DocuSign Envelope ID: 1131E640-87C8-4675-A082-1656DCCAF45F

*District* 4 *Certcode* 1403-0

#### CERTIFICATE OF HIGHWAY MILEAGE YEAR ENDING FEBRUARY 10, 2024

Fill out form, make and file a copy with the Town Clerk, and submit the Mileage Certificate on or before February 20, 2024 to: Vermont Agency of Transportation, Division of Policy, Planning and Intermodal Development, Mapping Section via email to: aot.mileagecertificates@vermont.gov or if necessary via mail to: VTrans PPAID - Mapping Section, 219 North Main Street, Barre VT 05641.

We, the members of the legislative body of BARNARD

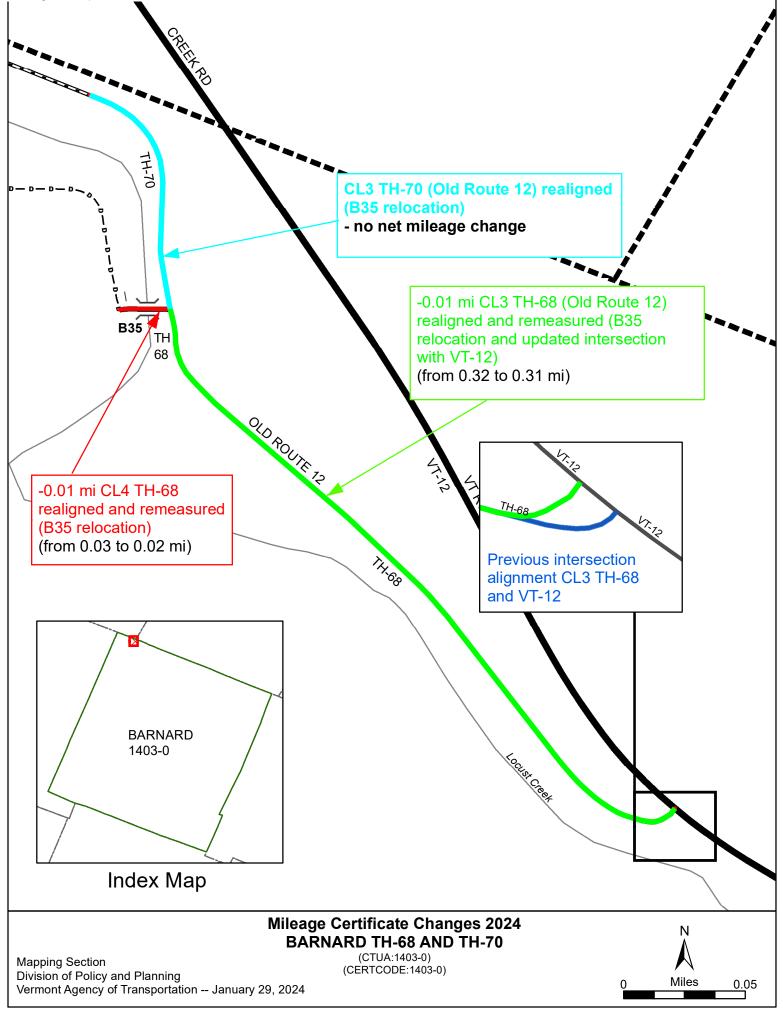
in WINDSOR County

on an oath state that the mileage of highways, according to Vermont Statutes Annotated, Title 19, Section 305, added 1985, is as follows:

Highways	Previous Mileage	Added Mileage	Subtracted Mileage	Total	Scenic Highways
Class 1	0.000			0.00	0.000
Class 2	15.640			15.640	0.000
Class 3	41.10		.01	41.09	0.000
State Highway	9.615			9.615	0.000
Total	66.355		6.3340)	66.345	0.000
* Class 1 Lane	0.000			0.00	
* Class 4	44.47		.01	44.46	0.000
* Legal Trail	2.45			2.45	
* Mileage for Class 1 1	Lane. Class 4. and Lea	al Trail classificati	ons are NOT included	d in total.	
		o copy of procee	dings (minutes of 1	neenng).	
<i>3. RECLASSIFIED/REM</i> -0.01 mi CL3 TH-68 (Old Ro -0.01 mi CL4 TH-68 realigne	<i>IEASURED: Pleaso</i> ute 12) realigned and r d and remeasured (B3	<i>e attach SIGNE</i> remeasured (B35 35 relocation)	D copy of proceedin relocation and updat	ngs (minutes of	
<i>3. RECLASSIFIED/REM</i> -0.01 mi CL3 TH-68 (Old Ro -0.01 mi CL4 TH-68 realigne CL3 TH-70 (Old Route 12) re	<b>MEASURED: Please</b> ute 12) realigned and r d and remeasured (B3 ealigned (B35 relocation)	<i>e attach SIGNED</i> remeasured (B35 35 relocation) on) - no net mileag	D copy of proceedin relocation and updat ge change	ngs (minutes of ted intersection v	vith VT-12)
<i>3. RECLASSIFIED/REN</i> -0.01 mi CL3 TH-68 (Old Ro -0.01 mi CL4 TH-68 realigne CL3 TH-70 (Old Route 12) re <i>4. SCENIC HIGHWAYS</i>	<b>MEASURED: Please</b> ute 12) realigned and r id and remeasured (B3 ealigned (B35 relocation) <b>Characteristics of the second second</b>	e attach SIGNED remeasured (B35 35 relocation) on) - no net mileag opy of order desig	D copy of proceedin relocation and updat ge change gnating/discontinut	ngs (minutes of ted intersection v ing Scenic High	vith VT-12)
3. RECLASSIFIED/REM -0.01 mi CL3 TH-68 (Old Ro -0.01 mi CL4 TH-68 realigne CL3 TH-70 (Old Route 12) re 4. SCENIC HIGHWAYS THERE ARE NO CHAN	<b>MEASURED: Please</b> ute 12) realigned and i d and remeasured (B3 saligned (B35 relocation <b>c: Please attach a co</b> <b>CES IN MILEAGE</b>	e attach SIGNED remeasured (B35 35 relocation) on) - no net mileag opy of order desig : Place an X in	D copy of proceedin relocation and updat ge change gnating/discontinut	ngs (minutes of ted intersection v ing Scenic High	vith VT-12)
3. RECLASSIFIED/REM -0.01 mi CL3 TH-68 (Old Ro -0.01 mi CL4 TH-68 realigne CL3 TH-70 (Old Route 12) re 4. SCENIC HIGHWAYS THERE ARE NO CHAN	MEASURED: Please ute 12) realigned and r d and remeasured (B3 saligned (B35 relocation) : Please attach a co GES IN MILEAGE S - PLEASE SIGN	e attach SIGNED remeasured (B35 35 relocation) on) - no net mileag opy of order desig : Place an X in	D copy of proceedin relocation and updat ge change gnating/discontinut	ngs (minutes of ted intersection v ing Scenic High	vith VT-12)
3. RECLASSIFIED/REM -0.01 mi CL3 TH-68 (Old Ro -0.01 mi CL4 TH-68 realigne CL3 TH-70 (Old Route 12) re 4. SCENIC HIGHWAYS THERE ARE NO CHAN	MEASURED: Please ute 12) realigned and r d and remeasured (B3 saligned (B35 relocation) : Please attach a co GES IN MILEAGE S - PLEASE SIGN	e attach SIGNED remeasured (B35 35 relocation) on) - no net mileag opy of order desig : Place an X in	D copy of proceedin relocation and updat ge change gnating/discontinut	ngs (minutes of ted intersection v ing Scenic High	vith VT-12)
3. RECLASSIFIED/REM -0.01 mi CL3 TH-68 (Old Ro -0.01 mi CL4 TH-68 realigne CL3 TH-70 (Old Route 12) re 4. SCENIC HIGHWAYS THERE ARE NO CHAN ART III - SIGNATURE gnatures of Selectmen/All Michard Muchic	MEASURED: Please ute 12) realigned and r d and remeasured (B3 saligned (B35 relocation) : Please attach a co GES IN MILEAGE S - PLEASE SIGN	e attach SIGNED remeasured (B35 35 relocation) on) - no net mileag opy of order desig : Place an X in	D copy of proceedin relocation and updat ge change gnating/discontinut	ngs (minutes of ted intersection v ing Scenic High below.	vith VT-12)
3. RECLASSIFIED/REM -0.01 mi CL3 TH-68 (Old Ro -0.01 mi CL4 TH-68 realigne CL3 TH-70 (Old Route 12) re 4. SCENIC HIGHWAYS THERE ARE NO CHAN ART III - SIGNATURE gnatures of Selectmen/All Michael Market gnature of T/C/V Clerk:	MEASURED: Please ute 12) realigned and 1 d and remeasured (B3 saligned (B35 relocation : Please attach a co GES IN MILEAGE. S - PLEASE SIGN dermen/Trustees:	e attach SIGNED remeasured (B35 35 relocation) on) - no net milead opy of order design : Place an X in N.	D copy of proceeding relocation and update ge change gnating/discontinution the box and sign 1 for the box and sig	ngs (minutes of ted intersection v ing Scenic High below.	vith VT-12)
<i>3. RECLASSIFIED/REM</i> -0.01 mi CL3 TH-68 (Old Ro -0.01 mi CL4 TH-68 realigne	MEASURED: Please ute 12) realigned and i d and remeasured (B3 ealigned (B35 relocation release attach a co GES IN MILEAGE S - PLEASE SIGN dermen/Trustees:	e attach SIGNED remeasured (B35 35 relocation) on) - no net mileas opy of order design provide the signature ortation signature	D copy of proceeding relocation and update ge change gnating/discontinution the box and sign 1 for the box and sig	ngs (minutes of ted intersection v ing Scenic High below.	vith VT-12)

7D

DocuSign Envelope ID: 1131E640-87C8-4675-A082-1656DCCAF45F



From:	<u>Rob Ramrath</u>
To:	DeAndrea, Pam
Subject:	RE: New bridge in Barnard
Date:	Monday, November 6, 2023 7:41:32 AM
Attachments:	image002.png image003.png LOCUS CREEK BRIDGE #35 PLANS DEWOLFE ENG 01-06-2015.pdf Selex Min 170927.docx Selex Min 171025.docx Selex Min 190605.pdf Selex Min 190619.docx Selex Min 190619.pdf

# **EXTERNAL SENDER:** Do not open attachments or click on links unless you recognize and trust the sender.

#### Hi Pam,

I've learned the background of this bridge was to facilitate turning radius for vehicles. I've attached the plans as wells as several Selectboard meeting minutes with some background. Please let me know if you have any other questions. Thank you.

#### **Rob Ramrath**

Town Administrator Zoning Administrator Town of Barnard P.O. Box 274 Barnard, VT 05031 802-234-9211 x2 (office) 603-762-5280 (cell) Notice: Electronic communications are considered public records and are Subject to public inspection and disclosure unless a record is exempt under one of the general exemptions found at 1 V.S.A.317c.

From: DeAndrea, Pam <Pam.DeAndrea@vermont.gov>
Sent: Friday, November 3, 2023 1:52 PM
To: Rob Ramrath <selectboard@barnardvt.us>
Cc: Rainey, Diane <barnardto@gmail.com>
Subject: New bridge in Barnard

Good afternoon Rob,

I wanted to reach out to you with what looks like to be a new bridge along a Class 4 road (TH-68) which has altered the alignment of the road (see yellow highlight in image below). We still have the bridge as Town Road and can update this on the next Town Highway map. Do you perhaps have the plans for the bridge? That would be helpful for us to accurately map the new location of the Town Road.



Thank you,

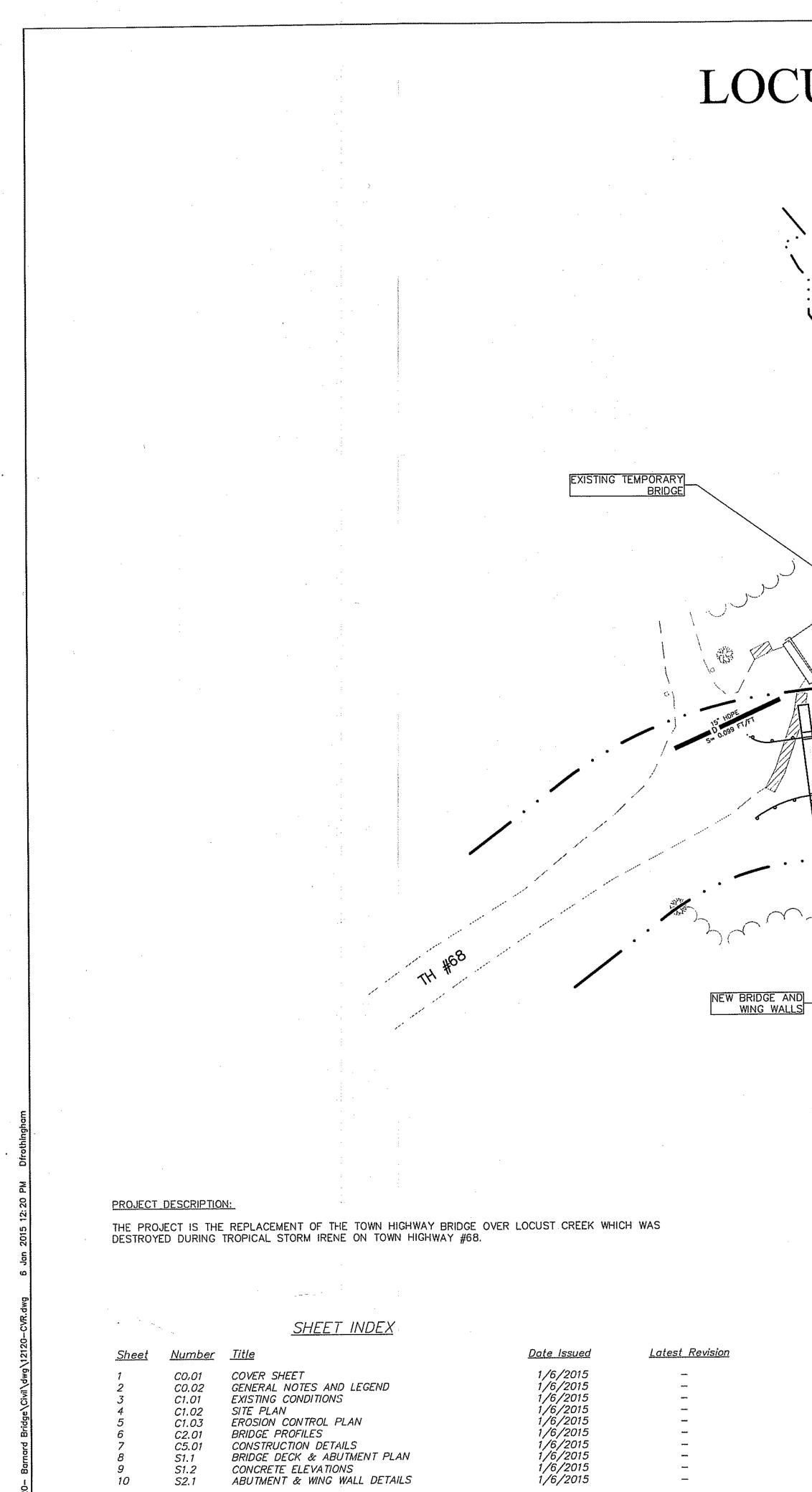
Pam

Pamela DeAndrea (she/her) | AOT GIS Professional III Policy, Planning & Research Bureau – Mapping Section Policy, Planning & Intermodal Development Division Vermont Agency of Transportation 219 N. Main Street | Barre, VT 05641 802-793-7555 phone | pam.deandrea@vermont.gov http://vtrans.vermont.gov



Help raise money for Vermonters impacted by flood damage and show your Vermont pride with *Vermont Strong* and *Tough Too* license plates and socks. <u>Click here to purchase your Vermont Strong gear</u> or visit <u>DMV.Vermont.gov/VermontStrong23</u>.

Impacted Vermonters can find resources and referrals by visiting <u>Vermont.Gov/Flood</u>.



C2.01 C5.01

51.1 51.2 52.1

10

BRIDGE PROFILES

CONCRETE ELEVATIONS

CONSTRUCTION DETAILS BRIDGE DECK & ABUTMENT PLAN

ABUTMENT & WING WALL DETAILS

----

\_

DocuSign Envelope ID: 1131E640-87C8-4675-A082-1656DCCAF45F

# LOCUST CREEK BRIDGE, BR #35

静

50.

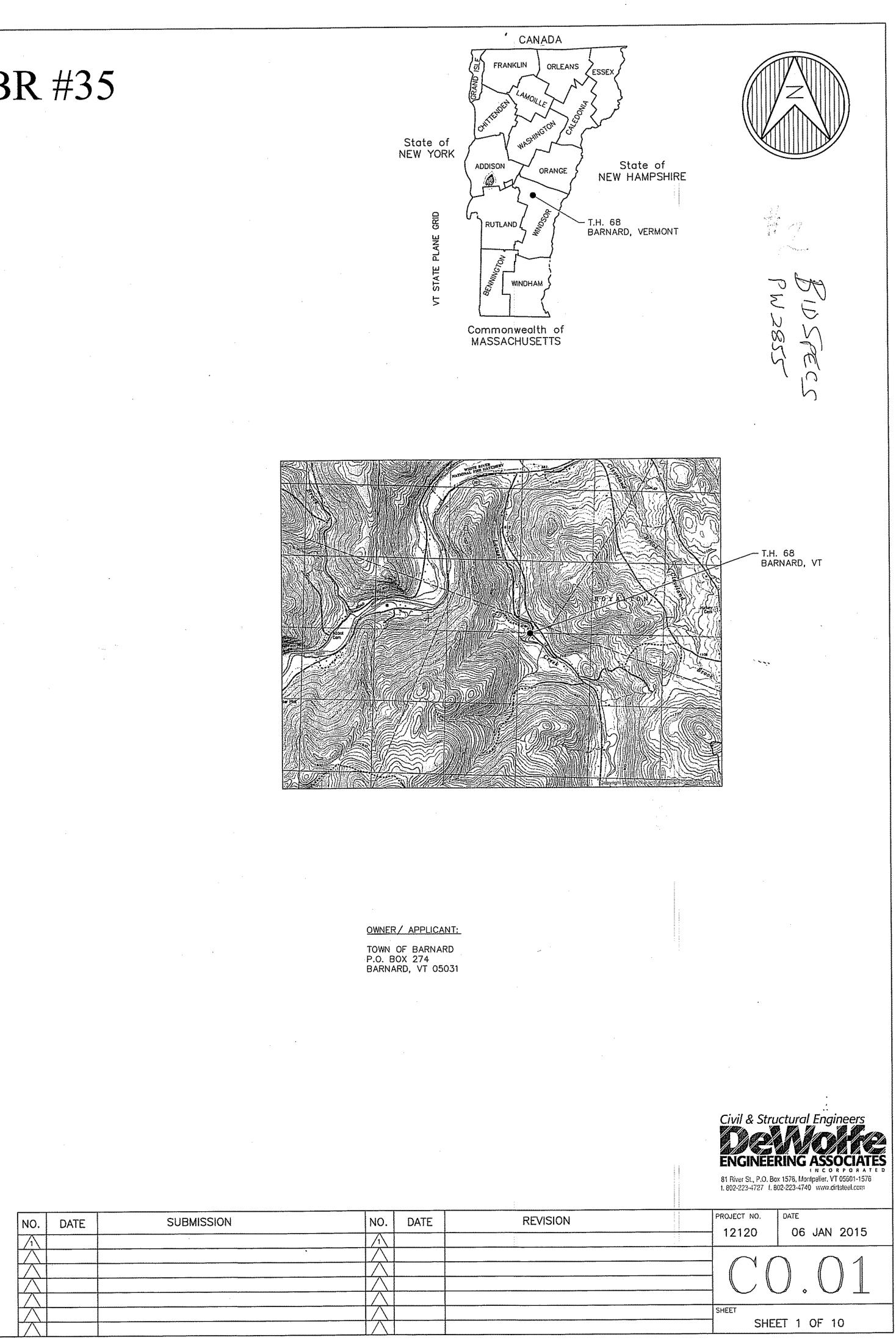
ъ.

<u></u> ••• •

な

*2*5

PX



1	F	$\mathcal{C}$	L	٨1	Л	
	L	$\mathcal{O}l$	_/	Y	$\underline{\nu}$	

DocuSign Envelope ID: 1131E640-87C8-4675-A082-1656DCCAF45F

	<u>LEGEND</u>			<u>GENERAI</u>
EXISTING		PROPOSED	<i>1 <u>GENER/</u></i> 1.1	AL: ALL WORK SHALL BE PERFORM
	PROPERTY LINE			ACCORDANCE WITH STATE CODE AND LOCAL CODES AND ORDINA
	ABUTTER'S PROPERTY LINE - EASEMENT LINE -			ALL EXISTING UNDERGROUND U
· · · · · ·	RIGHT OF WAY LINE		1.2	CONTRACTOR SHALL CONTACT I 48 HOURS AND LESS THAN 30
	ZONING SETBACK LINE -			AND SHALL VERIFY ALL UTILITY
······································	ZONING BOUNDARY TOWN LINE		1.3	THE LIMITS OF SITE WATER AND 2'-0" INSIDE THE BUILDING. T
	SOIL TYPE BOUNDARY			PROVIDE PIPING. GENERAL COI NECESSARY.
	MAJOR CONTOUR -		1.4	GAS AND ELECTRIC LINES SHAL THE SITE CONTRACTOR. PIPING
501	MINOR CONTOUR - BUILDINGS *	501		BY THE APPROPRIATE SUBCON
······································	BUILDING OVERHANG -		1.5	USE THESE CIVIL DRAWINGS IN STRUCTURAL, ELECTRICAL, LAN SHOULD A CONFLICT DEVELOP.
	ROADWAY CENTERLINE			PROCEEDING.
	EDGE OF PAVEMENT • CURB	······································	1.6	ALL DIMENSIONS AND ELEVATIO
	EDGE OF GRAVEL			CHECKS, AND SUBCONTRACTOR
	TRAIL		1.7	CONTRACTOR SHALL PROTECT UTILITY LINES FROM ALL DAMA
	STONE WALL TREE LINE		1.8	CONTRACTOR IS RESPONSIBLE AND/OR SHORING OF EXCAVAT
	EDGE OF WETLANDS	.,	1.9	THE CONTRACTOR SHALL REVIE SUBMITTALS BEFORE SUBMISSION
	WETLAND/ SHORELINE BUFFER			ANY INFORMATION REQUIRED C DIMENSIONS, ELEVATIONS, ETC.
,	EDGE OF WATER     FLOOD PLAIN BOUNDARY			SUBMITTALS WILL BE REJECTED BY THE CONTRACTOR.
	DITCH LINE		1.10	BACKFILL INSIDE OF FOUNDATI AND UNDER PAVED SURFACES
	CONCRETE PAD	Anno Anno Anno Anno Anno Anno Anno Anno		SELECT ON-SITE MATERIAL TH DETERMINED BY THE TESTING
X X	- BARBED WRE FENCE	X X		THE MAXIMUM DENSITY AT OP
00	- CHAIN LINK FENCE - WOOD RAIL	Q	1.11	GENERAL BACKFILL SHALL BE MAXIMUM DENSITY AT OPTIMU
aq	GUARDRAIL	a a <u> </u>		
	- STORM DRAIN LINE	DD	2 <u>CONC</u>	
	- SEWER LINE - FORCE MAIN LINE	FM	2.1	ALL CONCRETE AND REINFORC ACCORDANCE WITH THE "BUILD REINFORCED CONCRETE (ACI 3
	- WATER LINE	·		AIR-ENTRAINED WITH AIR CON CONCRETE SHALL HAVE A MIN
G	- GAS LINE			ACI 318 FOR REVIEW OF ENC
	– STEAM LINE – FIRE WATER LINE	ST ST ST		TEST CYLINDERS OF CONCRET CONCRETE OR FOR EACH DAY
			2.2	CONCRETE SHALL BE PROTECT FOLLOW THE "RECOMMENDED
OHE		OHE OHE		CONCRETING" (ACI 306, LATE
			2.3	ALL CONCRETE SHALL BE PLA EXCAVATIONS AS NECESSAR
		R/C	2.4	CONCRETE SHALL BE PROPOR SLUMP OF 4".
ΟΗU-Εε	OVERHEAD UTILITY & ELECTRIC CONSTRUCTION FENCE/		2.5	EXTERIOR CONCRETE SHALL E
	LIMIT OF DISTURBANCE	CF CF CF CF CF CF SF SF SF SF		PLAN DETAILS AND SPECIFICA CHAMFER ALL EXPOSED EDGE
<u> </u>	SILT FENCE SIGN		2.6 2.7	CURING: HORIZONTAL SURFA
<b>\$</b>	LIGHTS	★		OVER ENTIRE SURFACE FOR SUSED. VERTICAL SURFACES
- <del>D</del> MW	MONITORING WELLS			STRIPPING AND ANOTHER 3 [ LIQUID CURING COMPOUND.
·\\ B-#	BORING LOCATIONS		2.8	ALL WALLS SHALL BE ADEQU BACKFILLING AND CONSTRUCT
-\$\overline{TP} 496.88 \times	TEST PITS SPOT ELEVATIONS	496.88		AT LEAST SEVEN DAYS OLD
	CATCH BASINS	8	3 <u>PRE</u>	CAST CONCRETE:
°c.a.	CLEAN OUTS	•c.o.	3.1	PRECAST CONCRETE SHALL E WHO HAS DEMONSTRATED TH
$^{\odot}$	DRAINAGE MANHOLES			PRODUCTS AND HAS BEEN IN THREE YEARS. THE MANUFA
	ELECTRIC PADS/ HANDHOLDS GATES VALVES			CONFORM TO THE LATEST ST INSTITUTE. THE DESIGN OF REGISTERED ENGINEER EXPER
ж Х	HYDRANTS			PRESTRESSED CONCRETE DE MINIMUM COMPRESSIVE STRE
\$75 ©	SEWER MANHOLES	6		HIGHER STRENGTH AS DEEME CONNECTION MATERIAL SHAL
T	TELEPHONE/ UTILITY PADS & VA			
ئے ان	UTILITY POLES			3.1.1 THE SUPERIMPOSED STRUCTURES SHALL LOADING UNLESS O
*% ©	WATER SHUT OFFS	4 <b>50</b>		ECADING ONLESS O
-0	GUY POLES			TERIAL SPECIFICATIONS
E	GUY WRES	Э	4.1	MATERIALS NOT SPECIFIED H AGENCY OF TRANSPORTATIO
	CATCH BASIN SEDIMENT TRAF	_	4.2	CONSTRUCTION. GENERAL FILL SHALL BE A
	HAY BALES STONE CHECK DAM			FREE FROM LOAM, SILT, CLA HAVE 0-20 PERCENT PASSI
	STONE INLET PROTECTION		4.3	PERCENT PASSING THE NO. BANK RUN GRAVEL SHALL E
$\overline{\mathbf{O}}$	DECIDUOUS TREES	$\odot$		ORGANIC MATERIALS AND SH INCH SIEVE, 20-75 PERCEN
Ō	EVERGREEN TREES	Q	·	PASSING A NO. 100 SIEVE / SIEVE.
	CONCRETE BOUNDARY MONUME	_	4.4	CRUSHED BANK RUN GRAVE AND ORGANIC MATERIALS A
	RON ROD/ PIPE BOUNDARY MON MAILBOX			INCH SIEVE, 90-100 PERCE PERCENT PASSING A NO. 4
united .	STONE LINING		4.5	SIEVE AND 0-6 PERCENT P STONE FILL SHALL BE TYPE
	EROSION CONTROL MATTING		-1.0	OTHERWISE NOTED.
	SNOW STORAGE AREAS			
··		:		
				STANDARD A
			BCC -	BITUMINOUS CONCRETE CURB
			SGC -	VERTICAL GRANITE CURB SLOPED GRANITE CURB CAST-IN-PLACE CONCRETE CU
			PCC 1CC	- PRECAST CONCRETE CURB - INTEGRAL CONCRETE CURB
			RCC	- REINFORCED CONCRETE CURB - BITUMINOUS CONCRETE PAVEMI
			PCS	- GRAVEL DRIVE SURFACE - PORTLAND CEMENT CONCRETE - BITUMINOUS CONCRETE SIDEWA
				- BITUMINOUS CONCRETE SIDEWA - CATCHBASIN

### <u>GENERAL NOTES</u>

PERFORMED IN A FIRST CLASS MANNER, AND IN STATE CODE (IBC 2012 WITH LATEST SUPPLEMENTS), AND ORDINANCES.

- RGROUND UTILITY LOCATIONS ARE APPROXIMATE. THE CONTACT DIG-SAFE (1-888-DIG-SAFE) AT LEAST S THAN 30 DAYS PRIOR TO STARTING CONSTRUCTION ALL UTILITY LOCATIONS IN THE FIELD.
- WATER AND SEWER WORK SHALL TERMINATE BUILDING. THE SITE CONTRACTOR SHALL ENERAL CONTRACTOR SHALL PROVIDE SLEEVES AS
- LINES SHALL BE EXCAVATED AND BACKFILLED BY TOR. PIPING SHALL BE PROVIDED AND INSTALLED TE SUBCONTRACTOR
- RAWINGS IN CONJUNCTION WITH THE ARCHITECTURAL, TRICAL, LANDSCAPING & MECHANICAL DRAWINGS. OT DEVELOP, NOTIFY THE ENGINEER BEFORE
- ND ELEVATIONS SHOWN MUST BE VERIFIED BY THE NG CONSTRUCTION BY THE AID OF DRAWINGS, FIELD CONTRACTORS SHOP DRAWINGS.
- PROTECT EXISTING FACILITIES, STRUCTURES, AND ALL DAMAGE.
- SPONSIBLE FOR ADEQUATE BRACING OF WALLS OF EXCAVATIONS DURING CONSTRUCTION.
- SHALL REVIEW AND STAMP ALL SHOP DRAWINGS AND E SUBMISSION TO THE ENGINEER; THUS, PROVIDING REQUIRED OF THE FABRICATOR SUCH AS FIELD TIONS, ETC. OTHERWISE THE SHOP DRAWINGS OR REFECTED UNTIL SUCH INFORMATION IS FURNISHED
- F FOUNDATION WALLS, UNDER CONCRETE SURFACES, SURFACES WITH IMPORTED BANK RUN GRAVEL, OR ATERIAL THAT WILL MEET COMPACTION CRITERIA, AS HE TESTING LABORATORY, IN 8" LIFTS TO 95% OF SITY AT OPTIMUM MOISTURE CONTENT, ASTM D1557.
- SHALL BE COMPACTED TO 90% OF THE AT OPTIMUM MOISTURE CONTENT, ASTM D1557.
- ND REINFORCING WORK SHALL BE IN STRICT THE "BUILDING CODE REQUIREMENTS FOR RETE (ACI 318-02)". EXTERIOR CONCRETE SHALL BE
- ITH AIR CONTENT AS RECOMMENDED BY ACI. HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4.000 SUBMIT CONCRETE MIX DESIGN IN ACCORDANCE WITH NEW OF ENGINEER. CONTRACTOR SHALL TAKE 4 OF CONCRETE FOR EACH 50 CUBIC YARDS OF EACH DAYS POUR IF LESS THAN 50 C.Y.
- BE PROTECTED FROM FREEZING. CONTRACTOR SHALL OMMENDED PRACTICE FOR COLD WEATHER 306, LATEST EDITION).
- HALL BE PLACED IN THE DRY. PUMP WATER FROM NECESSARY.
- BE PROPORTIONED SO AS TO HAVE A MAXIMUM
- TE SHALL BE REINFORCED IN ACCORDANCE WITH THE ND SPECIFICATIONS
- POSED EDGES OF CONCRETE. NTAL SURFACES SHALL BE KEPT CONTINUOUSLY MOIST REACE FOR SEVEN DAYS WHEN WATER CURING IS SURFACES SHALL RECEIVE 2 COATS ONE AT TIME OF NOTHER 3 DAY LATER) OF AN APPROVED NON-TOXIC
- L BE ADEQUATELY BRACED TO WITHSTAND CONSTRUCTION LOAD PRESSURES. WALLS MUST BE DAYS OLD BEFORE BACKFILLING.
- TE SHALL BE THE PRODUCT OF A MANUFACTURER STRATED THE ABILITY TO PRODUCE PRECAST HAS BEEN IN BUSINESS FOR AT LEAST THE LAST HE MANUFACTURING PLANT AND METHODS SHALL LATEST STANDARDS OF THE PRECAST CONCRETE DESIGN OF THE PRECAST MEMBERS SHALL BE BY A NEER EXPERIENCED IN THE DESIGN OF PRECAST, ONCRETE DESIGN. PRECAST CONCRETE SHALL HAVE A SSIVE STRENGTH OF 5,000 PSI AT 28 DAYS OR TH AS DEEMED NECESSARY BY DESIGN. ALL STEEL TERIAL SHALL BE HOT-DIPPED GALVANIZED.
- PERIMPOSED DESIGN LOADS ON ALL BURIED URES SHALL MEET OR EXCEED AASHTO HS-20 UNLESS OTHERWISE NOTED.
- SPECIFIED HEREIN SHALL MEET OR EXCEED VERMONT INSPORTATION (VAOT) STANDARD SPECIFICATIONS FOR
- HALL BE A COMPATIBLE SAND OR GRAVEL REASONABLY M, SILT, CLAY AND ORGANIC MATERIALS AND SHALL CENT PASSING THE NO. 100 SIEVE AND 40-100 NG THE NO. 4 SIEVE.
- VEL SHALL BE FREE FROM LOAM, SILT, CLAY AND IALS AND SHALL HAVE 100 PERCENT PASSING A 3 75 PERCENT PASSING A NO. 4 SIEVE, 0-12 PERCENT 100 SIEVE AND 0-6 PERCENT PASSING A NO. 200
- RUN GRAVEL SHALL BE FREE FROM LOAM, SILT, CLAY ATERIALS AND SHALL HAVE 100 PERCENT PASSING A 2 -100 PERCENT PASSING A 12 INCH SIEVE 30-60 NG A NO. 4 SIEVE, 0-12 PERCENT PASSING A NO. 100 PERCENT PASSING A NO. 200 SIEVE. LL BE TYPE II AS SPECIFIED BY THE VAOT UNLESS
- DARD ABBREVIATIONS
- ETE CURB CURB URB ONCRETE CUR8 CURB E CURB ETE CURB RETE PAVEMENT CONCRETE SIDEWALK BCS - BITUMINOUS CONCRETE SIDEWALK CB - CATCHBASIN

DMH - DRAINAGE MANHOLE SMH - SEWER MANHOLE

- EROSION CONTROL DURING CONSTRUCTION
- BEFORE ANY CLEARING, GRUBBING, OR DEMOLITION OF THE SITE IS INITIATED, AND DURING ALL EARTHWORK PHASES, EROSION CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED AT THE INLET OF ANY STORM DRAINS, SWALES, AND DITCHES RECEIVING WATER FROM THE PROJECT. SEE TYPICAL DETAILS AND PLANS FOR TYPES AND LOCATIONS.
- 2. SILT FENCE SHALL BE PLACED DOWN GRADIENT OF ALL DISTURBED AREAS. IF THE DISTURBED AREA IS 100' OR LESS FROM THE WATERS OF THE STATE THE SILT FENCE SHALL BE WIRE MESH REINFORCED.
- 3. ALL STOCKPILED SOIL SHALL BE ENCIRCLED WITH SILT FENCE, UNLESS AN EXISTING BARRIER WILL ENTRAP ALL EROSION FROM SUCH A STOCKPILE OR THE STOCKPILE IS COMPLETELY COVERED WITH VEGETATION THAT PREVENTS EROSION.
- 4. NO MORE THAN 500 FEET OF TRENCH SHALL BE OPEN AT ONE TIME AND EXCAVATED MATERIAL TO USED FOR BACKFILL SHALL BE PLACED ON THE UPHILL SIDE OF THE TRENCH. ALL OTHER EXCAVATED MATERIAL SHALL BE DISPOSED OF OFF-SITE AT AN APPROVED LOCATION.
- 5. BEFORE AND AFTER EVERY STORM ALL STRUCTURAL EROSION CONTROL MEASURES SHALL BE INSPECTED FOR FAILURES OR CLOGGING, AND ANY FAILURE OR CLOGGING SHALL BE RECTIFIED. DURING THE WINTER CONSTRUCTION SEASON SPECIAL ATTENTION SHALL BE PAID THE CHANGES IN WEATHER THAT COULD CAUSE SIGNIFICANT SNOW MELT AND RUNOFF.
- STONE CHECK DAMS SHALL ALSO BE PLACED IN NEWLY CONSTRUCTED SWALES, DITCHES, OR OTHER WATERWAYS DURING THE CONSTRUCTION PERIOD. STONE INLET PROTECTION OR SEDIMENT CATCH BASIN INSERTS SHALL BE PLACED IN ALL NEW AND EXISTING CATCHBASIN WHICH RECEIVED RUNOFF FROM DISTURBED AREAS. THE PLACING OF THESE TRAPS AND DAMS SHALL BE AS SHOWN ON THE PLANS. MAINTENANCE SHALL BE AS IN #4 ABOVE.
- EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM NUMBER REQUIRED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO USE ADDITIONAL BARRIERS AS FIELD CONDITIONS DICTATE AND TO INSURE THAT ANY EROSION CREATED BY THIS PROJECT DOES NOT REACH THE STATE'S WATERWAYS OR LEAVE THE SITE.
- 8. NEW SWALES AND DITCHES (AND ANY OTHER AREA SUBJECT TO CONCENTRATED STORM RUNOFF) SHALL BE FERTILIZED AND SEEDED WITH THE FOLLOWING MIXTURE TO AT LEAST TWO (2) FEET ABOVE THE CHANNEL BOTTOM:

SFED	LBS/ACRE
CREEPING RED FESCUE	20
REDTOP	2
SMOOTH BROMEGRASS	20

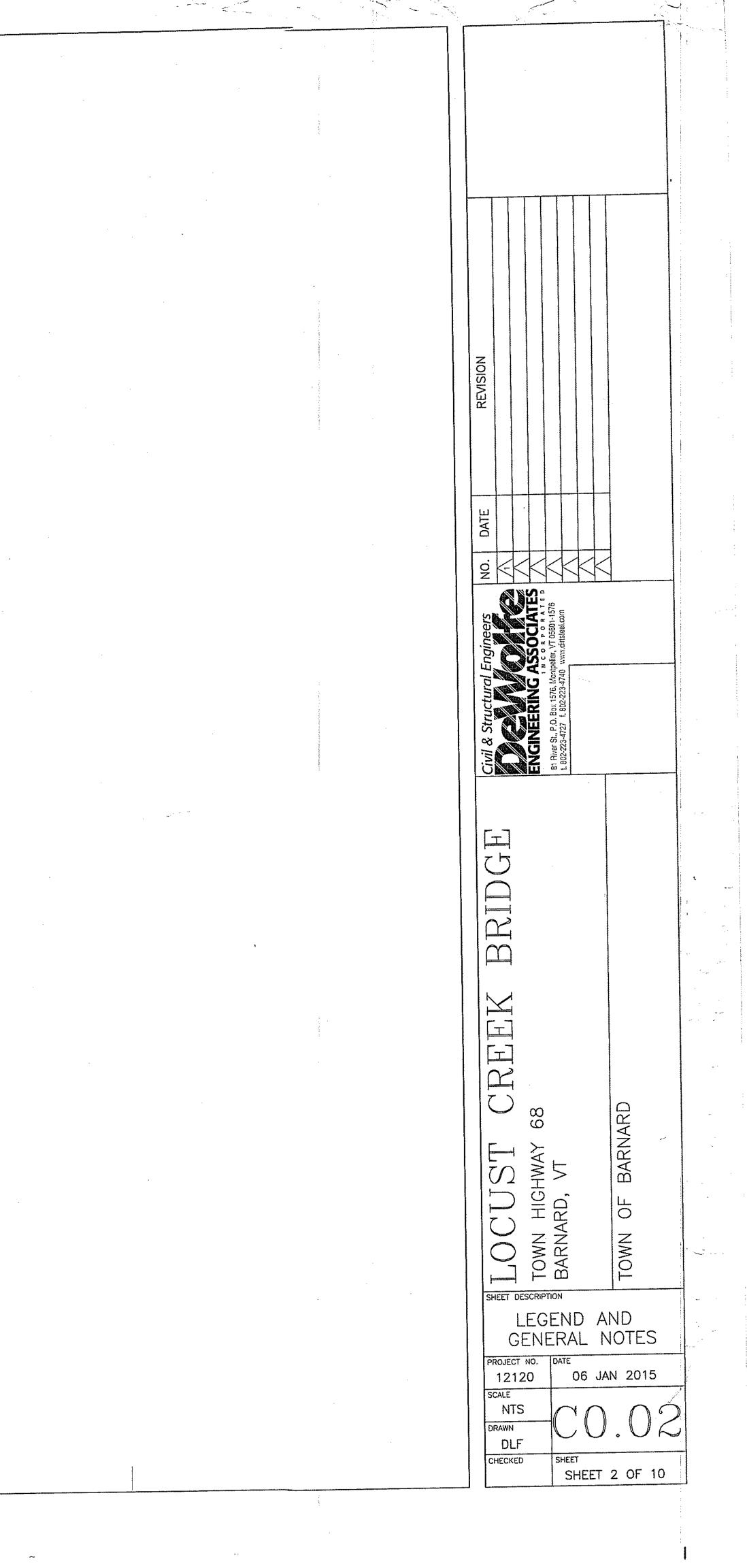
AND SHALL HAVE MULCH APPLIED AT THE RATE OF 2 TONS PER ACRE.

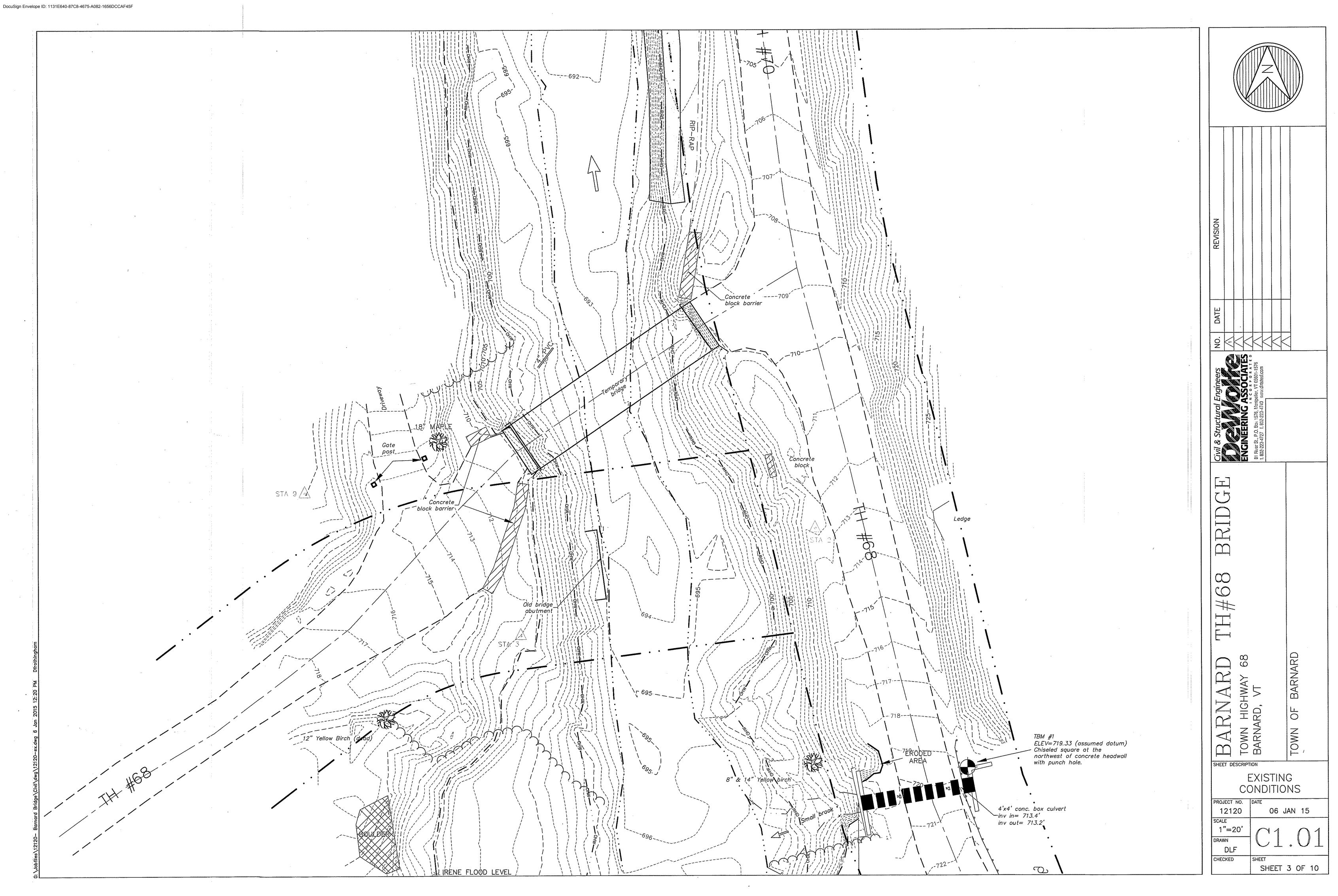
- 9. IN ALL NEW SWALES AND DITCHES, AND WHERE SLOPE GRADE EXCEEDS 25 PERCENT ( ON 4 SLOPE), JUTE MATTING SECURELY ATTACHED TO THE GROUND SHALL BE PLACED OVER MULCH AND MAINTAINED UNTIL A PERMANENT GRASS COVER IS ESTABLISHED.
- 10. ALL DISTURBED TERRAIN AT FINAL GRADE SHALL BE SEEDED AND MULCHED WITHIN 48 HOURS OF COMPLETION, AND BY SEPTEMBER 15TH AT THE LATEST. BEFORE APPLYING FINAL SEEDING FOUR (4) INCH AVERAGE DEPTH OF TOPSOIL SHALL BE PLACED IN ALL DISTURBED AREAS TO BE SEEDED. FERTILIZER SHALL BE APPLIED TO THE TOP 2-INCHES OF TOPSOIL AT A RATE OF 500 LOS/ACRE. SEED MIXTURES SHALL BE ONE AS SPECIFIED ON LANDSCAPING PLAN. IF NO SEED MIXTURE IS SPECIFIED IT SHALL BE ONE OF THE FOLLOWING, AS APPROPRIATE.

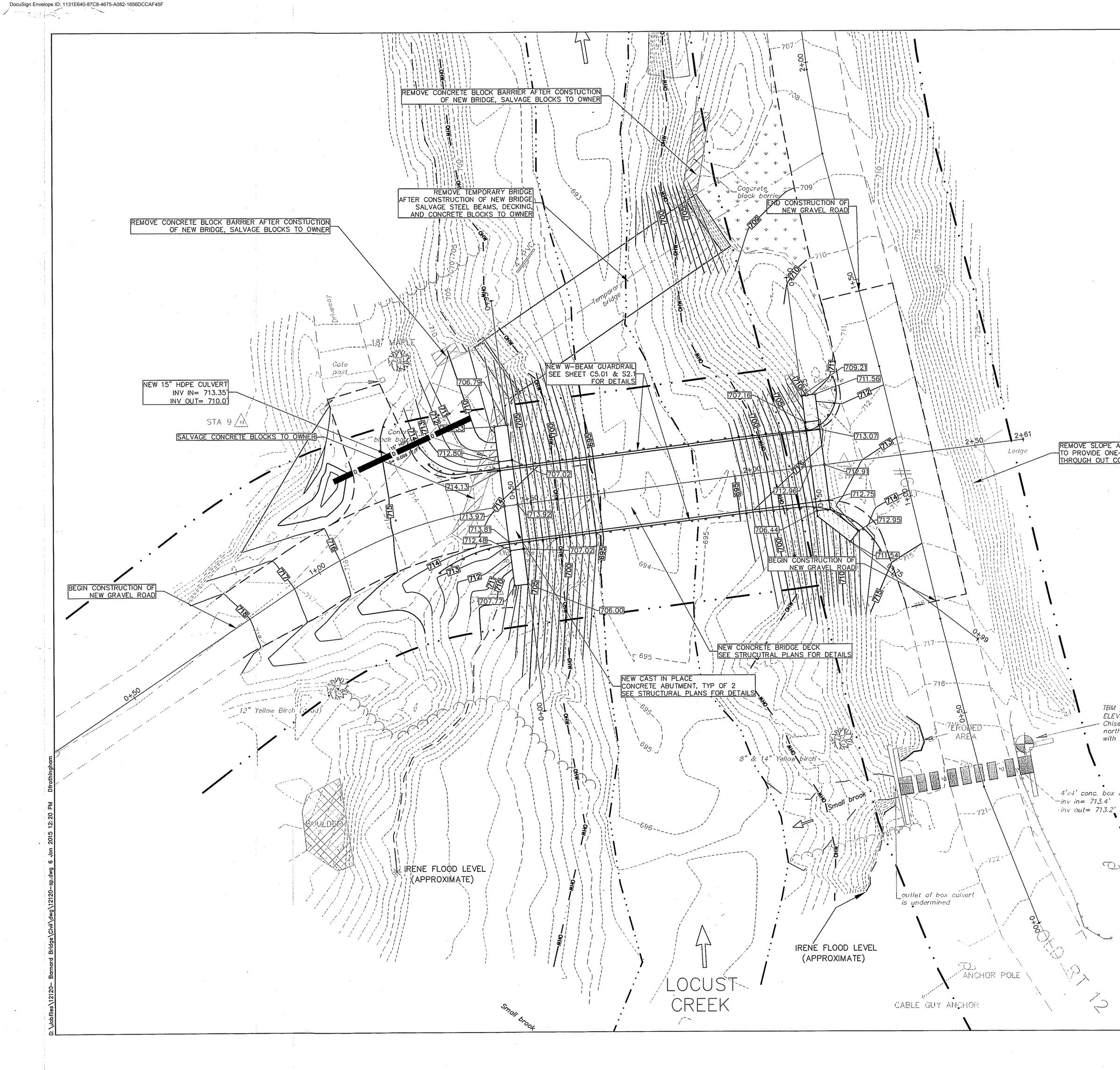
EMBANKMENT/SLOPING GROUND	LØS/ACRE
MIXTURE#1 CREEPING RED FESCUE	20
REDTOP	2
BIRDSFOOT TREFOIL	8
OR CROWNVETCH	15
MIXTURE#2 TALL FESCUE	10
REDTOP	2
FLAT PEA (LATHCO)	30
MIXTURE#3 CREEPING RED FESCUE	15
FLAT PEA (LATHCO)	30
FLAT/LEVEL GROUND MIXTURE#1 KENTUCKY BLUE GRASS CREEPING RED FESCUE RYE (PERENNIAL), OR	LBS/ACRE 20 20
REDTOP	5
MIXTURE#2 CREEPING RED FESCUE	20
REDTOP	2
TALL FESCUE	20

- 11. ALL NEWLY SEEDED AREAS SHALL BE MULCHED AT A RATE OF TWO (2) TONS PER ACRE OF HAY, STRAW, OR WOODCHIPS. DURING WINTER CONSTRUCTION MULCH SHALL BE APPLIED AT A RATE OF 4 TONS PER ACRE. JUTE OR OTHER EQUAL NETTING SHALL BE USED WHERE WIND OR WATER MAY ERODE NEWLY-PLACED SEED OR MULCH OR WHERE GRADE EXCEEDS 25% (1:4). ALL NETTING, WHERE USED, SHALL BE STAKED TO THE GROUND IN COMPLIANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- 12. ALL AREAS THAT REACH FINISHED GRADE DURING THE WINTER CONSTRUCTION SEASON SHALL BE MULCHED AT A RATE OF 4 TONS/ACRE AND TACKED DOWN TO PREVENT WINDTHROW WITHIN 24 HOURS OF REACHING FINAL GRADE. THESE AREAS SHALL BE SEEDED AS SPECIFIED IN NOTE 9 IN THE SPRING AS SOON AS WEATHER ALLOWS.
- 13. ALL HAY MULCH SHALL BE TACKED DOWN TO PREVENT WINDTHROW. JUTE MATTING OR EQUIVALENT SHALL BE USED WHERE INDICATED ON PLANS. IN ALL OTHER AREAS MULCHED SHALL BE TRACKED WITH A BULLDOZER. THE CLEATS OF THE BULLDOZER SHALL BE PARALLEL TO THE CONTOURS. DURING THE WINTER CONSTRUCTION SEASON NETTING OR JUTE MATTING SHALL BE USED TO TACK DOWN ALL MULCH.
- 14. ALL DISTURBED AREAS NOT AT FINAL GRADE THAT WILL NOT BE DISTURBED AGAIN FOR A PERIOD OF GREATER THAN THIRTY (30) DAYS, SHALL BE SEEDED WITH A TEMPORARY, RAPID-GROWING COVER CROP, SUCH AS RYE GRASS AND MILLET, AND SHALL BE MULCHED. NETTING SHALL ALSO BE APPLIED, AS SPECIFIED IN ITEM 13, TO STABILIZE THE MULCH AND SEED.
- 15. ALL DISTURBED AREAS MUST HAVE TEMPORARY OR FINAL STABILIZATION WITHIN 14 DAYS OF THE INITIAL DISTURBANCE. AFTER THIS TIME, ANY DISTURBANCE IN THE AREA MUST BE STABILIZED AT THE END OF EACH WORK DAY. THE FOLLOWING EXCEPTIONS APPLY: I) STABILIZATION IS NOT REQUIRED IF WORK IS TO CONTINUE IN THE AREA IN THE NEXT 24 HOURS AND THERE IS NO PRECIPITATION FORECAST FOR THE NEXT 24 HOURS. II) STABILIZATION IS NOT REQUIRED IF THE WORK IS OCCURRING IN A SELF-CONTAINED EXCAVATION (I.E. NO OUTLET) WITH A DEPTH OF 2-FEET OR GREATER (E.G. FOUNDATION EXCAVATION, UTILITY TRENCHES)
- 16. DURING WINTER CONSTRUCTION ALL DISTURBED AREAS MUST HAVE TEMPORARY OR FINAL STABILIZATION AT THE END OF EACH WORK DAY. THE FOLLOWING EXCEPTIONS APPLY: I) STABILIZATION IS NOT REQUIRED IF WORK IS TO CONTINUE IN THE AREA IN THE NEXT 24 HOURS AND THERE IS NO PRECIPITATION FORECAST FOR THE NEXT 24 HOURS. ii) STABILIZATION IS NOT REQUIRED IF THE WORK IS OCCURRING IN A SELF-CONTAINED EXCAVATION (I.E. NO OUTLET) WITH A DEPTH OF 2-FEET OR GREATER (E.G. FOUNDATION EXCAVATION, UTILITY TRENCHES)
- 17. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS OF PERMANENT STABILIZATION OF THE SITE.
- 18. EROSION CONTROLS SHALL BE INSPECTED WEEKLY AND AFTER ANY RAIN EVENT WHICH PRODUCES RUNOFF BY THE ON-SITE COORDINATOR, WHO WILL BE RESPONSIBLE FOR RECTIFYING ANY PROBLEMS FOUND. ALL INSPECTION FORMS SHALL BE KEPT ON-SITE AS RECORDS OF THE CONDITION OF THE EROSION CONTROL MEASURES. TEMPORARY EROSION CONTROL MEASURE SHALL BE REMOVE WITH 30 DAYS OF PERMANENT SITE STABILIZATION.
- 19. NO MORE THAN 3 ACRES SHALL BE DISTURBED (WITHOUT TEMPORARY OR FINAL STABILIZATION) AT ANY ONE TIME

20. SEEDING MUST BE COMPLETED BY SEPTEMBER 15.

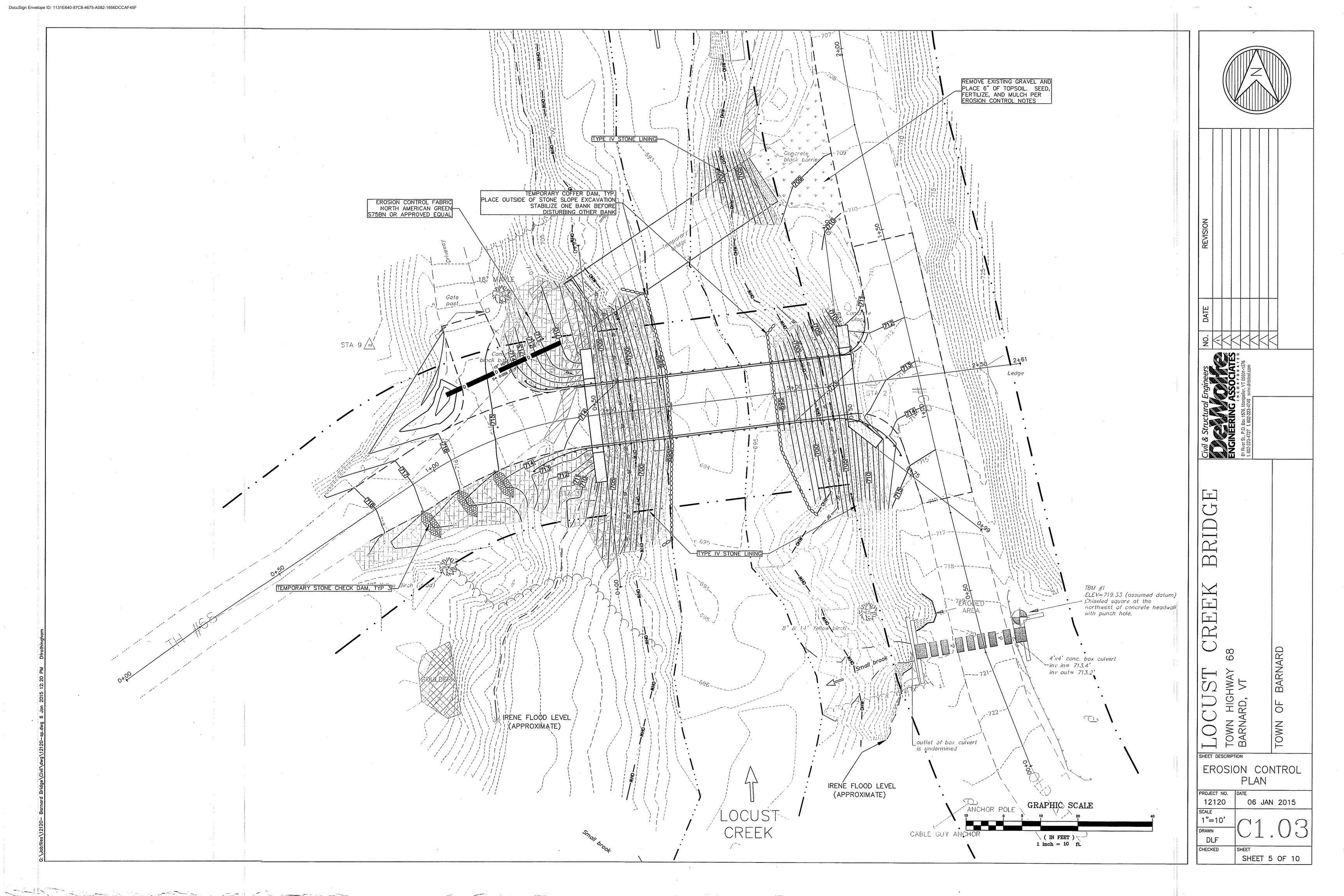




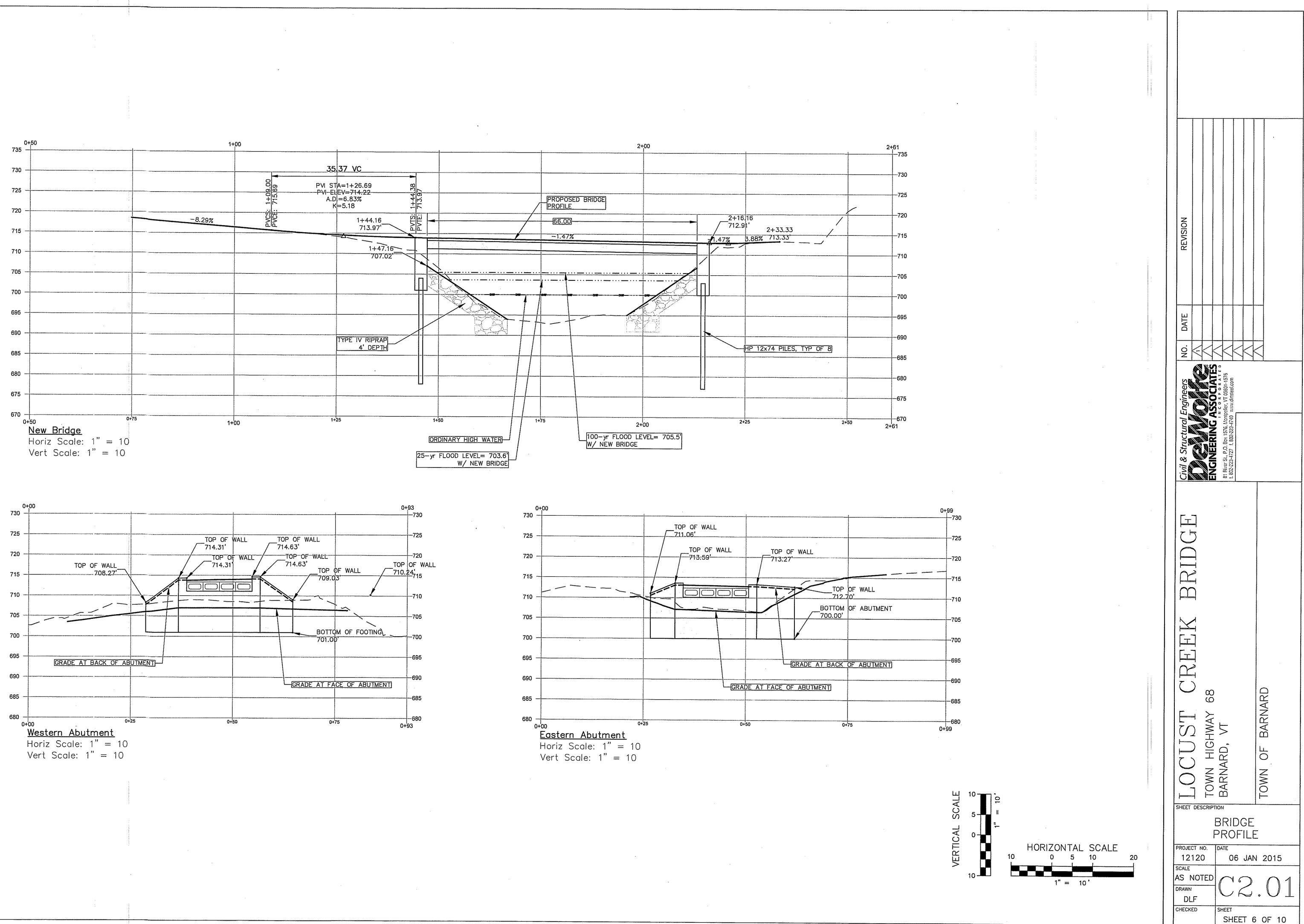


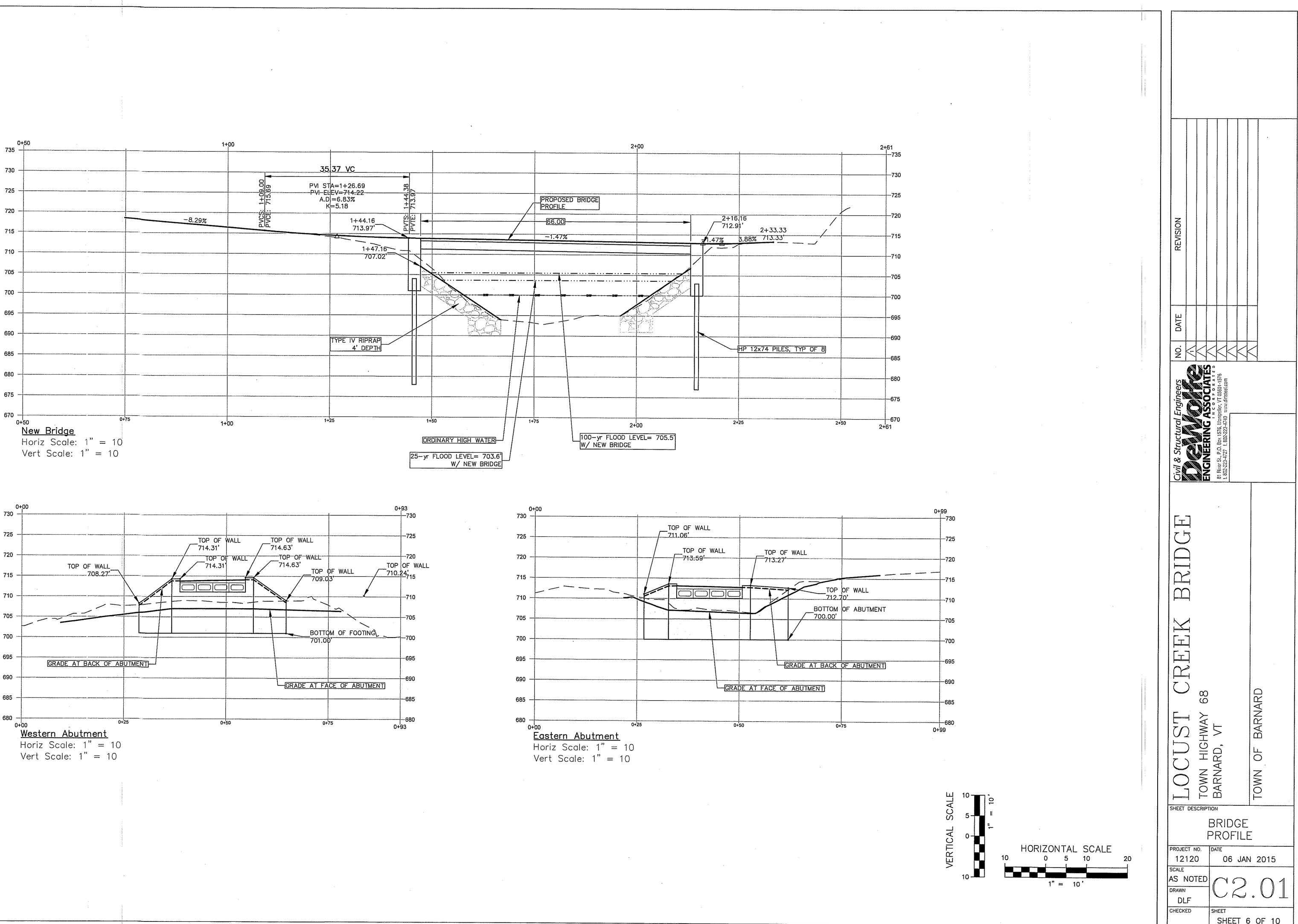
:	, ,			
			2	
			DATE REVISION	
AS NEEDED NE-WAY TRAFFIC CONSTRUCTION	· · · · · · · · · · · · · · · · · · ·		Civil & Structural Engineers NO. I ENCINEERING ASSOCIATES BI River SL. P.O. Box 1576, Montpelier, VT 05601-1576 L B02-223-4727 1, B02-223-4740 www.ditterel.com	
			Crvil & Stru G H al River SL, P.O. B 1, 802-223-4727 1, E	
M #1 EV=719.33 (assumed datum) hiseled square at the parthwest of concrete headwall		·	EK BRID	
orthwest of concrete headwall th punch hole.		÷		FBARNARD
			DIT ON	TOWN
	GRAPHIC SCALE <sup>5</sup> 10 20 ( IN FEET ) 1 inch = 10 ft.	40 	PROJECT NO.DATE1212006 JANSCALE1"=10'DRAWNC1DLFC1CHECKEDSHEETSHEETSHEET	02

\_

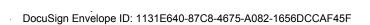


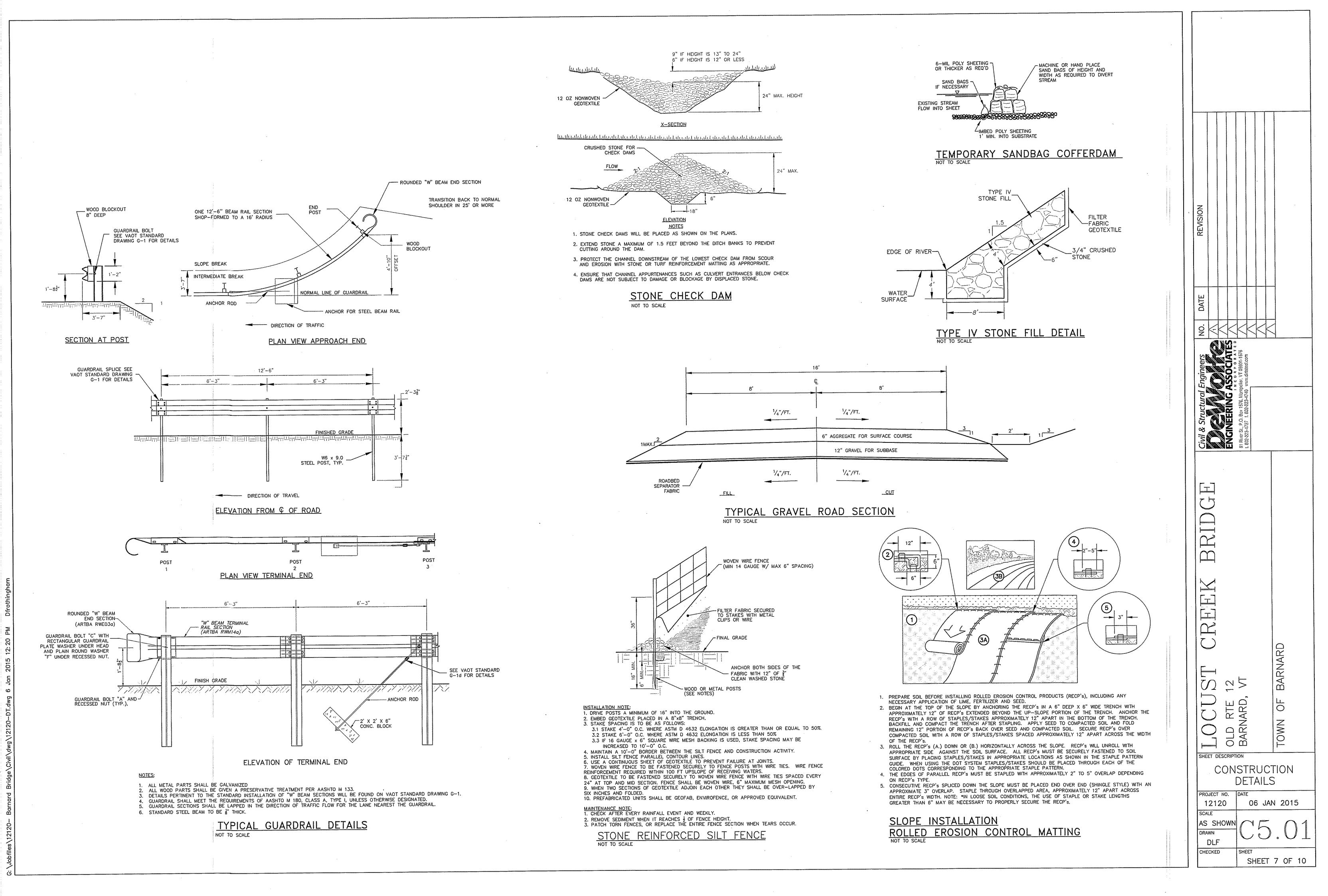
,



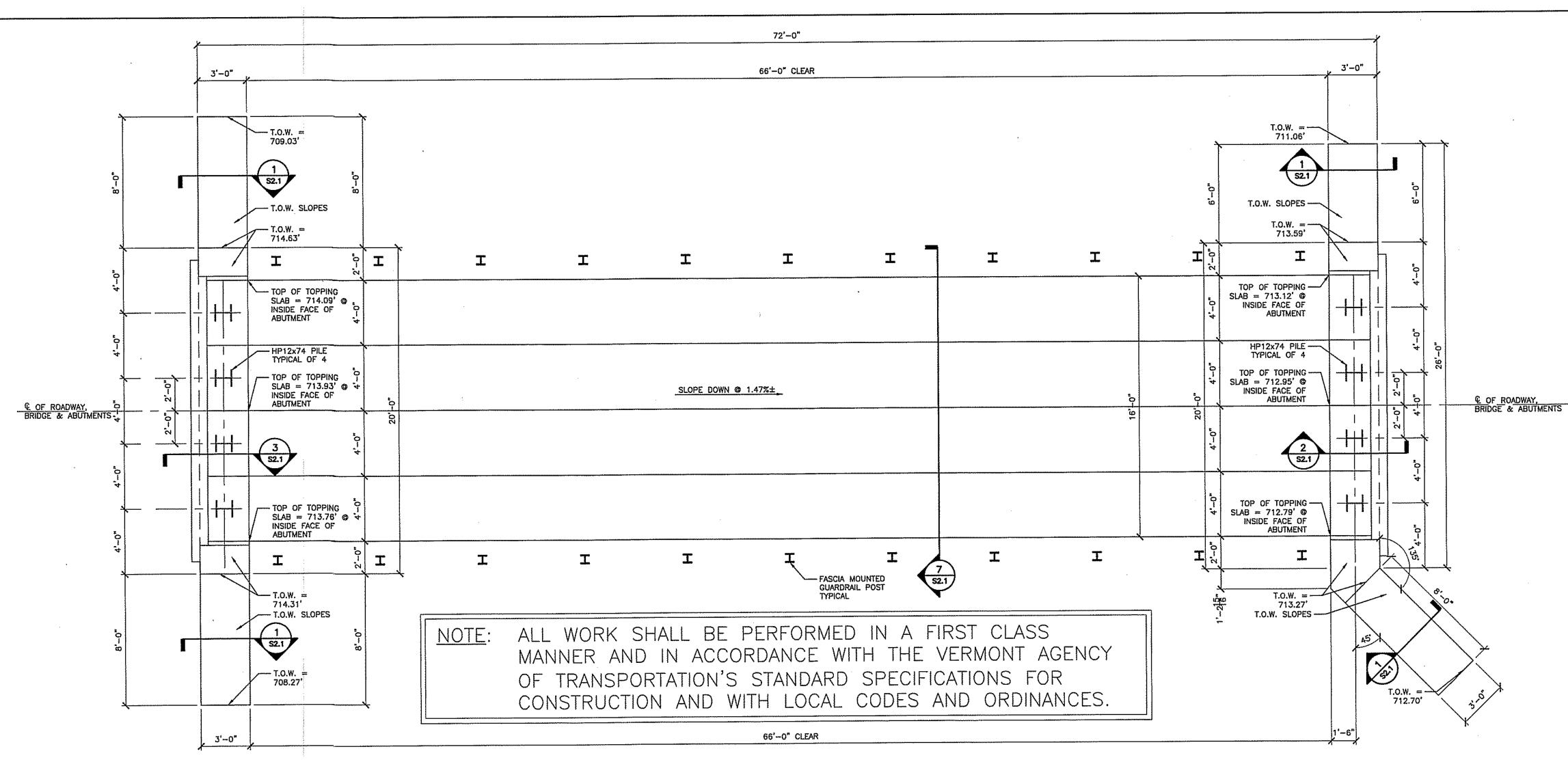


· · ·





-----



GENERAL NOTES

1 GENERAL:

ORDINANCES.

- 1.1 ALL WORK SHALL BE PERFORMED IN A FIRST CLASS MANNER, AND SHALL BE IN STRICT ACCORDANCE WITH STATE CODE (VERMONT AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, 2011 EDITION), THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 6TH EDITION, THE AASHTO LRFD BRIDGE CONSTRUCTION SPECIFICATIONS, 3RD EDITION, AND LOCAL CODES AND
- 1.2 BEFORE ORDERING MATERIALS, CONTRACTOR SHALL REVIEW ALL CONSTRUCTION DOCUMENTS, INCLUDING STRUCTURAL, CIVIL, SUBCONTRACTORS SHOP DRAWINGS, AND OTHER RELATED DOCUMENTS, TO VERIFY AND COORDINATE DIMENSIONS, LOCATIONS, PLACEMENT, AND APPLICABILITY OF BRIDGE COMPONENTS. THE CONTRACTOR SHALL MAKE FIELD CHECKS TO VERIFY THE ACCURACY OF DIMENSIONS, TOPOGRAPHY, AND OTHER EXISTING CONDITIONS. IF THERE IS ANY DISCREPANCY IN THE
- CONTRACT DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AS SOON AS POSSIBLE. 1.3 CONTRACTOR SHALL PROTECT EXISTING FACILITIES, STRUCTURES,
- UTILITY LINES FROM ALL DAMAGE. 1.4 CONTRACTOR IS RESPONSIBLE FOR ADEQUATE BRACING OF STRUCTURAL MEMBERS, WALLS, AND NON-STRUCTURAL ITEMS
- DURING CONSTRUCTION. 1.5 THE CONTRACTOR SHALL THOROUGHLY CLEAN THE PREMISES AT COMPLETION OF WORK AND AT TIMES AS DIRECTED BY THE OWNER.
- LEGALLY DISPOSE OF EXCESS MATERIAL OFF SITE. 1.6 JOB-SITE SAFETY CONDITIONS, INCLUDING, BUT NOT LIMITED TO, LATERAL STABILITY AND WIND BRACING, SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- 1.7 SURFACE DRAINAGE SHALL BE DIRECTED AWAY FROM THE BRIDGE. CONTRACTOR IS RESPONSIBLE FOR WATER STOPS AND WATERPROOFING AS SHOWN AND AS NECESSARY.
- 2 SOILS/GEOTECHNICAL
- 2.1 ALL FILL MATERIAL PLACED WITHIN THE FOOTING LIMITS AND EXTENDING 2'-0" MINIMUM BEYOND THE FOOTING PERIMETER SHALL BE WELL COMPACTED, FREE DRAINING, GRANULAR BACKFILL FOR STRUCTURES AS PER SECTION 704.08 OF THE VAOT SPECIFICATIONS.
- 2.2 THE HEIGHT OF FILL BEHIND ABUTMENTS WILL BE LIMITED TO THE BRIDGE SEAT ELEVATION UNTIL THE DECK HAS BEEN POURED AND THE CURING PERIOD IS UP.
- 3 CONCRETE: 3.1 CONCRETE MATERIALS AND WORK SHALL BE IN ACCORDANCE WITH SECTION 501 - HPC STRUCTURAL CONCRETE OF THE VAOT SPECIFICATIONS. UNLESS OTHERWISE NOTED, ALL CONCRETE SHALL BE HIGH PERFORMANCE CLASS B AS PER TABLE 501.03A. CONCRETE FOR THE TOPPING SLAB, BACK WALLS, AND INFILL BETWEEN SEAT AND UNDERSIDE OF BOX BEAM SHALL BE HIGH PERFORMANCE CLASS AA AS PER TABLE 501.03A. SUBMIT CONCRETE MIX DESIGNS FOLLOWING PROCEDURES OUTLINED IN THE SPECIFICATION. CONTRACTOR SHALL TAKE 4 TEST CYLINDERS OF CONCRETE FOR EACH 50 CUBIC YARDS OF CONCRETE OR FOR EACH DAYS POUR IF
- LESS THAN 50 C.Y. TESTING WILL BE AT OWNER'S EXPENSE. 3.2 CONCRETE ABUTMENT WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIFICATIONS. PLACING, CURING AND FINISHING SHALL BE COMPLETED PER THE SPECIFICATIONS.
- 3.3 NO CONCRETE IN ABUTMENTS OR WING WALLS SHALL BE PLACED ABOVE THE BRIDGE SEAT ELEVATIONS UNTIL THE BOX BEAMS HAVE BEEN PROFILED AND THE FINISHED GRADE OF THE DECK HAS BEEN DETERMINED.

- 3.4 THE VERTICAL KEY IN CONCRETE CONSTRUCTION JOINTS SHALL BE MONOLITHIC AND CONTINUOUS FOR THE FULL LENGTH OF THE JOINT.
- 3.5 SURFACES OF BRIDGE SEATS UNDER BEARING DEVICES SHALL BE LEVEL. ALL O AREAS OF BRIDGE SEATS SHALL BE SLOPED DOWN 2"/FOOT TOWARD THE NEAR OUTSIDE FACE OF THE SUBSTRUCTURE UNIT, SUCH AS TO PREVENT WATER PONDING ON THE BRIDGE SEAT AREA. THE ENTIRE BRIDGE SEAT SURFACE SHA BE GIVEN A MAGNESIUM FLOAT FINISH.
- 3.6 RELATIVE TO GRADE, ALL DECK POURS SHALL BEGIN FROM THE LOW ELEVATION END AND PROCEED TOWARDS THE HIGH ELEVATION END.
- 3.7 THE DECK IS TO BE POURED IN ONE CONTINUOUS POUR WITH A MAXIMUM DURATION OF EIGHT HOURS, IF CIRCUMSTANCES BEYOND THE CONTRACTOR'S CONTROL PREVENT THIS FROM BEING ACCOMPLISHED, A TRANSVERSE CONSTRUCTION JOINT SHALL BE USED BETWEEN ADJACENT POURS. A MINIMUM HOUR DELAY BETWEEN ADJACENT POURS SHALL BE OBSERVED.
- 3.8 WATER REPELLENT, SILANE, SHALL BE APPLIED TO ALL EXPOSED CONCRETE SURFACES, EXCEPT THE UNDERSIDE OF THE DECK BETWEEN DRIP NOTCHES.
- 3.9 PRIOR TO ANY COLD WEATHER CONCRETE PLACEMENT AS DEFINED IN SECTION THE CONTRACTOR SHALL SUBMIT A PLAN TO THE RESIDENT ENGINEER FOR APPROVAL. THE PLAN AT A MINIMUM SHALL PROVIDE METHODS FOR INSULATING CURING, HEATING, TEMPERATURE MONITORING, AND ANY WEATHER RESTRICTIONS FOR CONCRETE PLACEMENT. THE PLAN SHALL BE SPECIFIC TO THE LOCATION THE PLACEMENT AND BE SUBMITTED A MINIMUM OF 14 DAYS PRIOR TO THE ANTICIPATED PLACEMENT DATE. COLD WEATHER CONCRETE SHALL NOT BE PLAC PRIOR TO APPROVAL OF THE PLAN.
- 3.10 ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1"x1".
- 3.11 THE TOP SURFACE OF THE CONCRETE TOPPING SLAB SHALL HAVE A TEXTURED FINISH APPLIED DURING SCREEDING IN ACCORDANCE WITH THE AASHTO LRFD CONSTRUCTION SPECIFICATIONS TO ENSURE ADEQUATE TRACTION FOR VEHICLES.
- **4 REINFORCING STEEL:**
- 4.1 REINFORCING STEEL MATERIALS AND WORK SHALL BE IN ACCORDANCE WITH SECTION 507 - REINFORCING STEEL OF THE VAOT SPECIFICATIONS.
- 4.2 REINFORCING STEEL SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW BY THE ENGINEER.
- 4.3 ALL REINFORCING STEEL USED IN THE TOPPING SLAB AND BACKWALLS SHALL EPOXY COATED.
- 4.4 THE MINIMUM CLEAR DISTANCE FROM REINF. STEEL TO ADJACENT SURFACE SHALL BE AS INDICATED ON THE DRAWINGS. WHERE
- CLEAR COVER IS NOT INDICATED ON DRAWINGS, PROVIDE 2" CLEAR COVER. 4.5 REINFORCEMENT SHALL BE SECURELY TIED IN ITS PROPER PLACE BEFORE AND DURING CONCRETE PLACEMENT OPERATIONS USING APPROVED TIES, CHAIRS, AND SPACERS AS REQUIRED. NO BARS SHALL BE CUT OR OMITTED IN THE FIELD WITHOUT THE APPROVAL OF THE ENGINEER. USE PLASTIC TIPPED ACCESSORIES IN CONCRETE EXPOSED TO WEATHER, WATER, OR VIEW.
- 5 STRUCTURAL PRECAST PRESTRESSED CONCRETE
- 5.1 STRUCTURAL PRECAST PRESTRESSED CONCRETE MATERIALS AND WORK SHALL B IN ACCORDANCE WITH SECTION 510 - PRESTRESSED CONCRETE AND SECTION 540 - PRECAST CONCRETE OF THE VAOT SPECIFICATIONS. IF CONFLICTS EXIST BETWEEN THE REQUIREMENTS OF THESE SECTIONS, THE STRICTER CRITERIA SHALL APPLY.
- THE MINIMUM 28 DAY COMPRESSIVE STRENGTH OF CONCRETE USED IN 5.2 STRUCTURAL PRECAST PRESTRESSED MEMBERS SHALL BE 5,000 PSI OR HIGHE AS DEEMED NECESSARY BY DESIGN.

## BRIDGE DECK & ABUTMENT PLAN

SCALE: 1/4"=1'-0"

:	5.3	REINFORCING STEEL MATERIALS AND WORK FOR STRUCTURAL PRECAST PRESTRESSED CONCRETE MEMBERS SHALL BE IN ACCORDANCE WITH SECTION 507 - REINFORCING STEEL OF THE VAOT SPECIFICATIONS.
other Arest	5.4	REINFORCING STEEL USED IN STRUCTURAL PRECAST PRESTRESSED MEMBERS SHALL BE EPOXY COATED.
ALŁ	5.5	STEEL CONNECTION MATERIAL USED IN STRUCTURAL PRECAST PRESTRESSED MEMBERS SHALL BE HOT DIP GALVANIZED.
м 96	5.6	STRUCTURAL PRECAST PRESTRESSED MEMBERS SHALL BE THE PRODUCT OF A MANUFACTURER WHO HAS DEMONSTRATED THE ABILITY TO PRODUCE STRUCTURAL PRECAST PRESTRESSED PRODUCTS AND HAS BEEN IN BUSINESS FOR AT LEAST THE LAST THREE YEARS. THE MANUFACTURING PLANT AND METHODS SHALL CONFORM TO THE VAOT STANDARDS AND THE LATEST STANDARDS OF THE PRECAST CONCRETE INSTITUTE.
1 501,	5.7	THE DESIGN OF STRUCTURAL PRECAST PRESTRESSED MEMBERS SHALL BE THE SOLE RESPONSIBILITY OF THE MANUFACTURER. DESIGN SHALL BE BY A REGISTERED ENGINEER EXPERIENCED IN THE DESIGN OF STRUCTURAL PRECAST PRESTRESSED MEMBERS. DESIGN CALCULATIONS AND SHOP DRAWINGS, STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF VERMONT, SHALL BE SUBMITTED FOR REVIEW BY THE ENGINEER.
NG, NS NOF NCED	5.8	STRUCTURAL PRECAST PRESTRESSED MEMBERS SHALL BE DESIGNED IN ACCORDANCE WITH THE VAOT STRUCTURES MANUAL AND THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 6TH EDITION. REQUIREMENTS OF THE STRUCTURES MANUAL TAKE PRECEDENCE OVER REQUIREMENTS OF THE AASHTO SPECIFICATIONS. MEMBERS SHALL BE DESIGNED FOR ALL LOADS AND LOAD COMBINATIONS REQUIRED BY THE TWO DOCUMENTS NOTED ABOVE. STRUCTURAL PRECAST PRESTRESSED CONCRETE SLAB DESIGN LOADS SHALL BE AS FOLLOWS:
		SELFWEIGHT OF PRECAST PRESTRESSED CONCRETE SLABS SUPERIMPOSED DEAD LOAD: VARIES FROM 62.5 PSF TO 112.5 PSF (5" - 9" NONSTRUCTURAL CONCRETE OVERLAY) LIVE LOAD: HL-93 PER AASHTO LRFD SPECIFICATIONS, 6TH EDITION LL IMPACT: PER AASHTO LRFD SPECIFICATIONS, 6TH EDITION NUMBER OF LANES: 2 OTHER LOADS: IN ACCORDANCE WITH AASHTO LRFD SPECIFICATIONS, 6TH EDITION & VAOT STRUCTURES MANUAL DEFLECTION CRITERIA: IN ACCORDANCE WITH AASHTO LRFD SPECIFICATIONS, 6TH EDITION
HE	5.9	ALL PRECAST PRESTRESSED BOX BEAMS SHALL HAVE VOID DRAINS MADE OF NONFERROUS, 3/4"\$ DRAIN MATERIAL. CONTRACTOR SHALL CLEAN VOID DRAINS FOLLOWING ERECTION OF BOX BEAMS.
kd too	5.10	
	5.11	SHEAR KEYS BETWEEN STRUCTURAL PRECAST PRESTRESSED CONCRETE SLABS SHALL BE GROUTED IN ACCORDANCE WITH THE VAOT STRUCTURES MANUAL AND SECTION 510 - PRESTRESSED CONCRETE OF THE VAOT SPECIFICATIONS. ALL SURFACES TO BE GROUTED SHALL BE SANDBLASTED TO ENSURE A CLEAN, OIL-FREE ROUGHENED SURFACE.
BE	5.12	THE TOP SURFACE OF PRECAST PRESTRESSED SLABS SHALL BE FINISHED TO PROVIDE A SURFACE SUITABLE FOR BONDING OF THE $5^{*}$ - $9^{*}$ NON-STRUCTURAL OVERLAY.
	6 H-P	ILES
	6.1	
HER		TO PREVENT DAMAGE TO THE PILES, PILE SHOES ARE REQUIRED FOR DRIVEN PILES AND SHALL CONFORM TO SUB SECTION 505.04 (f).

- 6.3 THE PILE LOCATIONS SHALL BE PRE-EXCAVATED TO A MINIMUM DEPTH OF 8'-0" BELOW THE PILE CAP AS PER DETAIL ON SHEET S2.1. PRE-EXCAVATED HOLES SHALL BE 24" IN DIAMETER. PAYMENT FOR PRE-EXCAVATION SHALL BE MADE UNDER ITEM 900.640. "SPECIAL PROVISION (PRE-EXCAVATION OF INTEGRAL ABUTMENTS PILES, EARTH)" OR ITEM 900.640, "SPECIAL PROVISION (PRE-EXCAVATION OF INTEGRAL ABUTMENTS PILES, ROCK)". THE ENTIRE PRE-EXCAVATED HOLE SHALL BE BACK FILLED WITH SAND AFTER THE PILE IS SET. SAND SHALL CONFORM TO THE REQUIREMENTS OF SUB SECTION 703.03.
- 6.4 THE PILES SHALL BE DRIVEN TO A NOMINAL AXIAL PILE DRIVING RESISTANCE (RNDR) OF 402 KIPS, OR REFUSAL, PROVIDED A MINIMUM PENETRATION OF 22'-O" BELOW THE BOTTOM OF PILE CAP HAS BEEN ACHIEVED. THE MINIMUM REQUIRED PILE LENGTH IS 25'-O". IF COMPETENT BEDROCK IS ENCOUNTERED SHALLOWER THAN 22'-O" BELOW THE BOTTOM OF PILE CAP, PRE-EXCAVATION TO A MINIMUM OF 22'-O" BELOW BOTTOM OF PILE CAP IS REQUIRED. PRE-EXCAVATION & PAYMENT SHALL BE AS PER GENERAL NOTE 5.3.
- 6.5 THE TOPS OF THE PILES AFTER DRIVING OR PLACEMENT SHALL NOT VARY FROM THE POSITION SHOWN ON THE PLANS BY MORE THAN 3". THE PILE ORIENTATION SHALL NOT VARY BY MORE THAN 5 DEGREES. THE CONTRACTOR SHALL DEMONSTRATE HOW THE TOLERANCES WILL BE MET TO THE SATISFACTION OF THE ENGINEER. THESE MEASURES SHALL BE DEMONSTRATED IN A SUBMITTAL TO BE ACCEPTED BEFORE PILE DRIVING COMMENCES.
- 6.6 A MINIMUM OF ONE DYNAMIC PILE TEST SHALL BE CONDUCTED AT EACH ABUTMENT. MORE TESTS MAY BE REQUIRED BY THE ENGINEER. THE FIRST TEST PILE SHALL BE THE FIRST PRODUCTION PILE DRIVEN FOR EACH ABUTMENT. THE PILE WILL BE DRIVEN AT THE PLAN LOCATION AND THE PILE SHALL BE MEASURED FOR PAYMENT UNDER CONTRACT ITEM 505.16. THIS SHALL BE PAID FOR UNDER ITEM 505.45, "DYNAMIC PILE LOADING TEST".
- 6.7 FOR ESTIMATING PURPOSES, THE PILE TIP ELEVATIONS WERE ASSUMED AS ELEVATION 678.00 AT THE EAST ABUTMENT & EL. 679.00 AT THE WEST ABUTMENT, THE ACTUAL IN PLACE LENGTHS MAY VARY.

7 BRIDGE RAILINGS

7.1 ALL BRIDGE RAILING MATERIALS AND WORK SHALL BE IN ACCORDANCE WITH SECTION 525 - BRIDGE RAILINGS OF THE VAOT SPECIFICATIONS.

Α	B	В	R	Ε	٧	L	Ą	T	1	Ο	N	IS	
						_							

<u>SREVIATIONS</u>
TOP OF SLAB
ELEVATION
DIMENSION
TOP OF WALL
FACE OF CONCRETE
EACH FACE
EACH WAY
UNLESS OTHERWISE NOTED
CONTINUOUS
NOT TO SCALE
TYPICAL
CENTERLINE
DIAMETER
DOWEL
CLEAR
DRAWINGS
HOT DIPPED

### CONCRETE REINFORCING SPLICE I ENGTHS

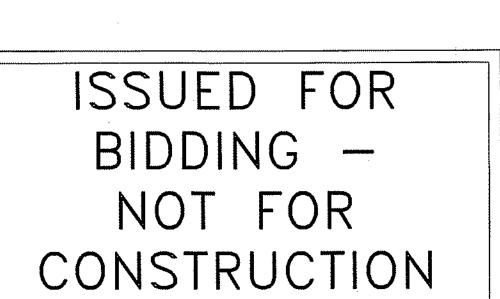
SELICE LENGINS							
Fy=60 KSI	F'c=3.5 KSI						
BAR	TOP BARS	OTHER BARS					
4	27*	20*					
5	30"	22"					
6	35"	26*					
7	49"	38"					
8	62"	44"					

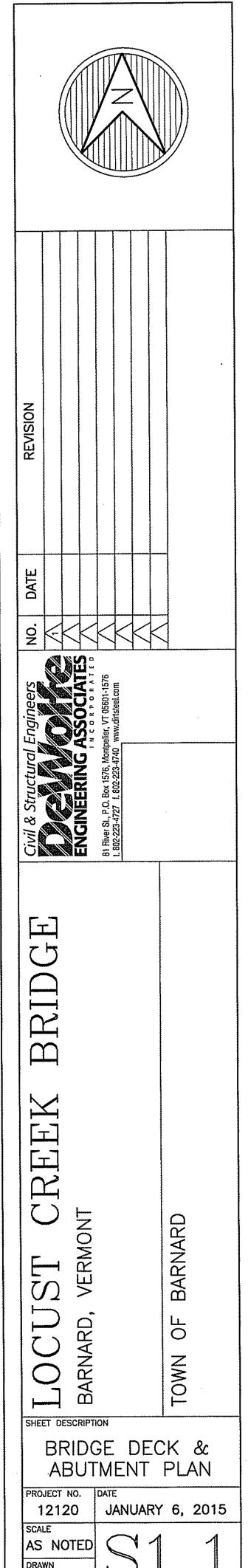
CHART BASED ON THE FOLLOWING:

- CLASS C SPLICES AS PER VTRANS STRUCTURES MANUAL - TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF FRESH CONCRETE CAST BELOW THE BAR. - FOR EPOXY COATED REBAR, MULTIPLY SPLICE LENGTHS IN CHART BY A FACTOR OF 1.2

- BAR SPACING 6" MINIMUM - CLEAR COVER 2 BAR DIAMETERS MINIMUM

REFER TO THE VTRANS STRUCTURES MANUAL FOR OTHER CONDITIONS.

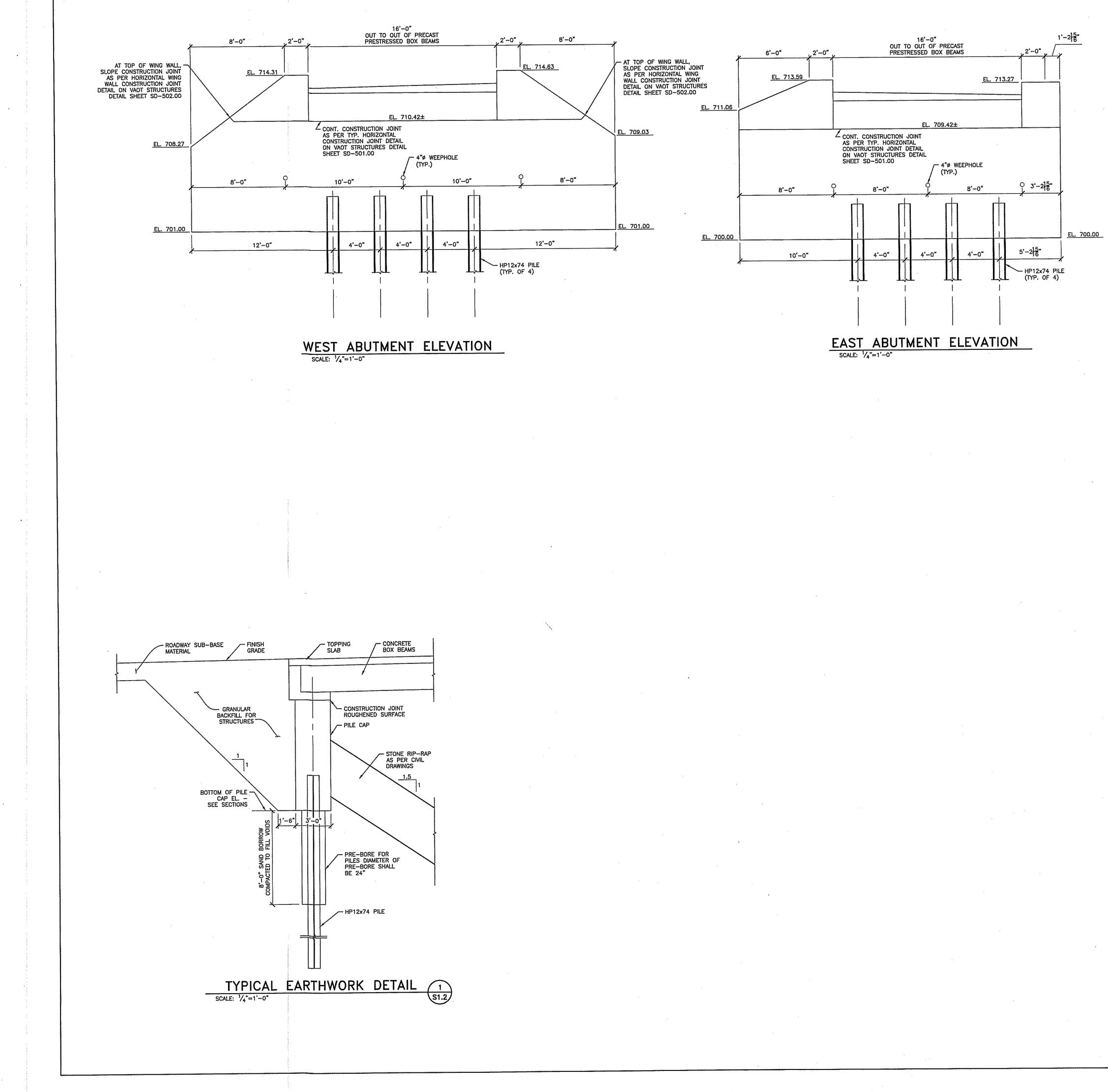


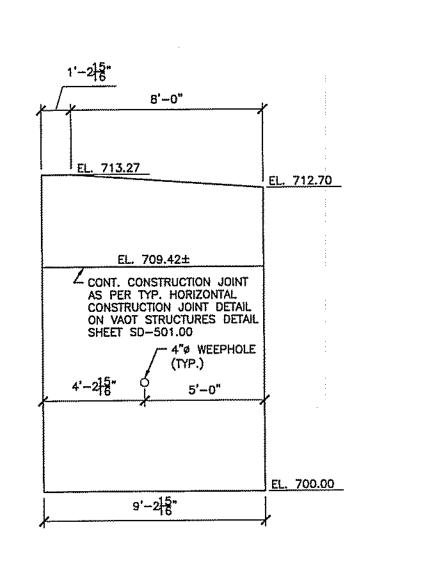


K.L.A.

SHEET 8 OF 10

CHECKED





# SOUTHEAST ABUTMENT ELEVATION



ISSUED FOR

REVISION DATE IES Civil 6 81 River t. 802-22 BRIDGE REEK  $\bigcirc$ /ERMONT BARNARD S E S LOCU ОF BARNARD TOWN SHEET DESCRIPTION CONCRETE ELEVATIONS PROJECT NO. DATE 12120 JANUARY 6, 2015

SCALE

DRAWN K.L.A.

CHECKED

AS NOTED

6

SHEET 9 OF 10

BIDDING -NOT FOR CONSTRUCTION

