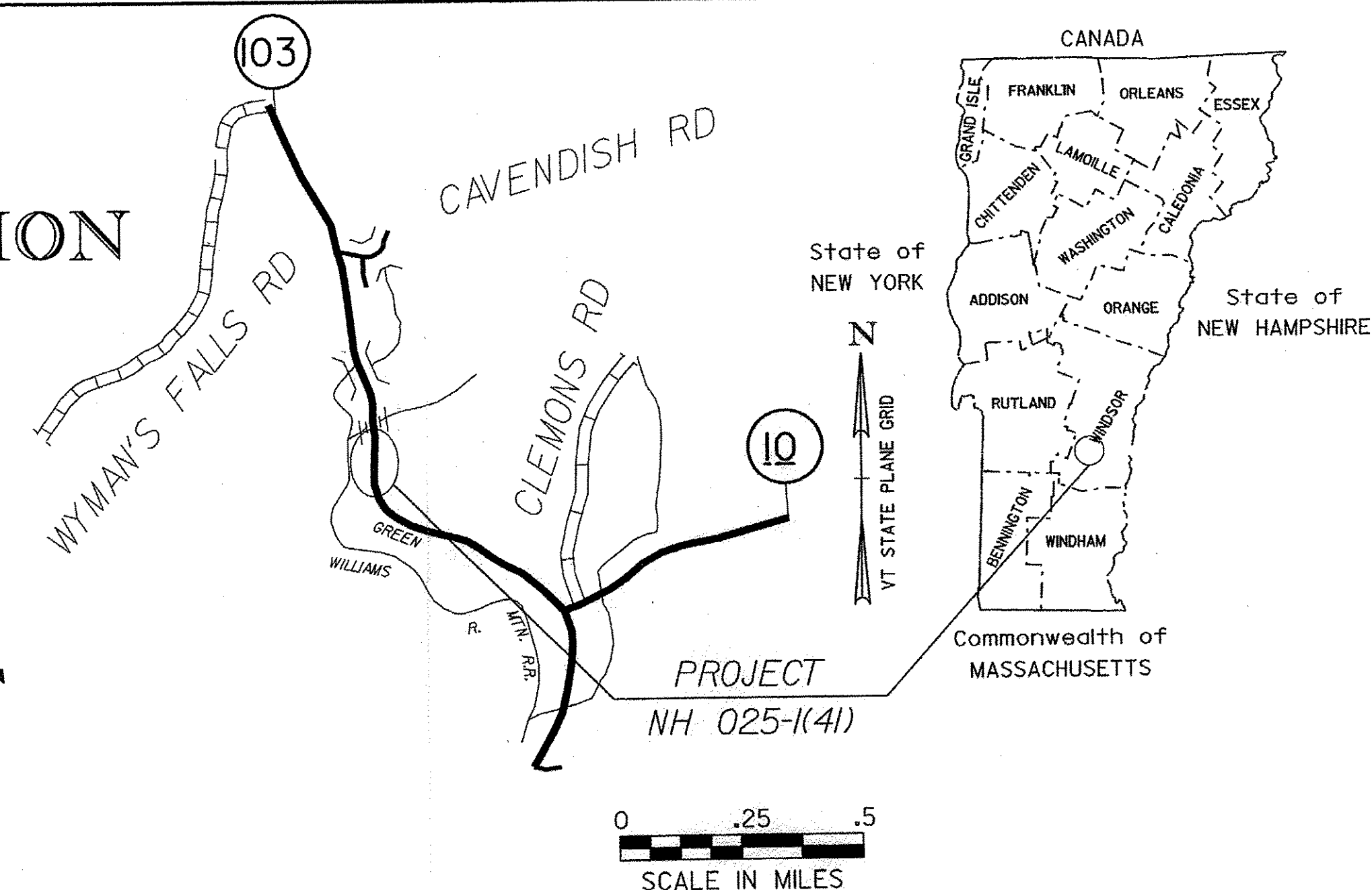


INDEX OF SHEETS
(SEE SHEET 2)

STATE OF VERMONT AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT TOWN OF CHESTER COUNTY OF WINDSOR VT 103 - PRINCIPAL ARTERIAL



RECORD PLANS	
CONTRACTOR:	MORRILL CONSTRUCTION INC.- NORTH HAVERHILL, NH
RESIDENT ENGINEER:	DAN BREER
CONSTRUCTION BEGAN:	MARCH 25, 2010
CONSTRUCTION COMPLETE:	AUGUST 10, 2010
RECORD PLANS BY:	DAN BREER & NICK GARBACIK
I HEREBY CERTIFY THAT ALL THE CONSTRUCTION REQUIRED BY THIS SET OF DRAWINGS HAS BEEN ACCOMPLISHED AS INDICATED HEREIN.	
BY:	<i>D. Breer</i> RESIDENT ENGINEER
DATE:	7/1/13
NOTE: Any further information concerning final quantities, amounts or other details relative to this project may be found at Central Files in the electronic archives.	

PROJECT LOCATION: BEGINNING AT MM 8.114 AND EXTENDING NORTHERLY 0.246 MILES TO MM 8.360

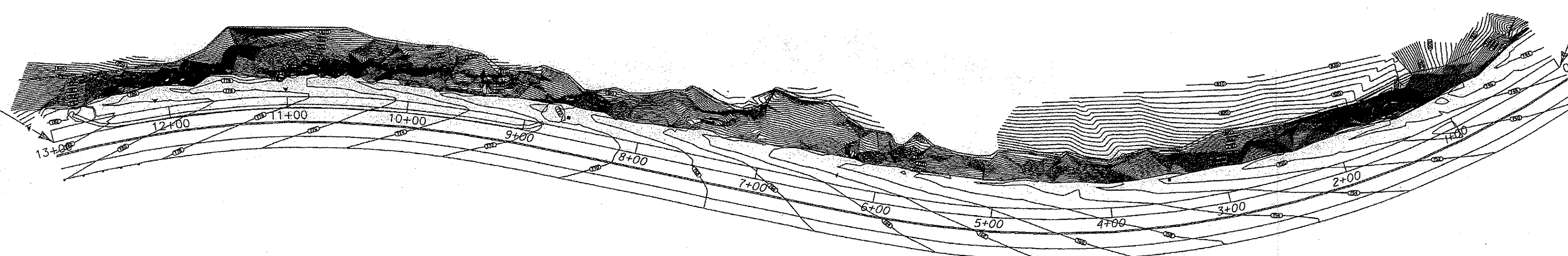
PROJECT DESCRIPTION: WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES SCALING, ROCK DOWELING, TRIM BLASTING, ROCK DRAINS, TRAFFIC CONTROL AND OTHER RELATED ITEMS.

LENGTH OF ROADWAY: 1,300 FT 0.246 MILES

LENGTH OF PROJECT: 1,300 FT 0.246 MILES

STATION 13+00
END PROJECT
NH 025-1(41)

VT 103
TO
CAVENDISH



STATION 0+00
BEGIN PROJECT
NH 025-1(41)

VT 103
TO ROCKINGHAM

CONVENTIONAL SYMBOLS

COUNTY LINE	
TOWN LINE	
LIMITS OF ACCESS	
POINT OF ACCESS	
FENCE LINE	
STONE WALL	
TRAVELED WAY	
GUARD RAIL	
RAILROAD	
SURVEY LINE	
CULVERT	
POWER POLE	
TELEPHONE POLE	
TREES	
CONTROL OF ACCESS	
PROPERTY LINE	
R.O.W. TAKING LINE	
SLOPE RIGHTS	
TOP OF CUT	
TOE OF SLOPE	

SURVEYED BY : CLD
SURVEYED DATE : 8-2008

DATUM
VERTICAL NAVD88
HORIZONTAL NAD83/92



0 100 200
SCALE IN FEET

THESE PLANS ARE SUBJECT TO SUCH ENGINEERING CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY ADMINISTRATION OR THE DIRECTOR OF PROGRAM DEVELOPMENT.

CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2006, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JUNE 15, 2006 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

DIRECTOR OF PROGRAM DEVELOPMENT	
APPROVED <i>Richard Phelan</i>	DATE 11/13/09
PROJECT MANAGER : KEN ROBBIE	
PROJECT NAME : CHESTER	
PROJECT NUMBER : NH 025-1 (41)	
SHEET 1 OF 16 SHEETS	

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2.	INDEX OF SHEETS
3.-4.	TYPICAL DETAIL SHEETS
5.	QUANTITY SHEET
6.	GENERAL NOTES
7.	TIE SHEET
8.-10.	LAYOUT SHEETS
11.-12.	EPSC LAYOUT SHEETS
13.-14.	EPSC DETAIL SHEETS
15.	EROSION CONTROL NARRATIVE
16.	TRAFFIC CONTROL SHEET

VAOT DESIGN STANDARDS

A-60	STANDARD TYPICAL FOR SLOPES IN SOLID ROCK EXCAVATION DRILLING AND BLASTING OF SOLID ROCK SUBGRADE	06-01-94
B-5	EMBANKMENT ON EARTH SLOPE, EMBANKMENT ON ROCK SLOPE MUCK EXCAVATION, TYPICAL SLOPE ROUNDING	06-01-94
E-100	CONSTRUCTION APPROACH SIGNS	01-02-04
E-101	CONSTRUCTION SIGN DETAILS	05-30-03
E-102	CONSTRUCTION SIGN DETAILS	06-30-03
E-102A	CONSTRUCTION SIGN DETAILS	05-01-04
E-106	TRAFFIC CONTROL MISCELLANEOUS DETAILS	03-01-04
E-107	DELINEATION, BARRICADES AND DETOURS FOR CONSTRUCTION AREAS	06-30-03
E-110	MAJOR MAINTENANCE OPERATION LANE CLOSURE	08-08-95

PROJECT NAME: CHESTER

PROJECT NUMBER: NH 025-(4)

FILE NAME: d08b036frm.dgn

PROJECT LEADER: K. ROBIE

DESIGNED BY: P. PELOQUIN

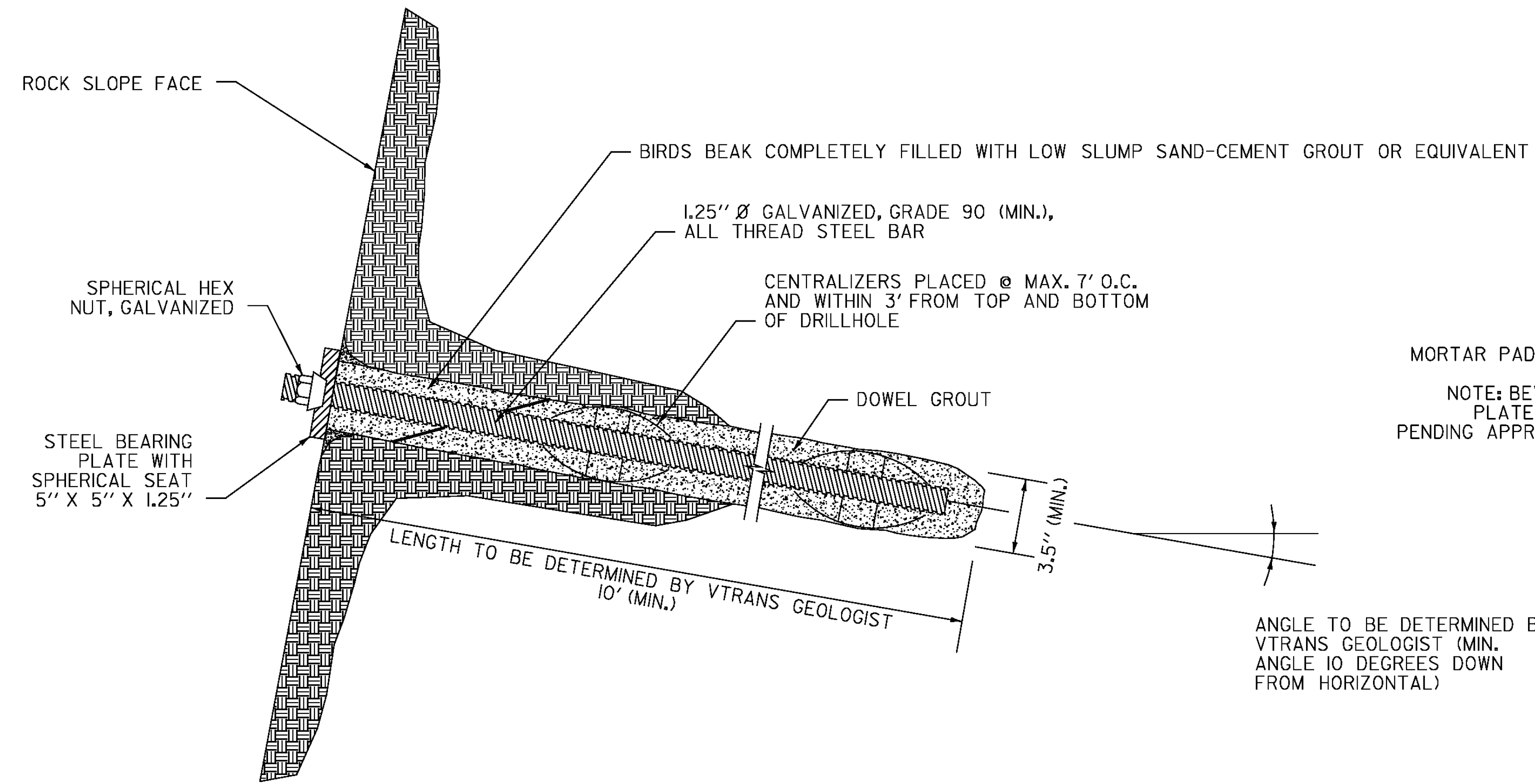
INDEX OF SHEETS

PLOT DATE: 23-NOV-2009

DRAWN BY: P. PELOQUIN

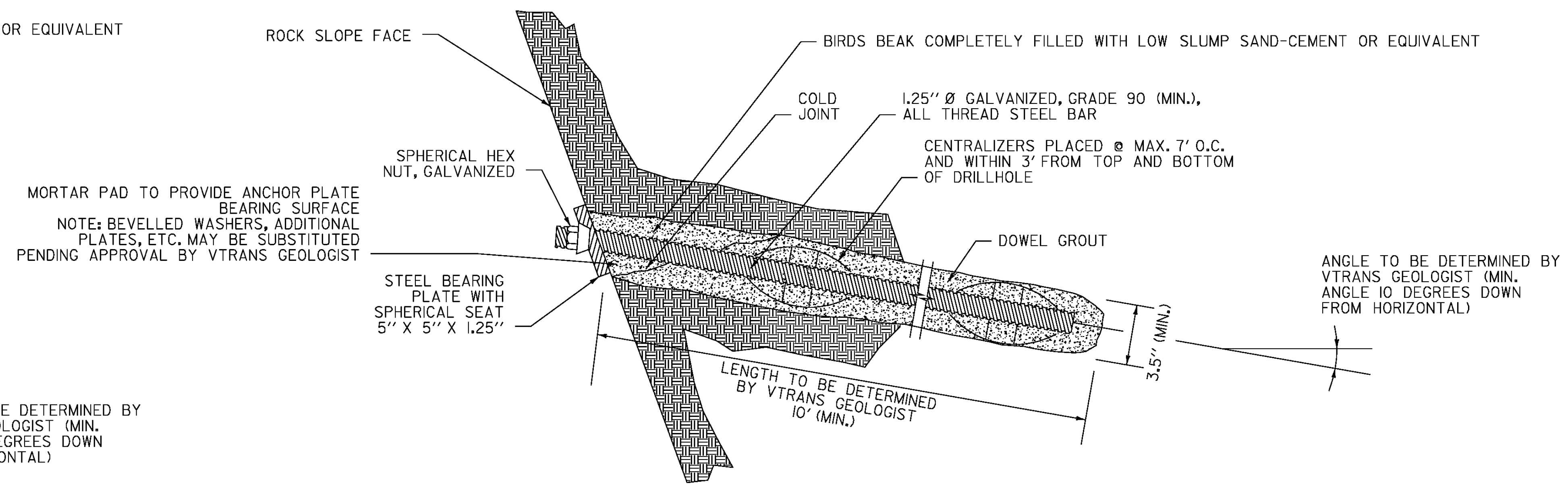
CHECKED BY: S. MENARD

SHEET 2 OF 16



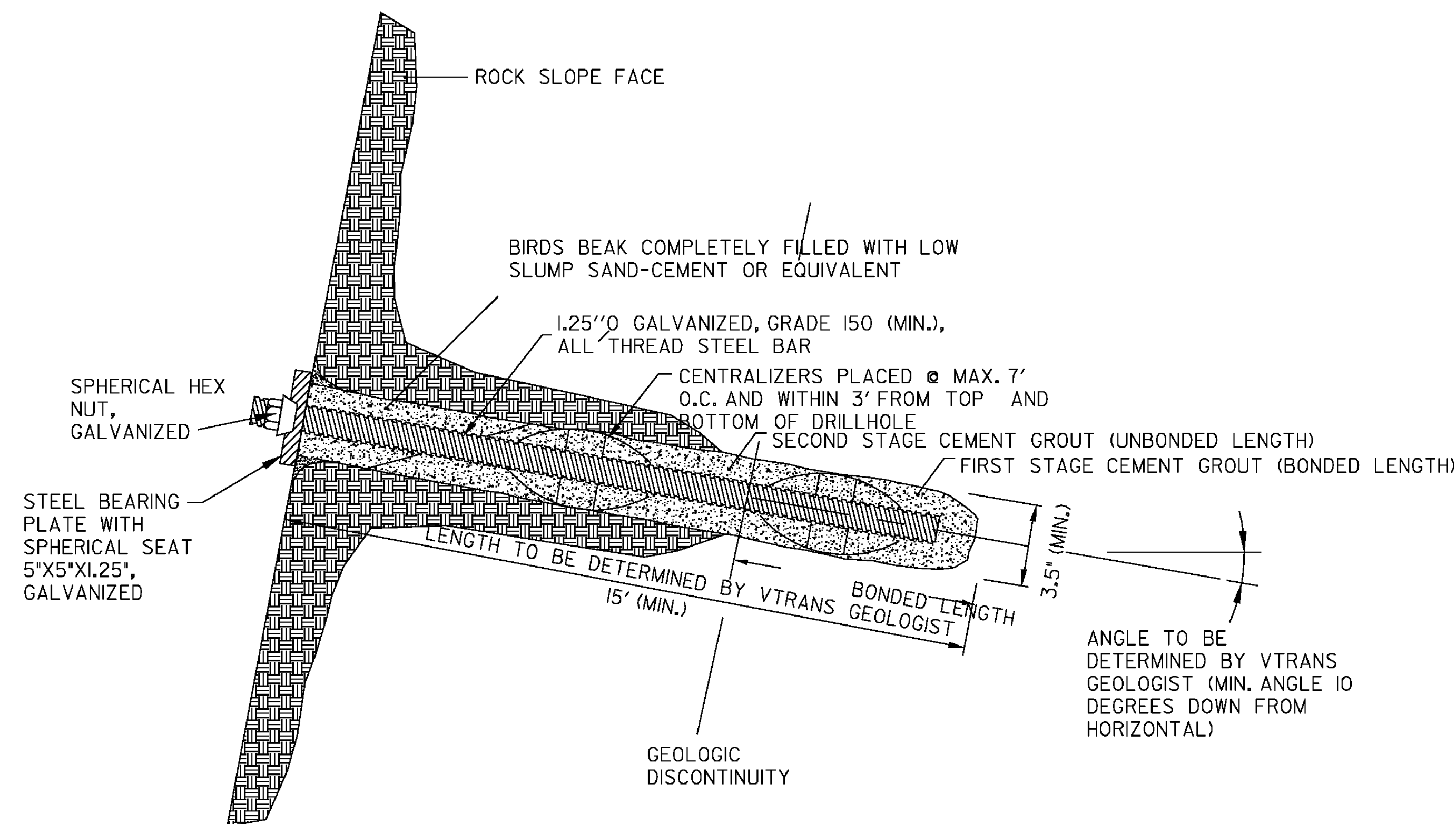
TYPICAL ROCK DOWEL DETAIL

PAY ITEM 900.640 SPECIAL PROVISION (ROCK DOWELING)



TYPICAL ROCK DOWEL DETAIL OVERHANGING CONDITION

PAY ITEM 900.640 SPECIAL PROVISION (ROCK DOWELING)

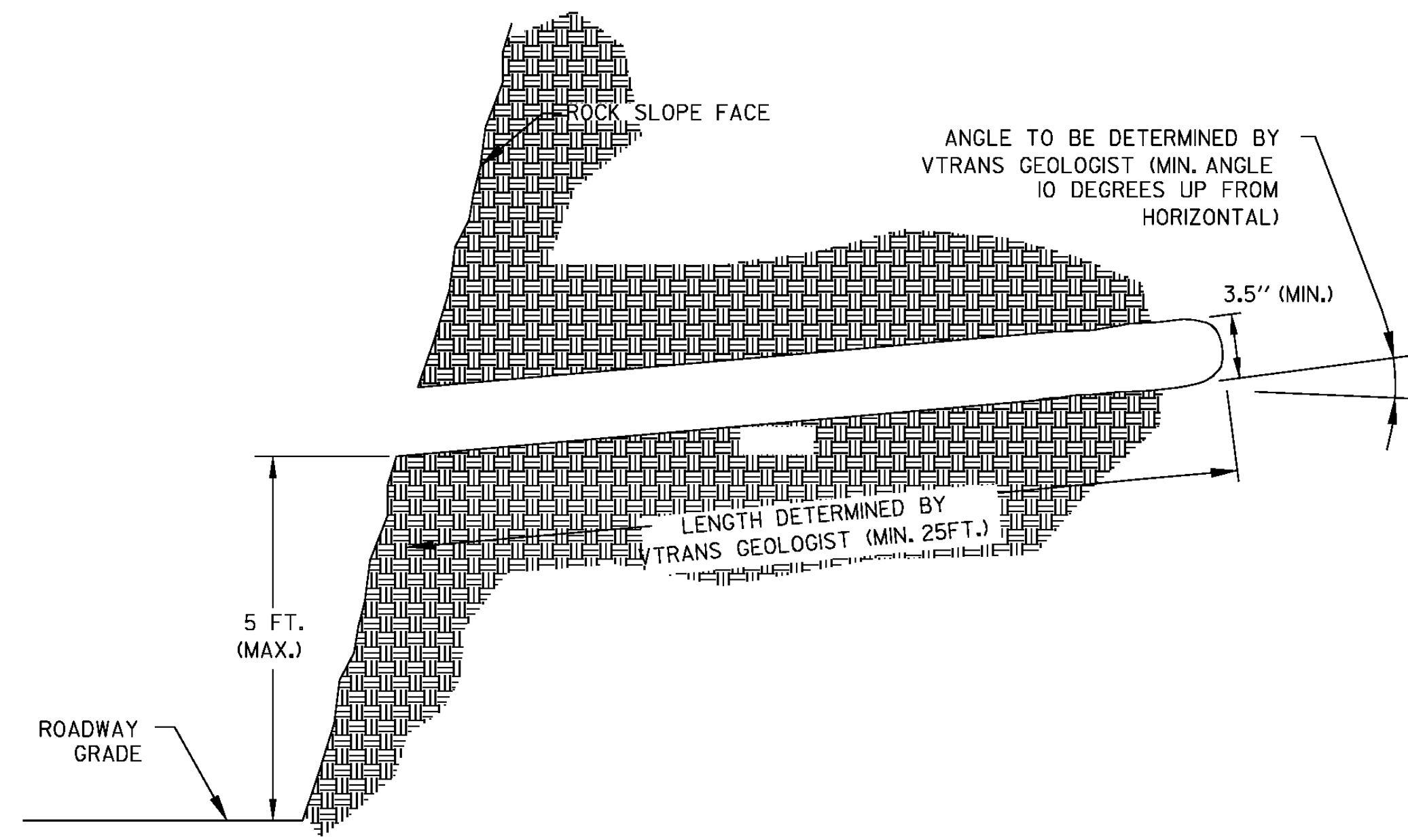


TYPICAL ROCK ANCHOR (TENSIONED ROCK BOLT) DETAIL

PAY ITEM 900.640 SPECIAL PROVISION (ROCK ANCHOR)

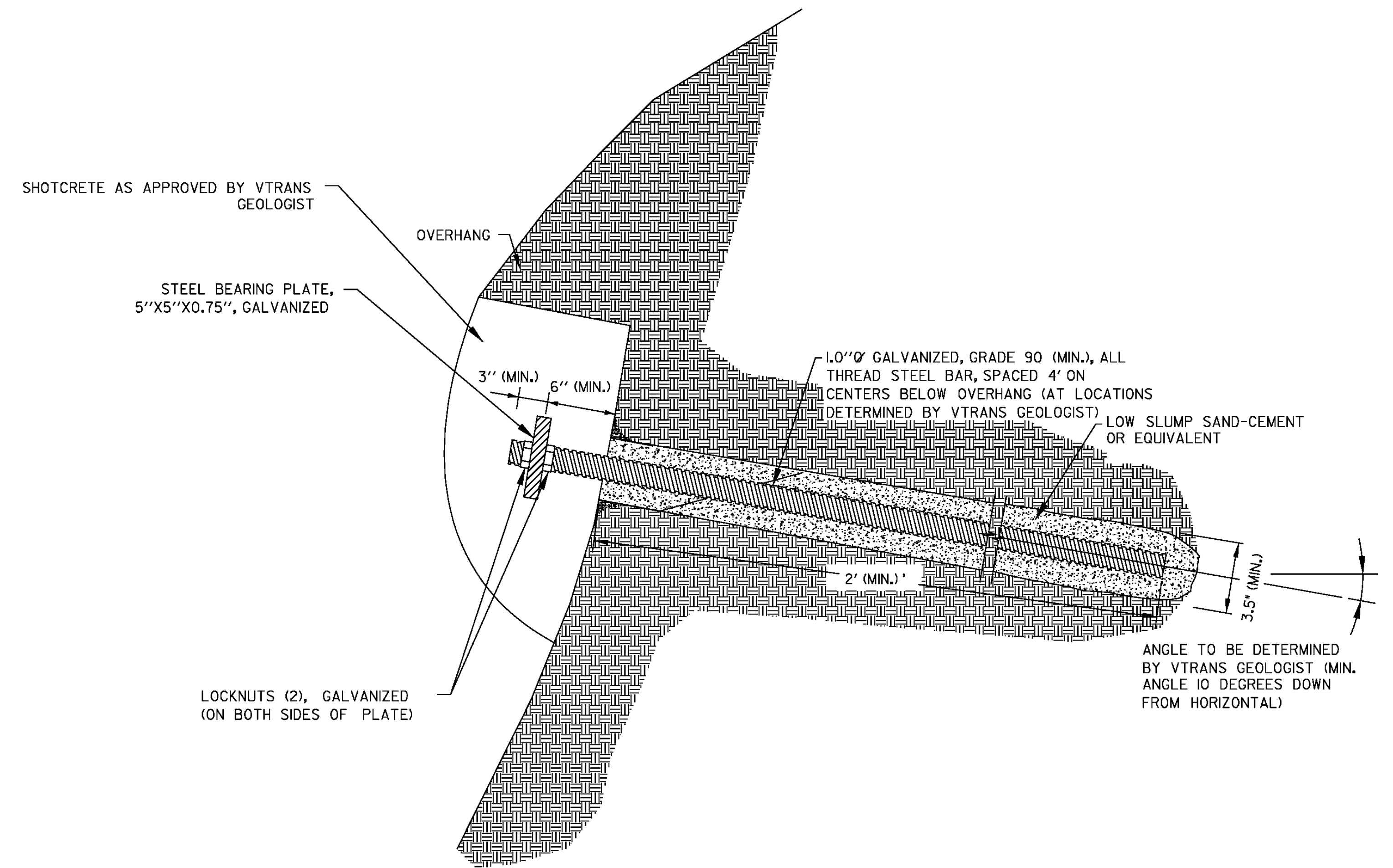
NOT TO SCALE

PROJECT NAME:	CHESTER	PLOT DATE:	23-NOV-2009
PROJECT NUMBER:	NH 025-1(41)	DRAWN BY:	P. PELOQUIN
FILE NAME:	d08b036det.dgn	CHECKED BY:	S. MENARD
PROJECT LEADER:	K. ROBIE	TYPICAL DETAIL SHEET 1	SHEET 3 OF 16
DESIGNED BY:	P. PELOQUIN		



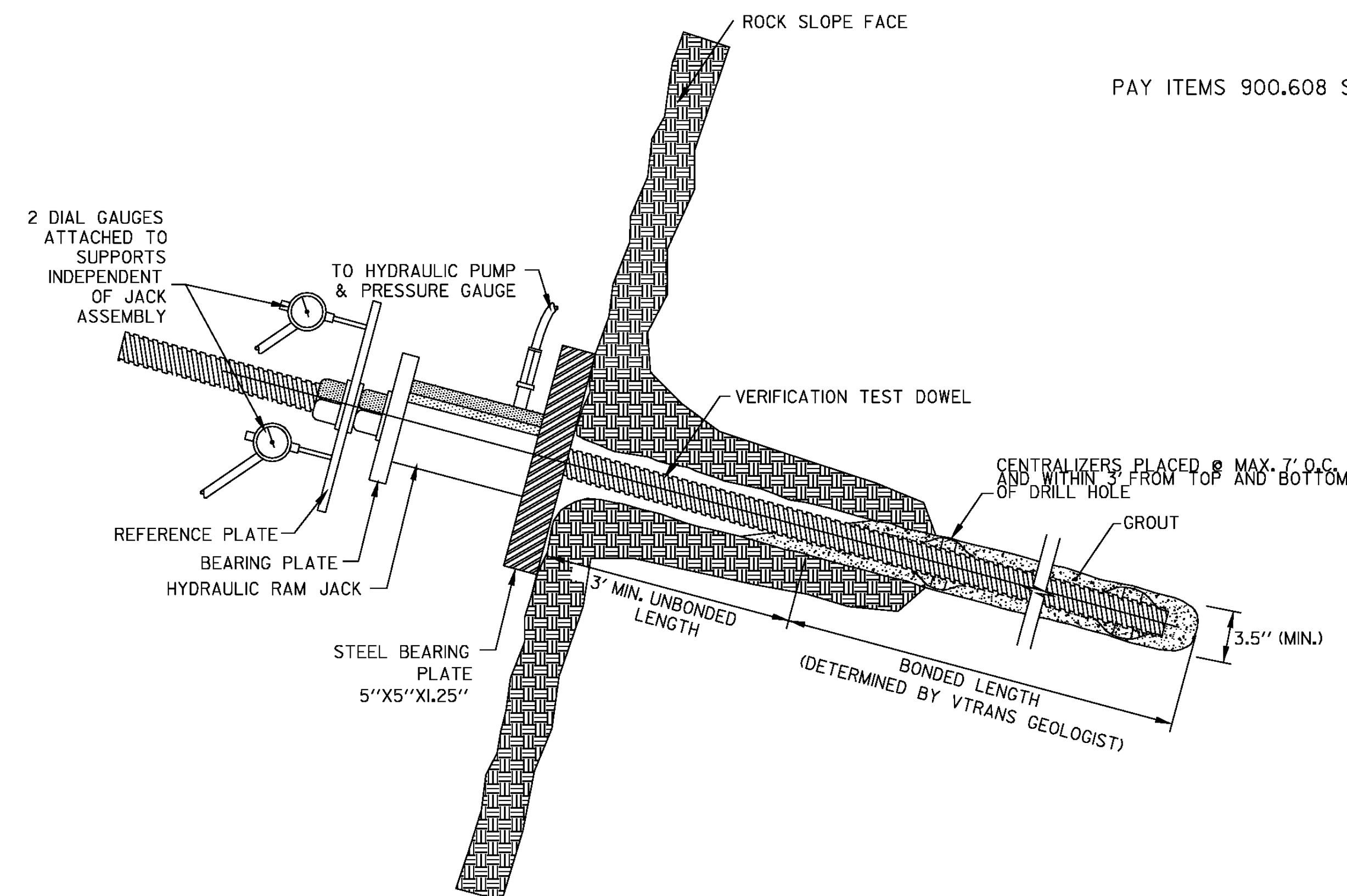
TYPICAL ROCK DRAIN DETAIL

PAY ITEM 900.640 SPECIAL PROVISION (ROCK DRAIN)



**TYPICAL SHOTCRETE BUTTRESS
DETAIL WITH ROCK NAILS FOR
SHOTCRETE**

PAY ITEMS 900.608 SPECIAL PROVISION (SHOTCRETE) AND 900.640 SPECIAL PROVISION (ROCK NAIL FOR SHOTCRETE)



**TYPICAL PULL-OUT TEST
ROCK DOWEL DETAIL**

PAY ITEM 900.640 SPECIAL PROVISION (ROCK DOWEL TESTING)

NOT TO SCALE

PROJECT NAME:	CHESTER	PLOT DATE:	23-NOV-2009
PROJECT NUMBER:	NH 025-(41)	DRAWN BY:	P. PELOQUIN
FILE NAME:	d08b036det.dgn	CHECKED BY:	S. MENARD
PROJECT LEADER:	K. ROBIE	TYPICAL DETAIL SHEET 2	SHEET 4 OF 16

QUANTITY SHEET 1

SUMMARY OF ESTIMATED QUANTITIES											TOTALS		DESCRIPTIONS				DETAILED SUMMARY OF QUANTITIES		
									ROADWAY	EROSION CONTROL	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES	UNIT	ITEMS
									1		1		LS	CLEARING AND GRUBBING, INCLUDING INDIVIDUAL TREES AND STUMPS	201.10				
									1		1		CY	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)	204.22				
									10		10		HR	POWER BROOM RENTAL, TYPE II	608.31				
									2		2		EACH	ENERGY ABSORPTION ATTENUATOR	621.56				
									1900		1900		LF	TEMPORARY TRAFFIC BARRIER	621.90				
									3800		3800		LF	REMOVE AND RESET TEMPORARY TRAFFIC BARRIER	621.95				
									250		250		HR	UNIFORMED TRAFFIC OFFICERS	630.10				
									500		500		HR	FLAGGERS	630.15				
									1		1		LS	MOBILIZATION/DEMOBILIZATION	635.11				
									1		1		LS	TRAFFIC CONTROL	641.10				
									2		2		EACH	PORTABLE CHANGEABLE MESSAGE SIGN	641.15				
										100	100		LB	SEED	651.15				
										700	700		LB	FERTILIZER	651.18				
										5	5		TON	AGRICULTURAL LIMESTONE	651.20				
										5	5		TON	HAYMULCH	651.25				
									1000		1000		CY	TOPSOIL	651.35				
										1	1		LS	EPSC PLAN	652.10				
										10	10		HR	MONITORING EPSC PLAN	652.20				
										1	1		LU	MAINTENANCE OF EPSC PLAN (N.A.B.I.)	652.30				
										4000	4000		SY	TEMPORARY EROSION MATTING	653.20				
										33	33		CY	TEMPORARY STONE CHECK DAM, TYPE I	653.25				
										2	2		EACH	INLET PROTECTION DEVICE, TYPE I	653.40				
										1400	1400		LF	PROJECT DEMARCATION FENCE	653.55				
									1200		1200		CY	SPECIAL PROVISION (REMOVAL OF LEDGE SALVAGE MATERIAL)	900.608				
									10		10		CY	SPECIAL PROVISION (SHOTCRETE)	900.608				
									150		150		CY	SPECIAL PROVISION (TRIM BLASTING, TRUCK MEASUREMENT)	900.608				
									80		80		HR	SPECIAL PROVISION (HAND SCALING)	900.630				
									100		100		LF	SPECIAL PROVISION (ROCK ANCHOR)	900.640				
									1560		1560		LF	SPECIAL PROVISION (ROCK DOWELING)	900.640				
									500		500		LF	SPECIAL PROVISION (ROCK DRAIN)	900.640				
									100		100		LF	SPECIAL PROVISION (ROCK NAIL FOR SHOTCRETE)	900.640				
									1		1		LS	SPECIAL PROVISION (ROCK ANCHOR TESTING)	900.645				
									1		1		LS	SPECIAL PROVISION (ROCK DOWEL TESTING)	900.645				

PROJECT NAME: CHESTER
 PROJECT NUMBER: NH 025-1(4)
 FILE NAME: d08b036frm.dgn
 PROJECT LEADER: K. ROBIE
 DESIGNED BY: P. PELOQUIN
 QUANTITY SHEET
 PLOT DATE: 23-NOV-2009
 DRAWN BY: P. PELOQUIN
 CHECKED BY: S. MENARD
 SHEET 5 OF 16

GENERAL NOTES

1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE STATE OF VERMONT AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, DATED 2006 AND ITS LATEST REVISIONS.
2. EXISTING DIMENSIONS SHOWN IN THE PLANS WERE DEVELOPED FROM LIMITED FIELD SURVEY AND ORIGINAL DESIGN PLANS AND ARE SHOWN FOR INFORMATION ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD CHECKING ALL DIMENSIONS APPLICABLE TO THIS WORK.
3. IN ACCORDANCE WITH SUBSECTION 107.12 THE CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE THE EXISTING PAVEMENT, PAVEMENT MARKINGS, GUARDRAIL, PIPES, DROP INLETS, CONCRETE SIGN FOUNDATIONS AND HEADWALLS FROM DAMAGE. THE CONTRACTOR, AT NO ADDITIONAL COMPENSATION, SHALL REPAIR ALL EXISTING PAVEMENT, PAVEMENT MARKINGS, GUARDRAIL, PIPES, DROP INLETS, CONCRETE SIGN FOUNDATIONS AND HEADWALLS DAMAGED DURING CONSTRUCTION ACTIVITIES TO THE SATISFACTION OF THE ENGINEER.
4. THE CONTRACTOR SHALL REMOVE, STOCKPILE, AND REINSTALL SIGNS, MILE MARKER POSTS, AND DELINEATORS WHERE REQUIRED WORK MAY CAUSE DAMAGE TO THEM.

LOCATIONS OF BURIED CABLE WITHIN THE PROJECT AREA SHALL BE VERIFIED BY DIG SAFE
5. PRIOR TO THE START OF CONSTRUCTION.

LEDGE REMOVAL NOTES

1. IT IS STRONGLY RECOMMENDED THAT ALL BIDDING CONTRACTORS VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH THE CURRENT SITE CONDITIONS AND ACCESSIBILITY PRIOR TO PREPARATION OF A BID.
2. FOR ALL LEDGE CUT SLOPES THROUGHOUT THE PROJECT AREA (MM. 8.114 TO MM. 8.360) THE LIMITS OF CLEARING SHALL START AT THE DITCH LINE, EXTEND UP THE FACE OF THE LEDGE AND CONTINUE FOR A DISTANCE UP TO 20 FEET BEYOND THE FINAL CREST OF THE LEDGE (NOT TO EXTEND PAST EXISTING STATE ROW) AS DIRECTED BY THE VTRANS GEOLOGIST OR ENGINEER.
3. ALL VEGETATION SHALL BE CLEARED AND DISPOSED OF IN ACCORDANCE WITH SECTION 201. PAYMENT WILL BE MADE UNDER CONTRACT ITEM 201.10 "CLEARING AND GRUBBING INCLUDING INDIVIDUAL TREES AND STUMPS."

THE LIMIT OF LEDGE REMOVAL IS SHOWN IN THESE PLANS. THE CONTRACTOR SHALL PERFORM ANY ADDITIONAL WORK AT THE UNIT PRICES PROVIDED IN THE CONTRACT. LEDGE REMOVAL SHALL BE COMPLETED THROUGH MEANS OF TRIM BLASTING AND HAND SCALING.

A. ALL LEDGE REMOVAL SHALL BE CONDUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS BY PERSONNEL EXPERIENCED WITH THE REMOVAL METHODS BEING USED.

B. LEDGE REMOVAL USING METHODS OF TRIM BLASTING AND HAND SCALING SHALL BE PAID FOR UNDER CONTRACT ITEMS "900.608 SPECIAL PROVISION (TRIM BLASTING, TRUCK MEASUREMENT)" AND "900.630 - SPECIAL PROVISION (HAND SCALING)".
5. PERIODS OF BLASTING OPERATIONS SHALL BE LIMITED TO MONDAY THROUGH SATURDAY UNLESS OTHERWISE APPROVED BY THE ENGINEER.
6. ALL "REMOVAL OF SALVAGE MATERIAL" SHALL BE SALVAGED TO THE CHESTER AND SPRINGFIELD VERMONT AGENCY OF TRANSPORTATION DISTRICT FACILITIES. COORDINATION SHALL BE MADE IN ADVANCE OF THE DELIVERY TO IDENTIFY LOCATIONS AND THE AMOUNT TO BE DELIVERED AT EACH FACILITY. COORDINATION SHALL BE MADE THROUGH BRUCE NICHOLS, DISTRICT 3 GENERAL MAINTENANCE MANAGER [TEL.: (802) 728-4534].
7. THE CONTRACTOR SHALL TAKE CARE DURING THE LEDGE REMOVAL NOT TO DAMAGE OR DISTURB EXISTING UTILITIES WITHIN THE PROJECT AREA.
8. PRIOR TO COMMENCEMENT OF THE LEDGE REMOVAL ACTIVITIES THE CONTRACTOR SHALL CONTACT THE COTA & COTA HEATING COMPANY REGARDING THEIR FACILITIES LOCATED ADJACENT TO THE VERMONT 103 PROJECT, AT 1-888-268-2645, OR 4 GREEN STREET BELLOWS FALLS, VT 05101, TO INFORM THEM OF THE SCOPE AND NATURE OF THE PROJECT.

SEEDING FORMULA **RURAL AREAS**

<u>% WT.</u>	<u>LBS./A.</u>	<u>NAME</u>	<u>PUR %</u>	<u>GERM %</u>
37.5	22.5	CREEPING RED FESCUE	98	85
37.5	22.5	TALL FESCUE	95	90
5.0	3.0	RED TOP	95	90
15.0	9.0	BIRDSFOOT TREFOIL	98	85
5.0	3.0	ANNUAL RYEGRASS	95	85
100.0	60.0			

GENERAL NOTES

SEED MIXTURE: SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS SEED.

SEED: TO BE APPLIED PER SEEDING FORMULAS OR AS DIRECTED BY THE ENGINEER.

FERTILIZER: FORMULA 10-20-10, TO BE USED WITH SEED, APPLIED AT THE RATE OF 500 LBS./ACRE. (HYDRO SEEDERS MAY USE 19-19-19 FORMULA).

AGRICULTURAL LIMESTONE: TO BE APPLIED AT THE RATE OF 2 TONS/ACRE, OR AS DIRECTED BY THE ENGINEER.

HAY MULCH: TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE, OR AS DIRECTED BY THE ENGINEER.

TOPSOIL: TO BE USED WITH SEED AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER. TOPSOIL SHALL BE APPLIED AT A MAXIMUM DEPTH OF 2 INCHES.

SLOPE ROUNDING: ALL EARTH CUT SLOPES TO BE ROUNDED IN ACCORDANCE WITH STANDARD SHEET B - 5.

PROJECT NAME: CHESTER

PROJECT NUMBER: NH 025-(41)

FILE NAME: d08b036frm.dgn

PROJECT LEADER: K. ROBIE

DESIGNED BY: P. PELOQUIN

GENERAL NOTES

PLOT DATE: 23-NOV-2009

DRAWN BY: P. PELOQUIN

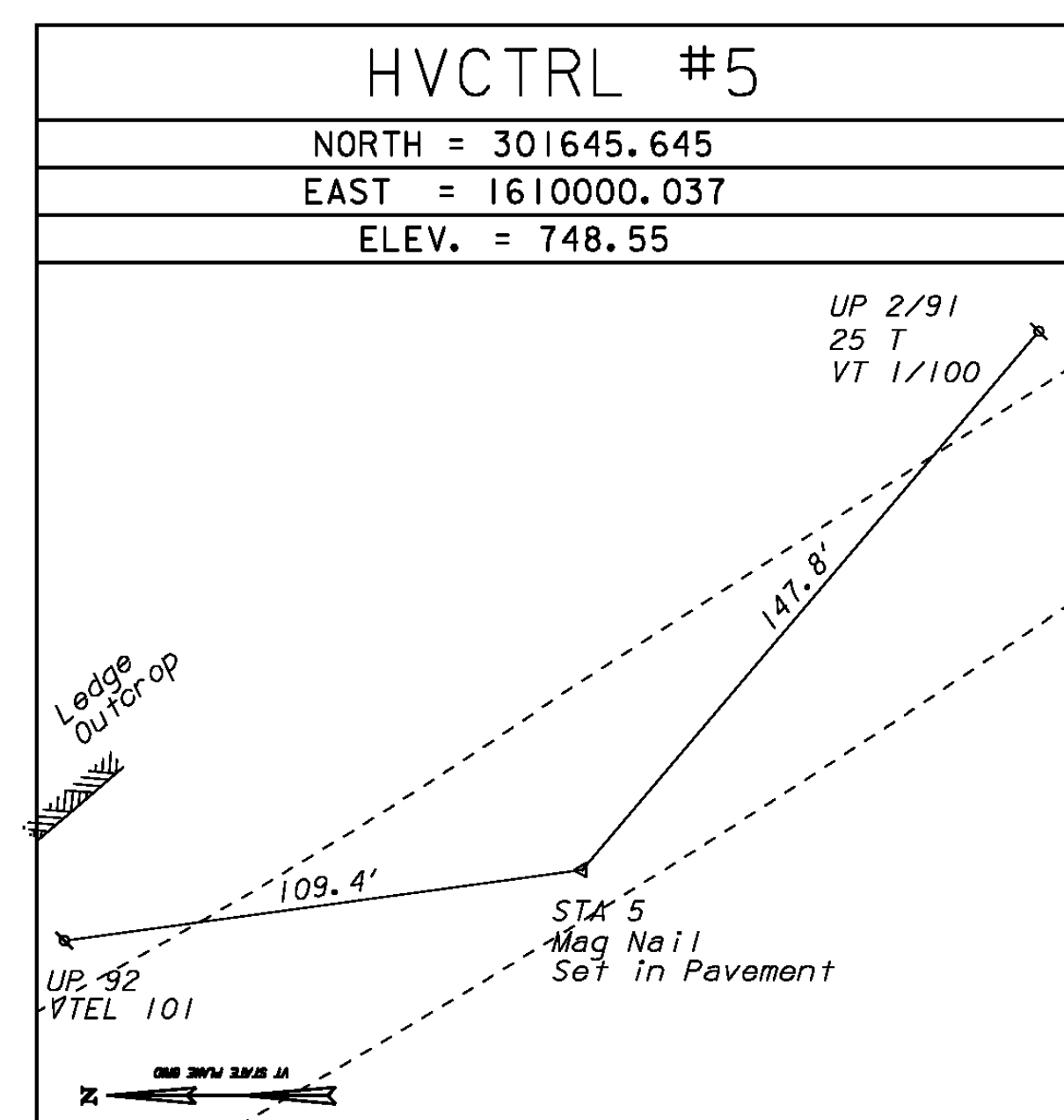
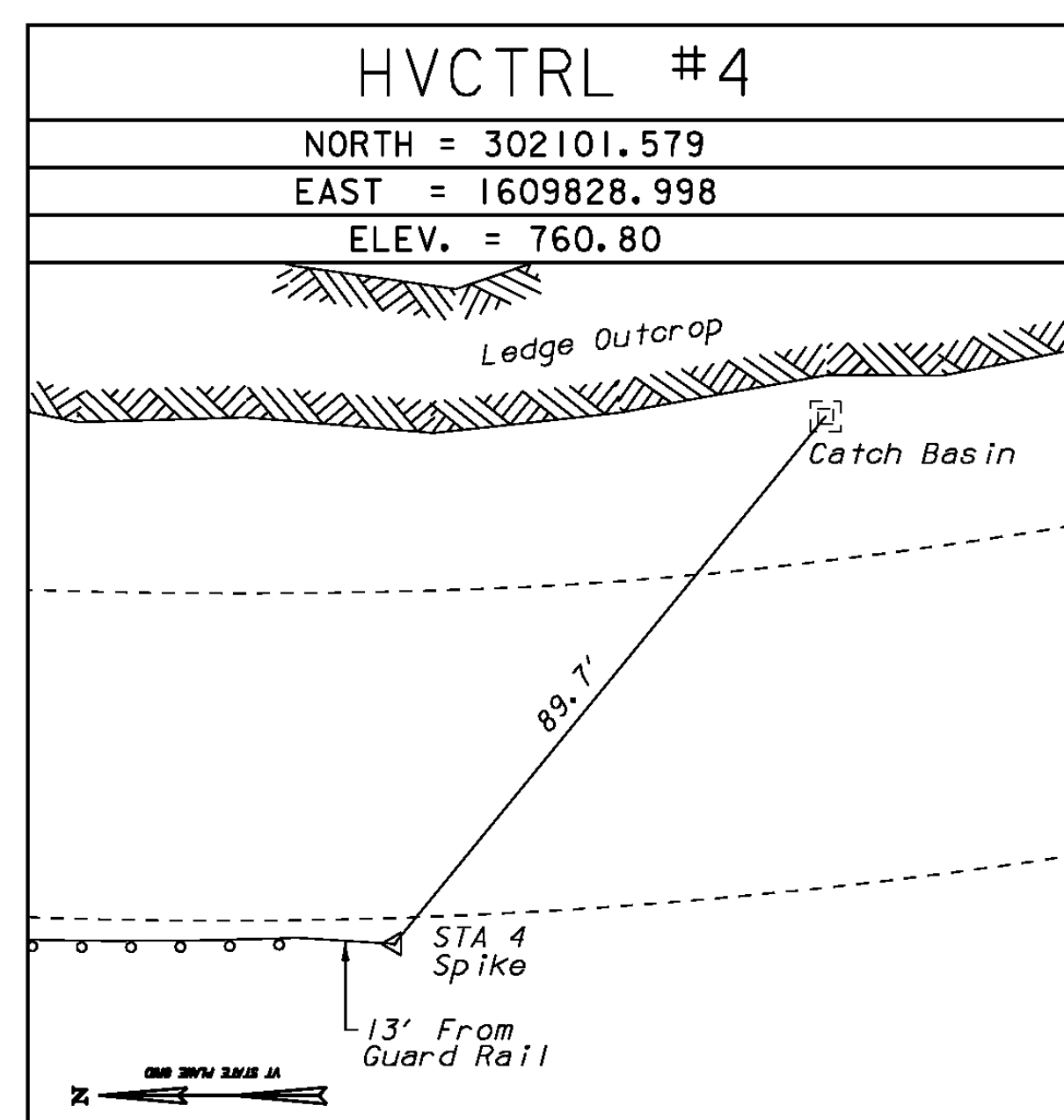
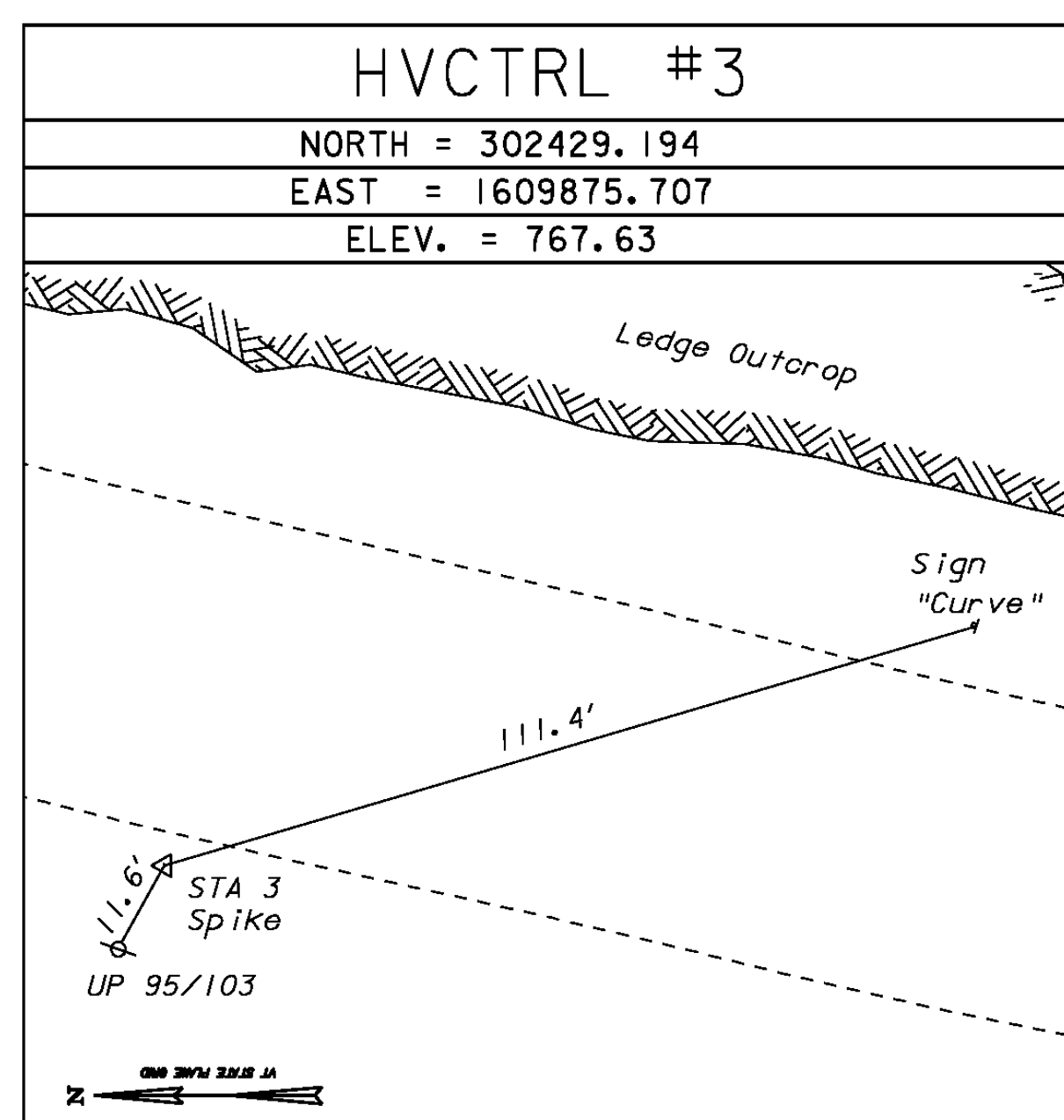
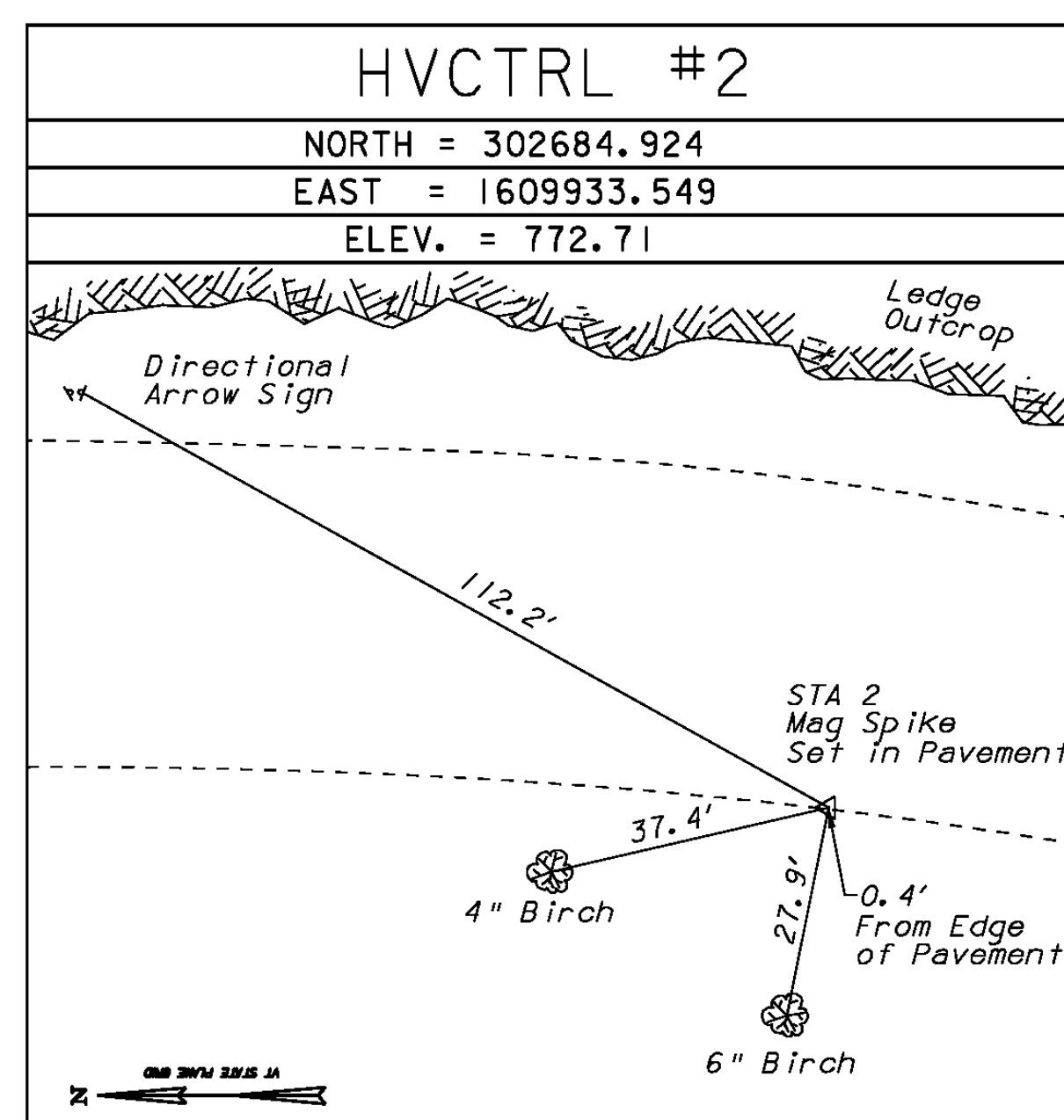
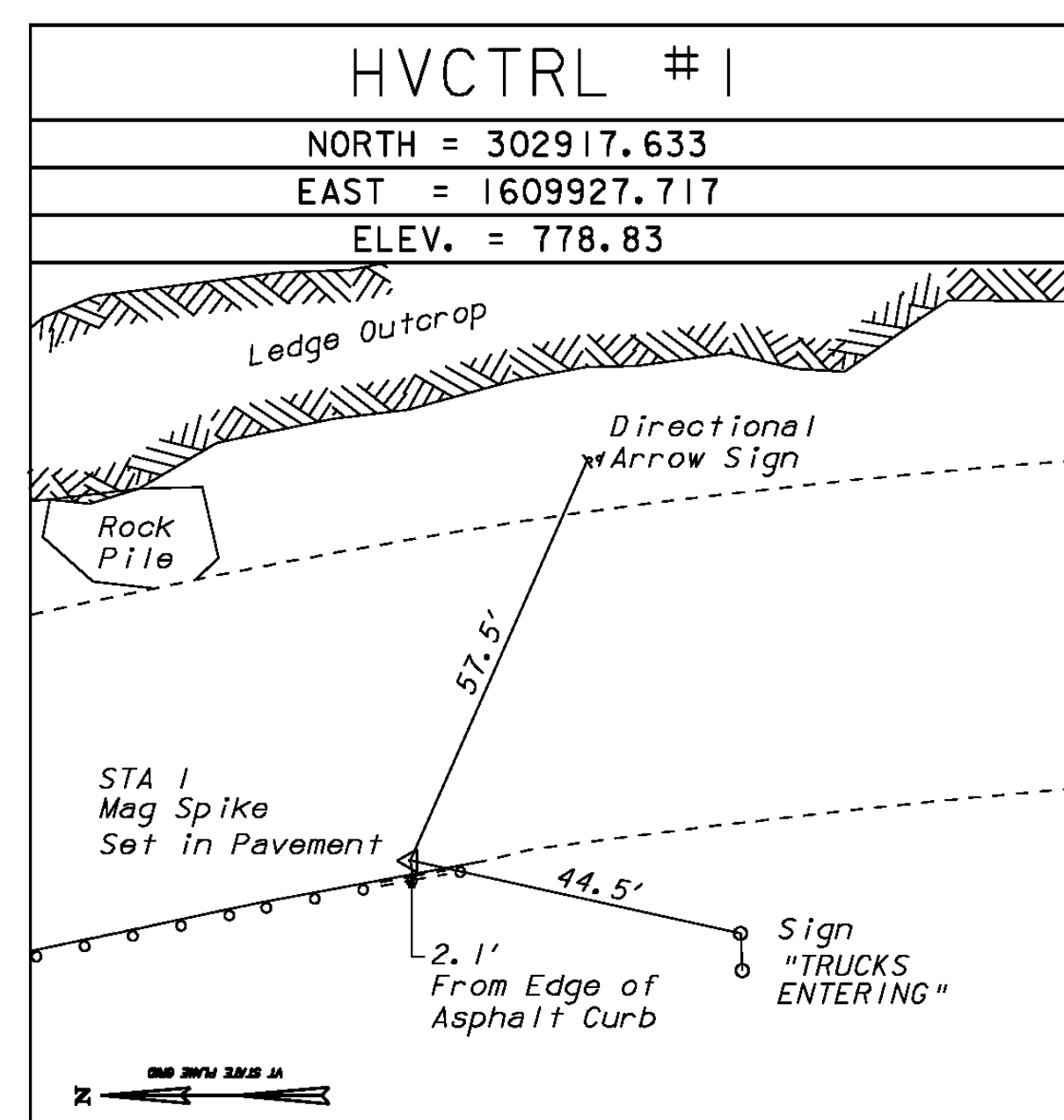
CHECKED BY: S. MENARD

SHEET 6 OF 16

HVCTRL #6

Standard Disk Stamped
 "DOTTAVIO 1995"
 NORTH = 275233.887
 EAST = 1619439.549
 ELEV. = 563.352'

GENERAL LOCATION, 10.7 MI (17.2 KM) NORTHWEST OF BELLOWS FALLS, 6 MI (9.7 KM) SOUTHWEST OF SPRINGFIELD AND 5.5 MI (8.9 KM) NORTH OF GRAFTON. TO REACH FROM THE JUNCTION OF VT ROUTE 103 AND VT ROUTE 11 (EAST) IN CHESTER PROCEED SOUTHEAST ON VT ROUTE 103 FOR .5 MI (0.8 KM) TO THE MARK ON THE RIGHT (WEST). THE MARK IS 64 FT (19.5 M) NORTHEAST OF THE NORTHEAST CORNER OF DIAMOND JIMS LOG CABIN RESTAURANT, 34.5 FT (10.5 M) WEST OF AND 1 FT (0.3 M) HIGHER THAN THE CENTERLINE OF ROUTE 103, 19 FT (5.8 M) SOUTH OF THE CENTERLINE OF THE NORTHERLY PAVED DRIVE ENTRANCE TO THE SAID RESTAURANT, 10 FT (3.0 M) NORTH OF THE NORTHEAST CORNER OF A PAVED PARKING LOT, AND 6.2 FT (1.9 M) NORTHEAST OF UTILITY POLE NUMBER 79-1 AND A FIBERGLASS WITNESS POST.



NORTH = -----
EAST = -----
ELEV. = -----

NORTH = -----
EAST = -----
ELEV. = -----

NORTH = -----
EAST = -----
ELEV. = -----

NORTH = -----
EAST = -----
ELEV. = -----

NORTH = -----
EAST = -----
ELEV. = -----

DATUM	
VERTICAL	NAVD 1988
HORIZONTAL	NAD 1983
ADJUSTMENT	1992

PROJECT NAME:	CHESTER	PLOT DATE:	23-NOV-2009
PROJECT NUMBER:	NH 025-(41)	DRAWN BY:	D. HAMER
FILE NAME:	D08B036+1e.dgn	CHECKED BY:	G. BROWN
PROJECT LEADER:	K. ROBIE	TIE SHEET	SHEET 7 OF 16
DESIGNED BY:	P. PELOQUIN		



STA. 4+50

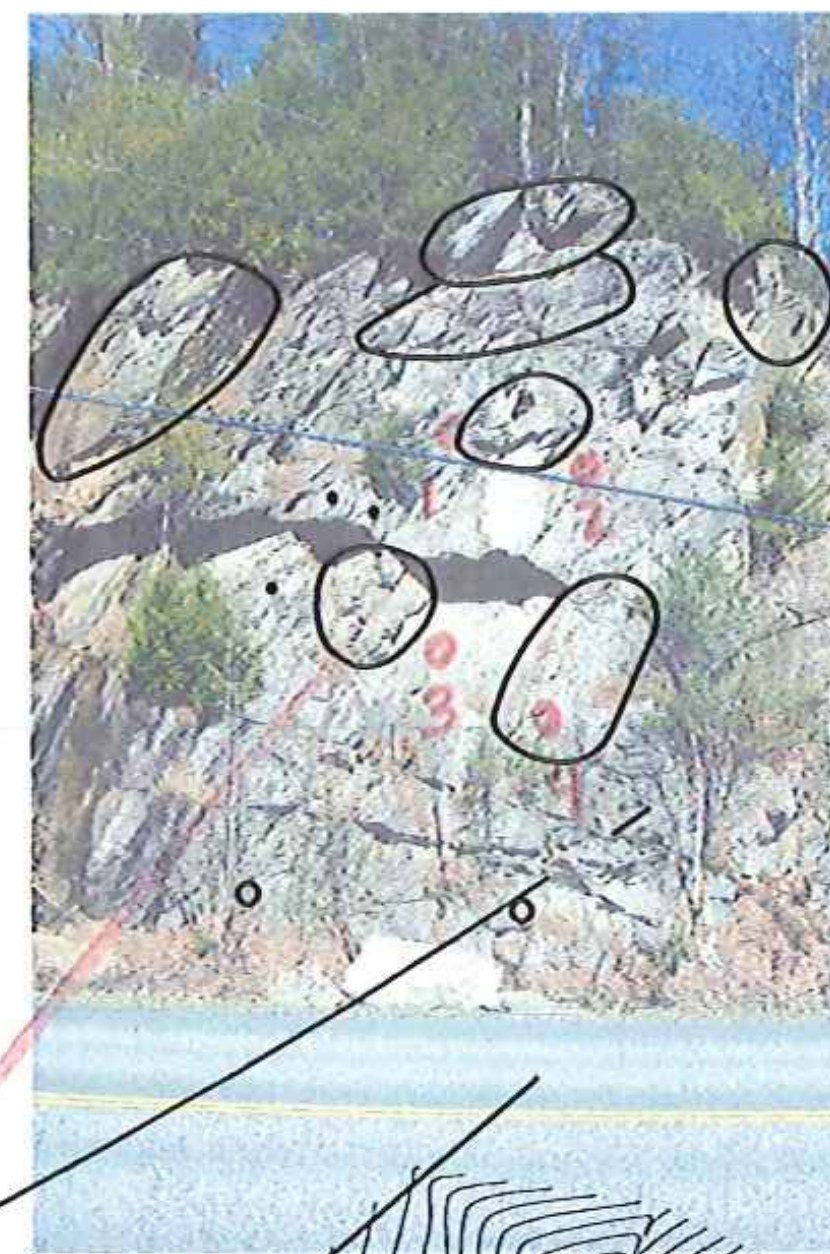


STA. 3+50

1 = 20'
2 = 15'
3 = 10'

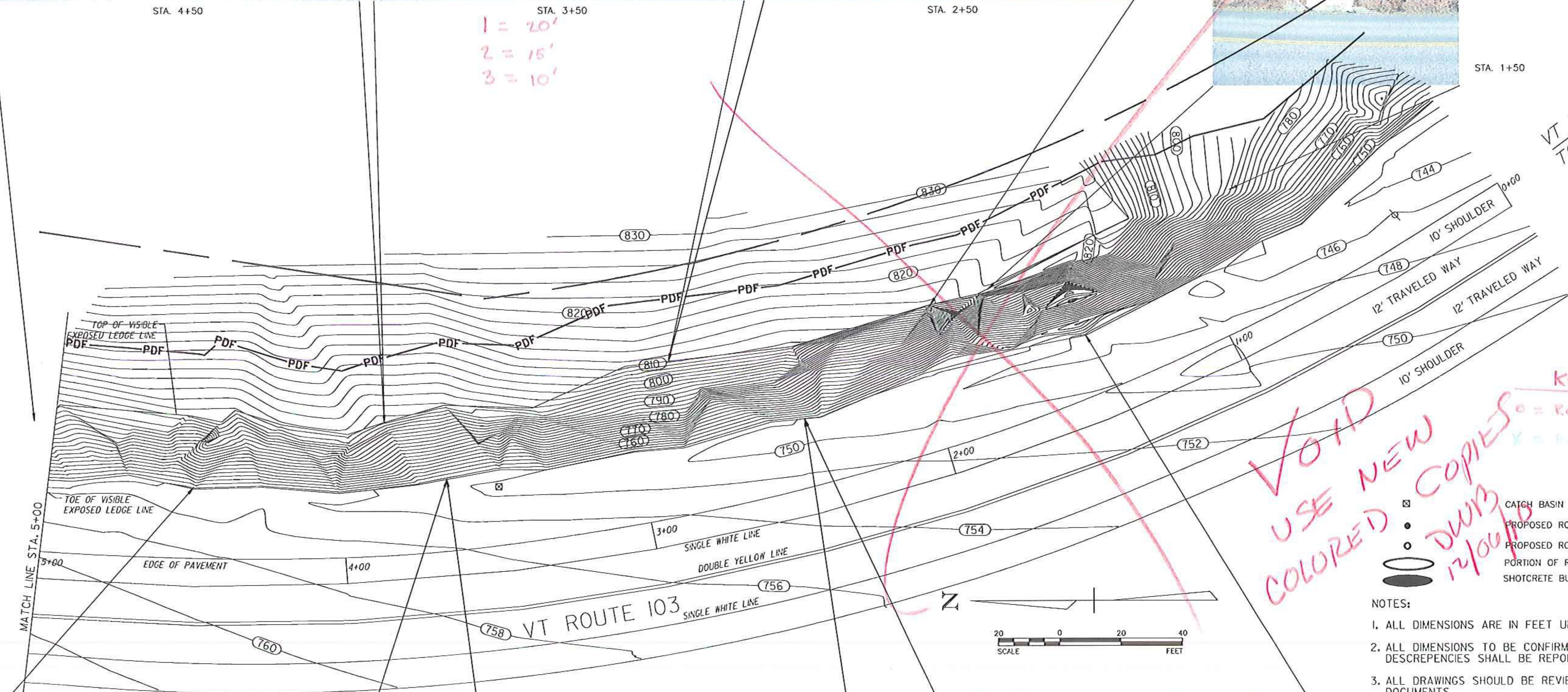


STA. 2+50



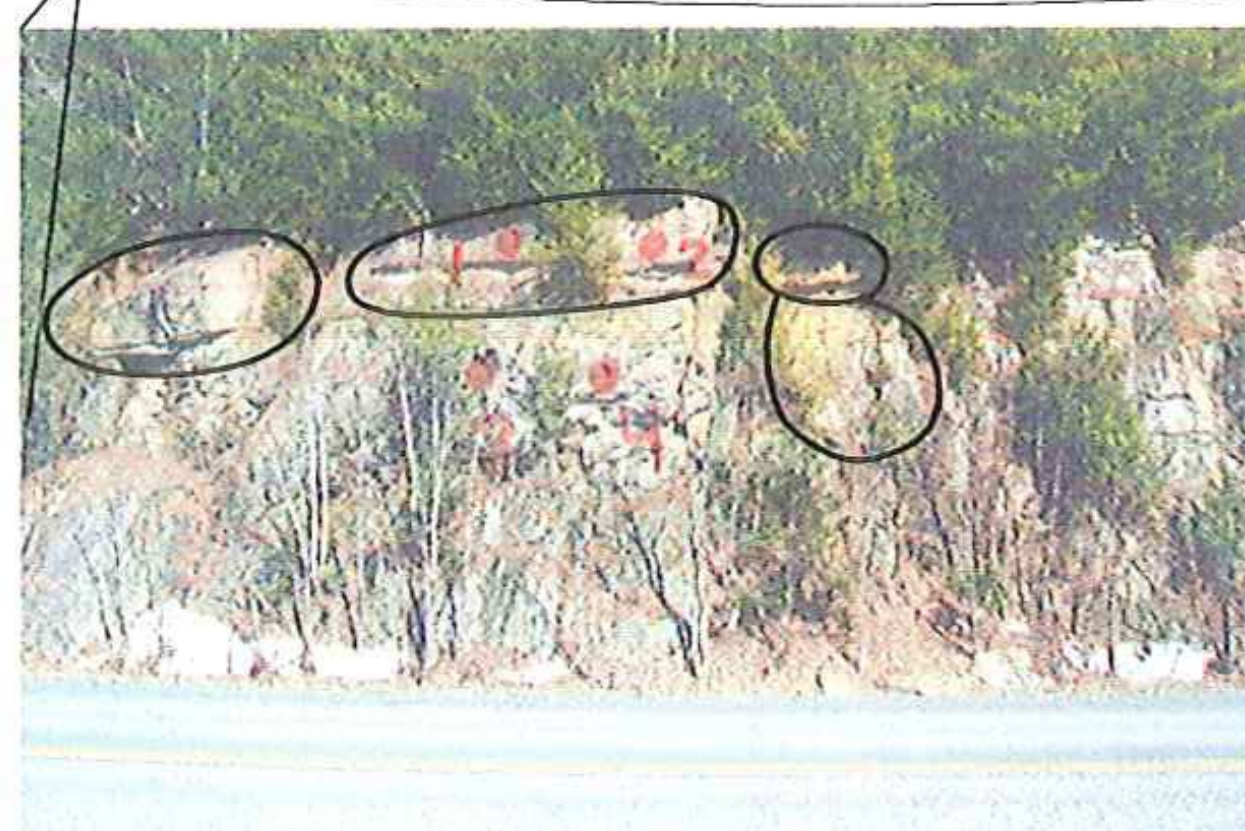
1 = 15'
2 = 15'
3 = 10'
4 = 10'

STA. 1+50



VT 103
TO ROCKINGHAM

VOID
USE NEW COLORED COPIES
12/10/09
Key
o = Rock Dowel
x = Rock Dowel



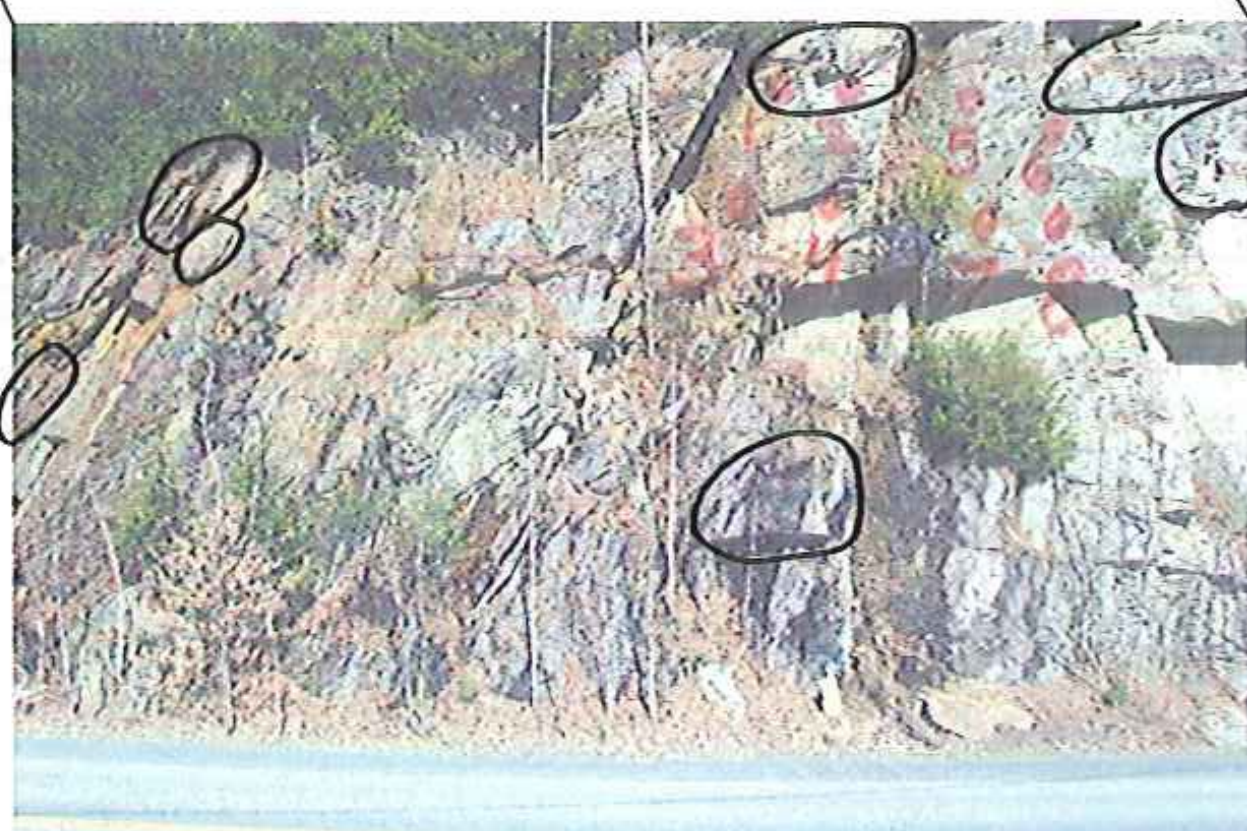
STA. 4+00

1 = 15'
2 = 15'
3 = 15'
4 = 15'



STA. 3+00

1 = 15'



STA. 2+00

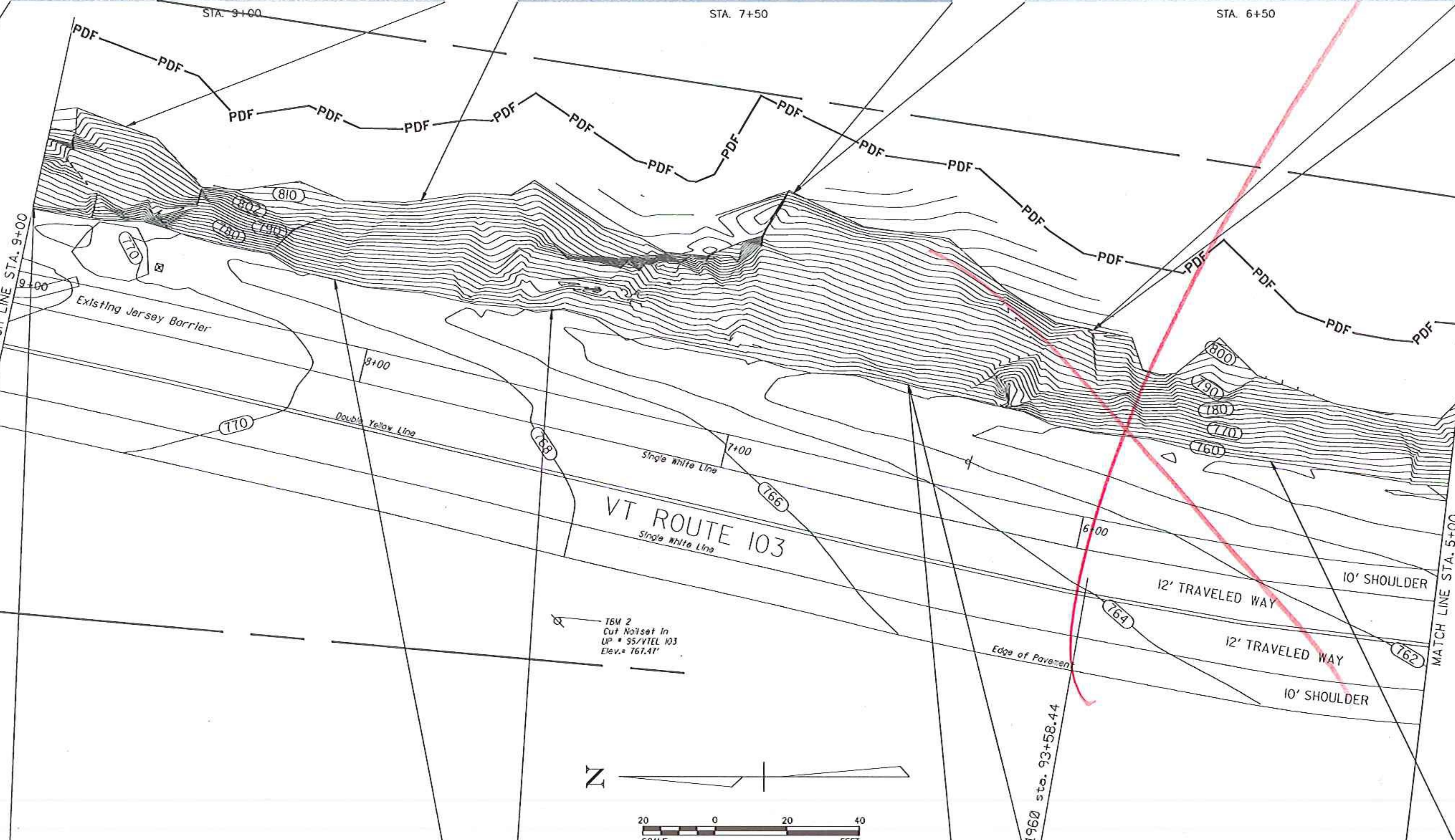
1 = 20'
2 = 20'
3 = 20'
4 = 20'
5 = 20'
6 = 20'
7 = 20'
8 = 20'

- NOTES:
- ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
 - ALL DIMENSIONS TO BE CONFIRMED ON SITE BY CONTRACTOR. ALL DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
 - ALL DRAWINGS SHOULD BE REVIEWED IN CONJUNCTION WITH CONTRACT DOCUMENTS.
 - ALL WORK TO BE PERFORMED IN ACCORDANCE WITH CONTRACT DOCUMENTS.
 - CONTRACTOR SHALL IDENTIFY ALL UNDERGROUND UTILITIES, USING DIGSAFE, PRIOR TO DRILLING OR OTHER SUBSURFACE ACTIVITIES.
 - FINAL LOCATIONS OF ROCK DOWELS SHALL BE DETERMINED BY THE VTRANS GEOLOGIST AFTER SCALING.
 - DURING INSTALLATION, VTRANS GEOLOGIST MAY IDENTIFY ADDITIONAL STABILIZATION LOCATIONS NOT ON THIS DRAWING.
 - DIGITAL PHOTOGRAPHS TAKEN APRIL 16, 2008

PROJECT NAME:	CHESTER	PLOT DATE:	23-NOV-2009
PROJECT NUMBER:	NH 025-(41)	DRAWN BY:	P. PELOQUIN
FILE NAME:	d08b036nul.dgn	CHECKED BY:	S. MENARD
PROJECT LEADER:	K. ROBIE	LAYOUT SHEET 1	SHEET 8 OF 16
DESIGNED BY:	P. PELOQUIN		



1 = 10'
2 = 15'
3 = 15'
4 = 15'
5 = 15'
6 = 15'



VOID

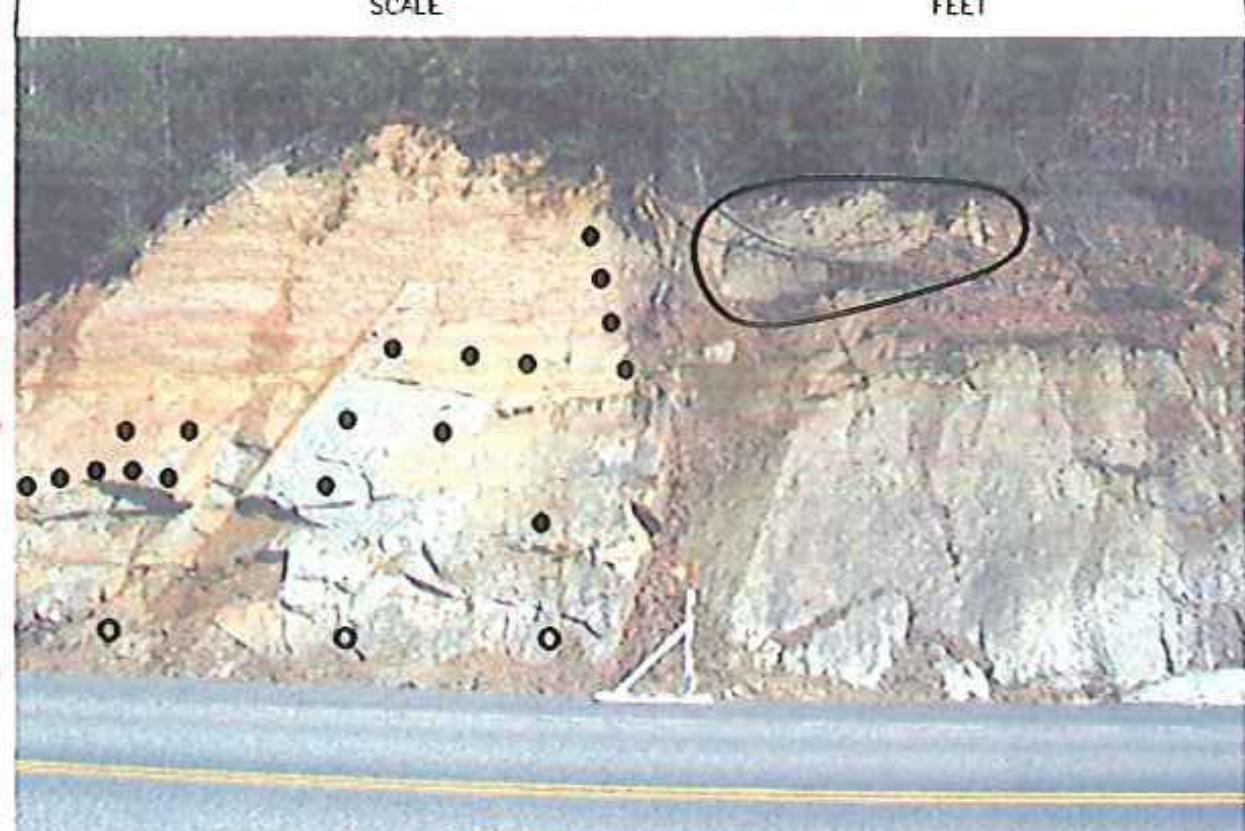
KEY
o = Rock Dowel
x = Rock Drain

- ☐ CATCH BASIN
- PROPOSED ROCK DOWEL
- PROPOSED ROCK DRAIN
- ▭ PORTION OF ROCK SLOPE TO BE SCALED/REMOVED
- ▭ SHOTCRETE BUTTRESS

- NOTES:
1. ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
 2. ALL DIMENSIONS TO BE CONFIRMED ON SITE BY CONTRACTOR. ALL DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
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 7. DURING INSTALLATION, VTRANS GEOLOGIST MAY IDENTIFY ADDITIONAL STABILIZATION LOCATIONS NOT ON THIS DRAWING.
 8. DIGITAL PHOTOGRAPHS TAKEN APRIL 16, 2008



1 = 20'
2 = 20'
3 = 20'
4 = 20'
5 = 20'
6 = 15'
7 = 15'
8 = 15'
9 = 15'

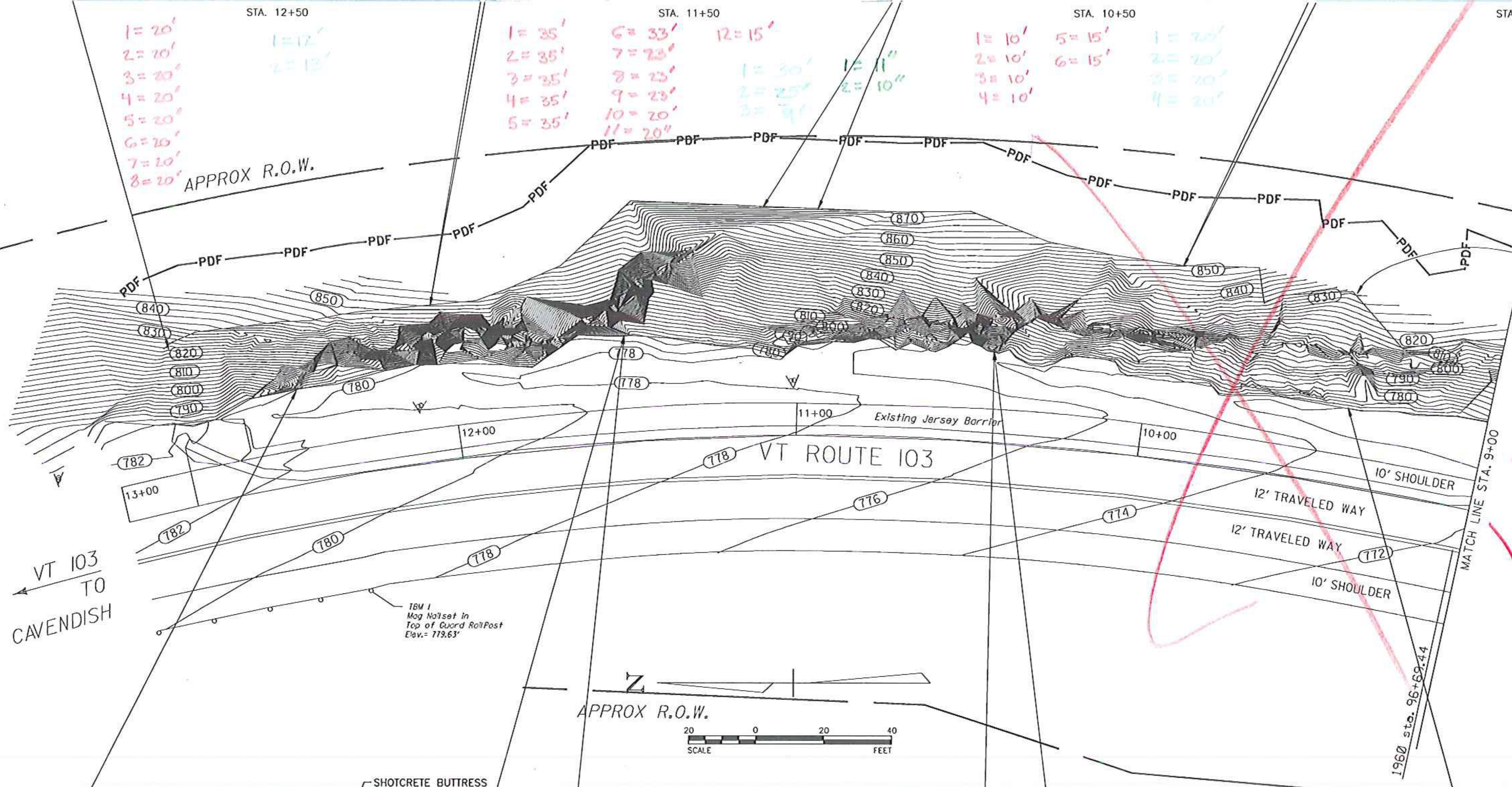
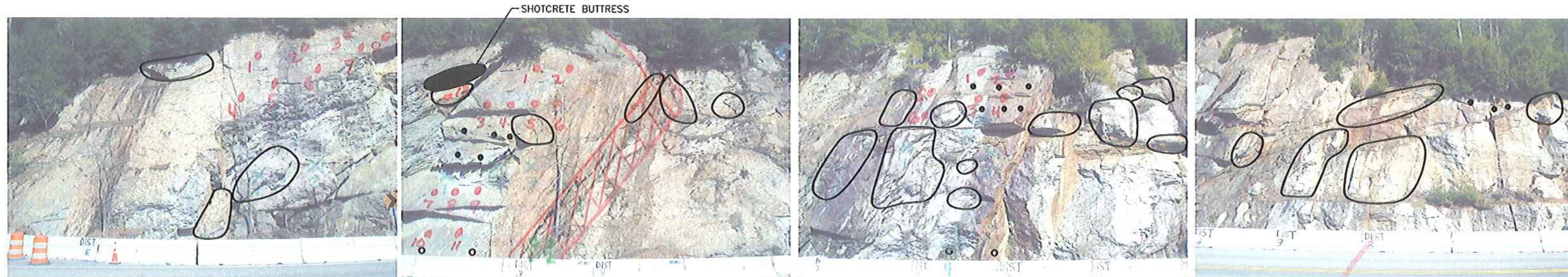


STA. 8+50

STA. 7+00

STA. 6+00

PROJECT NAME:	CHESTER	PLOT DATE:	23-NOV-2009
PROJECT NUMBER:	NH 025-1(41)	DRAWN BY:	P. PELOQUIN
FILE NAME:	d08b036nui.dgn	CHECKED BY:	S. MENARD
PROJECT LEADER:	K. ROBBIE	LAYOUT SHEET	2
DESIGNED BY:	P. PELOQUIN	SHEET	9
		OF	16



- KEY**
- = ROCK DOWEL
 - × = ROCK DRAIN
 - = SHOTCRETE DRAINS
 - III = SHOTCRETE
- ☐ CATCH BASIN
 - PROPOSED ROCK DOWEL
 - PROPOSED ROCK DRAIN
 - PORTION OF ROCK SLOPE TO BE SCALED/REMOVED
 - SHOTCRETE BUTTRESS

- NOTES:**
1. ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
 2. ALL DIMENSIONS TO BE CONFIRMED ON SITE BY CONTRACTOR. ALL DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
 3. ALL DRAWINGS SHOULD BE REVIEWED IN CONJUNCTION WITH CONTRACT DOCUMENTS.
 4. ALL WORK TO BE PERFORMED IN ACCORDANCE WITH CONTRACT DOCUMENTS.
 5. CONTRACTOR SHALL IDENTIFY ALL UNDERGROUND UTILITIES, USING DIGSAFE, PRIOR TO DRILLING OR OTHER SUBSURFACE ACTIVITIES.
 6. FINAL LOCATIONS OF ROCK DOWELS SHALL BE DETERMINED BY THE VTRANS GEOLOGIST AFTER SCALING.
 7. DURING INSTALLATION, VTRANS GEOLOGIST MAY IDENTIFY ADDITIONAL STABILIZATION LOCATIONS NOT ON THIS DRAWING.
 8. DIGITAL PHOTOGRAPHS TAKEN APRIL 16, 2008

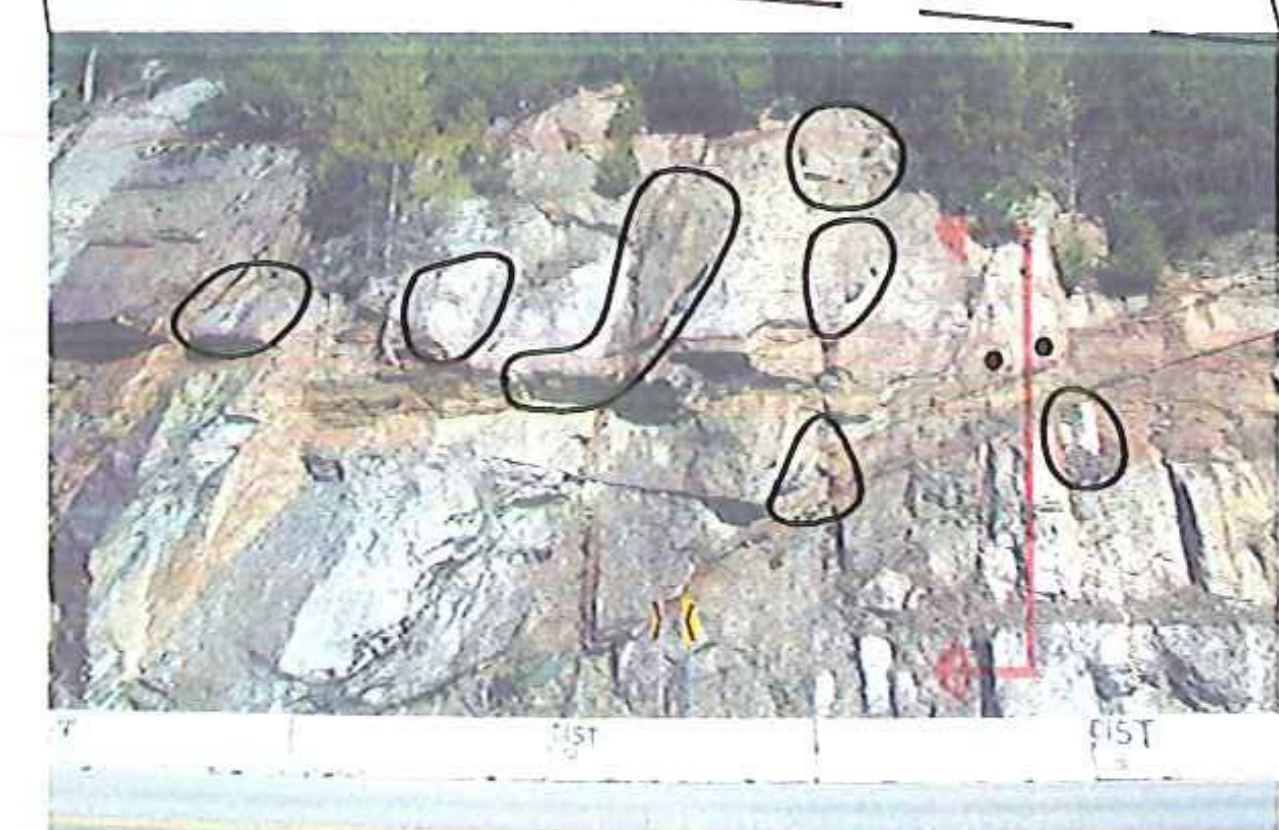
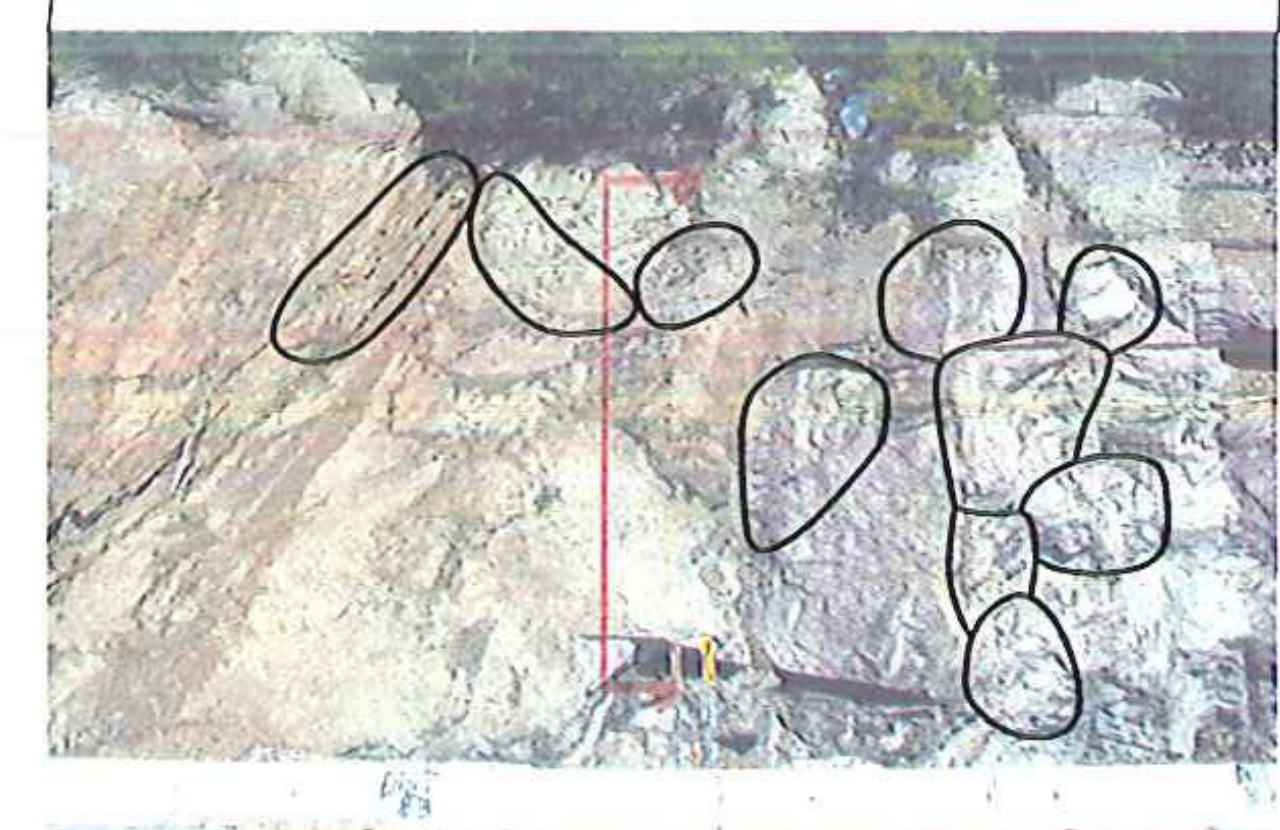
* Arrows DENOTE LOCATION OF PATTERN BOLT

9 @ 10'ea = 90'

51 @ 15'ea = 750'

1 @ 15'ea = 15'

1 = 14'



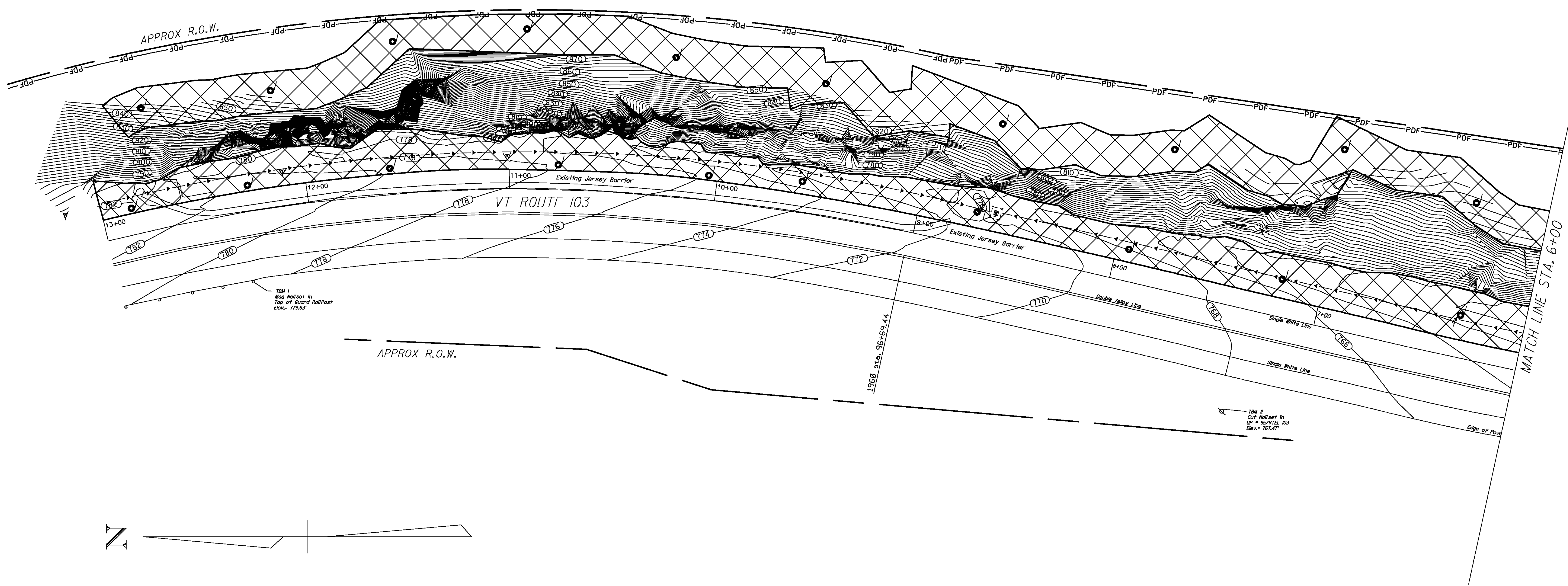
PROJECT NAME:	CHESTER	PLOT DATE:	23-NOV-2009
PROJECT NUMBER:	NH 025-(44)	DRAWN BY:	P. PELOQUIN
FILE NAME:	d08b036nul.dgn	CHECKED BY:	S. MENARD
LAYOUT SHEET	3	SHEET	10 OF 16

TEMPORARY EROSION MATTING
 STA. 6+00 RT TO STA. 13+00 RT (CREST OF LEDGE)
 STA. 6+00 RT TO STA. 13+00 RT (DITCH)

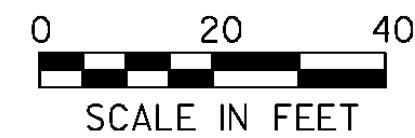
INLET PROTECTION DEVICE, TYPE I
 8+61 RT

PROJECT DEMARCATION FENCE
 STA. 6+00 RT TO STA. 13+00 RT

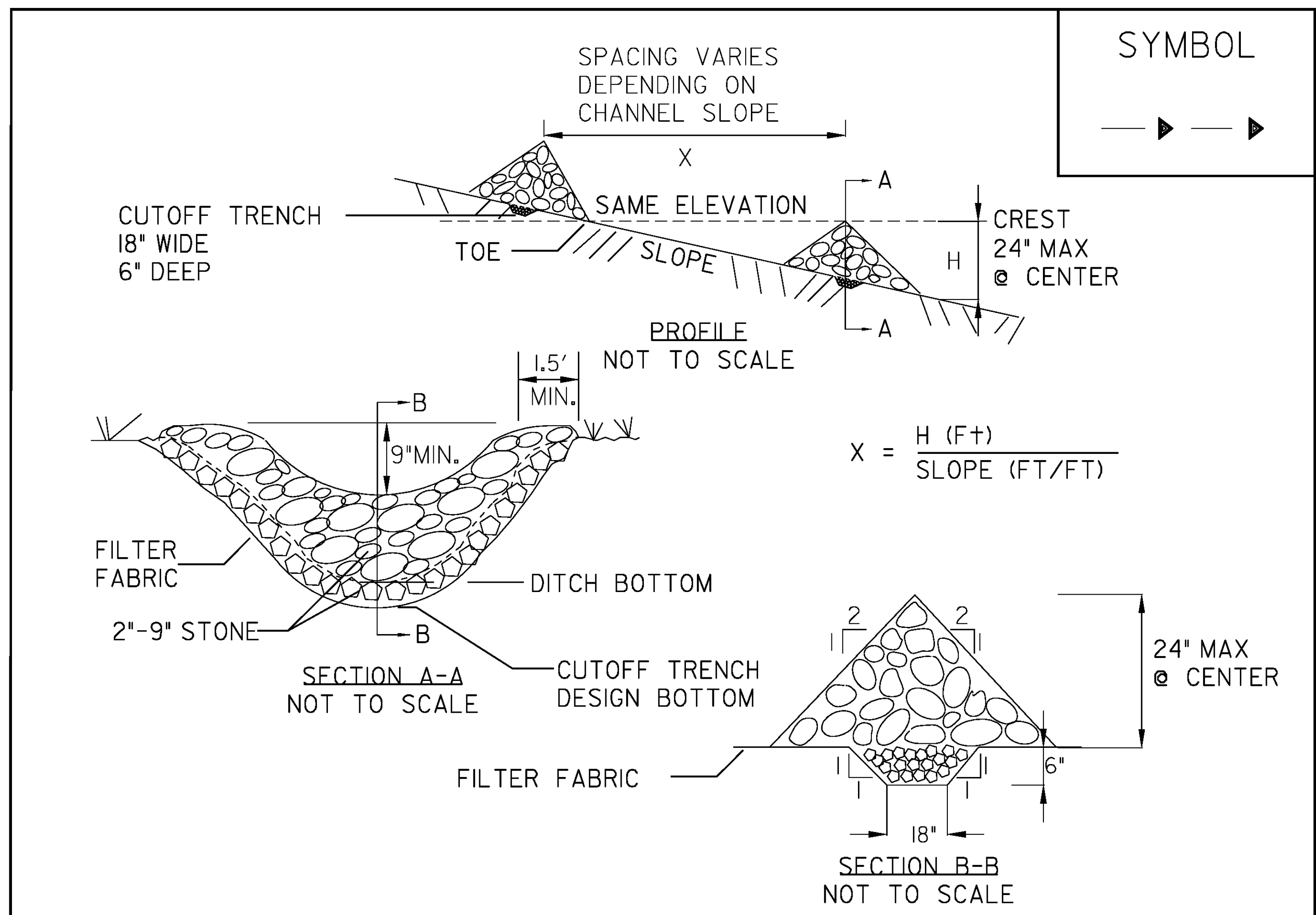
TEMPORARY STONE CHECK DAM, TYPE I
 STA. 6+00 RT TO STA. 13+00 RT (33 CHECK DAMS)



LEGEND	
	CHECK DAMS
	EROSION MATTING/LIMITS OF DISTURBANCE
	PROJECT DEMARCATION FENCE
	INLET PROTECTION



PROJECT NAME:	CHESTER	PLOT DATE:	23-NOV-2009
PROJECT NUMBER:	NH 025-I(41)	DRAWN BY:	P. PELOQUIN
FILE NAME:	d08b036bdr.dgn	DESIGNED BY:	P. PELOQUIN
EPSC LAYOUT SHEET I		CHECKED BY:	S. MENARD
		SHEET II	OF 16



CONSTRUCTION SPECIFICATIONS

1. STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION.
 2. SET SPACING OF CHECK DAMS SO THAT THE ELEVATION OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION AS THE TOE OF THE UPSTREAM DAM.
 3. EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
 4. PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
 5. ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE.
- MAXIMUM DRAINAGE AREA 2 ACRES.

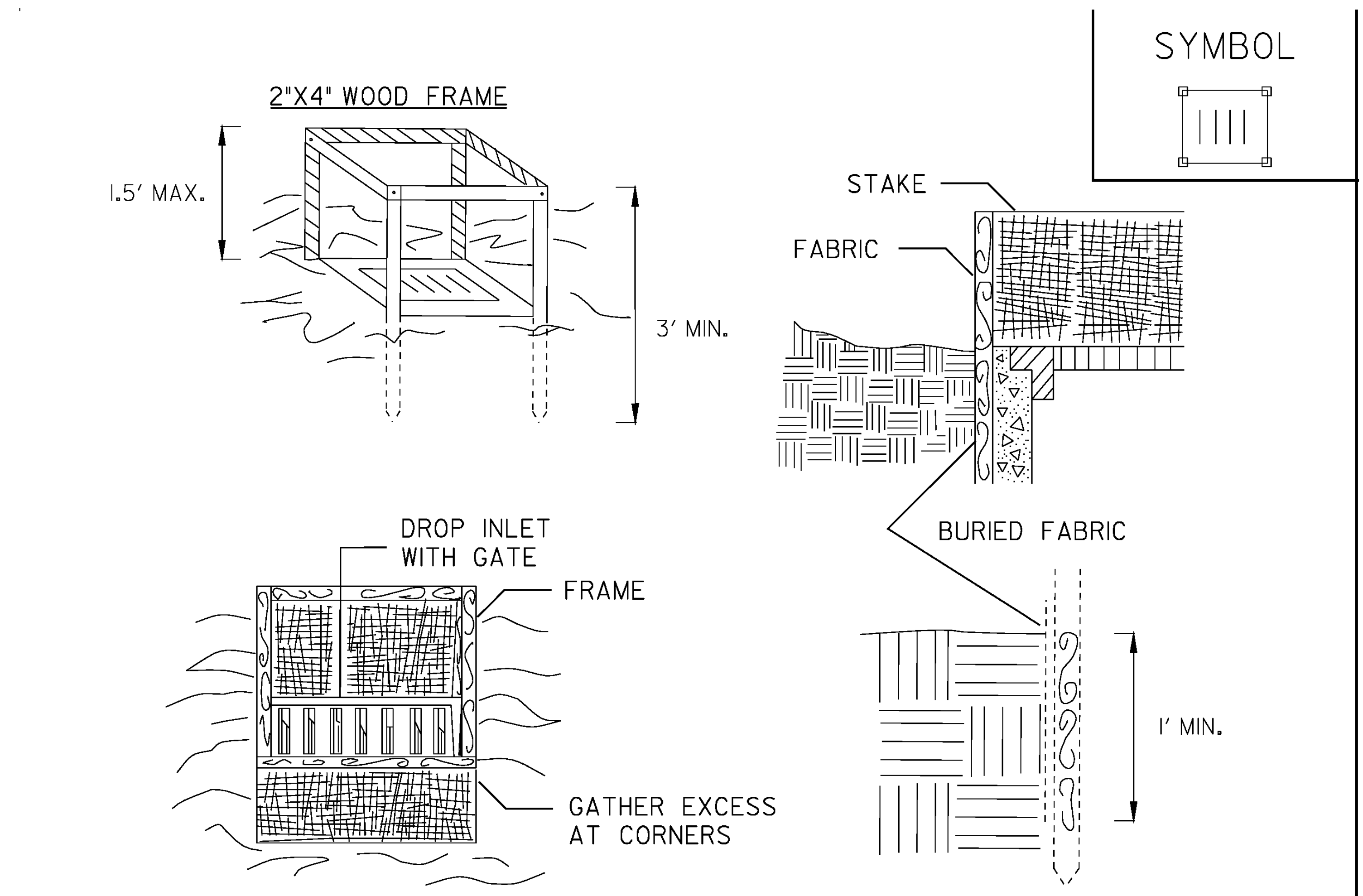
ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC ORIGINALLY DEVELOPED BY USDA-NRCS VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

CHECK DAM

NOTES:
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006-" FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

THIS ITEM SHALL BE PAID FOR UNDER ITEM 653.25 TEMPORARY STONE CHECK DAM, TYPE I

REVISIONS	
MARCH 8, 2007	JMF



CONSTRUCTION SPECIFICATIONS

1. FILTER FABRIC SHALL HAVE AN EOS OF 40-85. BURLAP MAY BE USED FOR SHORT TERM APPLICATIONS.
 2. CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT STAKE.
 3. STAKE MATERIALS WILL BE STANDARD 2" x 4" WOOD OR EQUIVALENT METAL WITH A MINIMUM LENGTH OF 3 FEET.
 4. SPACE STAKES EVENLY AROUND INLET 3 FEET APART AND DRIVE A MINIMUM 18 INCHES DEEP. SPANS GREATER THAN 3 FEET MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND THE FILTER FABRIC FOR SUPPORT.
 5. FABRIC SHALL BE EMBEDDED 1 FOOT MINIMUM BELOW GROUND AND BACKFILLED. IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.
 6. A 2" x 4" WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR OVER FLOW STABILITY.
- MAXIMUM DRAINAGE AREA 1 ACRE

ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC ORIGINALLY DEVELOPED BY USDA-NRCS VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

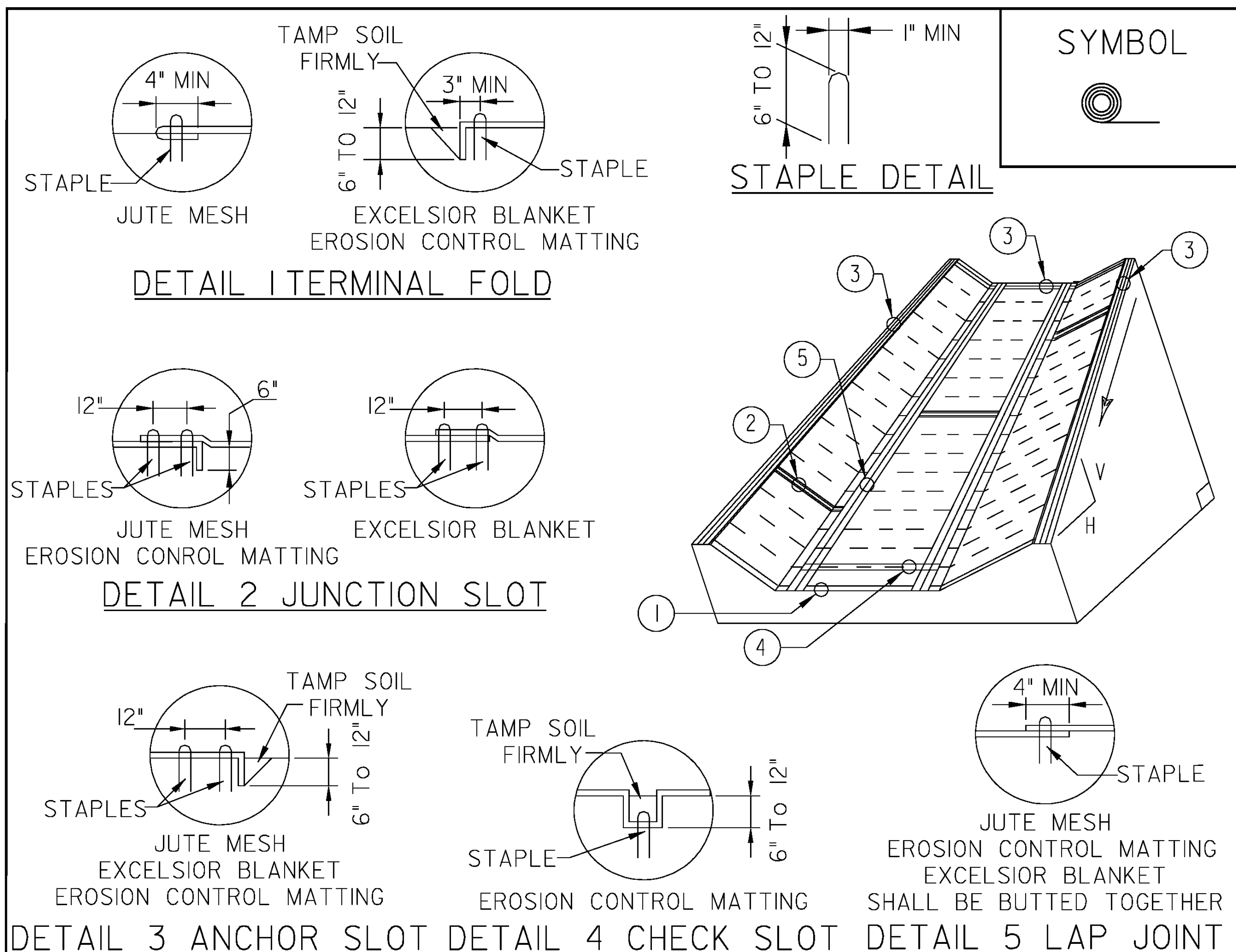
FILTER FABRIC DROP INLET PROTECTION

NOTES:
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006-" FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

THIS ITEM SHALL BE PAID FOR UNDER ITEM 653.40 INLET PROTECTION DEVICE, TYPE I

REVISIONS	
MARCH 8, 2007	JMF

PROJECT NAME: CHESTER	PLOT DATE: 23-NOV-2009
PROJECT NUMBER: NH 025-(41)	DRAWN BY: P. PELOQUIN
FILE NAME: d08b036frm.dgn	CHECKED BY: S. MENARD
PROJECT LEADER: K. ROBIE	SHEET 13 OF 16
DESIGNED BY: P. PELOQUIN	
EPSC DETAIL SHEET I	



CONSTRUCTION SPECIFICATIONS

1. EROSION MATTING, CHECK SLOTS, SHALL BE SPACED IN DITCH CHANNEL SO THAT ONE OCCURS WITHIN EACH 50' ON SLOPES OF MORE THAN 4% AND LESS THAN 6%. ON SLOPES OF 6% OR MORE, THEY SHALL BE SPACED SO THAT ONE OCCURS WITHIN EACH 25'.
2. APPLY FERTILIZER, LIME SEED PRIOR TO PLACING MATTING.
3. STAPLES ARE TO BE PLACED ALTERNATELY, IN COLUMNS APPROXIMATELY 2' APART AND IN ROWS APPROXIMATELY 3' APART. APPROXIMATELY 175 STAPLES ARE REQUIRED PER 4'X225' ROLL OF MATERIAL AND 125 STAPLES ARE REQUIRED PER 4'X150' ROLL OF MATERIAL.
4. DISTURBED AREAS SHALL BE SMOOTHLY GRADED. EROSION CONTROL MATERIAL SHALL BE PLACED LOOSELY OVER GROUND SURFACE. DO NOT STRETCH.
5. ALL TERMINAL ENDS AND TRANSVERSE LAPS SHALL BE STAPLED AT APPROXIMATELY 12" INTERVALS.

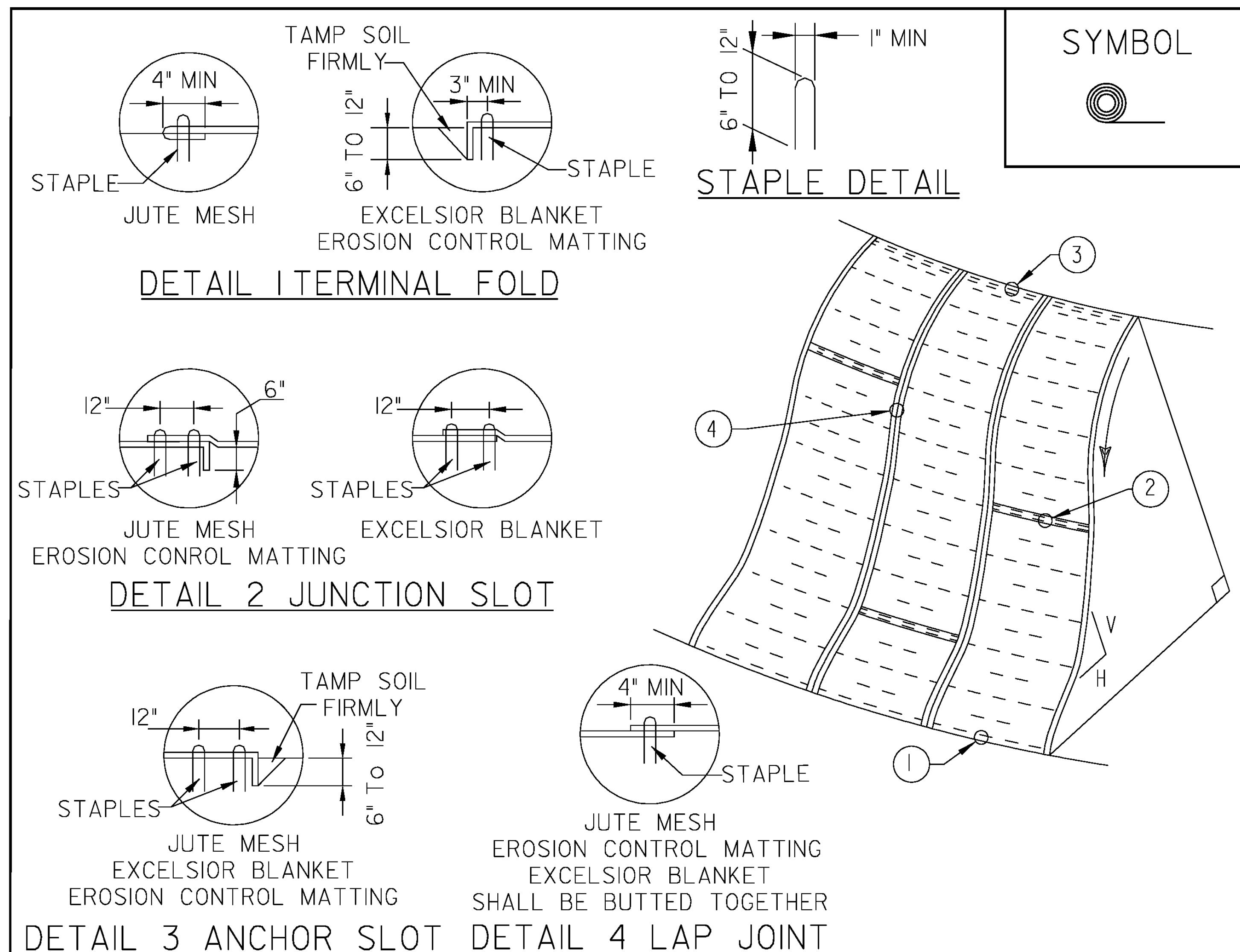
ADAPTED FROM DETAILS PROVIDED BY: ILLINOIS USDA-NRCS
 ORIGINALLY DEVELOPED BY USDA-NRCS
 VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

ROLLED EROSION CONTROL PRODUCT (RECP) DITCH

NOTES:
 REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- " FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

THIS ITEM SHALL BE PAID FOR UNDER ITEM
 653.20 TEMPORARY EROSION MATTING OR
 653.21 PERMANENT EROSION MATTING

REVISIONS	
MARCH 8, 2007	JMF
APRIL 16, 2007	WHF



CONSTRUCTION SPECIFICATIONS

1. APPLY TO SLOPES GREATER THAN 3H:1V OR WHERE NECESSARY TO AID IN ESTABLISHING VEGETATION.
2. APPLY FERTILIZER, LIME AND SEED PRIOR TO PLACING MATTING.
3. STAPLES ARE TO BE PLACED ALTERNATELY, IN COLUMNS APPROXIMATELY 2' APART AND IN ROWS APPROXIMATELY 3' APART. APPROXIMATELY 175 STAPLES ARE REQUIRED PER 4'X225' ROLL OF MATERIAL AND 125 STAPLES ARE REQUIRED PER 4'X150' ROLL OF MATERIAL.
4. DISTURBED AREAS SHALL BE SMOOTHLY GRADED. EROSION CONTROL MATERIAL SHALL BE PLACED LOOSELY OVER GROUND SURFACE. DO NOT STRETCH.
5. ALL TERMINAL ENDS AND TRANSVERSE LAPS SHALL BE STAPLED AT APPROXIMATELY 12" INTERVALS.

ADAPTED FROM DETAILS PROVIDED BY: ILLINOIS USDA-NRCS
 ORIGINALLY DEVELOPED BY USDA-NRCS
 VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

ROLLED EROSION CONTROL PRODUCT (RECP) SIDE SLOPE

NOTES:
 REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- " FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

THIS ITEM SHALL BE PAID FOR UNDER ITEM
 653.20 TEMPORARY EROSION MATTING OR
 653.21 PERMANENT EROSION MATTING

NEW	
APRIL 16, 2007	WHF
REVISIONS	

PROJECT NAME:	CHESTER	PLOT DATE:	23-NOV-2009
PROJECT NUMBER:	NH 025-(41)	DRAWN BY:	P. PELOQUIN
FILE NAME:	d08b036frm.dgn	DESIGNED BY:	P. PELOQUIN
EPSC DETAIL SHEET 2		CHECKED BY:	S. MENARD
		SHEET 14	OF 16

EROSION CONTROL NARRATIVE

1.1 PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE REMOVAL OF EXPOSED LEDGE AT IDENTIFIED LOCATIONS FOR SAFETY ENHANCEMENTS.

NOTE: AREA OF DISTURBANCE SHALL INCLUDE LIMITS OF EARTH DISTURBANCE WITHIN THE PROJECT AREA AT SPECIFIC LEDGE REMOVAL LOCATIONS

TOTAL AREA OF DISTURBANCE IS APPROXIMATELY 1.22 ACRES.

IT IS ANTICIPATED THAT THIS PROJECT WILL LAST ONE CONSTRUCTION SEASON.

1.2 SITE INVENTORY

1.2.1 OFF SITE DRAINAGE CHARACTERISTICS (UP AND DOWN-GRADIENT)

THE PROPERTY SURROUNDING THE PROJECT SITE CONSISTS OF WELL ESTABLISHED FOREST WITH MODERATE SLOPES AT THE PROJECT SITE. DUE TO THE NATURE OF THE SURROUNDING TERRAIN THE PROJECT SITE COULD RECEIVE RUNOFF WATER FROM A FEW NEARBY SLOPES. IF THIS IS THE CASE, IT SHOULD BE MINIMAL.

1.2.2 DRAINAGE, WATERWAYS, BODIES OF WATER, AND PROXIMITY TO NATURAL OR MAN-MADE WATER FEATURES

WILLIAMS RIVER IS LOCATED ON THE WEST SIDE OF VT 103 IN THE PROJECT AREA.

1.2.3 TOPOGRAPHY, EXISTING ROADS, BUILDINGS, UTILITIES

VERMONT 103 IS THE ONLY ROAD WITHIN THE DESIGNATED LEDGE REMOVAL SITE. THE SITE IS LOCATED ON THE EASTERN SIDE OF VERMONT 103 AND THE TOPOGRAPHY OF THE SITE IS OF LEDGE (SOLID ROCK). THE GREEN MOUNTAIN RAILROAD IS LOCATED ON THE WESTERN SIDE OF VERMONT 103. BETWEEN VT 103 AND THE GREEN MOUNTAIN RAILROAD IS THE COTA & COTA PROPANE FILLING STATION.

1.2.4 VEGETATION

THE VEGETATION IN THE PROJECT AREA CONSISTS OF SOFT AND HARDWOOD TREES, UNDERGROWTH, AND GRASS LINED DITCHES. THE IMPACT TO VEGETATION WILL BE CLEARING AND GRUBBING OF ALL VEGETATION LOCATED ON THE FACE OF THE LEDGE WITHIN THE PROJECT LIMITS AND ALSO CLEARING AND GRUBBING THE TOP OF THE LEDGE FROM THE FACE OF THE CUT UP TO 20 FEET BACK TOWARDS EXISTING ROW. IN ADDITION DISTURBANCE IS EXPECTED DURING THE REMOVAL OF WASTE MATERIAL WITHIN THE GRASS LINED DITCH. ALL DISTURBED VEGETATION, EXCLUDING THE LEDGE FACE, WILL BE REESTABLISHED WITH STANDARD SEED AND MULCH PRACTICES AND EROSION MATTING.

1.2.5 SOILS

ALL SOIL DATA CAME FROM THE U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE FOR THE COUNTY OF WINDSOR, VERMONT. SOILS ON THE PROJECT SITE ARE TUNBRIDGE - LYMAN COMPLEX 35 - 60 PERCENT SLOPES, VERY ROCKY, K=0.24/0.28.

NOTE: K-VALUES GENERALLY INDICATE THE FOLLOWING: 0.0-0.23 = LOW EROSION POTENTIAL; 0.24-0.36 = MODERATE EROSION POTENTIAL; 0.37 AND HIGHER = HIGH EROSION POTENTIAL.

1.2.6 SENSITIVE RESOURCE AREAS

CRITICAL HABITATS: NO
HISTORICAL OR ARCHEOLOGICAL AREAS: NO
PRIME AGRICULTURAL LAND: NO
THREATENED AND ENDANGERED SPECIES: NO
WATER RESOURCE: NO
WETLANDS: NO

1.3 RISK EVALUATION

THIS PROJECT FALLS UNDER THE JURISDICTION OF THE CONSTRUCTION GENERAL PERMIT 3-9020 (2006) ISSUED BY THE VT ANR. BASED ON THE RISK ASSESSMENT THIS PROJECT IS CONSIDERED LOW RISK. *THE LOW RISK SITE HANDBOOK FOR EROSION PREVENTION AND SEDIMENT CONTROL* SHALL BE KEPT ON-SITE AND COMPLIED WITH ALONG WITH THE EPSC PLAN PAY ITEM 652.10. ANY MODIFICATIONS TO THE PROJECT THAT WOULD POTENTIALLY INCREASE THE RISK TO THE ENVIRONMENT SHALL BE RE-EVALUATED FOR RISK. SHOULD THE RISK CHANGE THE CONTRACTOR WILL BE RESPONSIBLE FOR ADDITIONAL PERMITTING WITH VT ANR VIA FILING OF THE APPROPRIATE NOTICE OF INTENT UNDER THE CONSTRUCTION GENERAL PERMIT PROCESS. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH THE CONSTRUCTION GENERAL PERMIT 3-9020 (2006) LOW RISK AUTHORIZATION STIPULATIONS INCLUDED IN THE CONTRACT DOCUMENTS.

1.4 EROSION PREVENTION AND SEDIMENT CONTROL

THE EROSION CONTROL PLANS ARE MEANT AS A GUIDELINE FOR PREVENTING EROSION AND CONTROLLING SEDIMENT TRANSPORT. THE WORK OUTLINED IN THIS NARRATIVE CONSISTS OF APPLYING MEASURES THROUGHOUT THE LIFE OF THE PROJECT MINIMIZING SEDIMENT TRANSPORT TO THE RECEIVING WATERS. THE MEASURES INCLUDE STABILIZATION AND STRUCTURAL PRACTICES, STORM WATER CONTROLS AND OTHER POLLUTION PREVENTION CONTROLS.

ALL MEASURES SHALL BE REGULARLY MAINTAINED AND SHALL BE CHECKED FOR SEDIMENT BUILD-UP. SEDIMENT SHALL BE DISPOSED AT AN APPROVED SITE WHERE IT WILL NOT BE SUBJECT TO EROSION.

(REFER TO THE LOW RISK SITE HANDBOOK AND APPROPRIATE DETAIL SHEETS FOR EACH PRACTICE REQUIRED ON THE PROJECT TO INCLUDE BUT NOT LIMITED TO THE FOLLOWING.)

1.4.1 MARK SITE BOUNDARIES

PROJECT DEMARCATION FENCING, DENOTED ON THE PLANS AS -PDF- IS USED TO DELINEATE THE LIMIT THE CONTRACTOR CAN WORK TO WITH CONSTRUCTION EQUIPMENT. INSIDE THIS LIMIT, THE AREA CAN BE DISTURBED.

1.4.2 LIMIT DISTURBANCE AREA

EMPLOY TEMPORARY STABILIZATION PRACTICES IN INCREMENTAL STAGES (PHASING) AS CONSTRUCTION PROCEEDS. ADDITIONAL MEASURES MAY BE NEEDED DUE TO THE PHASING OF THE PROJECT AND AS DIRECTED BY THE ENGINEER.

1.4.3 STABILIZE CONSTRUCTION EXIT

NOT APPLICABLE

1.4.4 INSTALL SILT FENCE

NOT APPLICABLE

1.4.5 DIVERT UPLAND RUNOFF

NOT APPLICABLE

1.4.6 SLOW DOWN CHANNELIZED RUNOFF

STONE CHECK DAMS SHALL BE USED IN THE DITCH LINE WITHIN THE PROJECT AREA AS NEEDED.

1.4.7 CONSTRUCT PERMANENT CONTROLS

NOT APPLICABLE

1.4.8 STABILIZE EXPOSED SOILS

SEED AND MULCH
EROSION MATTING

TRACKING OF ALL EXPOSED SLOPES, COMBINED WITH TEMPORARY MULCHING, WILL BE UTILIZED ON A REGULAR BASIS. SLOPES SHALL BE STABILIZED WITHIN 48 HOURS OF FORECASTED RAIN.

SEEDING, MULCHING AND BIODEGRADABLE EROSION CONTROL MATTING OR AN EQUIVALENT SHALL BE USED TO STABILIZE ALL SLOPES STEEPER THAN 3H:1V. THESE SLOPES SHALL BE STABILIZED WITHIN 48 HOURS OF REACHING INTERMITTENT PHASES OF CONSTRUCTION.

1.4.9 WINTER STABILIZATION

NOT APPLICABLE

1.4.10 STABILIZE SOIL AT FINAL GRADE

SEED AND MULCH
EROSION MATTING

SEEDING, MULCHING AND BIODEGRADABLE EROSION CONTROL MATTING OR AN EQUIVALENT SHALL BE USED TO STABILIZE ALL SLOPES STEEPER THAN 3H:1V. THESE SLOPES SHALL BE STABILIZED WITHIN 48 HOURS OF REACHING FINAL GRADE.

1.4.11 DE-WATERING ACTIVITIES

NOT APPLICABLE

1.4.12 INSPECT YOUR SITE

THE SITE SHALL BE INSPECTED AT LEAST ONCE EVERY 7 DAYS AND AFTER EVERY RAIN EVENT THAT RESULTS IN A DISCHARGE FROM THE SITE.

PROJECT NAME: CHESTER

PROJECT NUMBER: NH 025-(41)

FILE NAME: d08b036frm.dgn
PROJECT LEADER: K. ROBIE
DESIGNED BY: P. PELOQUIN
EROSION CONTROL NARRATIVE

PLOT DATE: 23-NOV-2009
DRAWN BY: P. PELOQUIN
CHECKED BY: S. MENARD
SHEET 15 OF 16

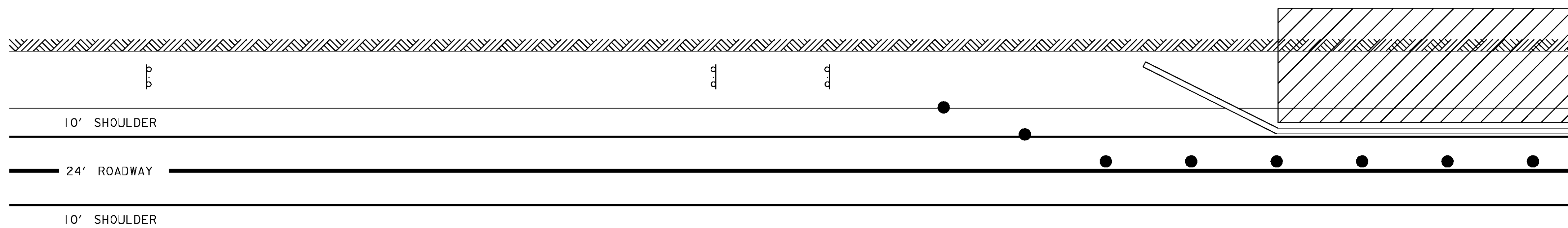
W20-1
(POST MOUNTED)



R2-1
(POST MOUNTED)



G20-2
(POST MOUNTED)



SHORT TERM LANE ADJUSTMENTS

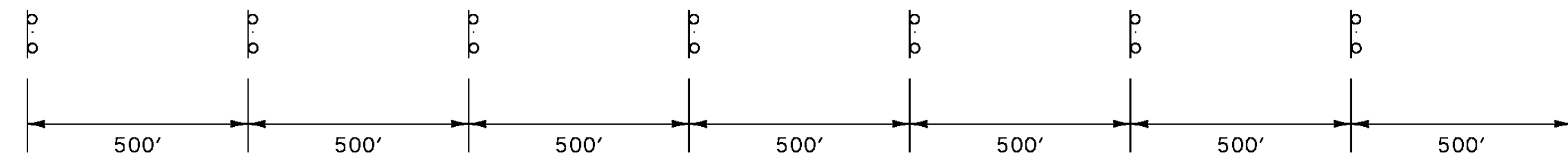
1. TWO WAY TRAFFIC SHALL BE MAINTAINED WHEN CONSTRUCTION ACTIVITIES ARE NOT TAKING PLACE AND WHEN POSSIBLE DURING CONSTRUCTION ACTIVITIES.
2. DURING PERIODS OF LEDGE REMOVAL TRAFFIC SHALL BE SHIFTED AWAY FROM THE CONSTRUCTION ACTIVITY TO PROVIDE ADEQUATE SPACE BETWEEN THE ACTIVITY AND THE TRAVELLING PUBLIC.
3. WHEN PERIODS OF LEDGE REMOVAL WARRANT, TRAFFIC MAY BE REDUCED TO ONE WAY AND SHIFTED AWAY FROM THE WORK ACTIVITY.
4. ALL SIGNS ASSOCIATED WITH THE LANE REDUCTION AND LANE SHIFT SHALL BE REMOVED OR COVERED WHEN NOT APPLICABLE.

LONG TERM SHOULDER CLOSURE NOTES

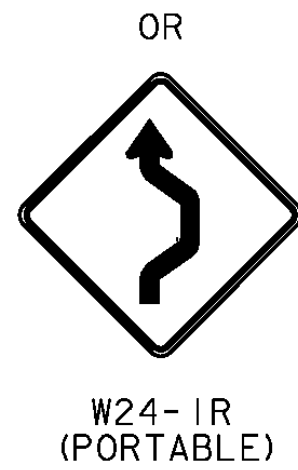
1. LONG TERM SHOULDER CLOSURE (3 DAYS OR GREATER) SHALL BE CONSTRUCTED WITH THE LATEST VERSION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) AND THESE PLANS.
2. TEMPORARY TRAFFIC BARRIER SHALL BE USED FOR THE LONG TERM SHOULDER CLOSURE. THE TEMPORARY TRAFFIC BARRIER SHALL BE PAID FOR UNDER CONTRACT ITEM 621.90 "TEMPORARY TRAFFIC BARRIER" AND MOVING OF THE BARRIER SHALL BE PAID FOR UNDER ITEM 621.95 "REMOVE AND RESET TEMPORARY TRAFFIC BARRIER", WHERE APPROPRIATE.
3. THE TEMPORARY TRAFFIC BARRIER SHALL BE PLACED ONE FOOT OUTSIDE THE EDGE OF TRAVELLED WAY, THROUGH THE LENGTH OF THE WORK AREA, AND SHALL HAVE A 1:11 TAPER EXTENDING OUTSIDE OF THE CLEAR ZONE (16 FEET OUTSIDE TRAVELLED WAY) ON EACH END OF THE SHOULDER CLOSURE. IF IT IS NOT POSSIBLE TO GET THE TEMPORARY TRAFFIC BARRIER OUTSIDE OF THE CLEAR ZONE THEN A CRASH ATTENUATOR SHALL BE USED AND WILL BE INCIDENTAL THE ITEM 621.90 "TEMPORARY TRAFFIC BARRIER".
4. ALL SIGNS ASSOCIATED WITH THE LONG TERM SHOULDER CLOSURE SHALL BE POST MOUNTED AND SHALL BE VISIBLE TO THE TRAVELLING PUBLIC FOR THE DURATION OF THE SHOULDER CLOSURE.

GENERAL TRAFFIC CONTROL NOTES

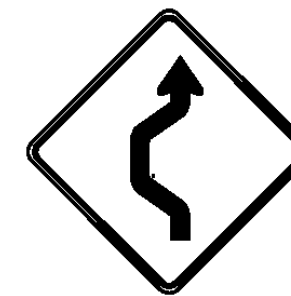
1. TRAFFIC CONTROL FOR THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT VTRANS E-SERIES STANDARDS AND THE CURRENT MUTCD AND ITS LATEST REVISIONS.
2. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN INCLUDING A TRAFFIC CONTROL PLAN TO THE ENGINEER AND VTRANS TRAFFIC SAFETY UNIT FOR REVIEW ONE-MONTH PRIOR TO PERFORMING ANY CONSTRUCTION ACTIVITY. THE PLAN SHALL INCLUDE PROVISIONS FOR IMPLEMENTATION AND MAINTENANCE OF TRAFFIC CONTROL FOR ALL WORK ASSOCIATED WITH THIS PROJECT. UPON WRITTEN APPROVAL FROM THE ENGINEER, THE CONTRACTOR SHALL IMPLEMENT THE TRAFFIC CONTROL PLAN AND COMMENCE CONSTRUCTION ACTIVITIES. ALL COSTS ASSOCIATED WITH THE DEVELOPMENT AND ANY NECESSARY REVISION OF A TRAFFIC CONTROL PLAN SHALL BE PAID FOR UNDER CONTRACT ITEM 641.10 "TRAFFIC CONTROL".
3. THE TRAFFIC CONTROL PLANS SHOWN HEREIN ARE APPROXIMATE AND INTENDED TO BE UTILIZED IN CONJUNCTION WITH APPLICABLE VTRANS STANDARD DRAWINGS AND AT THE DISCRETION OF THE ENGINEER.
4. PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE PLACED AT THE BEGINNING AND END OF THE PROJECT. THE MESSAGE SIGNS SHALL BE PLACED ONE-WEEK PRIOR TO ANY CONSTRUCTION ACTIVITY TO WARN THE TRAVELING PUBLIC OF THE PROJECT. THE MESSAGE SIGNS SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT. PAYMENT FOR THIS WORK SHALL BE MADE UNDER CONTRACT ITEM 641.15 "PORTABLE CHANGEABLE MESSAGE SIGN".
5. INITIATION OF TRAFFIC CONTROL MEASURES WILL NOT BE PERMITTED BETWEEN THE DATES OF NOVEMBER 15 AND APRIL 15 UNLESS OTHERWISE APPROVED BY THE ENGINEER. ONCE TRAFFIC CONTROL DEVICES HAVE BEEN INSTALLED, THE CONTRACTOR SHALL BEGIN WORK IMMEDIATELY AND PROCEED IN A TIMELY MANNER THROUGH TO COMPLETION OF CONSTRUCTION IN ORDER TO MINIMIZE HAZARD AND INCONVENIENCE TO THE TRAVELING PUBLIC.
6. PRIVATE VEHICLES BELONGING TO THE CONTRACTOR OR ITS EMPLOYEES WILL NOT BE ALLOWED TO PARK ON THE RIGHT OF WAY AND/OR THE TRAVELED WAY OF ANY PUBLIC THOROUGHFARE.
7. ALL SIGNS, BARRICADES, AND OTHER TRAFFIC CONTROL DEVICES SHALL BE CLEANED WEEKLY OR AS DIRECTED BY THE ENGINEER. EXISTING PERMANENT SIGNS THAT CONTRADICT TEMPORARY TRAFFIC CONTROL SIGNS SHALL BE REMOVED AND REPLACED OR COVERED FOR THE PERIOD OF TIME THAT THE TRAFFIC CONTROL PLAN IS IMPLEMENTED. COST FOR THIS WORK SHALL BE CONSIDERED INCIDENTAL TO CONTRACT ITEM 641.10 "TRAFFIC CONTROL".
8. THE CONTRACTOR IS NOTIFIED THAT ALL ROADWAYS INCLUDED IN AND ASSOCIATED WITH THIS PROJECT ARE SUBJECT TO OCCASIONAL USE AND TRAVEL BY EMERGENCY RESPONSE VEHICLES. THE CONTRACTOR SHALL MAKE AND IMPLEMENT PLANS AND PROCEDURES DESIGNED TO ENSURE SWIFT AND UNIMPEDED TRAVEL OF EMERGENCY RESPONSE VEHICLES THROUGH CONSTRUCTION ZONES AND SHALL SUBMIT THEM TO THE ENGINEER. ANY COSTS ASSOCIATED WITH SUCH PLANS AND PROCEDURES SHALL BE INCIDENTAL TO CONTRACT ITEM 641.10 "TRAFFIC CONTROL".
9. WHEN FLAGGERS ARE USED, THE LANE CLOSURE SHALL BE EXTENDED SUCH THAT THE FLAGGER ON THE SOUTH END OF PROJECT IS LOCATED ON THE TANGENT SECTION OF VT 103 SOUTHERLY OF MP 8.04 UNLESS SUFFICIENT SIGHT DISTANCE TO THE FLAGGER STATION AND THE BACK OF THE VEHICLE QUEUE CAN BE PROVIDED AT A DIFFERENT LOCATION.



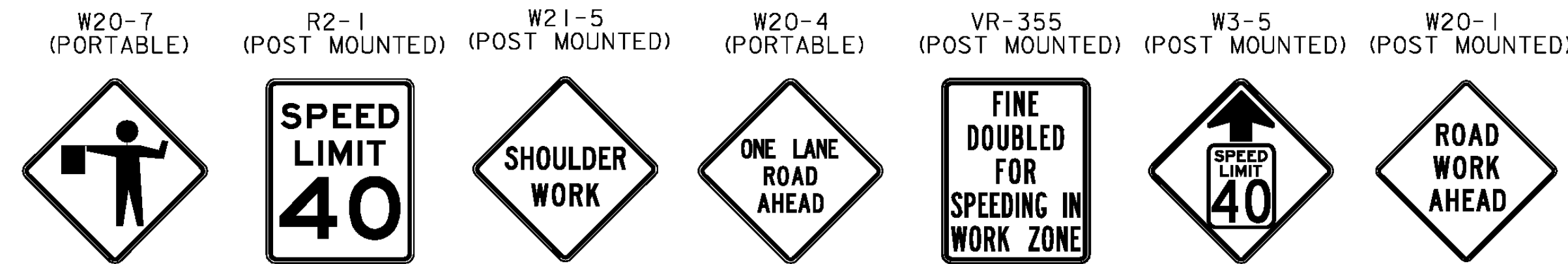
W20-1 (POST MOUNTED) W3-5 (POST MOUNTED) VR-355 (POST MOUNTED) W20-4 (PORTABLE) W21-5 (POST MOUNTED) R2-1 (POST MOUNTED) W20-7 (PORTABLE)



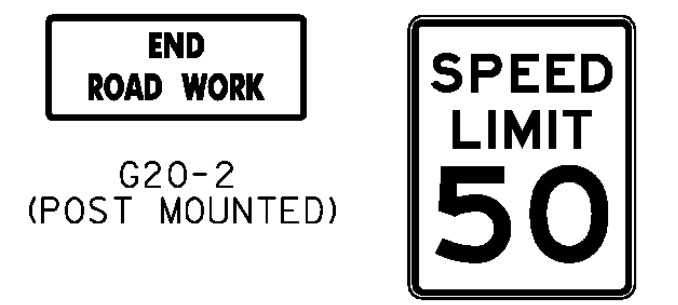
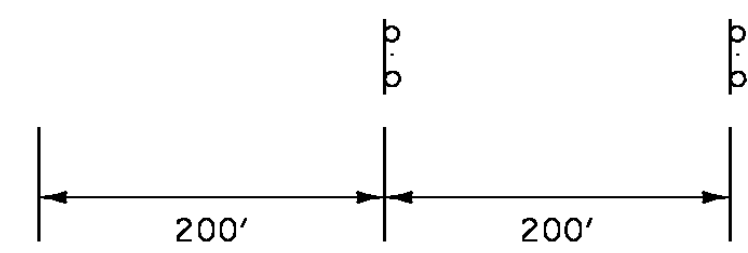
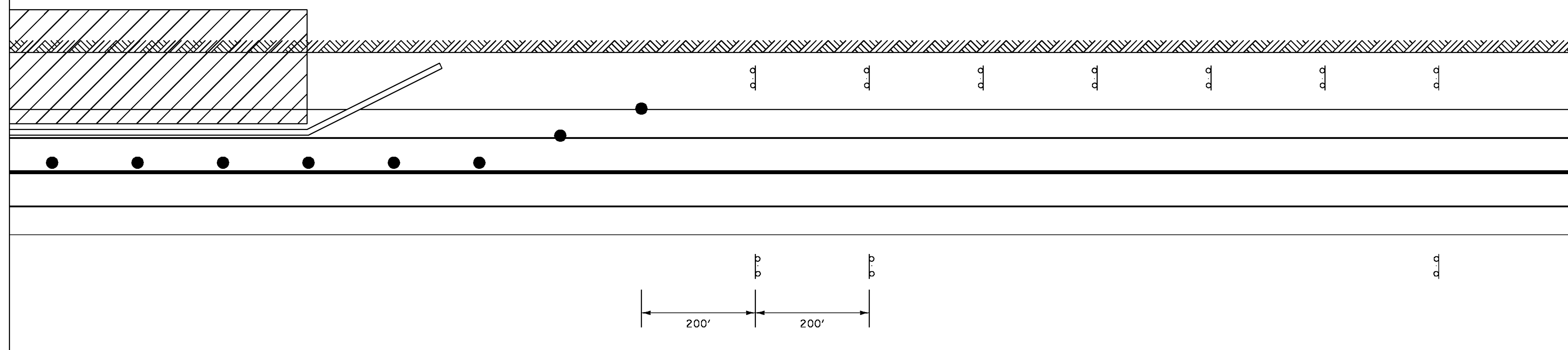
W24-1L (PORTABLE)



OR



W20-7 (PORTABLE) R2-1 (POST MOUNTED) W21-5 (POST MOUNTED) W20-4 (PORTABLE) VR-355 (POST MOUNTED) W3-5 (POST MOUNTED) W20-1 (POST MOUNTED)



G20-2
(POST MOUNTED)

R2-1
(POST MOUNTED)



W20-1
(POST MOUNTED)

- TRAFFIC CONTROL DEVICE
- TEMPORARY TRAFFIC BARRIER
- ▨ WORK AREA

PROJECT NAME: CHESTER	
PROJECT NUMBER: NH 025-(4)	
FILE NAME: d08b036TRF.dgn	PLOT DATE: 23-NOV-2009
PROJECT LEADER: K. ROBIE	DRAWN BY: P. PELOQUIN
DESIGNED BY: P. PELOQUIN	CHECKED BY: S. MENARD
TRAFFIC CONTROL SHEET	SHEET 16 OF 16



● Depth = 17" to Soil
Dry
10 Deg.

● Depth = 14" to Soil
Wet
10 Deg.

● Depth = 18" (No soil or Rock)
30 Deg.

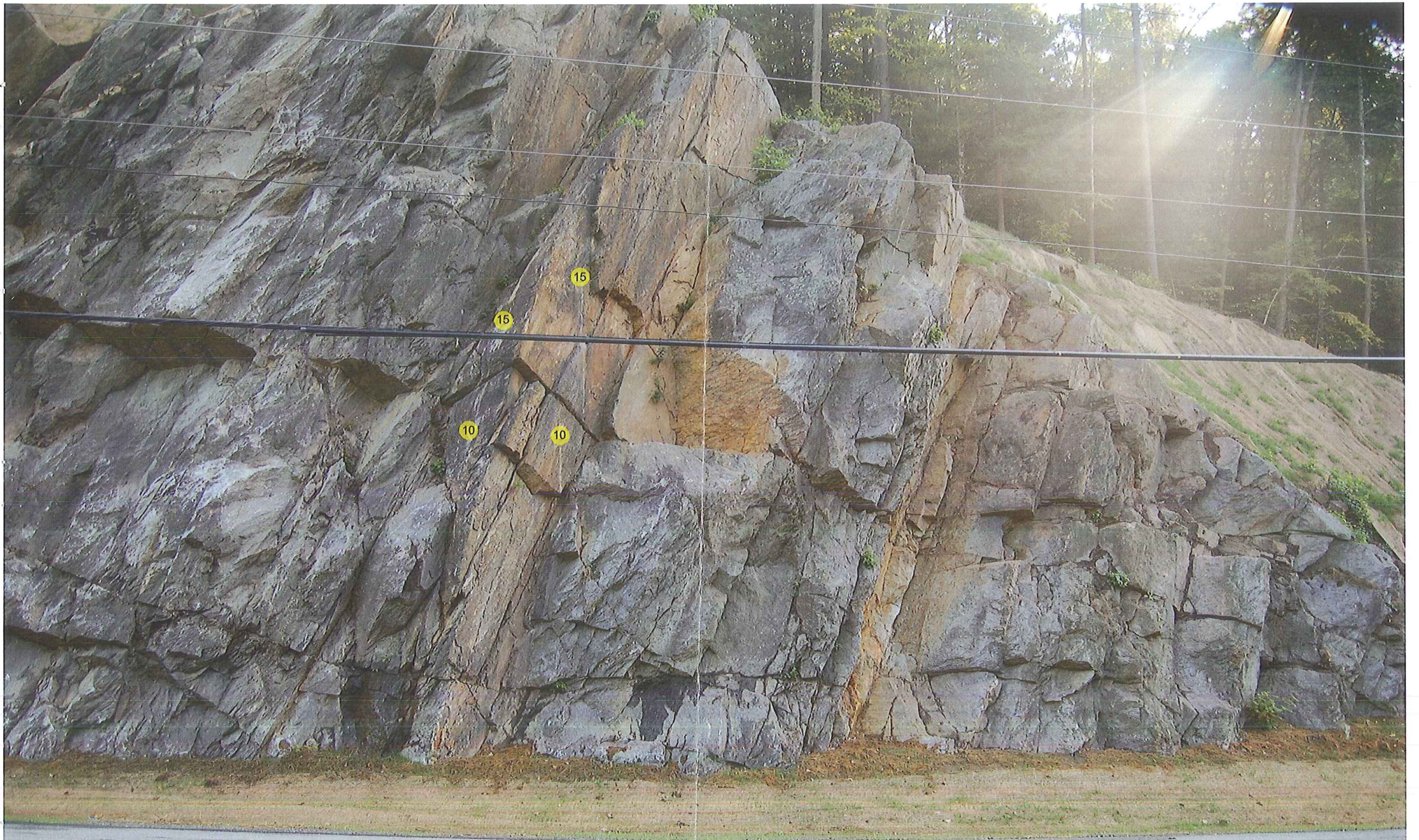
● ● Depth = 12" to Rock
Dry
10 Deg.

● Depth = 12" to Soil
Dry
30 Deg.

● ● Depth = 18" (No Soil or Rock)
30 Deg.

● Depth = 5" to Soil
Dry
30 Deg.

Chester NH 025-1(41)
August 10, 2010
Drain Holes



Chester NH 025-1(41)
August 8, 2010
Rock Dowel Locations and Depths (ft.)

STATION 0+50



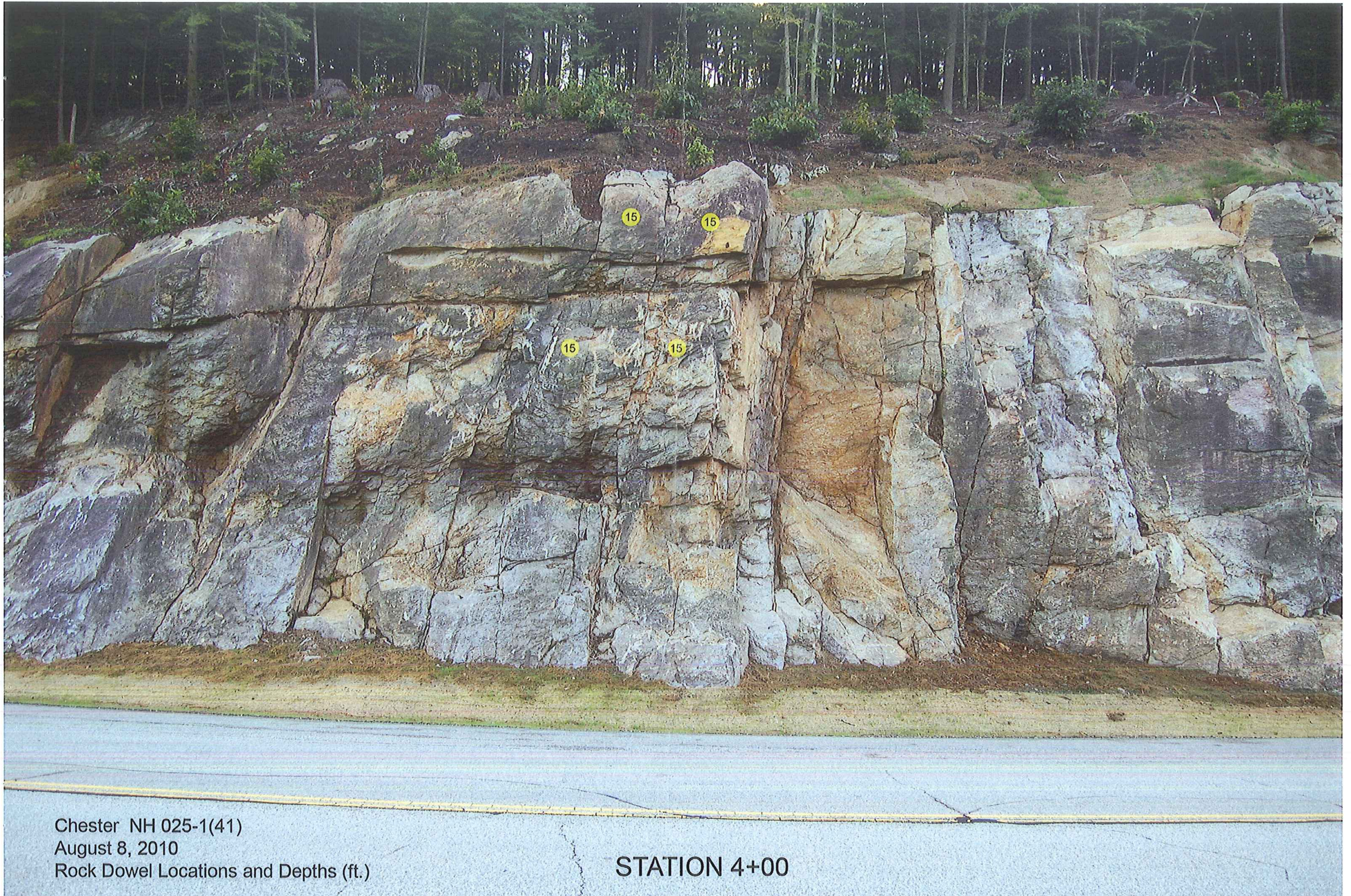
Chester NH 025-1(4.1)
August 8, 2010
Rock Dowel Locations and Depths (ft.)

STATION 2+00



Chester NH 025-1(41)
August 8, 2010
Rock Dowel Locations and Depths

STATION 3+00



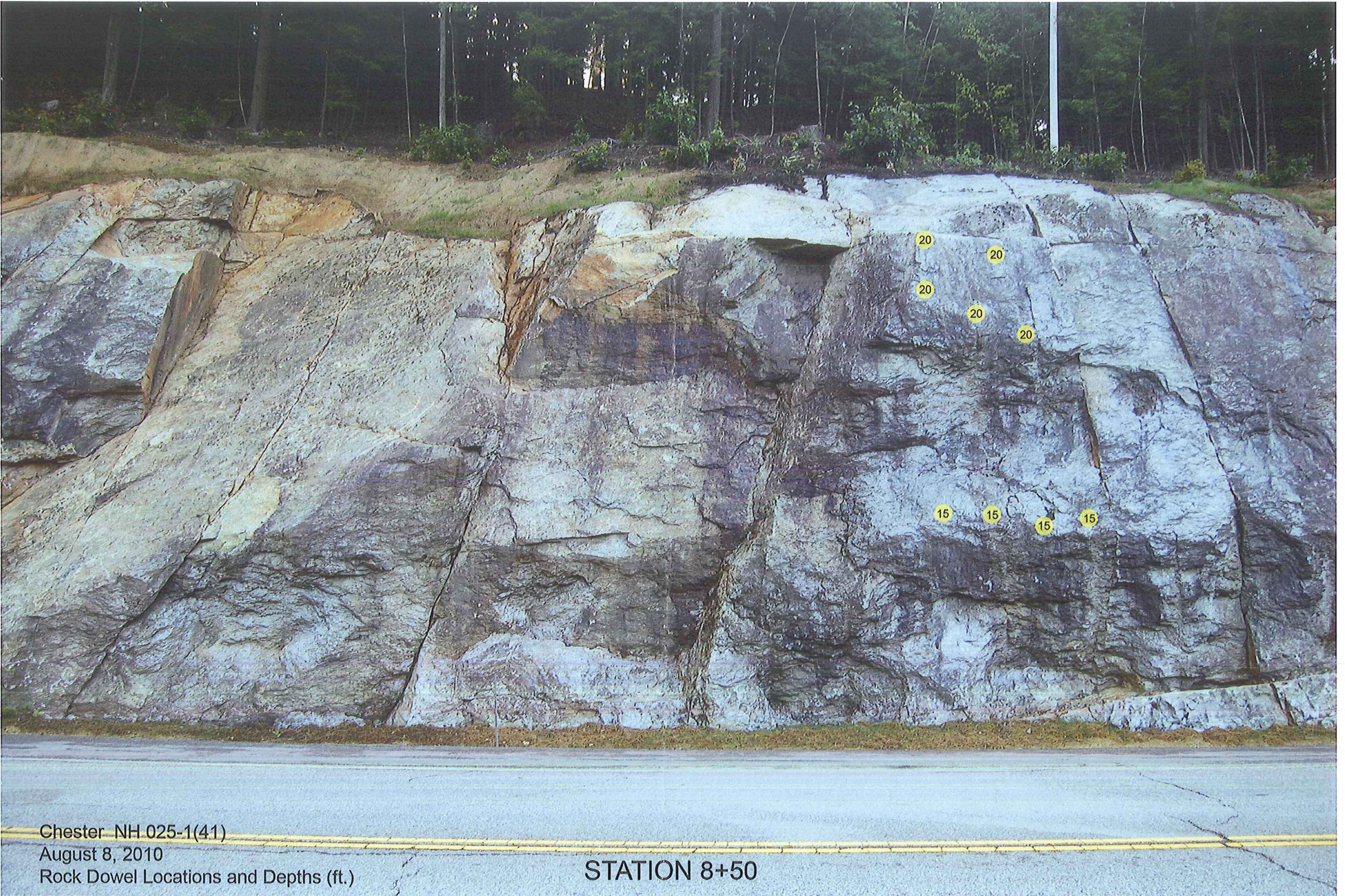
Chester NH 025-1(41)
August 8, 2010
Rock Dowel Locations and Depths (ft.)

STATION 4+00



Chester NH 025-1(41)
August 8, 2010
Rock Dowel Locations and Depths (ft.)

STATION 4+50



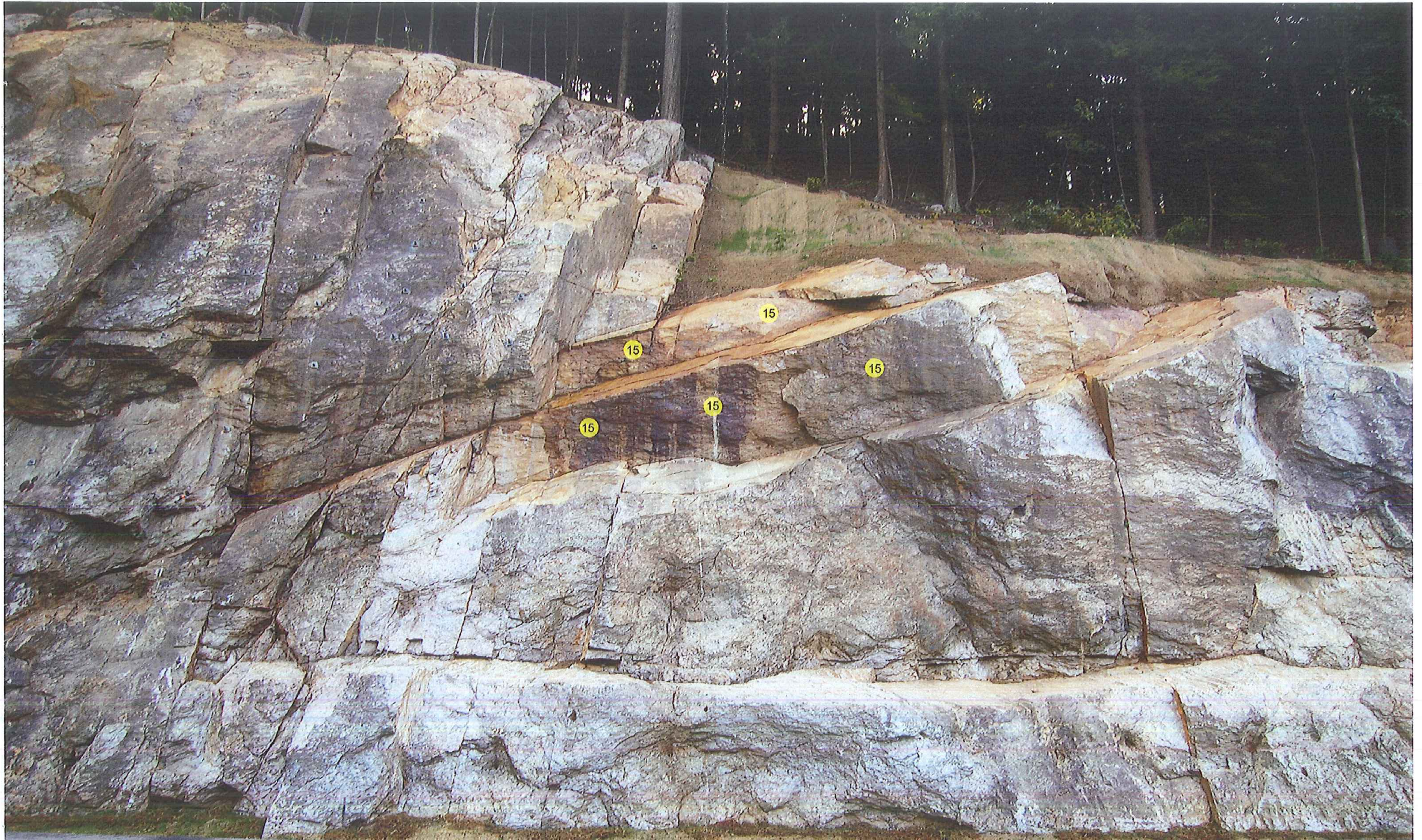
Chester NH 025-1(41)
August 8, 2010
Rock Dowel Locations and Depths (ft.)

STATION 8+50



Chester NH 025-1(14)
August 8, 2010
Rock Dowel Locations and Depths (ft.)

STATION 9+00



Chester NH 025-1(41)
August 8, 2010
Rock Dowel Locations and Depths (ft.)

STATION 9+50



Chester NH 025-1(41)

August 8, 2010

Rock Dowel and Drainage Holes with Depths (ft.)

STATION 10+00

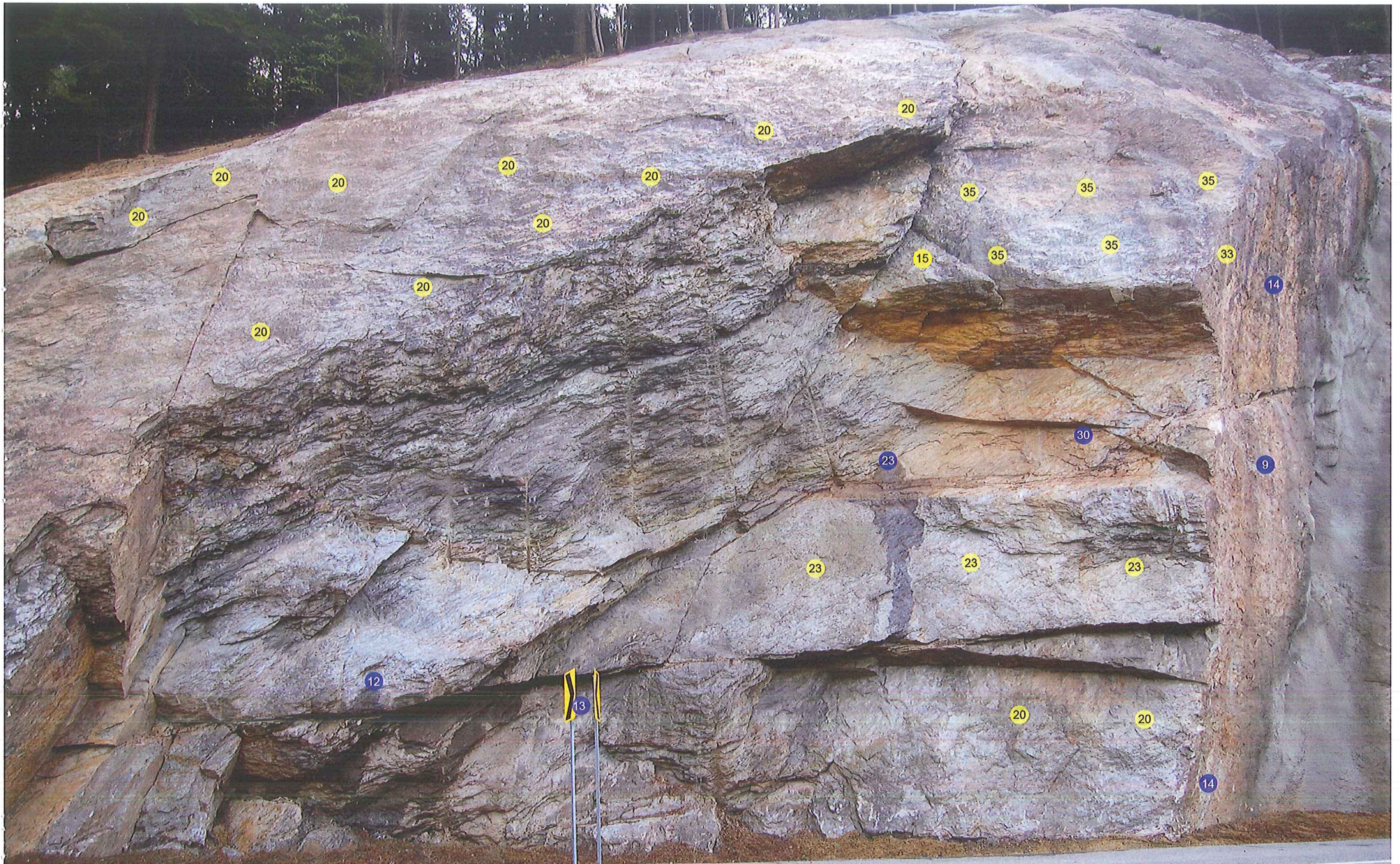


Chester, NH 025-1(41)

August 8, 2010

Dowel and Drainage Holes with Depths (ft.)

STATION 10+50



Chester NH 025-1(41)
August 8, 2010
Rock Dowel and Drainage Holes with Depths (ft.)

STATION 12+00