STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5300	1	

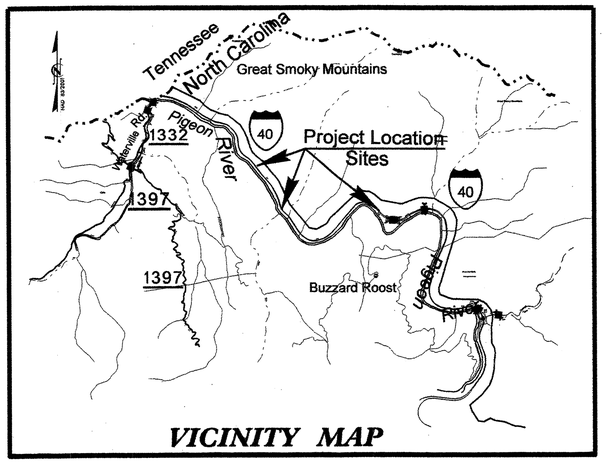
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
45366.1.1	IMS-040-1 (217) 0	PE
45366.3.1	IMS-040-1 (217) 0	CONSTR.

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

HAYWOOD COUNTY

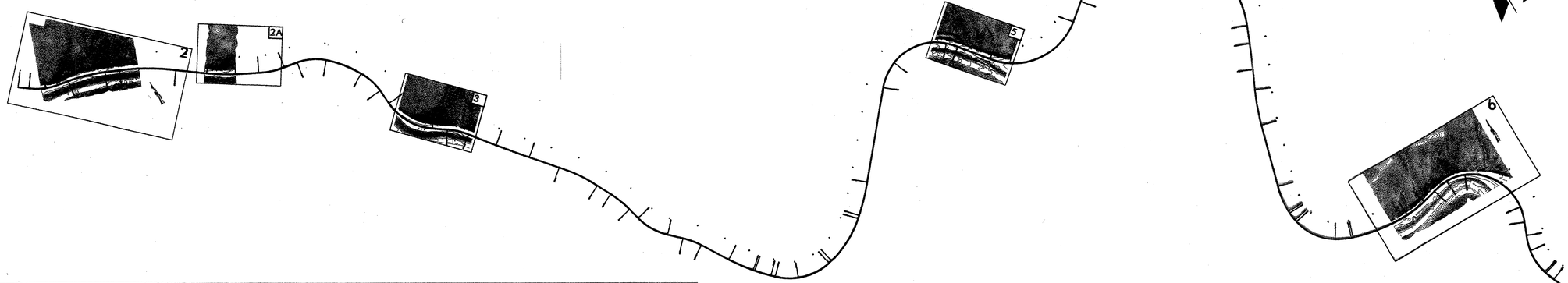
LOCATION: I-40 AT M.M. (SITE 1, 2, 2A, 3, 5 AND 6)

TYPE OF WORK: SCALING, ROCK BOLTING, MESH & ANCHORS, AND RESURFACING



VICINITY MAP

NOTE: COTTON PATCH IS LOCATED AT MM 6.0



	SITE 1	SITE 2	SITE 2A	SITE 3	SITE 5	SITE 6	TOTALS
TENSIONED ROCK BOLTS	1000	900	900	2000	1600		6400 LF
WEEP HOLES		800					800 LF
TEMPORARY ROCK FALL CONTROL FENCE				NEEDED			LS
UNTENSIONED ROCK ANCHORS						1520	1520 LF
WIRE MESH DRAPE						10200	10200 SY
SLOPE SCALING							INCIDENTAL
GROUT FOR ROCK BOLTS							INCIDENTAL

GRAPHIC SCALES

50 25 0 50 100
PLANS

NA NA 0 NA NA
PROFILE (HORIZONTAL)

NA NA 0 NA NA
PROFILE (VERTICAL)

PROJECT LENGTH

SITE 1	1+00 – 2+00	=	100 FT.
SITE 2	10+00 – 15+00	=	500 FT.
SITE 2A	31+00 – 32+00	=	100 FT.
SITE 3	70+00 – 75+00	=	500 FT.
SITE 5	204+00 – 210+00	=	600 FT.
SITE 6	MILEPOST 6.9	=	100 FT.
TOTAL		1900 FT. =	0.360 MI.

Prepared In the Office of:
DIVISION OF HIGHWAYS
1000 Birch Ridge Dr., Raleigh NC, 27610

2006 STANDARD SPECIFICATIONS

DRAFTED IN THE ROADWAY DESIGN UNIT

JS GOODNIGHT
PROJECT ENGINEER

TD GOINS
PROJECT DESIGN ENGINEER

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

P.E.
STATE HIGHWAY DESIGN ENGINEER

TIP PROJECT: I-5300

WBS: 45366.3.1

09/08/99

12-APR-2010 08:35
R:\Roadway\Proj\140_rockslide_additional_sites\140_additional_work\140_rs_rehab_sites\rehab_site1_site2\rehab_site1_site2_Rdy_tsh.dgn
$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET
1-40 SITES 1, 2, 2A, 3 & 5	

GEOTECHNICAL ENGINEER

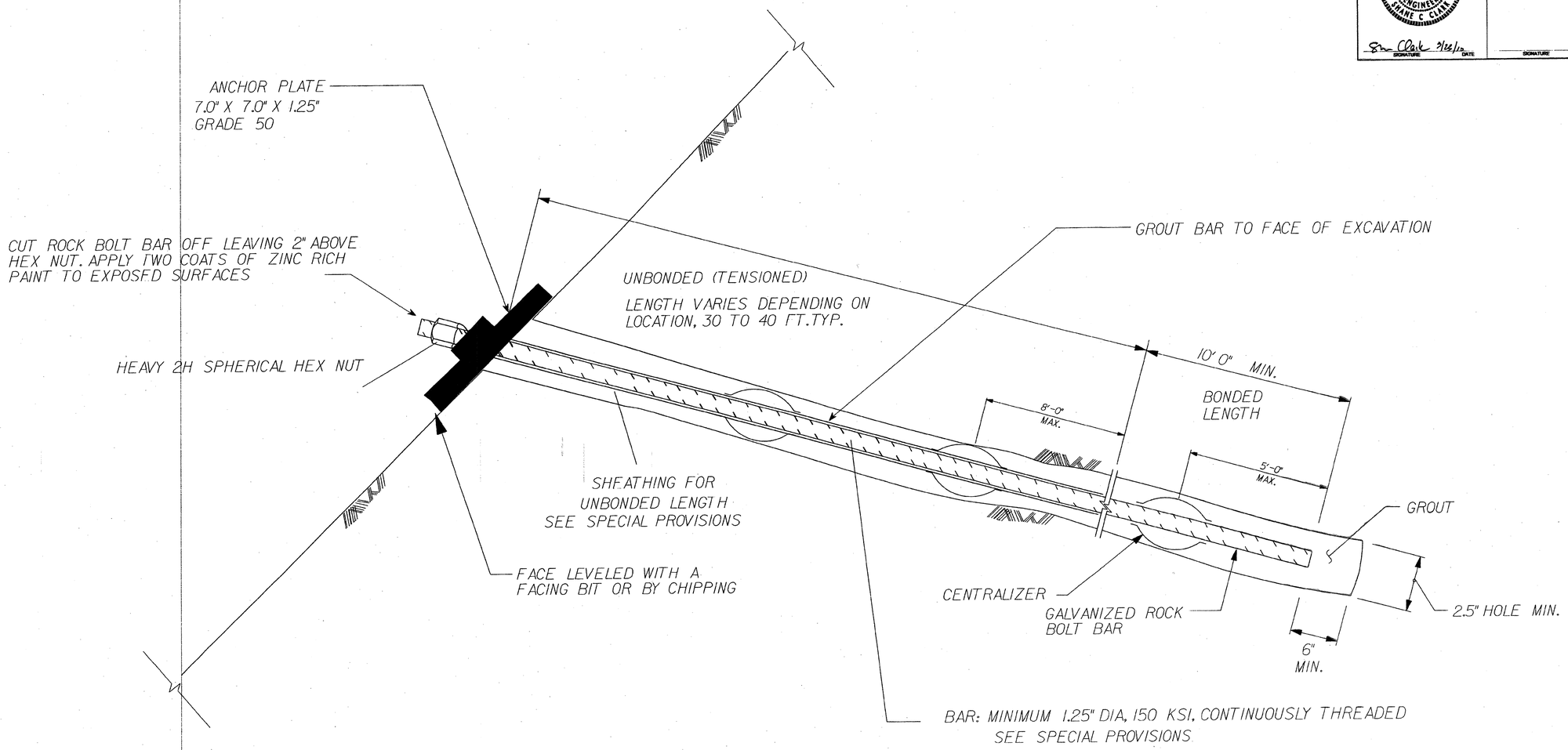
NORTH CAROLINA PROFESSIONAL SEAL 29869 ENGINEER SHANE C CLARK

Shane Clark 3/22/10
SIGNATURE DATE

ENGINEER

SIGNATURE DATE

NOTE: GALVANIZE ALL BARS AND ACCESSORIES INCLUDING PLATES, WASHERS, WEDGES, CLIPES, CLAMPS, WIRES, RINGS, AND ALL INCIDENTALS NECESSARY FOR INSTALLATION, TO THE REQUIREMENTS OF ASTM A-153-80



TENSIONED ROCK BOLTS	QUANTITY
SITES 1, 2, 2A, 3, & 5	6,400 LF

NOTE: TYPICALLY ANCHORED AT 15° INCLINED ANGLE

TYPICAL SECTION

GEOTECHNICAL ENGINEERING UNIT

☐ EASTERN REGIONAL OFFICE
☒ WESTERN REGIONAL OFFICE
☐ CONTRACT OFFICE

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

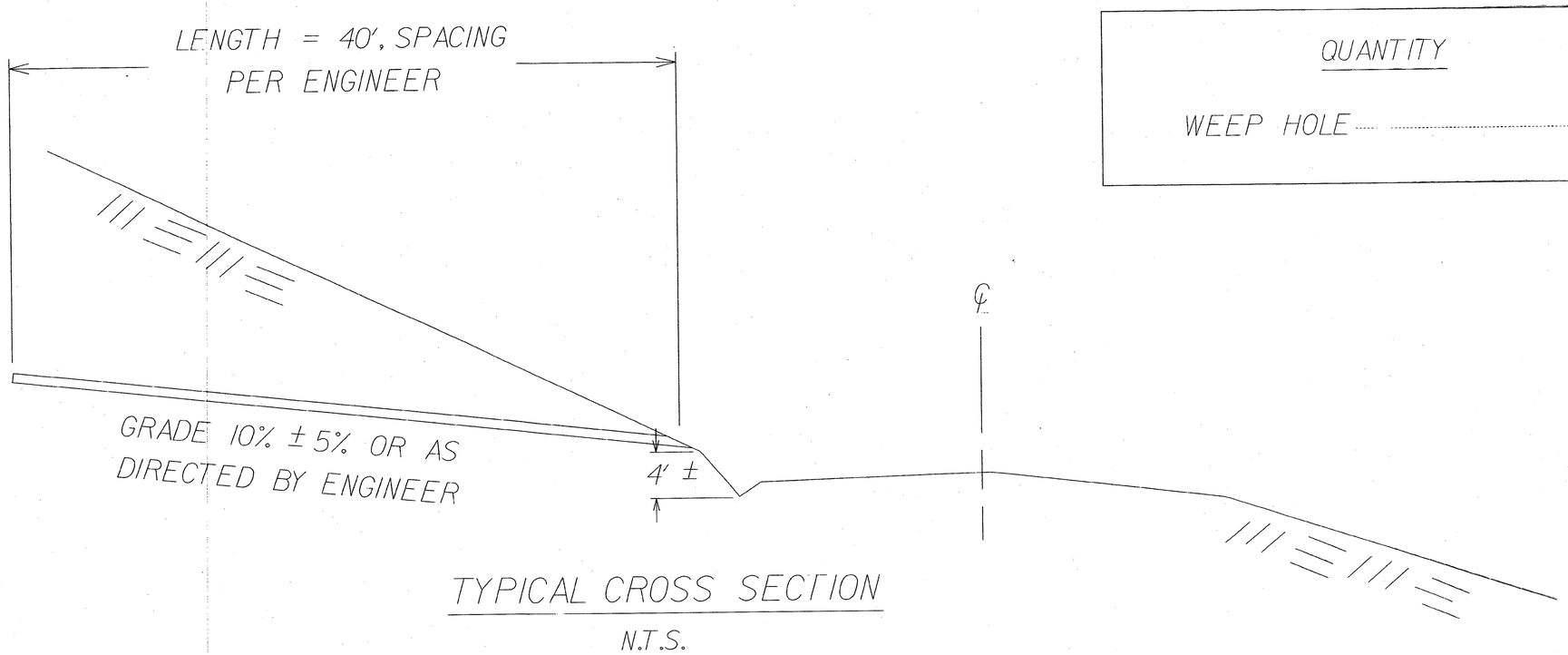
TENSIONED ROCK BOLTS
75 KIP

REVISIONS

NO.	BY	DATE	NO.	BY	DATE
1			3		
2			4		

PREPARED BY: J.C.K.	DATE: 3/10
REVIEWED BY: S.C.C.	DATE: 3/10

GEOTECHNICAL ENGINEER	ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 29869 ENGINEER SHANE C. CLARK S. Clark 5/23/10 SIGNATURE DATE	SIGNATURE DATE



TYPICAL CROSS SECTION

N.T.S.

QUANTITY

WEEP HOLE ..... 800 LF

LOCATIONS TO BE DETERMINED BY ENGINEER

PROJECT NO.: I-40 SITE 2

HAYWOOD **COUNTY**

STATION: 10+50 - 15+00

SHEET 1 OF 1 STATE LINE = STA 0+00

GEOTECHNICAL ENGINEERING UNIT

☐ EASTERN REGIONAL OFFICE

☒ WESTERN REGIONAL OFFICE

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

WEEP HOLE DETAILS

REVISIONS						SHEET NO.
NO.	BY	DATE	NO.	BY	DATE	
1			3			TOTAL SHEETS
2			4			

PREPARED BY: J.C.K.	DATE: 2/10
REVIEWED BY: S.C.C.	DATE: 2/10

PROJECT REFERENCE NO.	SHEET
I-40 SITE 6	1 OF 2

GEOTECHNICAL ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 29869 ENGINEER SHANE C CLARK

S Clark 3/23/10
SIGNATURE DATE

ENGINEER

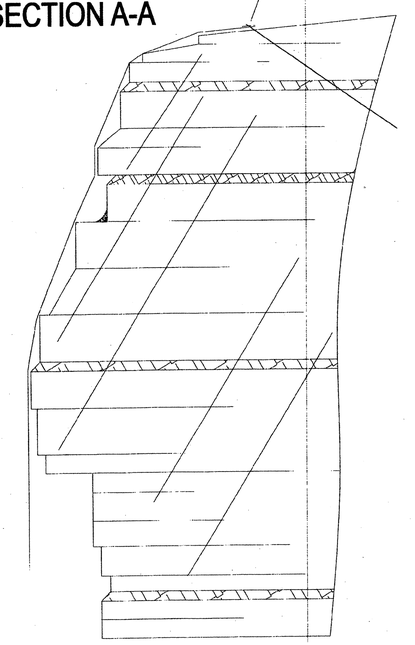
SIGNATURE DATE

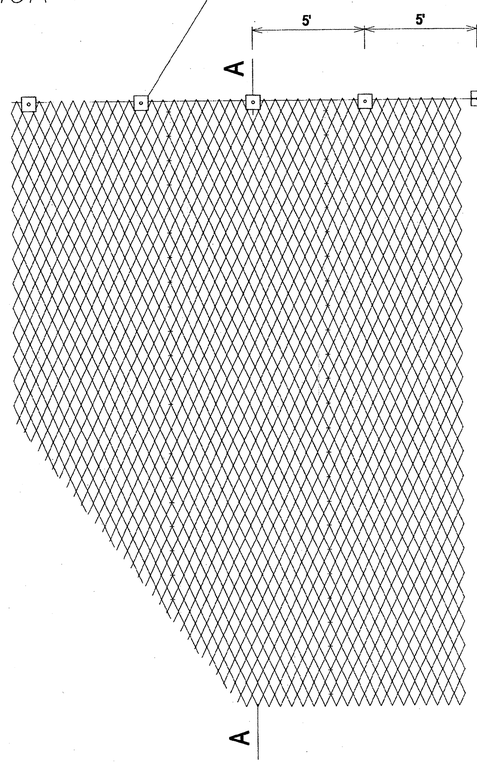
SEE DETAIL A

SEE DETAIL B

UNTENSIONED ROCK ANCHOR
20' LONG, 20° TYP.

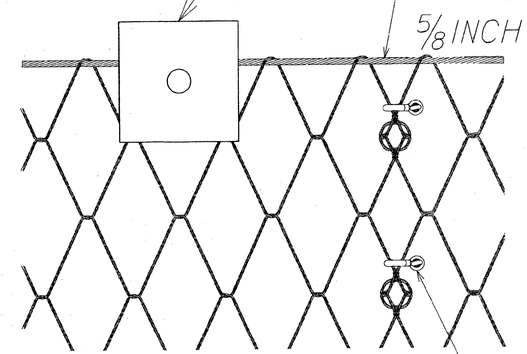
SECTION A-A





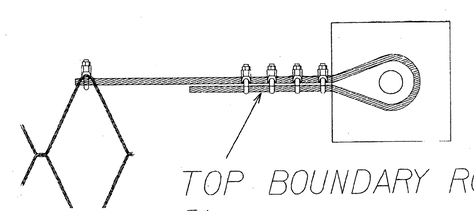
12" X 12" X 3/4" ANCHOR
PLATE OR PLATE
PER MANUFACTURERS'
SPECIFICATIONS

TOP BOUNDARY ROPE
5/8 INCH (14 mm) MIN. DIA.



SHACKLE MIN. 3/8"

DETAIL A



TOP BOUNDARY ROPE
5/8 INCH (14 mm) MIN. DIA.

DETAIL B

PREPARED BY: JCK	DATE: 3/17/10
REVIEWED BY: SCC	DATE: 3/17/10

GEOTECHNICAL ENGINEERING UNIT

☐ EASTERN REGIONAL OFFICE
☒ WESTERN REGIONAL OFFICE
☐ CONTRACT OFFICE

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

I-40 SITE 6

UNTENSIONED ROCK ANCHORS AND WIRE MESH DRAPE DETAILS

REVISIONS

NO.	BY	DATE	NO.	BY	DATE
1			3		
2			4		

PROJECT REFERENCE NO.	SHEET
I-40 SITE 6	2 OF 2

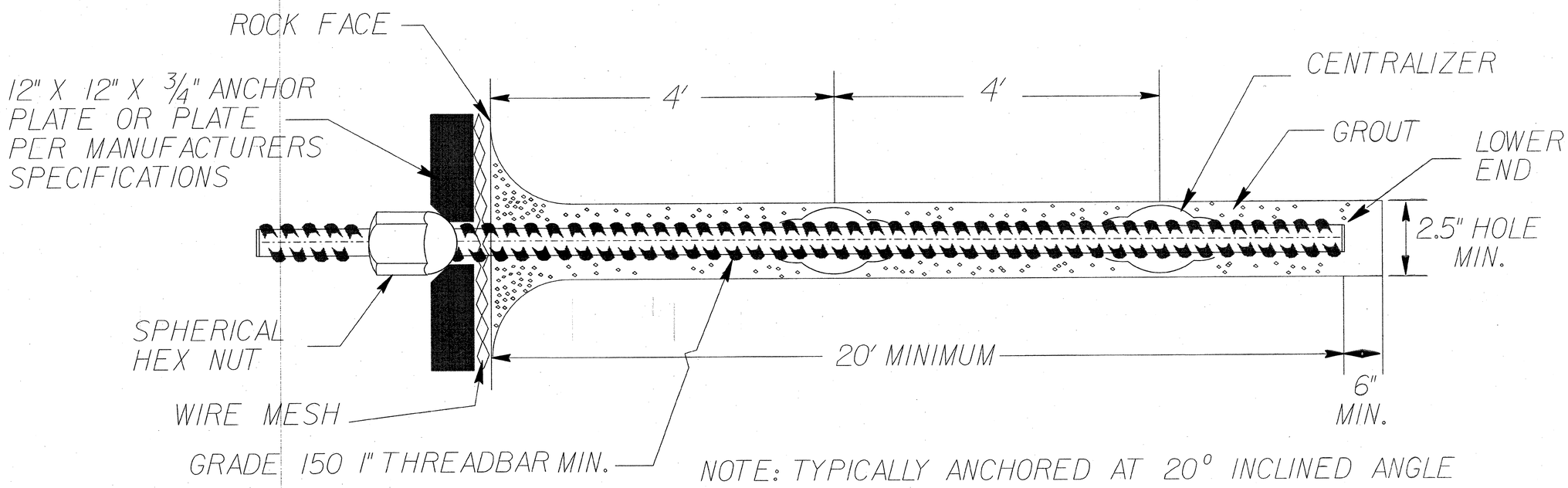
GEOTECHNICAL ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 29869 ENGINEER SHANE C CLARK

S. Clark 3/23/10
SIGNATURE DATE

ENGINEER

SIGNATURE DATE



UNTENSIONED ROCK ANCHORS

NOTES:

ANCHOR PLATE AS SHOWN OR AS PER MANUFACTURERS SPECIFICATIONS

GROUT AS PER "GROUT FOR ROCKBOLTS" SPECIAL PROVISION

PREPARED BY: JCK	DATE: 3/10
REVIEWED BY: SCC	DATE: 3/10

GEOTECHNICAL ENGINEERING UNIT

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

- ☐ EASTERN REGIONAL OFFICE
- ☒ WESTERN REGIONAL OFFICE
- ☐ CONTRACT OFFICE

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

I-40 SITE 6
UNTENSIONED ROCK ANCHORS AND WIRE MESH DRAPE DETAILS

REVISIONS

NO.	BY	DATE	NO.	BY	DATE
1			3		
2			4		

REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
SITES 1 & 2	
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

GRAPHIC SCALE
0
PLANS

LOCATION:

TIP NO.: COUNTY:

DESIGNED BY:

CHECKED BY: DATE:

PS-1485-2005 (1505)
TIP R-5021 (1505)

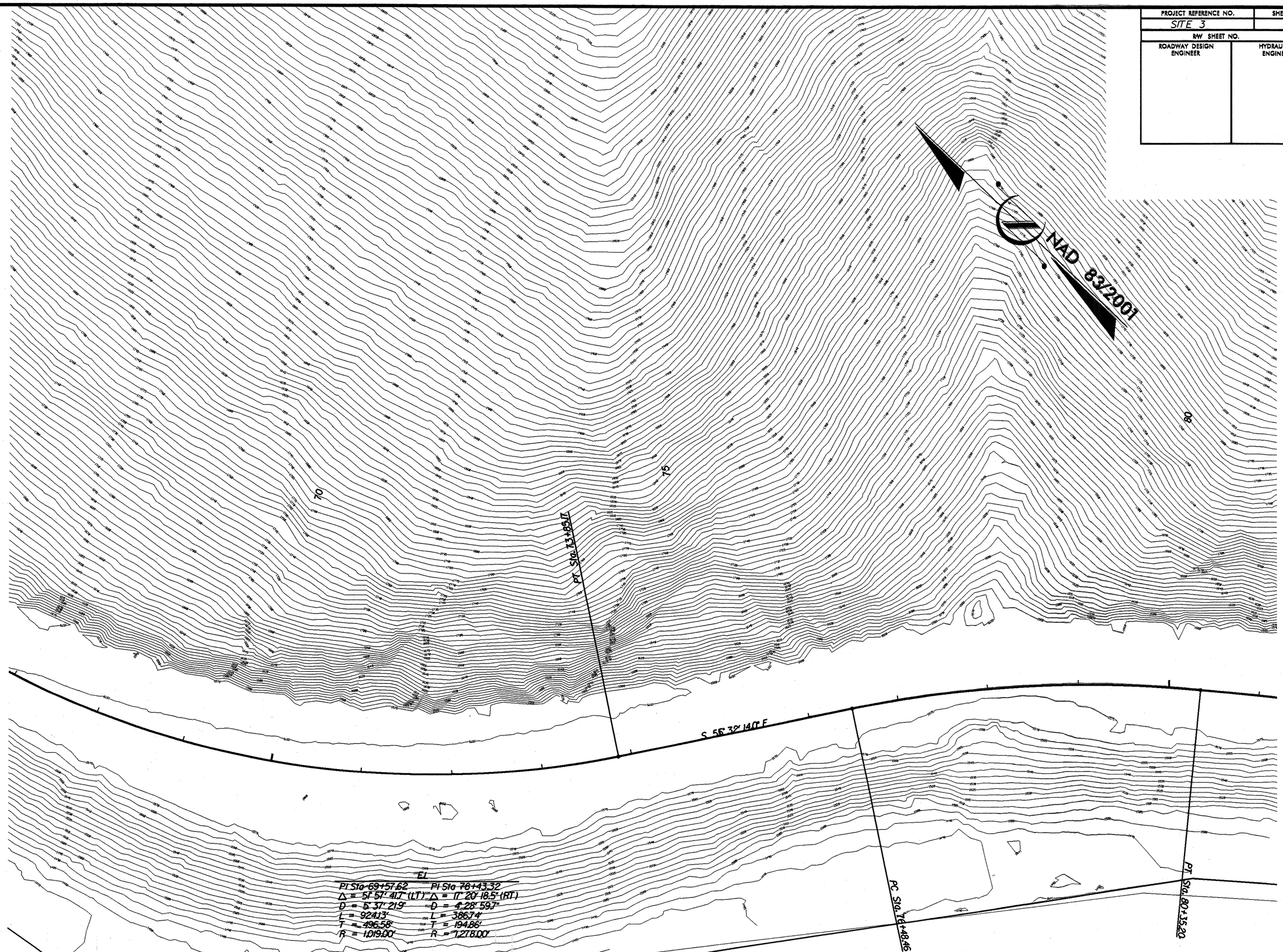
PROJECT REFERENCE NO.	SHEET NO.
SITE 2A	
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

REVISIONS

8/17/99

25-MAR-2010 09:12
R:\Roadway\Proj\140_rockslide_additional_sites\140_additional_work\140_rs_rehab_sites\rehab_site1_site2\rehab_site2A_Rdy_psh.dgn
$$$$USERNAME$$$$

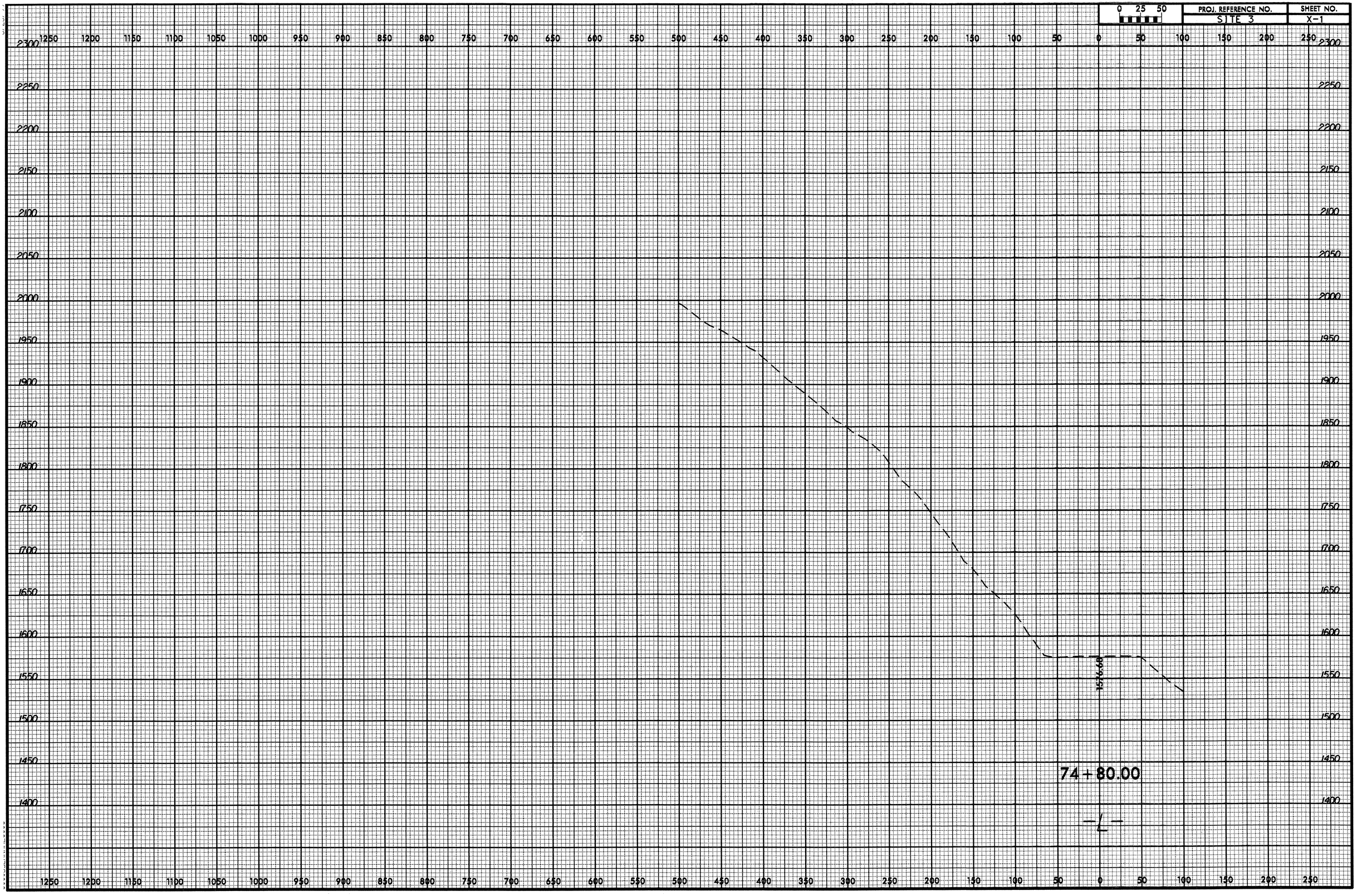
PROJECT REFERENCE NO.	SHEET NO.
SITE 3	
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



REVISIONS

8/17/99

24-MAR-2010 16:47
R:\Roadway\Proj\40_rockslide_additional_sites\40-rockslide_site_3-rdy_psh.dgn
$$$$USER NAME$$$$


0 25 50
PROJ. REFERENCE NO.
SITE 3
SHEET NO.
X-1
1250 1200 1150 1100 1050 1000 950 900 850 800 750 700 650 600 550 500 450 400 350 300 250 200 150 100 50 0 50 100 150 200 250
2300 2250 2200 2150 2100 2050 2000 1950 1900 1850 1800 1750 1700 1650 1600 1550 1500 1450 1400
1536.68
74+80.00
—℄—

PROJECT REFERENCE NO.	SHEET NO.
SITE 5	
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

REVISIONS

8/17/99

25-MAR-2010 08:50
rs_rodgers
R:\Rs_Rehab\MicroStation\140_rockslide_additional_sites\140_additional_work\140_rs_rehab_sites\rehab_site5\rehab_site5_Rdy_psh.dgn

REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
50E.6	
F.A. PROJ.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W DEMOLITION

PRELIMINARY PLANS
NOT FOR CONSTRUCTION OR BIDDING

GRAPHIC SCALE
25 12.5 0 25 50
PLANS

LOCATION:

TIP NO.: COUNTY:

DESIGNED BY:

CHECKED BY: DATE:

PROJECT REFERENCE NO.	SHEET
I-40 SITE 1	-

GEOTECHNICAL ENGINEER	ENGINEER
Original Sealed by Shane Clark of the NCDOT Geotechnical Unit	
SIGNATURE DATE	SIGNATURE DATE

NOTE: Locations of Rock Bolts, Rock Anchors, and Weep Holes are approximate only. Final locations will be determined in field by the Engineer.

PREPARED BY: JODY KUHNE	DATE: 3/10		
REVIEWED BY: SHANE CLARK	DATE: 3/10		

GEOTECHNICAL ENGINEERING UNIT

☐ EASTERN REGIONAL OFFICE

☒ WESTERN REGIONAL OFFICE

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

I-40 SITE 1
TENSIONED ROCK
BOLT LOCATIONS

REVISIONS

NO.	BY	DATE	NO.	BY	DATE
1	-	-	3	-	-
2			4		

PROJECT REFERENCE NO.	SHEET
I-40 SITE 2	1 of 2

GEOTECHNICAL ENGINEER	ENGINEER
Original Sealed by Shane Clark of the NCDOT Geotechnical Unit	
SIGNATURE DATE	SIGNATURE DATE

NOTE: Locations of Rock Bolts, Rock Anchors, and Weep Holes are approximate only. Final locations will be determined in field by the Engineer.

GEOTECHNICAL ENGINEERING UNIT

☐ EASTERN REGIONAL OFFICE

☒ WESTERN REGIONAL OFFICE

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

I-40 SITE 2
LEFT WEDGE WEEP HOLE LOCATIONS

REVISIONS

NO.	BY	DATE	NO.	BY	DATE
1	-	-	3	-	-
2			4		

PREPARED BY: JODY KUHNE	DATE: 3/10
REVIEWED BY: SHANE CLARK	DATE: 3/10

PROJECT REFERENCE NO.	SHEET
I-40 SITE 2	2 of 2

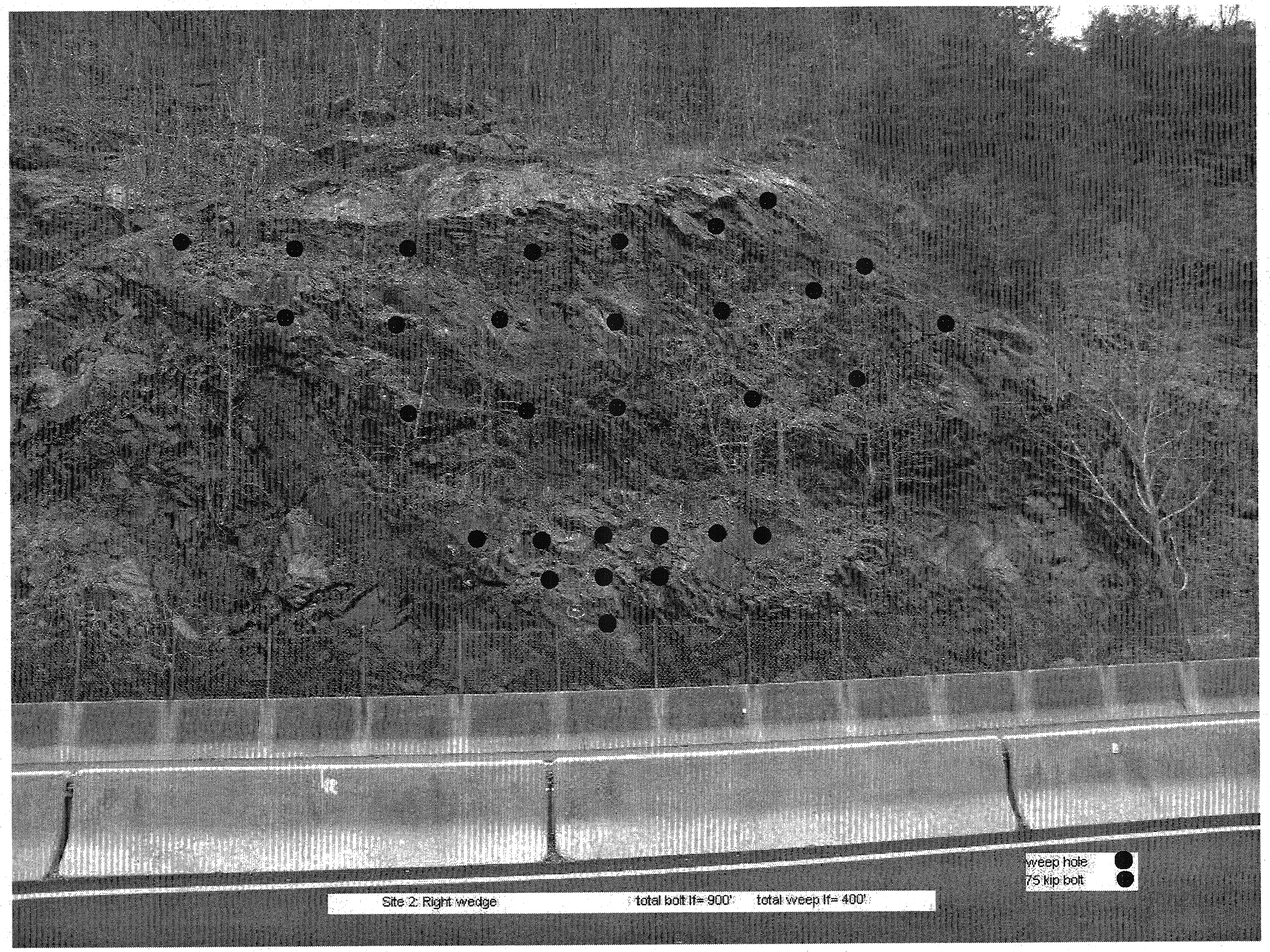
GEOTECHNICAL ENGINEER

ENGINEER

Original Sealed by Shane Clark of the NCDOT Geotechnical Unit

SIGNATURE DATE SIGNATURE DATE

NOTE: Locations of Rock Bolts, Rock Anchors, and Weep Holes are approximate only. Final locations will be determined in field by the Engineer.



GEOTECHNICAL ENGINEERING UNIT

☐ EASTERN REGIONAL OFFICE

☒ WESTERN REGIONAL OFFICE

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

I-40 SITE 2
RIGHT WEDGE TENSIONED ROCK BOLT AND WEEP HOLE LOCATIONS

REVISIONS

NO.	BY	DATE	NO.	BY	DATE
1			3		
2			4		

PREPARED BY: JODY KUHNE	DATE: 3/10
REVIEWED BY: SHANE CLARK	DATE: 3/10

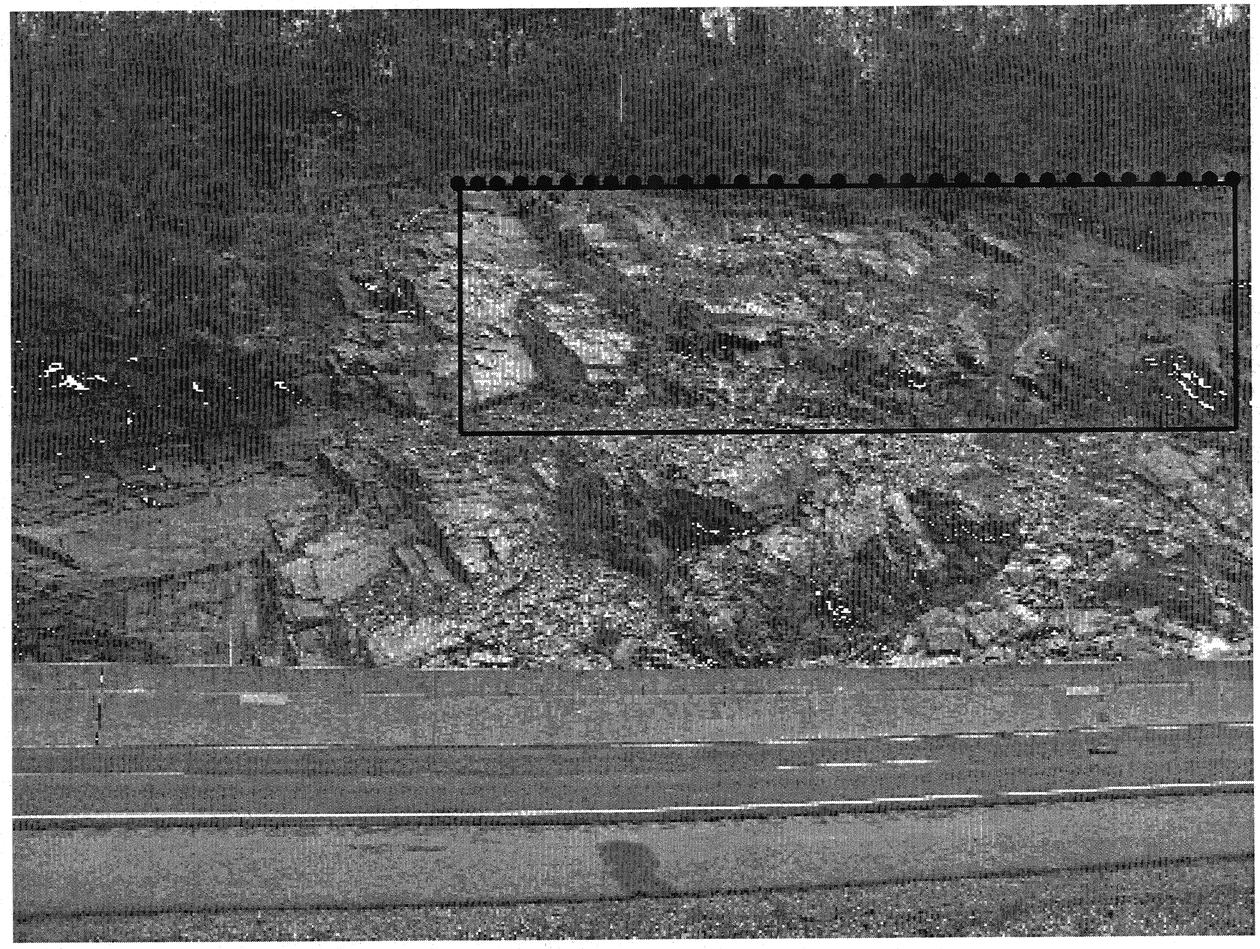
i40_site_2_tensioned_rock_bolt_and_weep_hole_locations.dgn 3/23/2010 7:09:28 AM

PROJECT REFERENCE NO.	SHEET
I-40 SITE 6	1 of 2

GEOTECHNICAL ENGINEER | ENGINEER

Original Sealed by Shane Clark of the NCDOT Geotechnical Unit

SIGNATURE DATE | SIGNATURE DATE



0 20 40
FEET
20 SCALE

NOTE: Locations of Rock Bolts, Rock Anchors, and Weep Holes are approximate only. Final locations will be determined in field by the Engineer.

DRAPE AREA 1 QUANTITIES:

30 TOTAL UNTENSIONED ROCK ANCHORS
600 LF TOTAL

WIRE MESH DRAPE
1,100 SQUARE YARDS

PREPARED BY: JODY KUHNE	DATE: 3/10		
REVIEWED BY: SHANE CLARK	DATE: 3/10		

GEOTECHNICAL ENGINEERING UNIT
☐ EASTERN REGIONAL OFFICE
☒ WESTERN REGIONAL OFFICE

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

I-40 SITE 6
UNTENSIONED ROCK ANCHORS AND WIRE MESH DRAPE AREA 1

REVISIONS

NO.	BY	DATE	NO.	BY	DATE
1	-	-	3	-	-
2	-	-	4	-	-

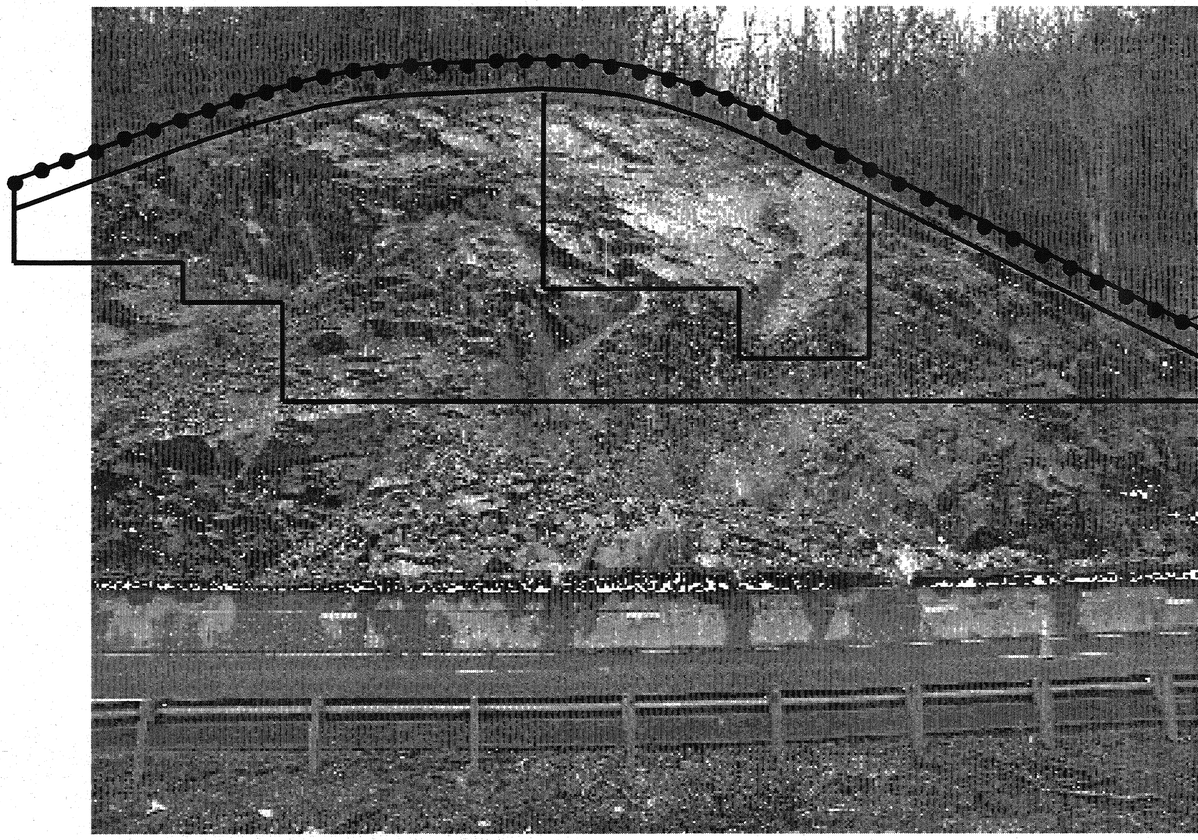
i-40_site_6_untensioned_rock_anchors_and_ wire_mesh_drape_locations_(2)_3-22-10.dgn 3/23/2010 6:52:40 AM

PROJECT REFERENCE NO.	SHEET
I-40 SITE 6	2 of 2

GEOTECHNICAL ENGINEER | ENGINEER

Original Sealed by Shane Clark of the NCDOT Geotechnical Unit

SIGNATURE DATE | SIGNATURE DATE



0 10 20
FEET
20 SCALE

DRAPE AREA 2 QUANTITIES:

43 TOTAL UNTENSIONED ROCK ANCHORS
860 LF TOTAL

WIRE MESH DRAPE
9,000 SQUARE YARDS

NOTE: Locations of Rock Bolts, Rock Anchors, and Weep Holes are approximate only. Final locations will be determined in field by the Engineer.

PREPARED BY: JODY KUHNE DATE: 3/10
REVIEWED BY: SHANE CLARK DATE: 3/10

GEOTECHNICAL ENGINEERING UNIT
☐ EASTERN REGIONAL OFFICE
☒ WESTERN REGIONAL OFFICE

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

I-40 SITE 6
UNTENSIONED ROCK ANCHORS AND WIRE MESH DRAPE AREA 2

REVISIONS

NO.	BY	DATE	NO.	BY	DATE
1	-	-	3	-	-
2	-	-	4	-	-

i-40_site_6_untensioned_rock_anchors_and_ wire_mesh_drape_locations_(2)_3-22-10.dgn 3/23/2010 6:53:34 AM

PROJECT REFERENCE NO.	SHEET
I-40 SITE 1	

GEOTECHNICAL ENGINEER	ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 29869 ENGINEER SHANE C CLARK	
SIGNATURE / DATE 3/29/10	SIGNATURE / DATE

PREPARED BY: JCK	DATE: 3-22-10
REVIEWED BY: SCC	DATE: 3-22-10

GEOTECHNICAL ENGINEERING UNIT

☐ EASTERN REGIONAL OFFICE
☒ WESTERN REGIONAL OFFICE
☐ CONTRACT OFFICE

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

I-40 SITE 1
TENSIONED ROCK BOLT LOCATIONS

REVISIONS

NO.	BY	DATE	NO.	BY	DATE
1			3		
2			4		

PROJECT REFERENCE NO.	SHEET
I-40 SITE 2	1 OF 2

GEOTECHNICAL ENGINEER	ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 29869 ENGINEER SHANE C. CLARK SIGNATURE 3/23/10 DATE	SIGNATURE DATE

PREPARED BY: JCK	DATE: 3-22-10
REVIEWED BY: SCC	DATE: 3-22-10

GEOTECHNICAL ENGINEERING UNIT

☐ EASTERN REGIONAL OFFICE
☒ WESTERN REGIONAL OFFICE
☐ CONTRACT OFFICE

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

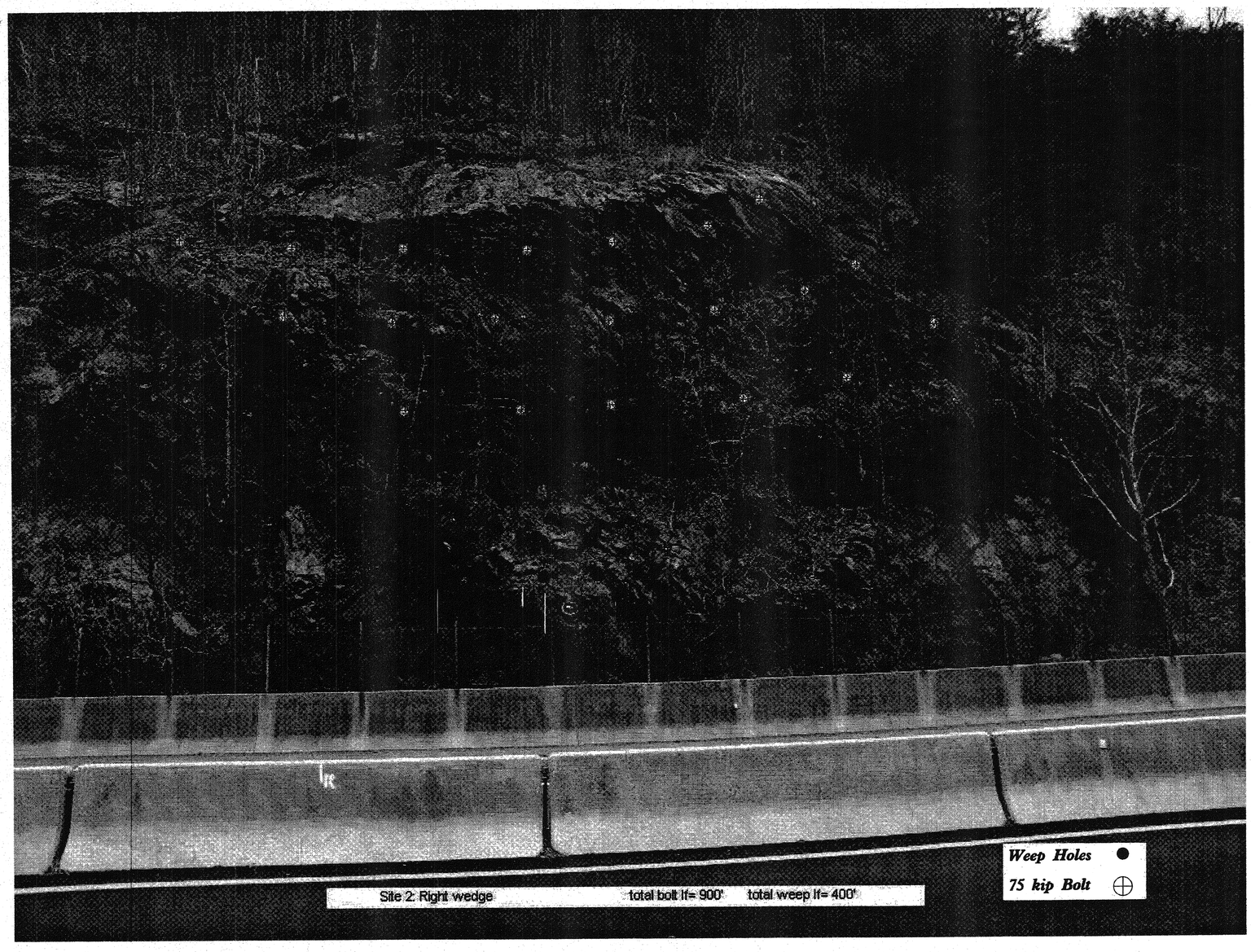
I-40 SITE 2
LEFT WEDGE WEEP HOLE LOCATIONS

REVISIONS

NO.	BY	DATE	NO.	BY	DATE
1			3		
2			4		

PROJECT REFERENCE NO.	SHEET
I-40 SITE 2	2 of 2

GEOTECHNICAL ENGINEER	ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 29869 ENGINEER JAMIE C. CLARK J. Clark 3/23/10 SIGNATURE DATE	SIGNATURE DATE



PREPARED BY:	JCK	DATE: 3-22-10	
REVIEWED BY:	SCC	DATE: 3-22-10	

GEOTECHNICAL ENGINEERING UNIT

- ☐ EASTERN REGIONAL OFFICE
- ☒ WESTERN REGIONAL OFFICE
- ☐ CONTRACT OFFICE

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

I-40 SITE 2
RIGHT WEDGE TENSIONED ROCK BOLT AND WEEP HOLE LOCATIONS

REVISIONS

NO.	BY	DATE	NO.	BY	DATE
1			3		
2			4		

PROJECT REFERENCE NO.	SHEET
I-40 SITE 6	1 of 2

GEOTECHNICAL ENGINEER

ENGINEER

Original Sealed by Shane Clark of the NCDOT Geotechnical Unit

SIGNATURE DATE SIGNATURE DATE

0 10 20
FEET
20 SCALE

DRAPE AREA 1 QUANTITIES:

33 TOTAL UNTENSIONED ROCK ANCHORS
660 LF TOTAL

WIRE MESH DRAPE
1,200 SQUARE YARDS

PREPARED BY: JODY KUHNE	DATE: 3/10		
REVIEWED BY: SHANE CLARK	DATE: 3/10		

GEOTECHNICAL ENGINEERING UNIT

☐ EASTERN REGIONAL OFFICE
☒ WESTERN REGIONAL OFFICE
☐ CONTRACT OFFICE

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

I-40 SITE 6
UNTENSIONED ROCK ANCHORS AND WIRE MESH DRAPE AREA 1

REVISIONS

NO.	BY	DATE	NO.	BY	DATE
1	-	-	3	-	-
2			4		

te 6 untensioned rock anchors and wire mesh drape locations (2) 4-9-10.dgn 4/9/2010 3:27:29 PM

PROJECT REFERENCE NO.	SHEET
I-40 SITE 6	2 of 2

GEOTECHNICAL ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 29869 ENGINEER SHANE C CLARK

Shane Clark 3/23/10
SIGNATURE DATE

ENGINEER

SIGNATURE DATE

0 10 20
FEET
20 SCALE

UNTENSIONED ROCK ANCHORS, 5' SPACING TYP.

5' MESH OVER TOP OF SLOPE

DRAPE AREA 2 QUANTITIES:

43 TOTAL UNTENSIONED ROCK ANCHORS
860 LF TOTAL

WIRE MESH DRAPE
9,000 SQUARE YARDS

PREPARED BY:	JODY KUHNE	DATE:	3/10
REVIEWED BY:	SHANE CLARK	DATE:	3/10

GEOTECHNICAL ENGINEERING UNIT

☐ EASTERN REGIONAL OFFICE
☒ WESTERN REGIONAL OFFICE
☐ CONTRACT OFFICE

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

I-40 SITE 6
UNTENSIONED ROCK ANCHORS AND WIRE MESH DRAPE AREA 2

REVISIONS

NO.	BY	DATE	NO.	BY	DATE
1			3		
2			4		

STATE PROJECT REFERENCE NO.	SHEET NO.
I-5300	TCP-1

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED TRAFFIC CONTROL, MARKING & DELINEATION

HAYWOOD COUNTY

PHASING

NOTE: THE PROJECT IS DIVIDED INTO TWO (2) AREAS AS STATED BELOW. CONTRACTOR SHALL COMPLETE ALL REQUIRED WORK IN AREA I FIRST, REMOVE TRAFFIC CONTROL AND OPEN I-40 WB TO TRAFFIC BEFORE PROCEEDING TO AREA II.

Area I: SITES 1, 2, 2A AND 3.

Area II: SITES 5 AND 6.

NOTE: CONTRACTOR MAY STOP TRAFFIC UTILIZING ROLLING ROAD BLOCK (SEE ROADWAY STANDARD DRAWING NO. 1101.03, SHEET 9 OF 9) AS ALLOWED IN THE TRAFFIC CONTROL SPECIAL PROVISION.

PHASE I (AREA I)

STEP 1: - CONTRACTOR SHALL, USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 3 OF 9 INSTALL RIGHT LANE CLOSURE ON I-40 WB FROM APPROXIMATELY MP 2 TO THE NORTH CAROLINA/TENNESSEE STATE LINE AND WITHIN THE LANE CLOSURE PLACE PORTABLE CONCRETE BARRIER & TEMPORARY PAVEMENT MARKINGS (COLD APPLIED PLASTIC TYPE IV/ REMOVABLE TAPE) AT STABILIZATION SITES 1 & 3 AS SHOWN ON ROADWAY STANDARD DRAWING NO. 1102.02, SHEET 8 OF 9.

NOTE: ESTIMATED PORTABLE CONCRETE BARRIER IS 1,000 LINEAR FEET FOR EACH SITE.

STEP 2: - CONTRACTOR SHALL WORK IN A CONTINUOUS MANNER TO COMPLETE ALL REQUIRED WORK IN AREA I. UPON COMPLETION THE CONTRACTOR SHALL REMOVE LANE CLOSURE, PORTABLE CONCRETE BARRIER & ALL OTHER TRAFFIC CONTROL ITEMS AND OPEN I-40 WB TO THE EXISTING TRAFFIC PATTERN.

PHASE II (AREA II)

STEP 1: - CONTRACTOR SHALL, USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 3 OF 9 INSTALL RIGHT LANE CLOSURE ON I-40 WB FROM APPROXIMATELY MP 7 TO MP 3. AS DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL INSTALL THE LANE CLOSURE SO THAT TRAFFIC IS ESTABLISHED IN THE ONE-LANE PATTERN PRIOR TO ENTERING THE TUNNEL. ALSO, WITHIN THE LANE CLOSURE THE CONTRACTOR SHALL PLACE PORTABLE CONCRETE BARRIER & TEMPORARY PAVEMENT MARKINGS (COLD APPLIED PLASTIC TYPE IV/REMOVABLE TAPE) AT STABILIZATION SITES 5 & 6 AS SHOWN ON ROADWAY STANDARD DRAWING NO. 1102.02, SHEET 8 OF 9.

NOTE: ESTIMATED PORTABLE CONCRETE BARRIER IS 1,500 LINEAR FEET FOR SITE 5 AND 500 LINEAR FEET FOR SITE 6

STEP 2: - CONTRACTOR SHALL WORK IN A CONTINUOUS MANNER TO COMPLETE ALL REQUIRED WORK IN AREA II. UPON COMPLETION THE CONTRACTOR SHALL REMOVE LANE CLOSURE, PORTABLE CONCRETE BARRIER & ALL OTHER TRAFFIC CONTROL ITEMS AND OPEN I-40 WB TO THE EXISTING TRAFFIC PATTERN.

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JULY 2006 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW PANELS
1130.01	DRUMS
1160.01	TEMPORARY CRASH CUSHION
1165.01	TRUCK MOUNTED IMPACT ATTENUATOR
1170.01	PORTABLE CONCRETE BARRIER
1261.01	GUARDRAIL AND BARRIER DELINEATOR SPACING
1261.02	GUARDRAIL AND BARRIER DELINEATOR TYPES

LEGEND

GENERAL

- DIRECTION OF TRAFFIC FLOW
- NORTH ARROW
- PROPOSED PVMT. - - - - EXIST. PVMT.
- WORK AREA
- REMOVAL OF EXISTING PAVEMENT

TRAFFIC CONTROL DEVICES

- TYPE I BARRICADE
- TYPE II BARRICADE
- TYPE III BARRICADE
- CONE
- DRUM
- SKINNY DRUM
- FLASHING ARROW PANEL (TYPE C)
- STATIONARY SIGN
- PORTABLE SIGN
- STATIONARY OR PORTABLE SIGN
- CRASH CUSHION
- CHANGEABLE MESSAGE SIGN
- TRUCK MOUNTED IMPACT ATTENUATOR (TMIA)
- POLICE
- FLAGGER

PAVEMENT MARKINGS

- CRYSTAL/CRYSTAL PAVEMENT MARKER
- YELLOW/YELLOW PAVEMENT MARKER
- CRYSTAL/RED PAVEMENT MARKER
- PAVEMENT MARKING SYMBOLS

APPROVED: _____
DATE: _____

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 8974 ENGINEER G. L. GETTIER 6/APR/10

PLAN PREPARED BY: N.C.D.O.T. WORK ZONE TRAFFIC CONTROL

J.S. BOURNE, P.E. — STATE TRAFFIC MANAGEMENT ENGINEER
G.L. GETTIER, P.E. — TRAFFIC CONTROL PROJECT ENGINEER
J.W. GILSTRAP — TRAFFIC CONTROL PROJECT DESIGN ENGINEER
KEN BROADWELL — TRAFFIC CONTROL DESIGN ENGINEER

I-5300

TIP PROJECT:

09-APR-2010 09:17
\\DOT\DFSROOT\GROUPS-WZTCCC\WZTC\DesignGroup3\Squad3B\SpecialProjects\I-4910 or I-5300 I-40 Rock Slide 10-25-2009\I-5300 4-9-2010 Adds\I-5300_TCP-1.dgn
kbroadwell AT WZTC23745