to be greater than 6 feet – is that correct?

Answer 5: The wall design has been updated on the attached plans.

Question 6: Is there any concern about plowing through the winter undermining the block wall?

Answer 6: The proposed wall and road design have been revised to provide six inches more embedment of the bottom block.

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Question 7: Note 4 on Sheet D-1 is too restrictive for constructing the wall; at 76 feet long, the wall can be constructed in a day. Can the length of the wall installation allowed at a given time be increased from the current 12-foot limit?

Answer 7: Note 4 has been revised on the attached plans.

Question 8: Does the Town have a stump dump?

Answer 8: No.

Question 9: Do the materials installed for the project become property of the Town after completion (Jersey barriers, concrete blocks, for example)?

Answer 9: Yes.

Question 10: A standard concrete block that's readily available in the area (from Carroll Concrete for instance) is 3'x6'x18" and is flat; not notched. For a temporary application like this, the Contractors don't have a concern about using flat blocks without a notch. Can the block sizes on the plans be revised?

Answer 10: The block sizes have been revised on the attached plans.

Question 11: What should be done with cut trees?

Answer 11: Trees shall be cut to log length and stacked on the abutting landowner's property.

Question 12: What is the Byrd Anti-Lobbying Amendment?

Answer 12: The Byrd requirements and the certification that need to be submitted with the bid are attached to the Bid Documents. A copy of the certification to be submitted with the bid is also attached to this Addendum.

This document constitutes Addendum 1 for this project.

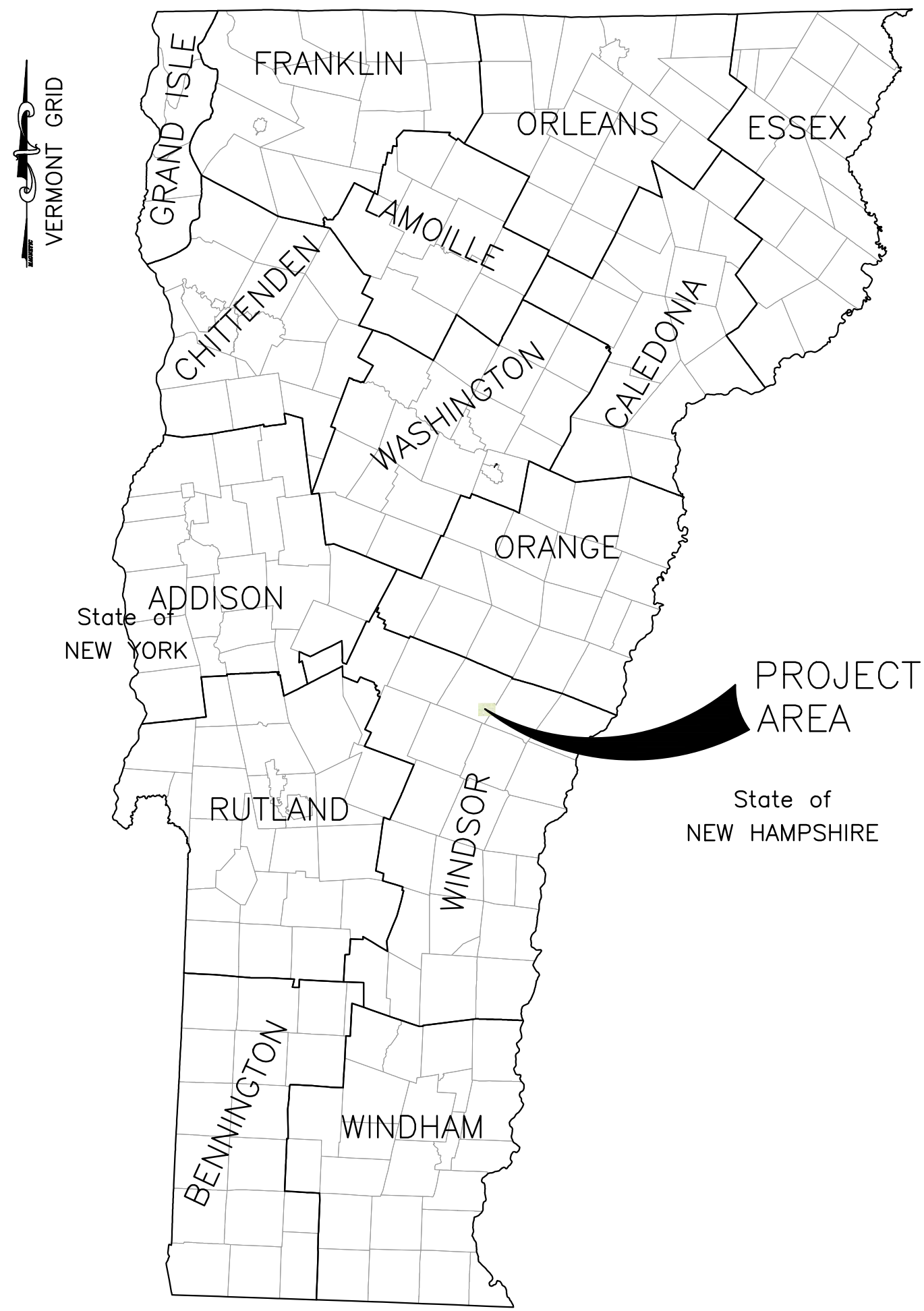
PRE-BID MEETING
ROYALTON BROAD BROOK ROAD SLOPE FAILURE TEMPORARY ROAD
PROJECT # 229294
December 13, 2023 – 12:00 PM

ATTENDANCE LOG

(Please Print)

NAME	AFFILIATION & TITLE	PHONE #	E-MAIL ADDRESS
JEFF TOMLINSON	KINGSBURY COMPANIES LLC	802 779-2816	ESTIMATING ATC@KINGSBURYCO.COM
Zachary Crowley	Kirk Fenoff + Son excavation	802-535-0109	zcrowley2010@gmail.com
Ed Gaudreau	ECA	802-922-0200	egaudreau@ecivt.com
Barry Sleath	DANIELS	802-291-3921	BSLEATH@NEILHDANIELS.COM
Chad Cole	Dirt Tech Company LLC	802-318-3553	Chad@DirtTechVT.Com
KYAN FILSKO	RAFILSKO and Sons	802-345-9418	RAFILSKOandSons@gmail.com
Fred Kidden	Blue Mountain Trucking + Exc	802-249-1396	blue mt + kex@gmail.com
TOM MARKOWSKI	MARKOWSKI EXCAVATING, INC	802-483-6469	Tom@MARKOWSKIEX.COM

TOWN OF ROYALTON BROAD BROOK ROAD SLOPE FAILURE TEMPORARY ROAD



LOCATION MAP
NOT TO SCALE



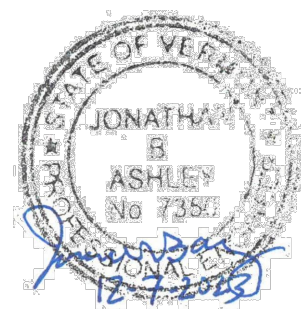
28 NORTH MAIN STREET
RANDOLPH, VT 05060
TEL: (802) 728-3376
www.dubois-king.com

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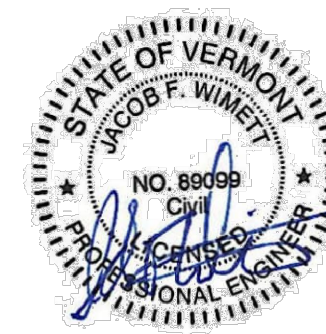


85 GRANITE SHED LANE
UNIT 1
MONTPELIER, VT 05602
802.674.2033
geocompanies.com

NOTE: GEOTECHNICAL ENGINEERING DESIGN IS PROVIDED BY GEODESIGN

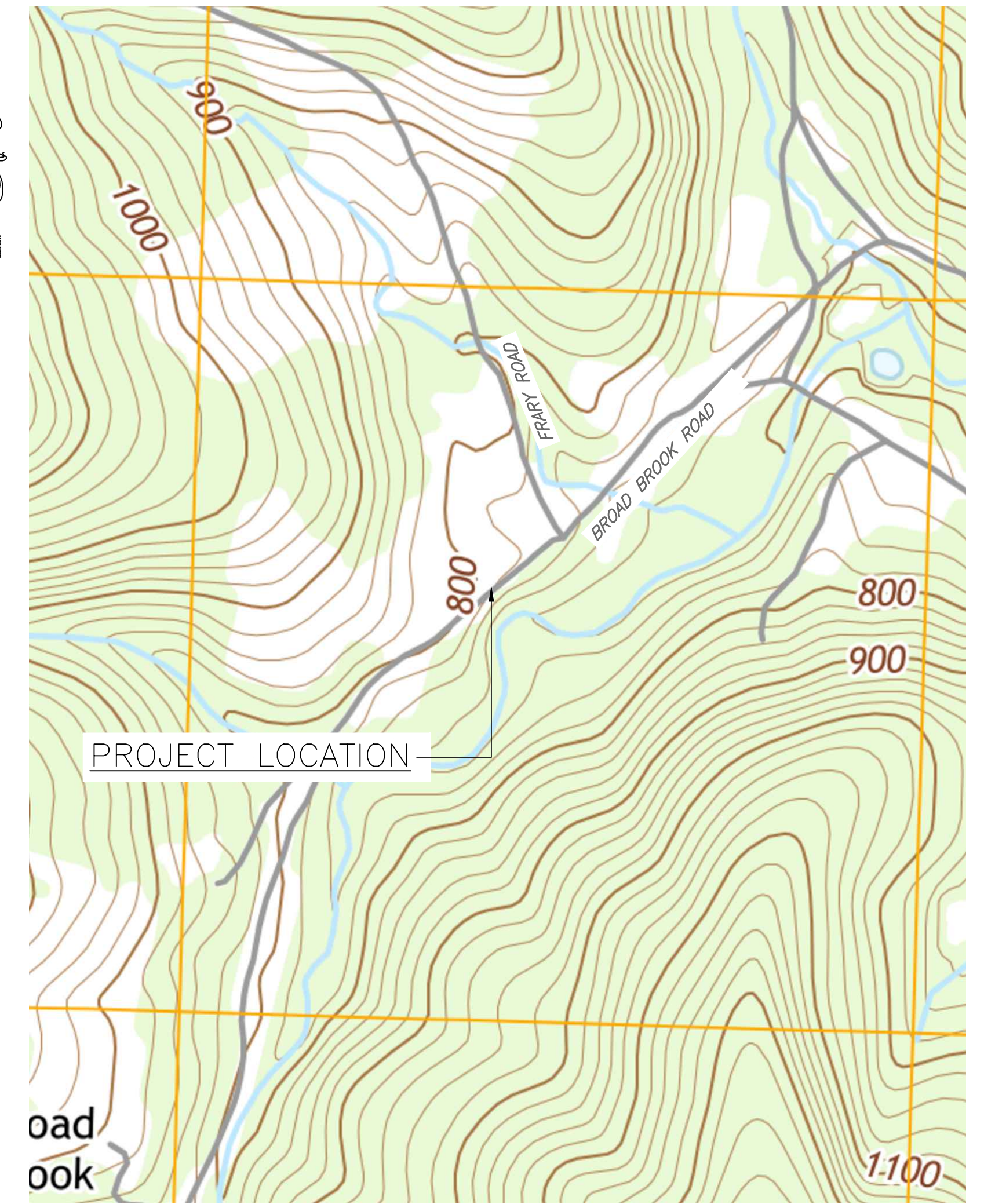


DECEMBER 2023
BID SET
NOT FOR CONSTRUCTION



LIST OF DRAWINGS

TITLE	SHEET NO.	PAGE NO.
COVER SHEET		1
GENERAL NOTES AND LEGEND	G-1	2
EXISTING CONDITIONS PLAN	EX-1	3
TEMPORARY ROADWAY PLAN	C-1	4
DETAILS	D-1, D-2	5,6



PROJECT LOCATION MAP
APPROX. SCALE: 1" = 500' ±

REVISION NO.	DATE	DESCRIPTION	PROJECT NO.	SHEET
1	12-14-23	ADDENDUM #1	229294	1 OF 6

GENERAL NOTES

1. THE PURPOSE OF THIS PROJECT IS TO CONSTRUCT A TEMPORARY ACCESS ROAD NORTH OF THE EXISTING LOCATION OF BROAD BROOK ROAD FOR THE USE OF GENERAL TRAFFIC.
2. THIS PROJECT INCLUDES TWO MAJOR ELEMENTS:
 - CUTTING AND FILLING OF THE EXISTING HILL NORTH OF BROAD BROOK ROAD AND INSTALLING A TEMPORARY RETAINING WALL FROM CONCRETE WASTE BLOCK.
 - CONSTRUCTING A TEMPORARY 12' WIDE ROADWAY TO CARRY SIGNALIZED ONE-WAY TRAFFIC UNTIL THE ADJACENT PERMANENT SLOPE STABILIZATION PROJECT IS COMPLETE.
3. INITIATION OF WORK AT THE SITE WILL BEGIN UPON THE APPROVAL OF THE TOWN OF ROYALTON. THE CONTRACTOR, BY BIDDING ON THIS PROJECT, ACKNOWLEDGES THE POTENTIAL FOR A CHANGE IN THE PROJECT SCHEDULE AND MAY NOT FILE A DELAY CLAIM RESULTING FROM SUCH A CHANGE.
4. THE OWNER OF THE PROJECT IS THE TOWN OF ROYALTON.
5. THE OWNER'S REPRESENTATIVE IS DEFINED AS THE ENTITY WHO HAS BEEN AUTHORIZED BY THE OWNER TO MAKE ENGINEERING DECISIONS FOR THE PROJECT. ENGINEERING PERFORMED BY DUBOIS & KING, INC. CONTACT PERSON IS JON ASHLEY, P.E. AT (802) 728-3376.
6. TOPOGRAPHY AND PLANIMETRIC DATA SHOWN ON THESE PLANS ARE BASED ON FIELD SURVEY COMPLETED BY DUBOIS & KING, INC. ON OCTOBER 11, 2023. SURVEY GEOMETRY BELOW THE STREAM BANKS MAY HAVE CHANGED SINCE THE SURVEY.
7. THE ELEVATIONS, DIMENSIONS, AND LOCATION OF ALL PROJECT COMPONENTS SHALL BE FIELD VERIFIED BY CONTRACTOR.
8. THE OWNER'S REPRESENTATIVE MAY MODIFY THE PROPOSED GRADING IF EXISTING FIELD CONDITIONS HAVE SIGNIFICANTLY CHANGED OR UNEXPECTED CONDITIONS ARISE (I.E. BEDROCK, LEDGE, OTHER OBSTRUCTIONS, ETC.).
9. WRITTEN DIMENSIONS HAVE PRECEDENCE OVER SCALED DIMENSIONS. THE CONTRACTOR SHALL USE CAUTION WHEN SCALING REPRODUCED PLANS. IN CASE OF CONFLICT BETWEEN THIS PLAN SET AND ANY OTHER DRAWING OR SPECIFICATION, THE OWNER'S REPRESENTATIVE SHALL BE NOTIFIED IMMEDIATELY FOR CLARIFICATIONS.
10. THE CONTRACTOR SHALL BE FAMILIAR WITH THE EXISTING CONDITIONS OF THE SITE AND SURROUNDINGS PRIOR TO BIDDING ON OR PERFORMING THE WORK.
11. THE CONTRACTOR SHALL BID AND PERFORM THE WORK FROM A COMPLETE SET OF PLANS AND SPECIFICATIONS, AND SHALL NOTIFY THE OWNER'S REPRESENTATIVE OF ANY CONFLICTS WITHIN THE CONSTRUCTION DOCUMENTS, DURING THE BID PHASE.
12. THE CONTRACTOR SHALL BID AND PERFORM THE WORK IN ACCORDANCE WITH ALL LOCAL, STATE, AND NATIONAL CODES, SPECIFICATIONS, REGULATIONS, STANDARDS, AND DETAILS.

EPSC GENERAL NOTES:

1. SITE BOUNDARIES AND AREAS ACCESSIBLE TO CONSTRUCTION EQUIPMENT SHALL BE DELINEATED.
2. PROTECT DITCHES AND ALL STORMWATER DRAINAGE PATHS.
3. EARTH DISTURBANCE SHALL BE MINIMIZED THROUGH CONSTRUCTION PHASING BY ONLY OPENING UP EARTH AS NECESSARY.
4. THE FORECAST OF RAINFALL EVENTS SHALL TRIGGER IMMEDIATE PROTECTION OF EXPOSED SOILS.
5. ALL EXCESS WASTE NOT SUITABLE OR APPROVED FOR ON-SITE DISPOSAL SHALL BE DISPOSED OF OFF-SITE AT THE CONTRACTORS COST IN COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS AND THE APPROVED CORRECTIVE ACTION PLAN FOR THE PROJECT.
6. ALL EPSC MEASURES TO BE INSPECTED ON A DAILY BASIS BY THE CONTRACTOR AND IMMEDIATELY FOLLOWING A RUNOFF PRODUCING RAIN EVENT. ALL MEASURES SHALL BE REGULARLY MAINTAINED AND SHALL BE CHECKED FOR SEDIMENT BUILD-UP. SEDIMENT SHALL BE DISPOSED OF AT AN APPROVED SITE WHERE IT WILL NOT BE SUBJECT TO EROSION.
7. PROJECT DEMARCATION FENCING (PDF) SHALL BE USED TO PHYSICALLY MARK SITE BOUNDARIES. BARRIER FENCE SHALL BE USED INSTEAD OF PROJECT DEMARCATION FENCE WITHIN 100 FEET OF A WATER RESOURCE (STREAM, BROOK, LAKE, POND, WETLAND, ETC).
8. PREVENT INITIAL SOIL EROSION BY MINIMIZING THE EXPOSED AREA THROUGH PHASING SUCH THAT EARTH DISTURBANCE IS DONE ONLY AS NECESSARY. EMPLOY TEMPORARY CONSTRUCTION STABILIZATION PRACTICES IN INCREMENTAL STAGES AS PHASES CHANGE.
9. TRACKING OF SEDIMENT ONTO PUBLIC HIGHWAYS SHALL BE MINIMIZED TO REDUCE THE POTENTIAL FOR RUNOFF ENTERING RECEIVING WATERS. INSTALLATION SHALL COINCIDE WITH THE CONTRACTORS PROGRESS SCHEDULE. STABILIZED CONSTRUCTION ENTRANCES SHALL BE PLACED AT THE INTERFACE BETWEEN EXISTING PAVEMENT AND CONSTRUCTION ACCESS TO DISTURBED AREAS.
10. CONTRACTOR IS RESPONSIBLE, AT NO ADDITIONAL COST TO THE OWNER, TO REPLACE STONE AT THE CONSTRUCTION ENTRANCES AS NECESSARY WHEN THEY BECOME CONTAMINATED WITH SOIL AND TO SWEEP ADJACENT CITY OR STATE HIGHWAYS AS NECESSARY TO KEEP THE ROADWAY FREE FROM MATERIALS

TRACKED ONTO THE SURFACE FROM THE PROJECT.

11. DIVERSIONARY MEASURES SHALL BE USED TO INTERCEPT RUNOFF FROM ABOVE THE CONSTRUCTION AND DIRECT IT AROUND THE DISTURBED AREA SO THAT CLEAN WATER DOES NOT BECOME MUDDIED WHILE TRAVELING OVER EXPOSED SOILS ON THE CONSTRUCTION SITE.
12. SURFACE ROUGHENING OF ALL EXPOSED SLOPES, COMBINED WITH TEMPORARY MULCHING, SHALL BE UTILIZED ON A REGULAR BASIS. BIODEGRADABLE EROSION CONTROL MATTING OR AN EQUIVALENT SHALL BE USED TO STABILIZE ALL SLOPES STEEPER THAN 1:3.
13. EXPOSED SOIL MUST BE STABILIZED WITHIN 48 HOURS OF REACHING FINAL GRADE. THE FORECAST OF RAINFALL EVENTS SHALL TRIGGER IMMEDIATE PROTECTION OF EXPOSED SOILS.
14. SEED AND MULCH SHALL BE USED TO ESTABLISH PERMANENT VEGETATION. FOR SLOPES STEEPER THAN 1:3, BIODEGRADABLE EROSION CONTROL MATTING OR AN EQUIVALENT SHALL BE USED INSTEAD OF MULCH.

CONSTRUCTION NOTES

1. CONTRACTOR SHALL LAY OUT THE CONSTRUCTION BASELINES AND STAKE OUT LIMITS OF PROPOSED WORK AND REVIEW WITH THE ENGINEER PRIOR TO CONSTRUCTION. THE PROPOSED CONSTRUCTION BASELINE WILL BE REPRESENTED BY THE CENTERLINE OF THE EXISTING ROAD.
2. NO DEVIATION OR DEPARTURE FROM THE DESIGN INTENT PRESENTED IN THE CONTRACT DOCUMENTS (PLANS AND SPECIFICATIONS) WILL BE ALLOWED UNLESS AUTHORIZED BY THE ENGINEER.
3. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY CONDITIONS THAT ARE UNEXPECTED, UNKNOWN, AND/OR NOT INDICATED ON THE DRAWINGS AND SHALL PROCEED AS DIRECTED BY THE ENGINEER.
4. THE CONTRACTOR MUST RECEIVE PRIOR WRITTEN AUTHORIZATION FROM THE ENGINEER FOR ANY PROPOSED SUBSTITUTIONS FOR ITEMS AND MATERIALS SPECIFIED ON THESE DRAWINGS.
5. THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND FOR CONDITIONS AT THE SITE. THESE PLANS, PREPARED BY DUBOIS & KING, INC. DO NOT EXTEND TO OR INCLUDE SYSTEMS PERTAINING TO THE SAFETY OF THE CONSTRUCTION CONTRACTOR OR THEIR EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE SEAL OF THE SURVEYOR OR ENGINEER HERE ON DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEMS THAT MAY NOW OR HEREAFTER BE INCORPORATED INTO THESE PLANS. THE CONSTRUCTION CONTRACTOR SHALL PREPARE OR OBTAIN THE APPROPRIATE SAFETY SYSTEMS WHICH MAY BE REQUIRED BY THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), LOCAL REGULATIONS, AND/OR THE BOARD OF LABOR.
6. TOXIC OR HAZARDOUS WASTE IS NOT TO BE STORED OR DISCHARGED ON OR FROM THIS SITE. ALL EQUIPMENT IS TO BE REMOVED FROM REGULATORY JURISDICTIONAL AREAS DAILY OR AFTER OPERATIONS ARE CEASED.
7. STAGING AREAS SHALL BE LOCATED AWAY FROM SENSITIVE AREAS INCLUDING WETLANDS AND STREAMS.
8. THE CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY SHORING, WATER DIVERSION, AND DEWATERING REQUIREMENTS NEEDED FOR THE PROJECT.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE REPAIR OF ANY DAMAGE TO PRIVATE OR PUBLIC PROPERTY BEYOND THE LIMITS OF CONSTRUCTION CAUSED BY THE CONTRACTOR.
10. PRIOR TO THE REMOVAL OF TREES AND VEGETATION ON THE PROJECT, THE CONTRACTOR SHALL CONDUCT A SITE WALK WITH THE ENGINEER TO IDENTIFY THE LIMITS OF TREE AND VEGETATION REMOVAL.

MEETINGS

1. THE CONTRACTOR SHALL PARTICIPATE IN AN ON-SITE PRE-CONSTRUCTION CONFERENCE.
2. THE CONTRACTOR SHALL SUBMIT AN ANTICIPATED WORK SCHEDULE TO THE ENGINEER AT THE BEGINNING OF THE PROJECT.
3. THE CONTRACTOR SHALL PROVIDE THE ENGINEER 48 HOURS ADVANCE NOTICE PRIOR TO INITIATING CRITICAL CONSTRUCTION ACTIVITIES. FAILURE OF THE CONTRACTOR TO PROVIDE THE REQUIRED NOTICE MAY RESULT IN DELAYS TO THE PROJECT AT NO ADDITIONAL COST TO THE OWNER.
4. CRITICAL ACTIVITIES INCLUDE:
 - TREE REMOVAL
 - STONE FILL PLACEMENT
 - BLOCK WALL INSTALLATION
 ADDITIONAL CRITICAL ACTIVITIES MAY BE IDENTIFIED IN THE PRE-CONSTRUCTION CONFERENCE.
5. THE CONTRACTOR AND THE ENGINEER SHALL PARTICIPATE IN A FINAL INSPECTION OF THE PROJECT UPON COMPLETION OF THE WORK DEPICTED IN THESE DRAWINGS.



SUBMITTALS

1. THE CONTRACTOR SHALL SUBMIT MATERIAL SLIPS FOR THE FOLLOWING ITEMS PRIOR TO INCORPORATING THEM INTO THE PROJECT:
 - GRAVEL FOR ROADWAY
 - CRUSHED STONE FOR TEMPORARY RETAINING WALL LEVELING PAD
 - GRANULAR BACKFILL FOR STRUCTURES FOR PLACEMENT BEHIND THE TEMPORARY RETAINING WALL
 - GEOTEXTILE FABRIC

CONSTRUCTION SEQUENCE

1. MOBILIZE TO THE SITE, INSTALL CONSTRUCTION LIMITS DEMARCATION, AND ESTABLISH STAGING AREAS.
2. INSTALL EROSION CONTROL MEASURES
3. CLEAR AND GRUB SITE
4. EXCAVATE SLOPE FOR WALL CONSTRUCTION
5. CONSTRUCT WALL
6. CONSTRUCT ROAD
7. RESTORE SURFACE CONDITIONS BY GRUBBING, SEEDING AND MULCHING AND REPLACING GRAVEL BED MATERIAL IN THE CHANNEL
8. DEMOBILIZE FROM SITE

CLEARING AND GRUBBING

1. PRIOR TO THE START OF STRIPPING REUSABLE GRUBBING MATERIAL, THE CONTRACTOR SHALL ISOLATE AND DISPOSE OF DELETERIOUS MATERIAL INCLUDING METAL, GLASS AND GARBAGE.
2. GRUBBING MATERIAL FOR REUSE SHALL BE GENERALLY FREE OF VISIBLE DELETERIOUS MATERIAL. UNNECESSARY MIXING OF DELETERIOUS MATERIAL WITH GOOD QUALITY GRUBBING MAY RESULT IN AN ADJUSTMENT IN PAYMENT.
3. GRUBBING MATERIAL, INCLUDING VEGETATION, MAY NOT BE ALLOWED TO ENTER THE STREAM CHANNEL.
4. LIMITS OF PROPOSED GRUBBING SHALL BE SUBJECT TO REVIEW BY ENGINEER AND TOWN BEFORE CONSTRUCTION WITH RESPECT TO PROPERTY LINES.

TESTING

1. COMPACTION TESTING IS REQUIRED ON FILL PLACED FOR THE BUILDING OF THE PROPOSED ROADWAY AND PLACED BEHIND THE TEMPORARY RETAINING WALL. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION AND PAYMENT OF ALL REQUIRED MATERIAL TESTING.

RIGHT OF WAY AND PROPERTY ACCESS

1. IT IS ASSUMED THAT THE CITY OF ROYALTON OWNS ALL RIGHTS OF WAY OR PROPERTY, OR HAS SECURED PERMISSION TO ACCESS THE SITES AND PERFORM THE WORK DEPICTED IN THESE DRAWINGS.
2. ALL CONSTRUCTION ACTIVITIES SHALL BE PERFORMED WITHIN THE IDENTIFIED CONSTRUCTION LIMITS. ANY NEED TO GO BEYOND THESE LIMITS MAY TRIGGER THE NEED FOR ADDITIONAL PROPERTY EASEMENTS, PERMITTING REQUIREMENTS AND WILL REQUIRE PRIOR WRITTEN APPROVAL BY OWNER AND ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY STAGING/STORAGE AREAS OUTSIDE OF THE LIMITS SHOWN, INCLUDING PROPERTY OWNERS APPROVAL, PERMITS AND ALL COSTS.

UTILITIES

1. LOCATION OF UTILITIES SHOWN ON THESE PLANS IS APPROXIMATE, AND DUBOIS & KING MAKES NO CLAIM TO THE ACCURACY OR COMPLETENESS OF THEIR DEPICTION.
2. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING AND DETERMINING ALL UTILITIES (ABOVE AND BELOW GROUND) WITHIN THE PROJECT LIMITS, AND TO TAKE THE NECESSARY PRECAUTIONS TO PROTECT UTILITIES DURING CONSTRUCTION.
3. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING DIGSAFE AT 1-888-DIG-SAFE AT LEAST 72 HOURS BEFORE DIGGING. ALL UTILITY SERVICE CONNECTION POINTS SHALL BE CONFIRMED INDEPENDENTLY BY THE CONTRACTOR IN THE FIELD PRIOR TO THE INITIATION OF CONSTRUCTION.
4. THE PRESENCE OF OVERHEAD POWER LINES MAY REQUIRE ADDITIONAL PRECAUTIONS OR CONSIDERATION OF ALTERNATIVE METHODS IN THE DRIVING OF PILES OR OTHER WORK.
5. THE OWNER SHALL BE NOTIFIED IN WRITING OF ANY UTILITIES FOUND INTERFERING WITH THE PROPOSED CONSTRUCTION, AND APPROPRIATE REMEDIAL ACTION BE SHALL BE DETERMINED AND AGREED UPON BY THE ENGINEER BEFORE PROCEEDING WITH THE WORK.

ROADWAYS AND TRAFFIC CONTROL:

1. TRAFFIC CONTROL AND SIGNAGE SHALL COMPLY WITH VTRANS AND CITY OF ROYALTON STANDARDS AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE HIGHWAY SIGNAGE BOOK. VTRANS SPECIFICATION 675.20 AND 675.341 APPLY.
2. CONTRACTOR SHALL ARRANGE AND CONDUCT A SITE COORDINATION MEETING WITH THE CITY AND THE ENGINEER PRIOR TO STARTING, TO REVIEW THE CONTRACTORS PROPOSED SEQUENCING, TRAFFIC AND PEDESTRIAN CONTROL PLAN.
3. ACCESS FOR RESIDENTS AND EMERGENCY VEHICLES SHALL BE MAINTAINED AT ALL TIMES ON BROAD BROOK ROAD AND FAIRY ROAD.

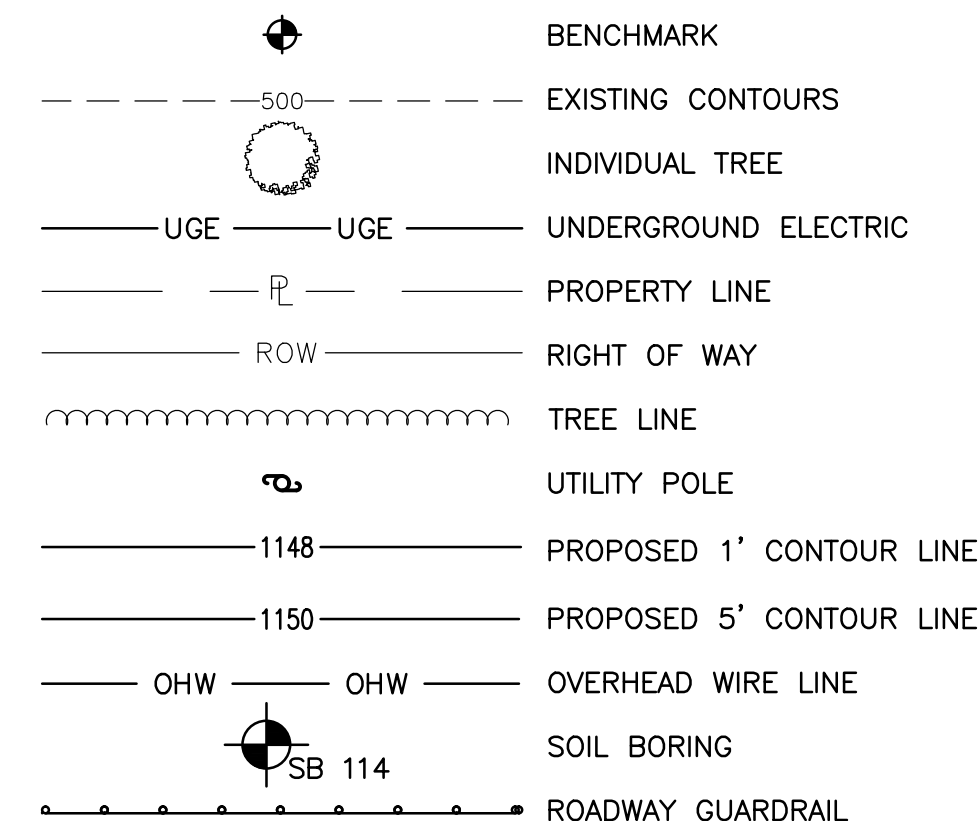
MATERIALS:

GEOTEXTILE

1. GEOTEXTILE USED FOR ROADWAY SEPARATOR FABRIC SHALL MEET THE FOLLOWING MINIMUM SPECIFICATIONS:
 - GRAB ELONGATION AT FAILURE (%) 50
 - GRAB TENSILE STRENGTH (LBS) 160
 - BURST STRENGTH (PSI) 190
 - PUNCTURE (LBS) 55
 - TRAPEZOIDAL TEAR STRENGTH (LBS) 55
 - APPARENT OPENING SIZE (MILS) 16.5 MAX
 - PERMITTIVITY (/S) 0.02
 - UV RESISTANCE (% STRENGTH RETAINED) 50% @ 500 HOURS
2. GEOTEXTILE USED FOR FILTER FABRIC SHALL MEET THE FOLLOWING MINIMUM SPECIFICATIONS:

- GRAB ELONGATION AT FAILURE (%) 50 MAX
- GRAB TENSILE STRENGTH (LBS) 160
- PUNCTURE (LBS) 410
- TRAPEZOIDAL TEAR STRENGTH (LBS) 60
- APPARENT OPENING SIZE (MILS) 0.212 MAX
- PERMITTIVITY (/S) 1.5
- UV RESISTANCE (% STRENGTH RETAINED) 80% @ 500 HOURS

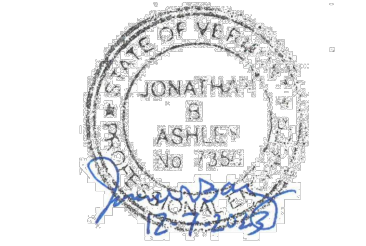
LEGEND



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 BRANDON, VT
 BEDFORD, NH LACONIA, NH

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PROFESSIONAL SEAL



BID SET NOT FOR CONSTRUCTION

NO.	DATE	DESCRIPTION	BY	CHK'D
1	12-14-23	ADDENDUM 1: REMOVE EPSC PLAN REQ.	KLL	JBA

2640-2455 BROAD BROOK ROAD, ROYALTON, VT 05068

BROAD BROOK ROAD SLOPE FAILURE TEMPORARY ROAD

SHEET TITLE

GENERAL NOTES AND LEGEND

DRAWN BY KLL	DATE DEC 2023
CHECKED BY PHW	D&K PROJECT # 229294
PROJ. ENG. JBA	D&K ARCHIVE #

SHEET NUMBER

G-1



**BID SET
 NOT FOR CONSTRUCTION**

NO.	DATE	DESCRIPTION	BY	CHK'D

2640-2455 BROAD BROOK ROAD, ROYALTON, VT 05068

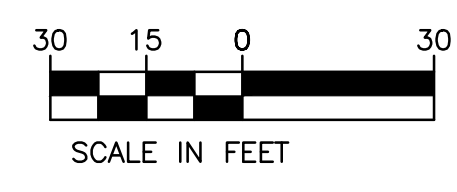
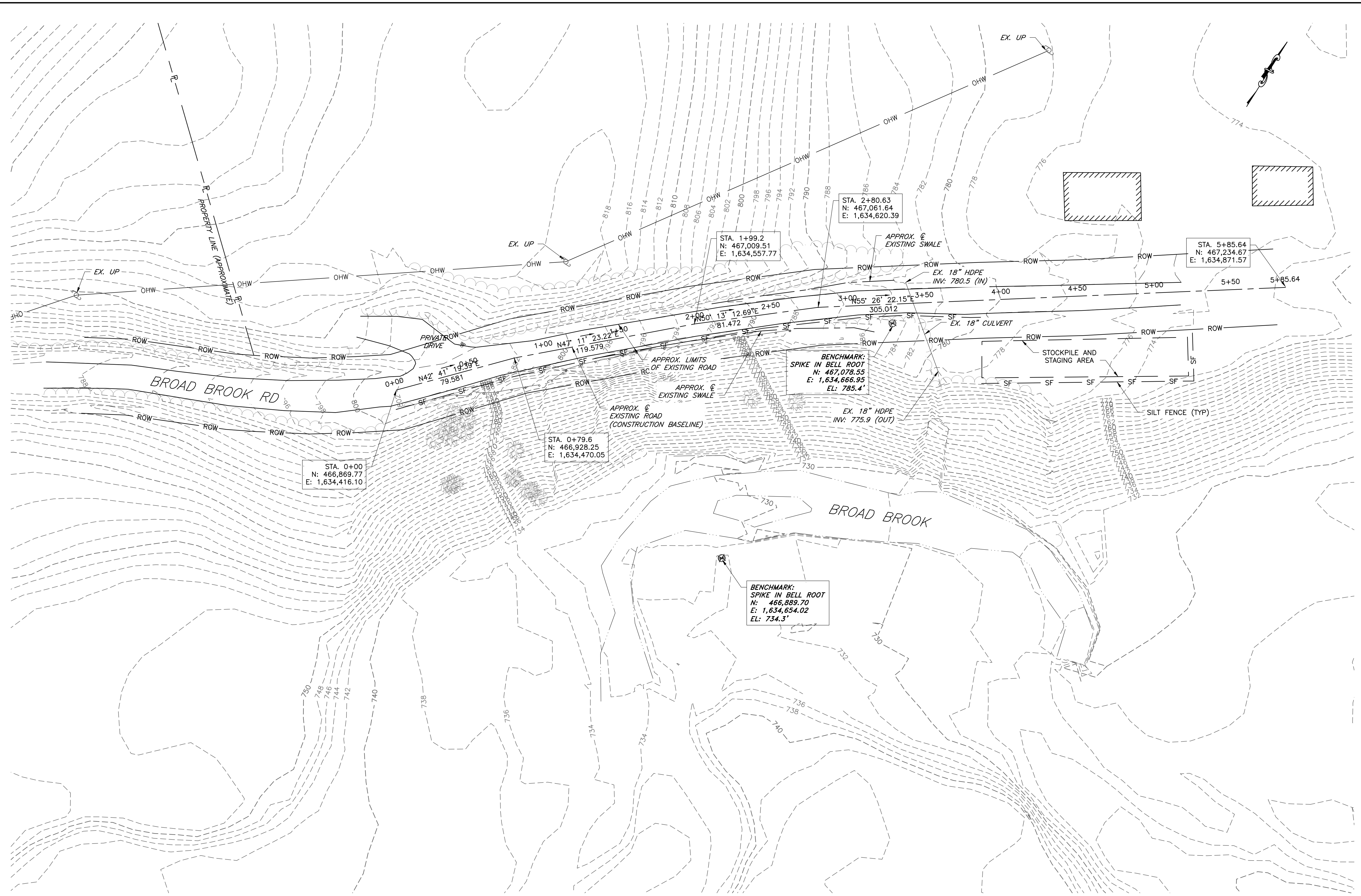
BROAD BROOK ROAD SLOPE FAILURE TEMPORARY ROAD

SHEET TITLE
EXISTING CONDITIONS PLAN

DRAWN BY KLL	DATE DEC 2023
CHECKED BY JFW	D&K PROJECT # 229294
PROJ. ENG. JBA	D&K ARCHIVE #

SHEET NUMBER

EX-1



EXISTING CONDITIONS PLAN
 SCALE: 1" = 30'
 NOT FOR CONSTRUCTION



**BID SET
 NOT FOR CONSTRUCTION**

NO.	DATE	DESCRIPTION	BY	CHK'D
1	12-14-23	ADDENDUM 1: RAISE TEMP ROAD PROFILE 6" REMOVE TRAFFIC LIGHTS; REVISE WALL HEIGHT	KLL	JBA

2640-2455 BROAD
 BROOK ROAD,
 ROYALTON, VT 05068

BROAD BROOK ROAD
 SLOPE FAILURE
 TEMPORARY ROAD

SHEET TITLE

TEMPORARY
 ROADWAY PLAN
 AND PROFILE

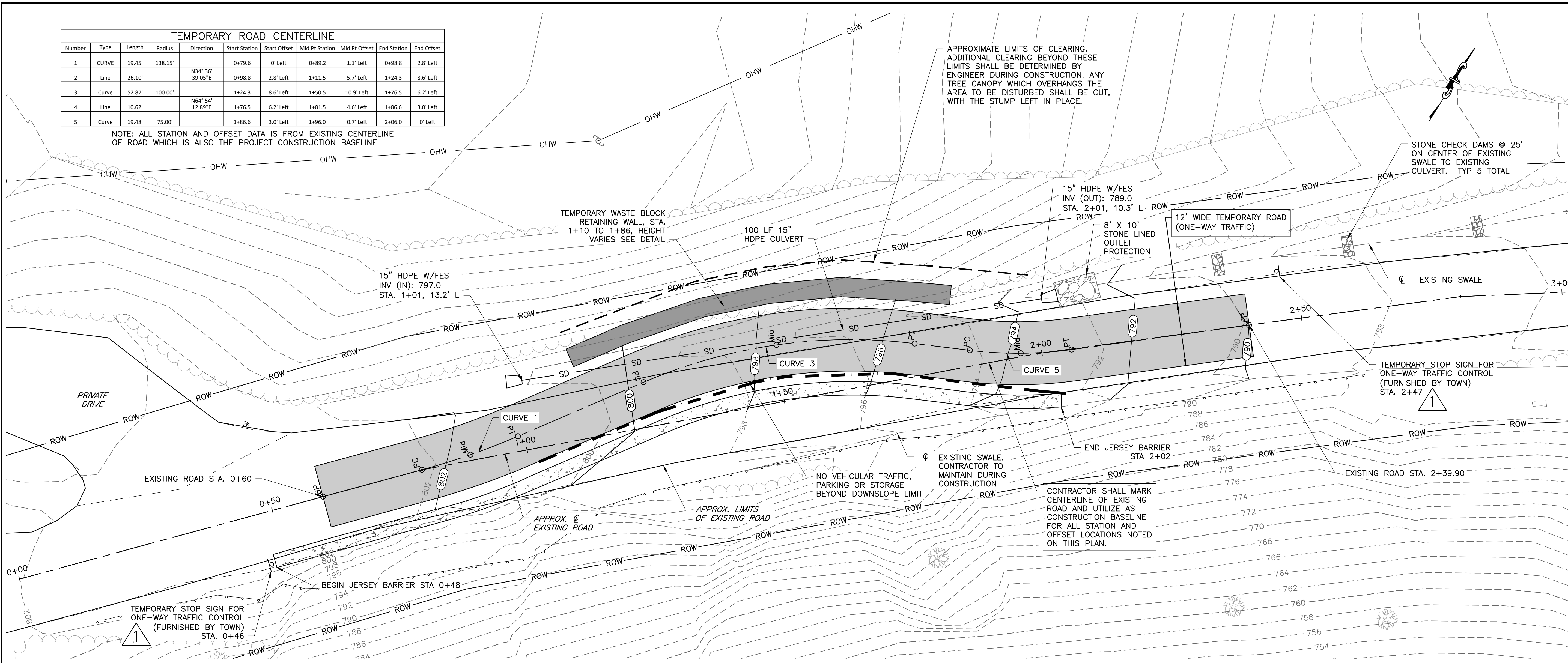
DRAWN BY	DATE
KLL	DEC 2023
CHECKED BY	D&K PROJECT #
PWH	229294
PROJ. ENG.	D&K ARCHIVE #
JBA	

SHEET NUMBER

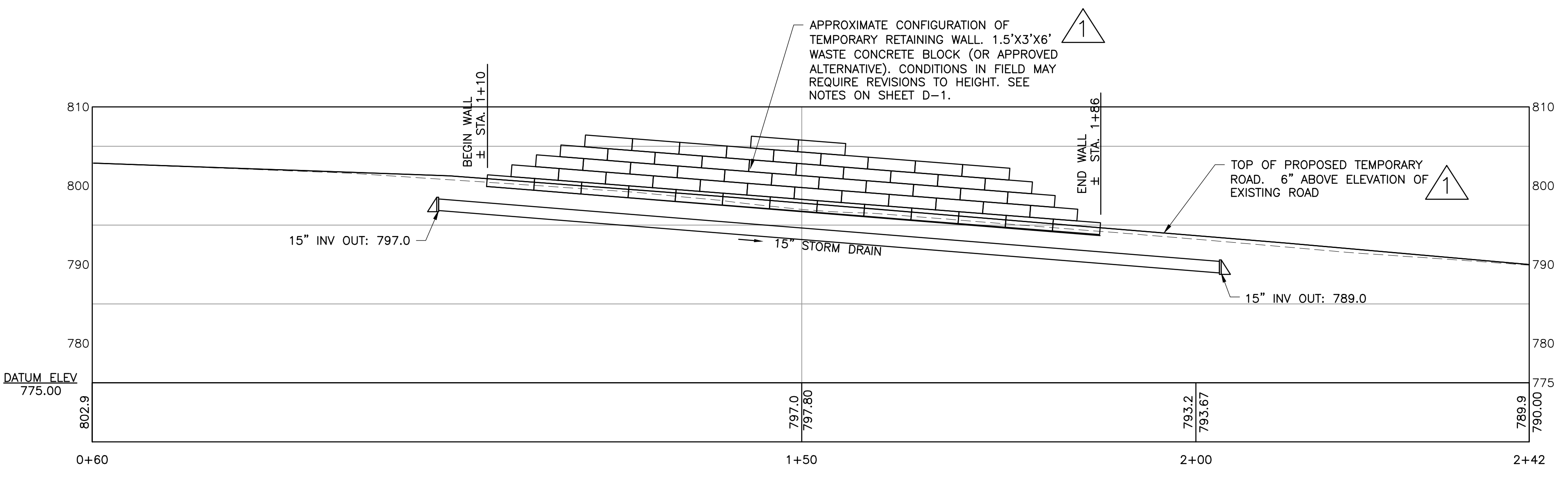
C-1

Number	Type	Length	Radius	Direction	Start Station	Start Offset	Mid Pt Station	Mid Pt Offset	End Station	End Offset
1	CURVE	19.45'	138.15'		0+79.6	0' Left	0+89.2	1.1' Left	0+98.8	2.8' Left
2	Line	26.10'		N34°36' 39.05°E	0+98.8	2.8' Left	1+11.5	5.7' Left	1+24.3	8.6' Left
3	Curve	52.87'	100.00'		1+24.3	8.6' Left	1+50.5	10.9' Left	1+76.5	6.2' Left
4	Line	10.62'		N64°54' 12.89°E	1+76.5	6.2' Left	1+81.5	4.6' Left	1+86.6	3.0' Left
5	Curve	19.48'	75.00'		1+86.6	3.0' Left	1+96.0	0.7' Left	2+06.0	0' Left

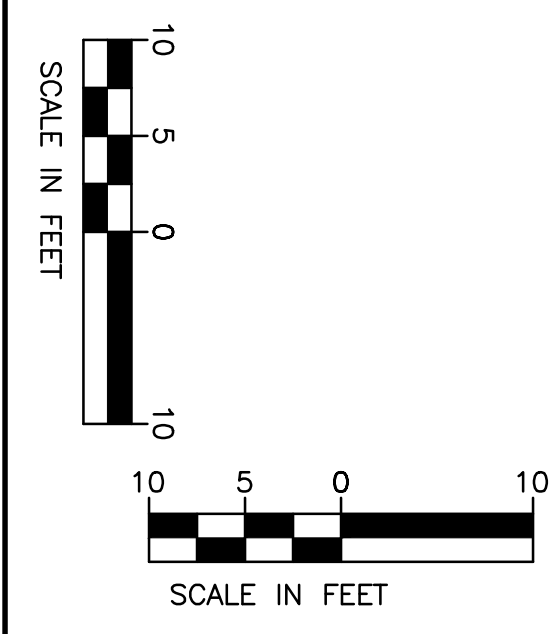
NOTE: ALL STATION AND OFFSET DATA IS FROM EXISTING CENTERLINE OF ROAD WHICH IS ALSO THE PROJECT CONSTRUCTION BASELINE



TEMPORARY ROADWAY PLAN
 SCALE: 1" = 10'



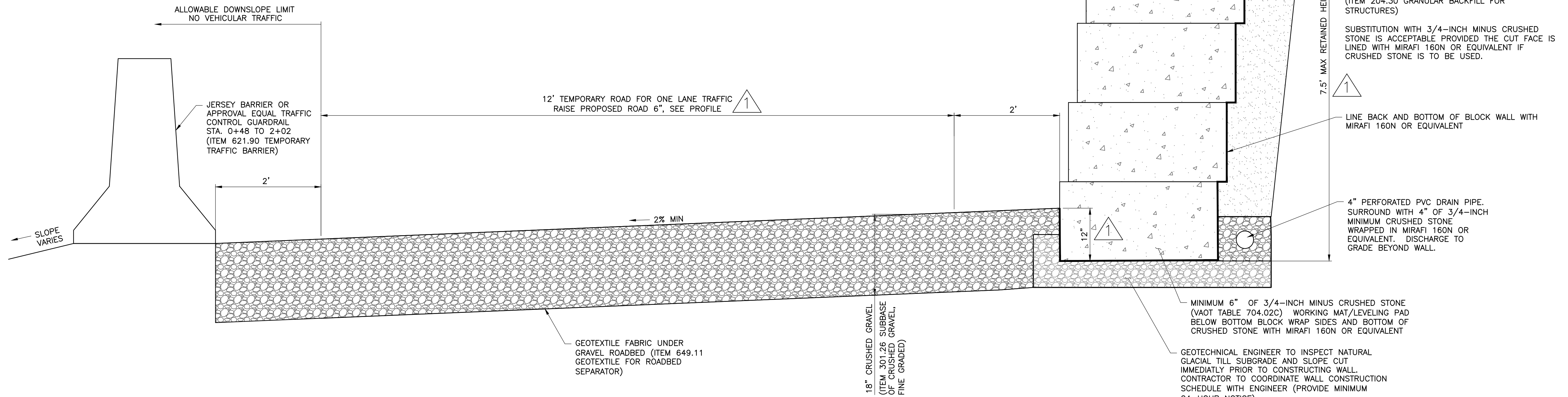
TEMPORARY ROADWAY PROFILE
 SCALE: HORIZ: 1" = 10'
 VERT: 1" = 10'



I:\2\229294_Royalton_Broad Brook Road_Slope\Drawings\Civil\Kret\Phase.dwg 12/14/2023 4:10 PM

TEMPORARY WALL NOTES

- TEMPORARY RETAINING WALL DESIGN IS BASED ON AN EXISTING CONDITIONS GRADING PLAN PROVIDED BY DUBOIS & KING ON NOVEMBER 17, 2023, AND SUBSURFACE DATA COLLECTED BY GEODESIGN BETWEEN NOVEMBER 13 AND 15, 2023. WALL DESIGN IS INTENDED FOR TEMPORARY APPLICATION ONLY. FINAL DESIGN AND CONSTRUCTION OF A PERMANENT RETAINING WALL AND DOWNSLOPE STABILIZATION MEASURES IS ANTICIPATED TO OCCUR WITHIN ONE YEAR. ON THE BASIS OF THIS INFORMATION, GEODESIGN HAS DESIGNED THE TEMPORARY WALL'S INTERNAL STABILITY AND EXTERNAL STABILITY INCLUDING FOUNDATION AND SLOPE STABILITY.
- SURVEY AND LAYOUT UPSLOPE CUT LIMITS FOR THE TEMPORARY WALL PRIOR TO BEGINNING TEMPORARY WALL CONSTRUCTION.
- CARE SHALL BE TAKEN TO REMOVE ALL ORGANIC AND/OR OTHER DELETERIOUS MATERIALS FROM THE BASE OF THE TEMPORARY WALL EXCAVATION (E.G. BELOW THE CRUSHED STONE LEVELING PAD), AS SHOWN ON THE DRAWINGS AND IN THESE NOTES.
- CONTRACTOR SHALL LIMIT THE EXTENT OF THE SUBGRADE PREPARATION AND UPSLOPE CUTS TO LENGTHS THAT ALLOW FOR THE PORTION OF WALL IN FRONT OF THE CUT CAN BE COMPLETELY CONSTRUCTED WITHIN THE SAME WORK DAY AS THE UPSLOPE CUT IS MADE, AND WITHOUT THE UPSLOPE CUT EXHIBITING SIGNS OF INSTABILITY (I.E. CRACKING, SLOUGHING OR CREEPING SOIL, WEeping WATER, ETC.). CUT LENGTHS AND MEANS AND METHODS ARE AT THE DISCRETION OF THE CONTRACTOR PROVIDED A STABLE UPSLOPE CONDITION IS MAINTAINED. UPSLOPE CUTS AND SUBGRADE PREPARATION ARE SUBJECT TO INSPECTION BY THE ENGINEER. IF SIGNS OF UPSLOPE INSTABILITY AS DESCRIBED ABOVE ARE OBSERVED DURING THE WALL CONSTRUCTION, THE ENGINEER MAY RESTRICT THE LENGTH OF ACTIVE WORK AREA. THIS INCLUDES LIMITING THE LENGTH OF OPEN CUTS THAT THE CONTRACTOR MAY MAKE PRIOR TO CONSTRUCTING THE WALL. OBSERVED SIGNS OF UPSLOPE INSTABILITY RESULTING IN THE ENGINEER REQUIRING LIMITATIONS ON THE LENGTHS OF ALLOWABLE OPEN CUTS DOWN TO SEGMENTS OF 12- FEET IN LENGTH OR GREATER WILL BE THE RESPONSIBILITY OF THE CONTRACTOR, WITH NO ADDITIONAL COST TO THE TOWN.
- THE GEOTECHNICAL ENGINEER SHALL VERIFY EXISTING SITE CONDITIONS AND CONFIRM THAT FOUNDATION SOIL SUBGRADES AND EXPOSED SOILS IN THE UPSLOPE CUT SATISFY THE DESIGN STANDARDS AND PARAMETERS SHOWN ON THE PROJECT DRAWINGS AND NOTES. CONTACT THE GEOTECHNICAL ENGINEER TO INSPECT THE SOILS PRIOR TO PLACEMENT OF THE CRUSHED STONE LEVELING PAD.
- OVEREXCAVATE TO REMOVE UNSUITABLE SOIL WHERE EXPRESSLY DIRECTED BY THE GEOTECHNICAL ENGINEER. WHEN OVEREXCAVATING TO REACH INTENDED BEARING STRATUM AT THE GEOTECHNICAL ENGINEER'S DIRECTION, THE EXCAVATION SHALL EXTEND OUTWARD AT A 1H:1V PLANE BOTH FROM THE FRONT AND REAR OF THE LEVELING PAD.
- SUBGRADE PREPARATIONS MUST BE PERFORMED IN DRY CONDITIONS. WHERE GROUNDWATER IS ENCOUNTERED WITHIN EXCAVATIONS, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN A DRY, STABLE SUBGRADE CONDITION THROUGH THE USE OF SUMPS, PUMPS, AND/OR OTHER DEWATERING EQUIPMENT AS REQUIRED.
- FOUNDATION SOILS MUST BE INSPECTED AND APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF THE LEVELING PAD. SOFTENED, LOOSENED, DISTURBED, OVER-EXCAVATED, OR OTHERWISE UNSUITABLE SOILS SHALL BE REMOVED AND REPLACED WITH 1/2- INCH CRUSHED STONE (VTRANS TABLE 704.02C) ENVELOPED IN NON-WOVEN FILTER FABRIC (MIRAFI 160N OR EQUIVALENT) AT THE DIRECTION OF THE GEOTECHNICAL ENGINEER.
- THE LEVELING PAD SHALL BE A MINIMUM OF 6 INCHES THICK, EXTEND 6 INCHES FROM THE FRONT, AND 12 INCHES FROM THE BACK OF THE TEMPORARY WALL, AND CONSIST OF 3/4 INCH CRUSHED STONE (VTRANS TABLE 704.02C).
- MINIMUM EMBEDMENT OF THE RETAINING WALL BELOW FINISHED GRADES SHALL BE AS SHOWN DRAWINGS. MAXIMUM HEIGHT ABOVE THE LEVELING PAD SHALL BE APPROXIMATELY 6 FEET, EXCLUDING THE CAP STONE BLOCKS WHERE WALL REACHES MAXIMUM HEIGHT.
- PROVIDE A PERFORATED PVC DRAIN BEHIND THE TEMPORARY WALL AS SHOWN IN THE DRAWINGS. PIPE TO DAYLIGHT INTO THE EXISTING SWALE ON THE UPHILL SIDE OF THE ROAD AT THE END OF THE TEMPORARY WALL.
- PLACE SEPARATION FABRIC (MIRAFI 160N OR EQUIVALENT) BETWEEN THE BACK OF THE CONCRETE BLOCKS AND THE WALL BACKFILL. PLACE AND COMPACT GRANULAR BACKFILL FOR STRUCTURES (VTRANS TABLE 704.08A) BEHIND THE TEMPORARY WALL AS SPECIFIED ON THE DRAWINGS AND AS THE TEMPORARY WALL IS INSTALLED. FIELD DENSITY TESTS SHALL BE PERFORMED AS THE WALL IS INSTALLED. WITH MINIMUM COMPACTION OF BACKFILL MATERIALS SHALL BE TO 95% OF MAXIMUM DENSITY AS DETERMINED BY MODIFIED PROCTOR ASTM D1557. MAXIMUM LIFT THICKNESS FOR BACKFILL BEHIND THE TEMPORARY WALL SHALL NOT EXCEED 8 INCHES. 3/4 INCH CRUSHED STONE (VTRANS TABLE 704.02C) MAY BE USED IN LIEU OF COMPACTED GRANULAR BACKFILL FOR STRUCTURES PROVIDED GEOTEXTILE FABRIC (MIRAFI 160N OR EQUIVALENT) IS PLACED BETWEEN THE CRUSHED STONE AND NATURAL SOILS.
- RECOMMENDED COMPACTION EQUIPMENT INCLUDES HAND TAMPERS OR VIBRATORY PLATE COMPACTOR WITHIN 5 FEET OF THE REAR FACES OF THE WALL BLOCKS.
- IF CONDITIONS DIFFER FROM THOSE SHOWN OR DESCRIBED IN THESE DRAWINGS AND/OR IN THE PROJECT DOCUMENTS, THE CONTRACTOR SHALL CONTACT GEODESIGN PRIOR TO PROCEEDING WITH THE WALL CONSTRUCTION.



TYPICAL SECTION
NOT TO SCALE

NOTE: GEOTECHNICAL ENGINEERING DESIGN IS PROVIDED BY

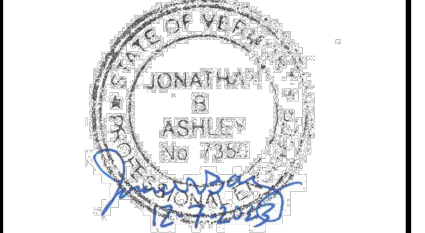
GEO DESIGN
85 GRANITE SHED LANE
UNIT 1
MONTPELIER, VT 05602
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geocompanies.com



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PROFESSIONAL SEAL



BID SET
NOT FOR CONSTRUCTION

NO.	DATE	DESCRIPTION	BY	CK'D
1	12-14-23	ADDENDUM 1: RAISE TEMP ROAD PROFILE 6", REVISE WALL HEIGHT	KLL	JBA

2640-2455 BROAD
BROOK ROAD,
ROYALTON, VT 05068

BROAD BROOK ROAD
SLOPE FAILURE
TEMPORARY ROAD

SHEET TITLE

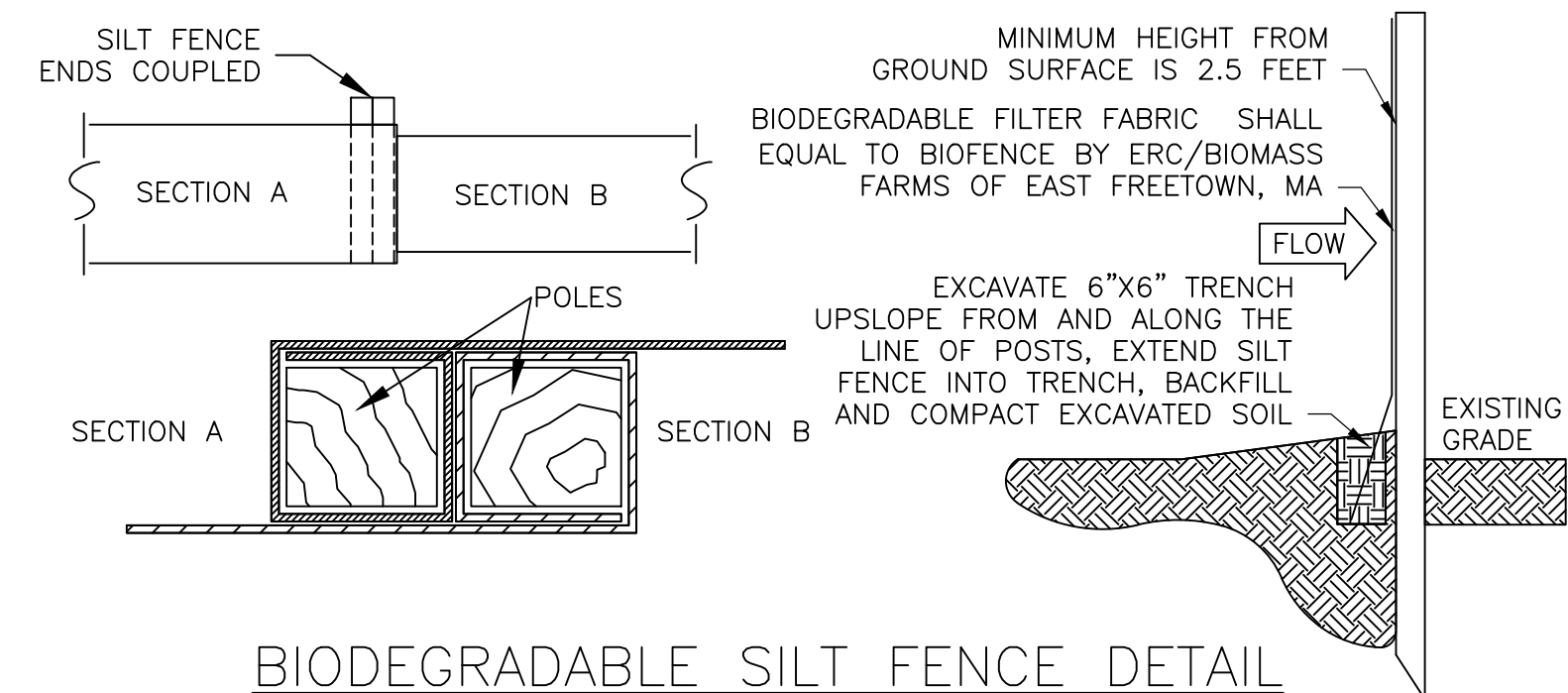
DETAILS

DRAWN BY KLL	DATE DEC 2023
CHECKED BY JFW	D&K PROJECT # 229294
PROJ. ENG. JBA	D&K ARCHIVE #

SHEET NUMBER

D-1

SHEET 5 OF 6



BIODEGRADABLE SILT FENCE DETAIL
NOT TO SCALE

NOTES:

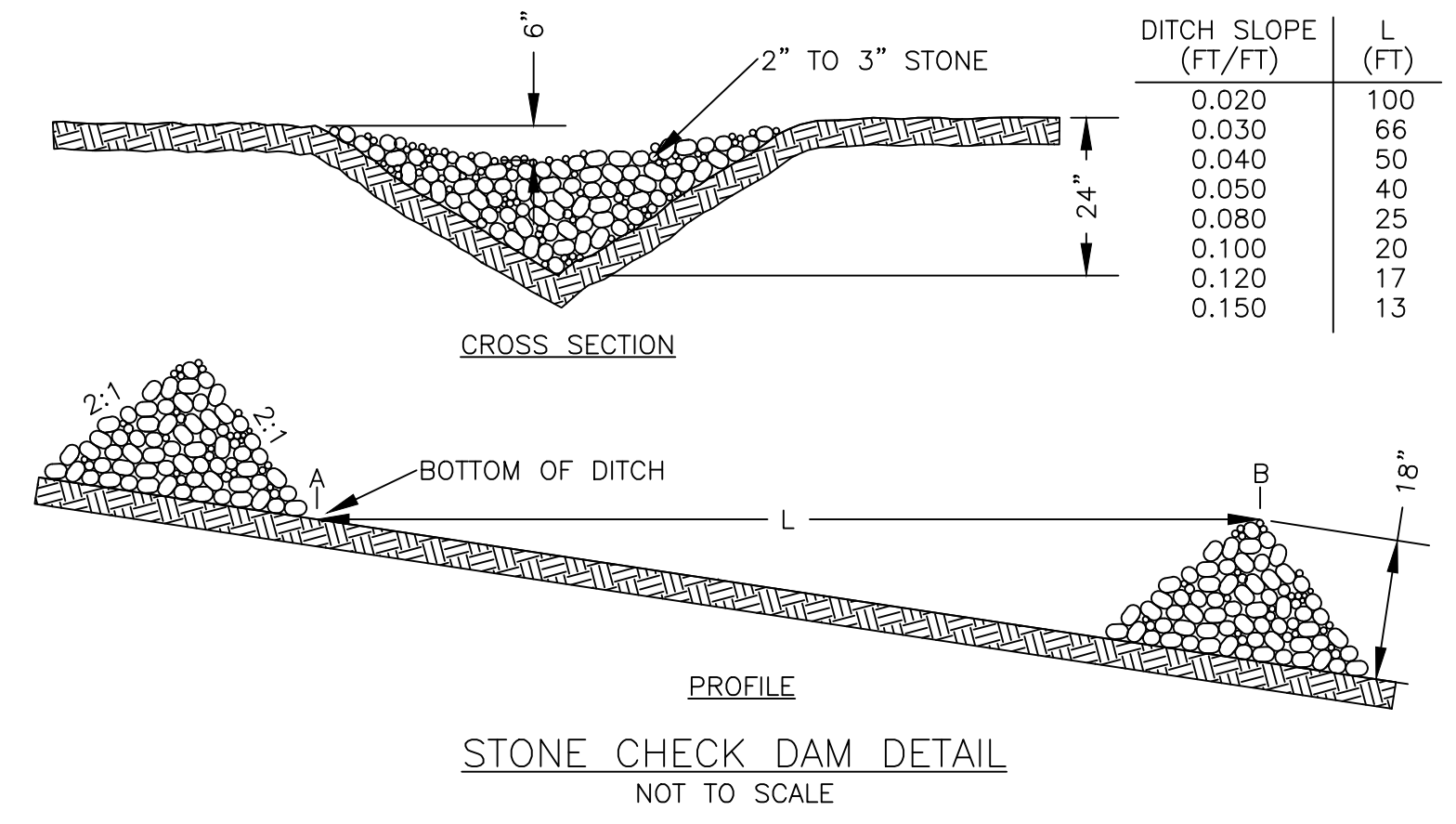
1. CONTRACTOR SHALL FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS, ALONG WITH BELOW FENCE-END JOINING INSTALLATION INSTRUCTIONS.
2. FENCE AND ALL COMPONENTS SHALL BE BIODEGRADABLE, AND SHALL BE FUNCTIONAL FOR A MINIMUM OF 1.5 TO 2 YEARS.
3. WHEN TWO SECTIONS OF SILT FENCE ADJOIN EACH OTHER AS SHOWN JOINING FENCE SECTIONS.

FENCE-END JOINING INSTALLATION INSTRUCTIONS

4. PLACE THE END POST OF ONE FENCE INSIDE THE END POST OF THE OTHER FENCE.
5. ROTATE BOTH POSTS AT LEAST 180 DEGREES IN A CLOCKWISE DIRECTION TO CREATE A TIGHT SEAL WITH THE FABRIC MATERIAL.
6. DRIVE BOTH POSTS 18 INCHES INTO THE GROUND AND BURY THE FLAP IN THE TRENCH.

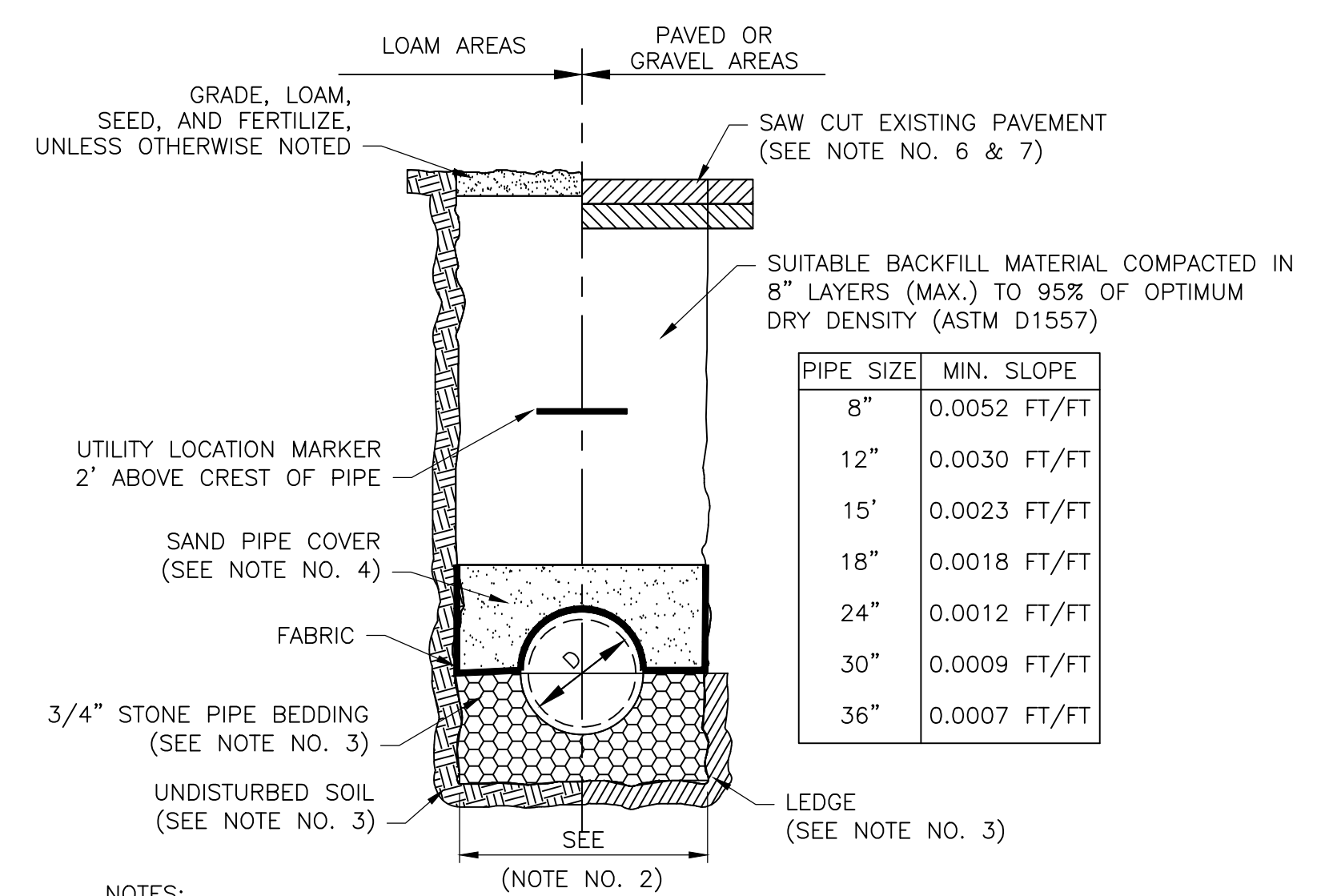
MAINTENANCE:

7. SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL EVENTS. REPAIRS THAT ARE NEEDED SHALL BE MADE IMMEDIATELY.
8. IF THE FABRIC OF THE SILT FENCE SHOULD DECOMPOSE OR BECOME INEFFECTIVE DURING THE EXPECTED LIFE OF THE FENCE, THE FABRIC SHALL BE REPLACED PROMPTLY.
9. SEDIMENT DEPOSITS SHOULD BE INSPECTED AFTER EVERY STORM EVENT. THE DEPOSITS SHOULD BE REMOVED WHEN DEPOSITS HAS REACHED APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
10. SEDIMENT DEPOSITS THAT ARE REMOVED SHALL BE GRADED TO CONFORM WITH THE EXISTING TOPOGRAPHY AND VEGETATED.



STONE CHECK DAM DETAIL
NOT TO SCALE

DITCH SLOPE (FT/FT)	L (FT)
0.020	100
0.030	66
0.040	50
0.050	40
0.080	25
0.100	20
0.120	17
0.150	13

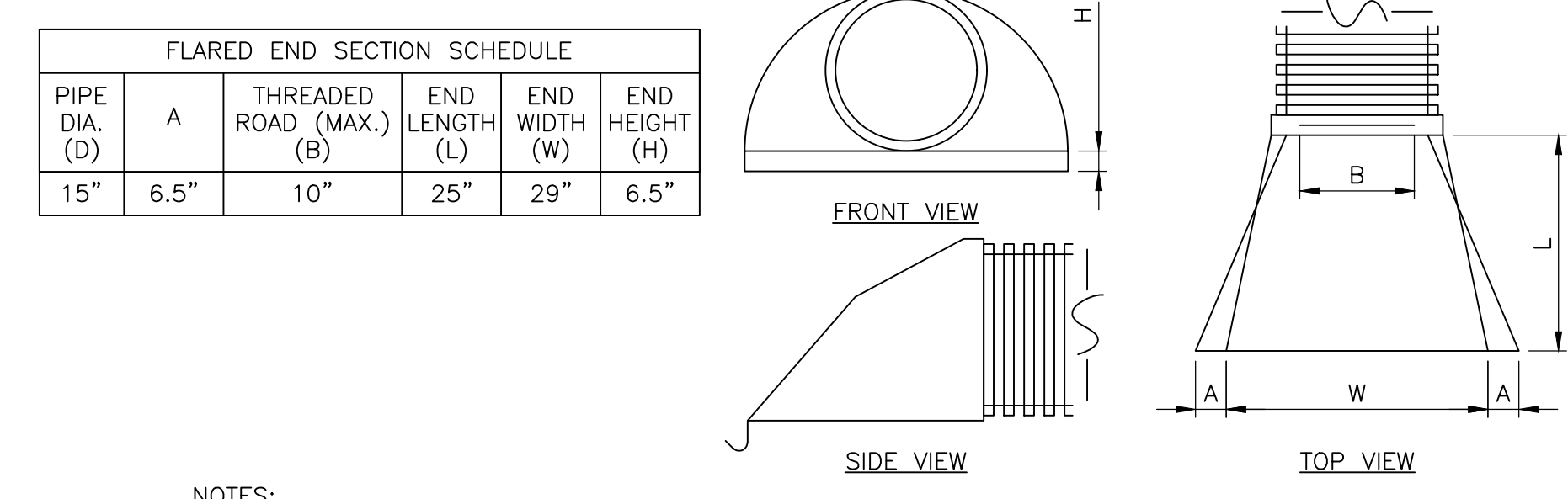


PIPE SIZE	MIN. SLOPE
8"	0.0052 FT/FT
12"	0.0030 FT/FT
15"	0.0023 FT/FT
18"	0.0018 FT/FT
24"	0.0012 FT/FT
30"	0.0009 FT/FT
36"	0.0007 FT/FT

NOTES:

1. ALL EXCAVATION MUST MEET OSHA STANDARDS.
2. STANDARD TRENCH WIDTH SHALL BE D+2' OR 3'; WHICHEVER IS GREATER.
3. BEDDING MATERIAL SHALL BE FULL WIDTH OF TRENCH. BEDDING MATERIAL SHALL BE 6" BELOW PIPE (IN EARTH) OR 12" BELOW PIPE (IN LEDGE) UP 12" OVER OF PIPE.
4. SAND COVER/CUSHION MATERIAL SHALL BE FULL WIDTH OF TRENCH. SAND MATERIAL SHALL BE FROM SPRING LINE UP TO 12" (MINIMUM) ABOVE CREST OF PIPE.
5. STORMDRAIN LAYOUT PLAN PIPE SLOPES SHALL GOVERN OVER MINIMUM PIPE SLOPE SCHEDULE.
6. PAVEMENT REPAIR SHALL HAVE EMULSIFIED TACK BETWEEN ASPHALT LAYERS AND ON ALL JOINTS AND SHALL CONFORM TO STREET OPENING REGULATIONS (WITHIN RIGHT-OF-WAY LIMITS), PAVEMENT SECTION DETAIL (OUTSIDE OF RIGHT-OF-WAY LIMITS), AND FOLLOW NOTE NO. 7.
7. DURING PAVEMENT REPAIR, THE CONTRACTOR SHALL CUT-BACK SUBBASE MATERIAL AN ADDITIONAL 12-INCHES ON EITHER SIDE OF THE TRENCH AND PAVEMENT COLD PLANE MILL AREA TO A DEPTH OF 1-3/4" AN ADDITIONAL 24-INCHES ON EITHER SIDE OF SUBBASE MATERIAL CUT-BACK.

STORM DRAIN PIPE TRENCH DETAIL
NOT TO SCALE



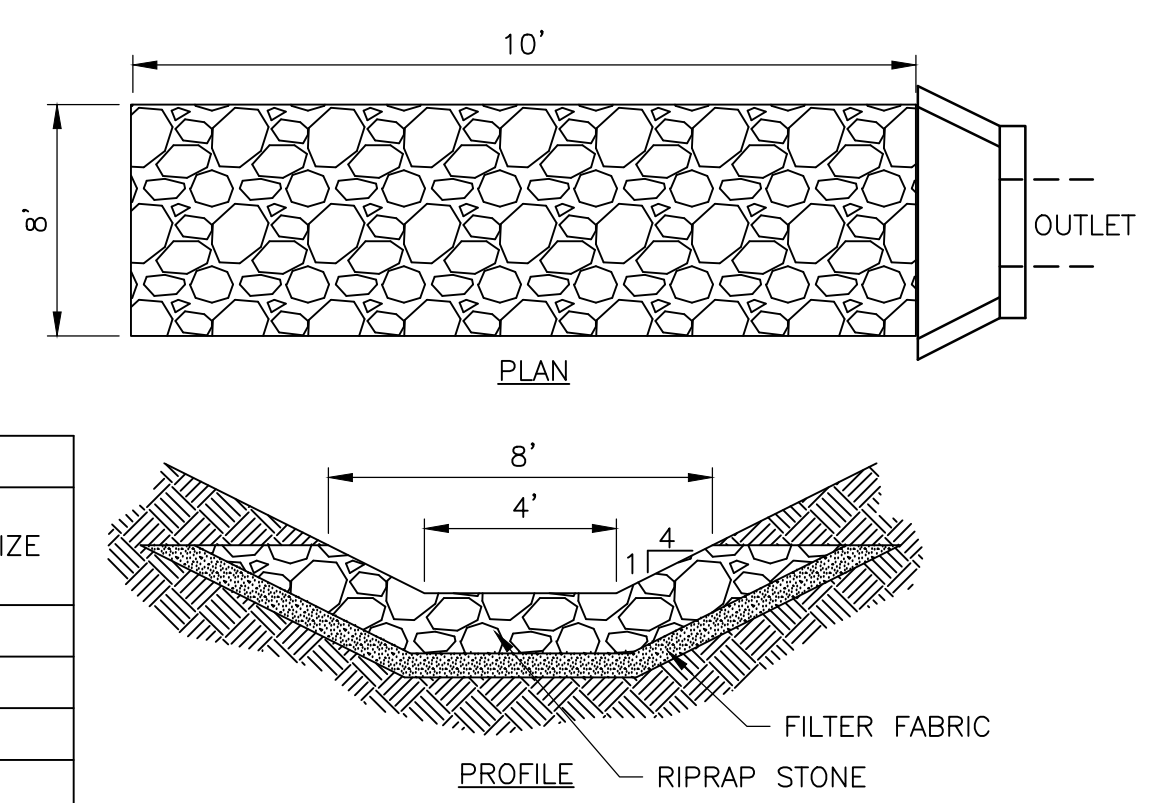
FLARED END SECTION SCHEDULE					
PIPE DIA. (D)	A	THREADED ROAD (MAX.) (B)	END LENGTH (L)	END WIDTH (W)	END HEIGHT (H)
15"	6.5"	10"	25"	29"	6.5"

NOTES:

1. THREADED ROD WITH WING NUTS PROVIDED FOR END SECTIONS 12' THROUGH 24". END SECTIONS 30" AND 36" SHALL BE WELDED TO PIPE PER MANUFACTURER'S RECOMMENDATION

FLARED END SECTION DETAIL
NOT TO SCALE

STONE GRADATION	
PERCENTAGE BY WEIGHT PASSING	SIEVE SIZE
100	9"
85	8"
50	6"
15	2"



STONE LINED OUTLET PROTECTION
NOT TO SCALE



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SO. BURLINGTON, VT
SPRINGFIELD, VT
LACONIA, NH

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BID SET
NOT FOR CONSTRUCTION

NO.	DATE	DESCRIPTION	BY	CK'D.

2640-2455 BROAD
BROOK ROAD,
ROYALTON, VT 05068

BROAD BROOK ROAD
SLOPE FAILURE
TEMPORARY ROAD

SHEET TITLE

DETAILS

DRAWN BY ZDB	DATE DEC 2023
CHECKED BY KLL	D&K PROJECT # 229294
PROJ. ENG. JBA	D&K ARCHIVE #

SHEET NUMBER

D-2

I:\2\229294\Royalton Broad Brook Road Slope Failure\Drawings\Civil\DWG\12/14/2023 11:21 AM

BID FORM
Broad Brook Road Slope Failure Temporary Road

Proposal of _____
(hereinafter called Bidder), organized and existing under the laws of the State of _____ doing business as

_____ doing business as
(a corporation, a partnership, of an individual)

To the Town of Royalton, Vermont (hereinafter called Owner)

The Bidder represents that this bid is genuine and not made in the interest of or on behalf of any undisclosed person, firm or corporation and is not submitted in conformity with any agreement or rules of any group, association, organization or corporation. The bidder has not directly or indirectly induced or solicited any other bidder to submit a false bid. Bidder has not solicited or induced any person, firm or corporation to refrain from bidding and the bidder has not sought by collusion to obtain for himself any advantage over any other bidder or Owner.

The undersigned bidder proposed and agrees, if this bid is accepted, to enter into an agreement with Owner to furnish all materials and to complete all work as specified or indicated in the Contract Documents for the contract price and within the contract time indicated in this bid and in accordance with the Contract Documents.

Bidder hereby agrees to commence Work under this contract on the date of issuance of the Notice to Proceed and that the Final Completion date for this contract is January 12, 2024.

Bidder acknowledges receipt of the following Addenda:

Bidder agrees to perform all the Work described in the Contract Documents for the following schedule of prices. Unqualified bids will not be accepted.

VTrans ITEM #	ITEM	UNIT	QUANTITY	UNIT PRICE	TOTAL PRICE
635.11	Mobilization/Demobilization	LS	1	\$ _____	\$ _____
	Unit Price in Words _____				
900.645	Construction of Temporary Road	LS	1	\$ _____	\$ _____
	Unit Price in Words _____				
900.645	Concrete Waste Block Retaining Wall	LS	1	\$ _____	\$ _____
	Unit Price in Words _____				
900.645	Erosion Prevention and Sediment Control	LS	1	\$ _____	\$ _____
	Unit Price in Words _____				

Total Base Bid \$ _____

Total Base Bid Written _____

The lowest responsive and responsible bidder will be determined by the **Total Base Bid**.

The above unit prices shall include all labor, materials, removal, overhead, profit, insurance, etc. to cover the finished work as specified within the Contract Documents.

By submitting this bid, a bidder certifies that it shall report in writing to the municipality any errors or inconsistency discovered in the plans, proposal, specifications, or proposal documents immediately upon discovery.

THE ABOVE PROPOSAL IS HEREBY RESPECTFULLY SUBMITTED BY:

Contractor

By

Title

Business Address

City

State

Date

ATTEST _____

LS = lump sum

EA = each

SY = square yard

SF = square feet

CWT = hundredweight

GAL = gallon

HR = hour

LU = lump unit

CY = cubic yard

LF = linear foot

TON = ton

MGAL = thousand gallons

LB = pound

BYRD ANTI-LOBBYING AMENDMENT

Contractors who apply or bid for an award of \$100,000 or more shall file the required certification. Each tier certifies to the tier above that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, officer or employee of Congress, or an employee of a Member of Congress in connection with obtaining any Federal contract, grant, or any other award covered by 31 U.S.C. § 1352. Each tier shall also disclose any lobbying with non-Federal funds that takes place in connection with obtaining any Federal award. Such disclosures are forwarded from tier to tier up to the recipient who in turn will forward the certification(s) to the awarding agency.

APPENDIX A, 44 C.F.R. PART 18 – CERTIFICATION REGARDING LOBBYING – REQUIRED FOR CONTRACTS OVER \$100,000

Certification for Contracts, Grants, Loans, and Cooperative Agreements

The undersigned certifies, to the best of his or her knowledge and belief, that:

1. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
2. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.
3. The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

The Contractor, _____, certifies or affirms the truthfulness and accuracy of each statement of its certification and disclosure, if any. In addition, the Contractor understands and agrees that the provisions of 31 U.S.C. Chap. 38, Administrative Remedies for False Claims and Statements, apply to this certification and disclosure, if any.

Signature of Contractor's Authorized Official

Name and Title of Contractor's Authorized Official

Date