EROSION CONTROL PLAN

PROJECT REFERENCE NO.	SHEET NO.
020265	EC-1
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CAUSEWAY CONSTRUCTION SEQUENCE

1. CONSTRUCT MAIN CAUSEWAY, WITH FLOW THRU PIPES, AS SHOWN ON PLAN. NO MORE THAN HALF OF THE STREAM SHALL BE BLOCKED DURING PHASE I CONSTRUCTION.
2. DRIVEWAY ACCESS TO PROPERTY NO. 6 SHALL BE MAINTAINED 24-HR DURING PHASE I CONSTRUCTION.
3. REMOVE EXISTING CONCRETE PIERS AND ABUTMENT.
4. CONSTRUCT FINGERS OF CAUSEWAY AS SHOWN ON PLAN.
5. BEGIN CONSTRUCTION OF INTERIOR BENTS 1 THROUGH 4 AND END BENT 1. INSTALL (3)-3.0' DIAMETER SHAFTS PER BENT AS DETAILED ON THE STRUCTURES PLANS.
6. REMOVE BENT ACCESS PORTION OF THE CAUSEWAY AFTER COMPLETION OF BENT CONSTRUCTION.
7. INSTALL 21" CORED SLABS FROM MAIN CAUSEWAY.
8. REMOVE MAIN CAUSEWAY BEFORE BEGINNING CONSTRUCTION OF PHASE II CAUSEWAY.
9. INSTALL BANK STABILIZATION AS SHOWN ON PLANS UPON REMOVAL OF MAIN CAUSEWAY.

2012 STANDARD DRAWINGS

1604.01	Railroad Erosion Control Detail	1632.01	Rock Inlet Sediment Trap Type A
1605.01	Temporary Silt Fence	1632.02	Rock Inlet Sediment Trap Type B
1606.01	Special Sediment Control Fence	1632.03	Rock Inlet Sediment Trap Type C
1607.01	Gravel Construction Entrance	1633.01	Temporary Rock Silt Check Type A
1622.01	Temporary Berms and Slope Drains	1633.02	Temporary Rock Silt Check Type B
1630.01	Riser Basin	1634.01	Temporary Rock Sediment Dam Type A
1630.02	Silt Basin Type B	1634.02	Temporary Rock Sediment Dam Type B
1630.03	Temporary Silt Ditch	1635.01	Rock Pipe Inlet Sediment Trap Type A
1630.04	Stilling Basin	1635.02	Rock Pipe Inlet Sediment Trap Type B
1630.05	Temporary Diversion	1640.01	Coir Fiber Baffle
1630.06	Special Stilling Basin	1645.01	Temporary Stream Crossing
1631.01	Matting Installation		

Std. #	Description	Symbol
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	
1622.01	Temporary Berms and Slope Drains	
1630.02	Silt Basin Type B	
1630.03	Temporary Silt Ditch	TSD
1630.05	Temporary Diversion	TD
1630.06	Special Stilling Basin	
1632.03	Rock Inlet Sediment Trap Type C	
1633.01	Temporary Rock Silt Check Type-A	
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	
1633.02	Temporary Rock Silt Check Type-B	
	Wattle	
	Wattle with Polyacrylamide (PAM)	
1634.02	Temporary Rock Sediment Dam Type-B	
1635.01	Rock Pipe Inlet Sediment Trap Type-A	

NAD 83/NSRS 2007

Audrey Burnette
LEVEL IIIA NAME

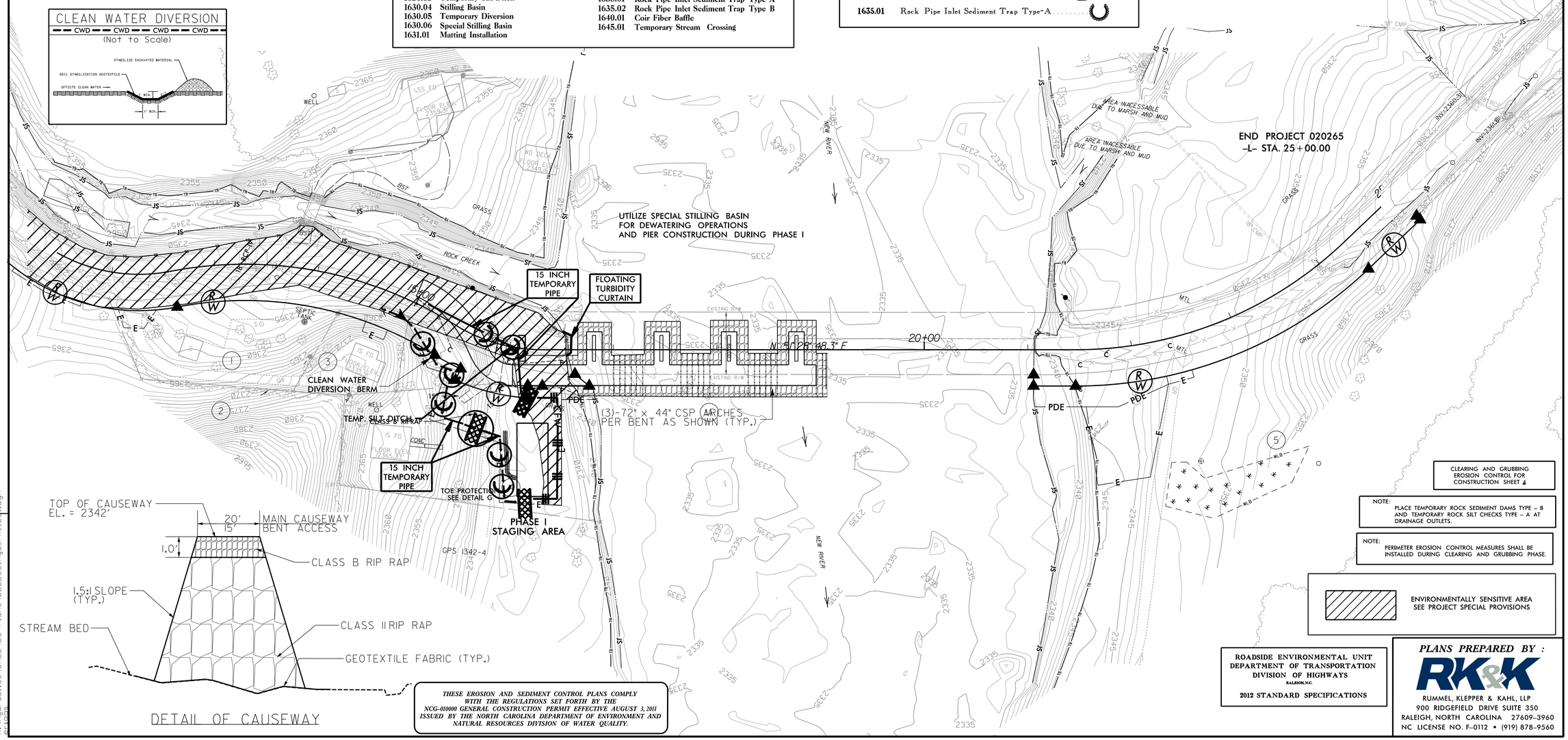
3081
LEVEL IIIA CERTIFICATION NO.

GRAPHIC SCALES

0 PLANS

0 PROFILE (HORIZONTAL)

0 PROFILE (VERTICAL)



CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 4

NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE – B AND TEMPORARY ROCK SILT CHECKS TYPE – A AT DRAINAGE OUTLETS.

NOTE: PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.

ENVIRONMENTALLY SENSITIVE AREA SEE PROJECT SPECIAL PROVISIONS

THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE REGULATIONS SET FORTH BY THE NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE AUGUST 3, 2011 ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES DIVISION OF WATER QUALITY.

ROADSIDE ENVIRONMENTAL UNIT
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

2012 STANDARD SPECIFICATIONS

PLANS PREPARED BY :
RK&K
RUMMEL, KLEPPER & KAHL, LLP
900 RIDGEFIELD DRIVE SUITE 350
RALEIGH, NORTH CAROLINA 27609-3960
NC LICENSE NO. F-0112 • (919) 878-9560

8/17/99

Construction Revision: Main causeway widened to 20' (from 15') and bent access widened to 15' (from 10')

5/30/2014
R:\Hydraulics\CADD\EC Plans\020265_Hyd_PH1_EC1.dgn

EROSION CONTROL PLAN

PLAN OF CAUSEWAY - PHASE II

PROJECT REFERENCE NO.	SHEET NO.
020265	EC-2
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

Audrey Burnette
LEVEL IIIA NAME

3081
LEVEL IIIA CERTIFICATION NO.

NAD 83/NSRS 2007

CAUSEWAY CONSTRUCTION SEQUENCE

1. CONSTRUCT MAIN CAUSEWAY, WITH FLOW THRU PIPE, AS SHOWN ON PLAN. NO MORE THAN HALF OF THE STREAM SHALL BE BLOCKED DURING PHASE II CONSTRUCTION.
2. REMOVE EXISTING CONCRETE PIERS AND ABUTMENT.
3. CONSTRUCT FINGERS OF CAUSEWAY AS SHOWN ON PLAN.
4. BEGIN CONSTRUCTION INTERIOR BENTS 5 THROUGH 7 AND END BENT 2. INSTALL (3)-3.0' DIAMETER SHAFTS PER BENT.
5. AFTER COMPLETION OF BENT CONSTRUCTION, REMOVE BENT ACCESS PORTION OF CAUSEWAY.
6. INSTALL 21" CORED SLABS FROM MAIN CAUSEWAY. REMOVE MAIN CAUSEWAY UPON COMPLETION.
7. INSTALL BANK STABILIZATION AS SHOWN UPON COMPLETION AFTER REMOVING CAUSEWAY.

2012 STANDARD DRAWINGS

1604.01	Railroad Erosion Control Detail	1632.01	Rock Inlet Sediment Trap Type A
1605.01	Temporary Silt Fence	1632.02	Rock Inlet Sediment Trap Type B
1606.01	Special Sediment Control Fence	1632.03	Rock Inlet Sediment Trap Type C
1607.01	Gravel Construction Entrance	1633.01	Temporary Rock Silt Check Type A
1622.01	Temporary Berms and Slope Drains	1633.02	Temporary Rock Silt Check Type B
1630.01	Riser Basin	1634.01	Temporary Rock Sediment Dam Type A
1630.02	Silt Basin Type B	1634.02	Temporary Rock Sediment Dam Type B
1630.03	Temporary Silt Ditch	1635.01	Rock Pipe Inlet Sediment Trap Type A
1630.04	Stilling Basin	1635.02	Rock Pipe Inlet Sediment Trap Type B
1630.05	Temporary Diversion	1640.01	Coir Fiber Baffle
1630.06	Special Stilling Basin	1645.01	Temporary Stream Crossing
1631.01	Matting Installation		

Std. #	Description	Symbol
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	
1622.01	Temporary Berms and Slope Drains	
1630.02	Silt Basin Type B	
1630.03	Temporary Silt Ditch	TD
1630.05	Temporary Diversion	TD
1630.06	Special Stilling Basin	
1632.03	Rock Inlet Sediment Trap Type C	
1633.01	Temporary Rock Silt Check Type-A	
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	
1633.02	Temporary Rock Silt Check Type-B	
	Wattle	
	Wattle with Polyacrylamide (PAM)	
1634.02	Temporary Rock Sediment Dam Type-B	
1635.01	Rock Pipe Inlet Sediment Trap Type-A	

GRAPHIC SCALES

0
PLANS

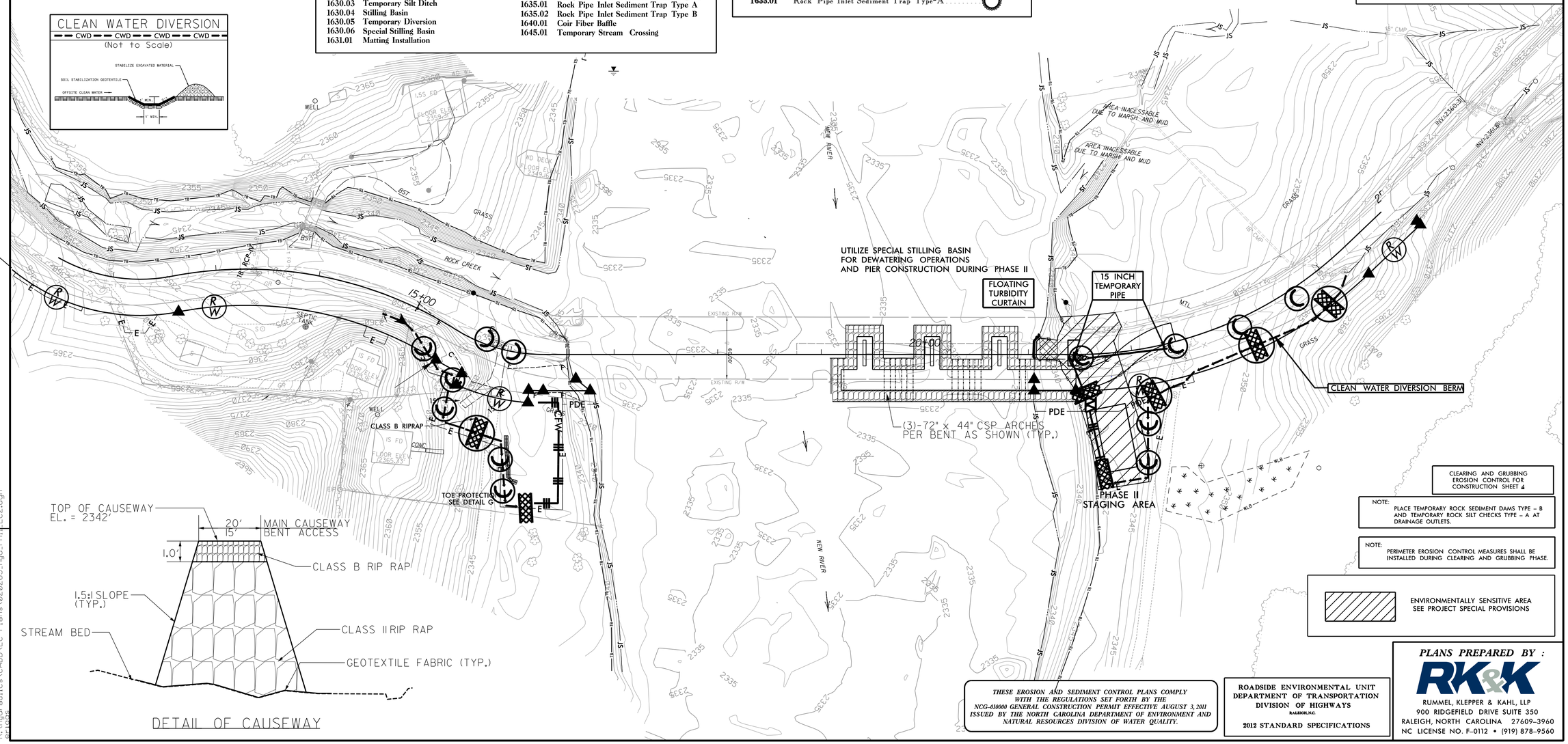
0
PROFILE (HORIZONTAL)

0
PROFILE (VERTICAL)

CLEAN WATER DIVERSION

CWD — CWD — CWD — CWD

(Not to Scale)



DETAIL OF CAUSEWAY

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 4

NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE – B AND TEMPORARY ROCK SILT CHECKS TYPE – A AT DRAINAGE OUTLETS.

NOTE: PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.

ENVIRONMENTALLY SENSITIVE AREA SEE PROJECT SPECIAL PROVISIONS

THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE REGULATIONS SET FORTH BY THE NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE AUGUST 3, 2011 ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES DIVISION OF WATER QUALITY.

ROADSIDE ENVIRONMENTAL UNIT
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

2012 STANDARD SPECIFICATIONS

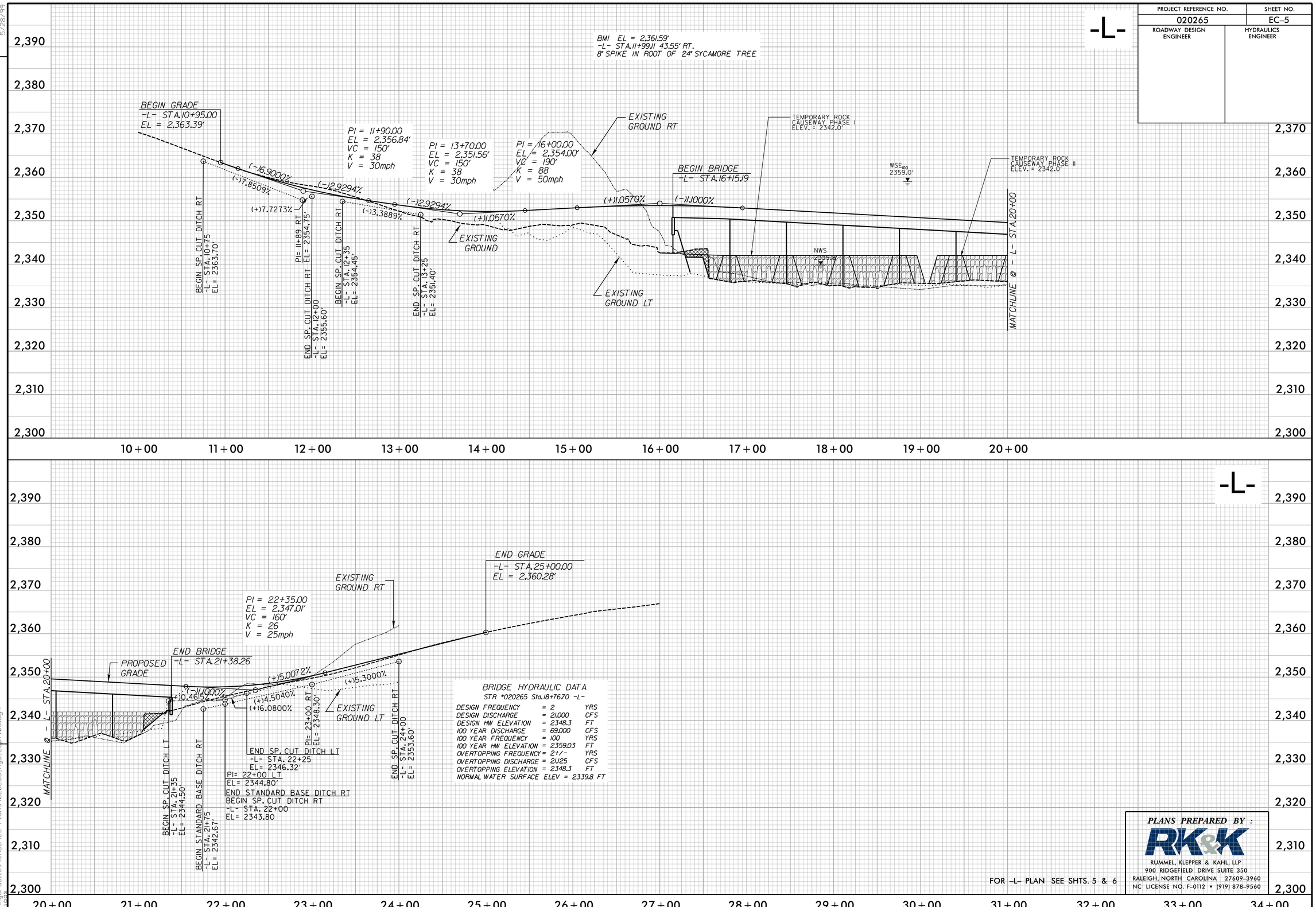
PLANS PREPARED BY :
RK&K
RUMMEL, KLEPPER & KAHL, LLP
900 RIDGEFIELD DRIVE SUITE 350
RALEIGH, NORTH CAROLINA 27609-3960
NC LICENSE NO. F-0112 • (919) 878-9560

8/17/99

Construction Revision: Main causeway widened to 20' (from 15') and bent access widened to 15' (from 10')

5/30/2014
R:\Hydraulics\CADD\EC Plans\020265_Hyd_PHIIEC2.dgn

PROJECT REFERENCE NO.	SHEET NO.
020265	EC-5
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



FOR -L- PLAN SEE SHTS. 5 & 6

PLANS PREPARED BY :

RK&K

RUMMEL, KLEPPER & KAHL, LLP
900 RIDGEFIELD DRIVE SUITE 350
RALEIGH, NORTH CAROLINA 27609-3960
NC LICENSE NO. F-0112 • (919) 878-9560

Construction Revision: Main causeway widened to 20' (from 15') and bent access widened to 15' (from 10')

5/28/99

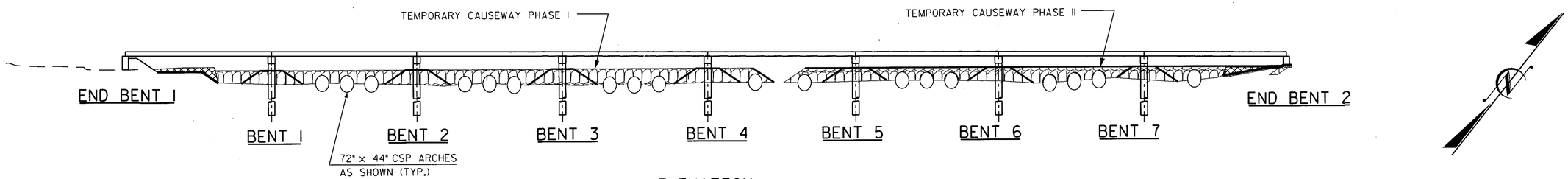
5/30/2014
R:\Hydraulics\CADD\EC Plans\020265_Hyd_EC_pl105.dgn

CAUSEWAY CONSTRUCTION SEQUENCE FOR PHASE I:

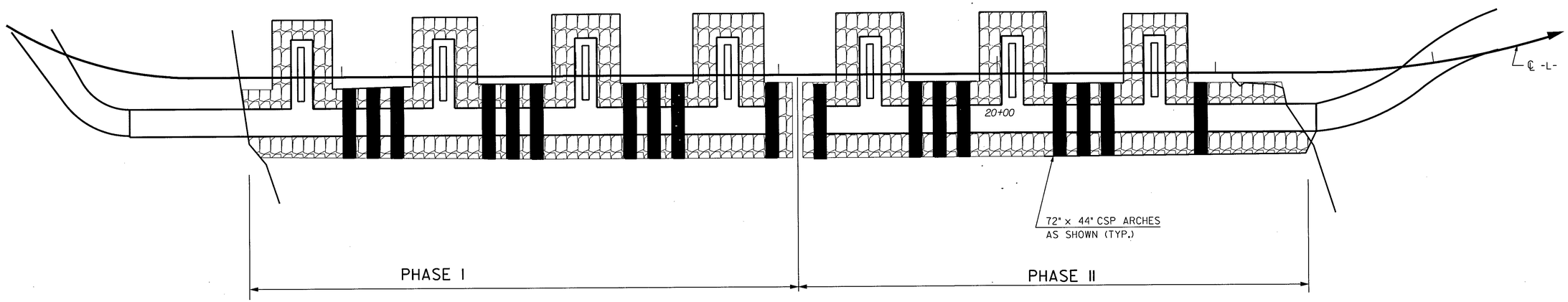
1. CONSTRUCT MAIN CAUSEWAY, WITH FLOW THRU PIPES, AS SHOWN ON PLAN.
   NO MORE THAN HALF OF THE STREAM SHALL BE BLOCKED DURING PHASE I CONSTRUCTION.
2. DRIVEWAY ACCESS TO PROPERTY NO. 6 SHALL BE MAINTAINED 24-HR DURING PHASE I CONSTRUCTION.
3. REMOVE EXISTING CONCRETE PIERS AND ABUTMENT.
4. CONSTRUCT FINGERS OF CAUSEWAY AS SHOWN ON PLAN.
5. BEGIN CONSTRUCTION OF INTERIOR BENTS 1 THROUGH 4 AND END BENT 1.
   INSTALL (3)-3.0' DIAMETER SHAFTS PER BENT AS DETAILED ON THE STRUCTURES PLANS.
6. REMOVE BENT ACCESS PORTION OF THE CAUSEWAY AFTER COMPLETION OF BENT CONSTRUCTION.
7. INSTALL 21" CORED SLABS FROM MAIN CAUSEWAY.
8. REMOVE MAIN CAUSEWAY BEFORE BEGINNING CONSTRUCTION OF PHASE II CAUSEWAY.
9. INSTALL BANK STABILIZATION AS SHOWN ON PLANS UPON REMOVAL OF MAIN CAUSEWAY.

CAUSEWAY CONSTRUCTION SEQUENCE FOR PHASE II:

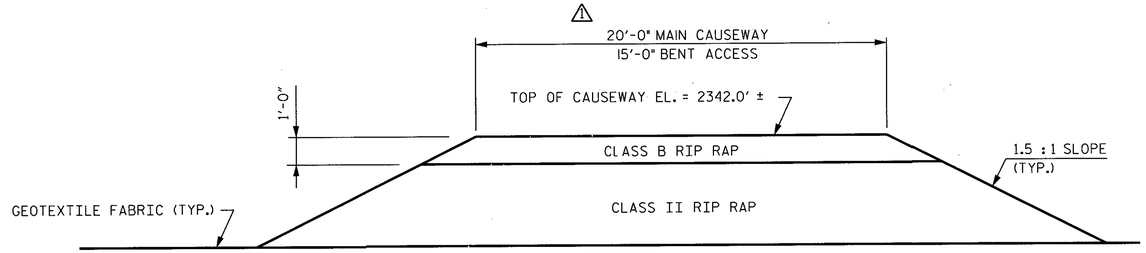
1. CONSTRUCT MAIN CAUSEWAY, WITH FLOW THRU PIPES, AS SHOWN ON PLAN.
   NO MORE THAN HALF OF THE STREAM SHALL BE BLOCKED DURING PHASE II CONSTRUCTION.
2. REMOVE EXISTING CONCRETE PIERS AND ABUTMENT.
3. CONSTRUCT FINGERS OF CAUSEWAY AS SHOWN ON PLAN.
4. BEGIN CONSTRUCTION OF INTERIOR BENTS 5 THROUGH 7 AND END BENT 2. INSTALL
   (3)-3.0' DIAMETER SHAFTS PER BENT, AS DETAILED ON STRUCTURE PLANS.
5. AFTER COMPLETION OF BENT CONSTRUCTION, REMOVE BENT ACCESS PORTION OF CAUSEWAY.
6. INSTALL 21" CORED SLABS FROM MAIN CAUSEWAY. REMOVE MAIN CAUSEWAY UPON COMPLETION.
7. INSTALL BANK STABILIZATION AS SHOWN UPON COMPLETION AFTER REMOVING CAUSEWAY.



ELEVATION



TEMPORARY CAUSEWAY PLAN



DETAIL OF CAUSEWAY

1 REVISED CAUSEWAY WIDTH

PROJECT NO. 17BP.11.R.57

ALLEGHANY COUNTY

STATION: STA. 18+76.70 -L-

SHEET 4 OF 7

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

GENERAL DRAWING
FOR BRIDGE OVER NEW RIVER
ON SR 1345
(FARMERS FISH CAMP RD.)
BETWEEN NC 93 AND VA 700

DWG. NO. 4

NORTH CAROLINA PROFESSIONAL SEAL 10960 ENGINEER RICKY V. KEITH
6/2/2014

RK&K
RUMMEL, KLEPPER & KAHL, LLP
900 RIDGEFIELD DRIVE SUITE 350
RALEIGH, NORTH CAROLINA 27609-3960
NC LICENSE NUMBER: F-0112

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-4
1	R.V. KEITH	06/02/2014	3			TOTAL SHEETS
2			4			30

DRAWN BY : F.D. WEEDEN DATE : JAN. 2014
CHECKED BY : R.V.KEITH DATE : JAN. 2014
DESIGN ENGINEER OF RECORD : J.W. GENTRY DATE : JAN. 2014

M:\projects\2012\12094_NCDOT_Division_On-Call\B01_Alleghany_265\Design\Structures\DGN\17bp_str_cw1.dgn